

MI GreenStar - Remodeling

VERSION 2.4 BETA (5/10/13)

Proj. Name: Little House on Crescent

Proj. Date: <data>

ALL PURPOSE TEXT BOX

ALL PURPOSE TEXT BOX

ALL PURPOSE TEXT BOX

UPDATE VIEW

HIDE TRADES

SHOW TRADES

GO TO ADVANCED FILTERING

SHOW ALL CREDITS

DESELECT ALL FILTERS

Project Type (CHANGE)	1	REQUIRED TO MEDAL	86	28	23	8	7	165
		PROJECT GRAND TOTALS:	181	33	46	28	24	312
		GAP TO MEDAL	-95	-5	-23	-20	-17	-147
Medal Goal (CHANGE)	Bronze	POINTS WITH "?"	0	0	4	0	0	4
		POINTS WITH "Y + ?" GAP TO MEDAL	-95	-5	-27	-20	-17	-151

CREDITS SELECTED		SECTION NUMBER			
<input checked="" type="checkbox"/>	"Y" SELECTED	<input checked="" type="checkbox"/> SECTION 0	<input checked="" type="checkbox"/> SECTION 3	<input checked="" type="checkbox"/> SECTION 6	<input checked="" type="checkbox"/> SECTION 9
<input type="checkbox"/>	"?" SELECTED	<input checked="" type="checkbox"/> SECTION 1	<input checked="" type="checkbox"/> SECTION 4	<input checked="" type="checkbox"/> SECTION 7	<input checked="" type="checkbox"/> SECTION 10
<input type="checkbox"/>	BLANK / NA	<input checked="" type="checkbox"/> SECTION 2	<input checked="" type="checkbox"/> SECTION 5	<input checked="" type="checkbox"/> SECTION 8	<input checked="" type="checkbox"/> SECTION 11

CHOOSE "Y" TO SELECT	ID NUMBER	DESCRIPTION	POINTS CATEGORIES					TOTAL
			EE	RE	IEQ	WC	SC	

REQUIRED DOCUMENTATION			SIGN OFF		COMMENTS (OPTIONAL)
Type of Doc.	Alt. Type Of Doc.	Do It Before	Initial When Doc. Comp.	Rater Approval	

Y	0	OVERALL REQUIREMENTS	EE	RE	IEQ	WC	SC	TOTAL
Y	OPR-	Prerequisites	x	x	x	x	x	x
Y	OPR-1	Register with MN GreenStar and attend mandatory 8 hour training	x	x	x	x	x	x
Y	OPR-2	Submit all Pre-Construction documentation for a plan review prior to start of construction	x	x	x	x	x	x
Y	OPR-3	Submit two year's worth of utilities bills to MN GreenStar (One year prior to the project, and one year after the project) See attached "Utility Tracking Table OPR-3"	x	x	x	x	x	x
Y	OPR-4	ENERGY STAR (or higher efficiency) rated appliances.	x	x	x	x	x	x
Y	OPR-5	Site Plan showing Major Natural Resources, Erosion Control Instructions, & other project related site info. such as landscape design.	x	x	x	x	x	x
Y	OPR-6	Water conservation plan for indoors and outdoors.	x	x	x	x	x	x
Y	OPR-7	Waste management plan. See attached "Waste Management Plan Template OPR-7"	x	x	x	x	x	x
Y	OPR-8	No intentional use of imported Forest Products on the "Controlled Imports List" unless FSC Certified. All Products from Canada are allowed without FSC Certification.	x	x	x	x	x	x
Y	OPR-9	No mercury thermostats (remove/replace if pre-existing, dispose of properly)	x	x	x	x	x	x
Y	OPR-10	Perform radon test in lowest possible habitable space. Mitigate if necessary.	x	x	x	x	x	x
Y	OPR-11	Minimum of one approved and fully operational carbon monoxide alarm installed within ten (10) feet of each bedroom.	x	x	x	x	x	x
Y	OPR-12	No NEW atmospherically vented combustion appliances allowed. (use direct vented, power vented or sealed combustion). Existing atmospherically vented appliances can remain.	x	x	x	x	x	x
Y	OPR-13	All projects must pass Fresh Air Supply (FAS) and Worst Case Combustion Spillage (WCCS) tests at end of the project. Include fireplaces in WCCS test. --> See manual for exceptions.	x	x	x	x	x	x
Y	OPR-14	Mandatory Green education of homeowner during construction by General Contractor (4 hour min.)	x	x	x	x	x	x
Y	OPR-15	Mandatory green remodeling education of homeowner at end of project (2 hour minimum)	x	x	x	x	x	x

Other Doc	Training reg #	PreConstruction	BL	Approved	Training # = 010-012813 Registration Form Submitted on ????? Registration Fee Amount = NA Gratis Michigan Pilot Project - 050513 -ms Fee Submitted on - NA Gratis Michigan Pilot Project - 050513 -ms
Other Doc		PreConstruction	BL	Approved	
Other Doc		Design	BL	Approved	
Specifications	Rater Sign off	Complete	BL	Approved	
Plan		Design	BL	Approved	
Notes on Plan		Design	BL	Approved	On Box
Plan		Design	BL	Approved	Discussed where all materials are going. Pictures. Very undetailed
Other Doc		PreConstruction	BL	Approved	No wood
Rater Sign-off		Complete	JL	Approved	
Test results		PreConstruction	BL	Approved	
Photo	Rater Sign-off	Complete	JL	Approved	Rater Sign Off or Photo. 050513 -MS
GC Sign-off		Complete	JW	Approved	
Rater Sign-off		Complete	JL	Approved	No natural drafts -BL
Homeowner sign-off		Complete	BL	Approved	I am the homeowner
Homeowner sign-off		Complete	BL	Approved	

 MI GreenStar - Remodeling VERSION 2.4 BETA (5/10/13)		ALL PURPOSE TEXT BOX ALL PURPOSE TEXT BOX ALL PURPOSE TEXT BOX Q & A Form					UPDATE VIEW		HIDE TRADES		SHOW TRADES		GO TO ADVANCED FILTERING	
Proj. Name: Little House on Crescent Proj. Date: <data>							SHOW ALL CREDITS		DESELECT ALL FILTERS					
Y	0PR-16	Provide homeowner with a user's manual covering house maintenance and green features of home.	x	x	x	x	x	Other Doc		Complete	BL	Approved		Need to create this
Y	0PR-17	Obtain all required permits & follow all required local and state bldg codes	x	x	x	x	x	GC Sign-off		Complete	JW	Approved		
Y	0PR-18	Prepare and post a job-site materials management and recycling plan By posting a job-site materials management and recycling plan the details of the plan are communicated, shared and reinforced with everyone on-site	x	x	x	x	x	GC Sign-off	PreConstruction		JW	Approved		On Box
Y	0PR-19	No burying or burning of construction waste	x	x	x	x	x	Homeowner sign-off		Complete	BL	Approved		
Y	0PR-20	Seal all ducts and air handlers to prevent contamination during construction.	x	x	x	x	x	Photo		Complete	JL	Approved		No construction
Y	0PR-21	No construction debris shall be discarded and closed inside any wall assembly	x	x	x	x	x	GC Sign-off		Complete	JW	Approved		
Y	1	PRECONSTRUCTION DESIGN STRATEGIES	13	10	3	8	8							42
Y	1A-	Integrated Project Team	2	2	2	2	2							10
Y	1A-1	Create multi-disciplinary project team, including homeowner, contractor and all subcontractors and include each in design and pre-construction meetings.	1	1	1	1	1	Other Doc	Team member sign-off	Complete	JL	Approved		
Y	1A-2	Post-construction meeting for contractor, homeowner, and key subcontractors to review performance and lessons learned.	1	1	1	1	1	Other Doc	Team member sign-off	Complete	JL	Approved		
Y	1B-	Design	4	1	1	1	1							8
Y	1B-1	Document all existing conditions, equipment and assemblies in house.	1	1	1	1	1	Other Doc	Create form template 1B-1; with sign offs	Design	JL	Approved		
Y	1B-3	Energy modeling instructs home design and performance	3					Calcs		Design	JL	Approved		
Y	1C-	Home Size	7	7	0	5	5							24
Y	1C-1	No increase to building foot print	2	2				Plan		Design	JL	Approved		
Y	1C-2	Total conditioned space of whole house after project completion is xx SF Select one:	x	x	x	x	x	Plan		Design	JL	Approved		
Y	1C-2a	<1500	5	5		5	5	Plan		Design	BL	Approved		
Y	2	SITE & LANDSCAPE	1	2	0	1	5							9
Y	2PR-	Prerequisites	x	x	x	x	x							
Y	2PR-1	No invasive species, as determined by the MN Extension Agencies, are planted	x	x	x	x	x	Other Doc	List of species planted	Complete	JL	Approved		MI Extension
Y	2PR-2	No cypress mulch	x	x	x	x	x	GC Sign-off		Complete	JL	Approved		
Y	2PR-3	No railroad ties or other landscape materials may be used which contain creosote or chromated copper arsenate	x	x	x	x	x	GC Sign-off		Complete	JL	Approved		
Y	2PR-4	Following construction completion, no part of the disturbed site is left uncovered or destabilized	x	x	x	x	x	GC Sign-off		Complete	JL	Approved		
Y	2A-	Soil and Permeability	0	0	0	0	2							2
Y	2A-3	Total site has XX% permeable surface Select one:	x	x	x	x	x	Calcs		Complete				
Y	2A-3a	65% of undeveloped site is permeable					2	Calcs		Complete	JL	Approved		
Y	2B-	Planting/Trees	1	2	0	0	3							6
Y	2B-3	No Heritage trees removed					2	GC Sign-off		Complete	JW	Approved		

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Y	2B-8	Install a compost bin		1			1	2	Homeowner sign-off	photo	Complete	BL	Approved		
Y	2B-10	Edible landscape planting/food garden is installed	1	1				2	Plan		Design	JL	Approved		
Y	2C-	Irrigation	0	0	0	1	0	1							
Y	2C-3	Irrigation plan restricts watering to after dusk and before dawn				1		1	Other Doc	Landscape maintenance plan	Complete	JL	Approved		No irrigation system installed. Homeowner will irrigate as needed after dusk and before dawn. 050513 -ms
Y	3	IMPROVEMENTS TO EXISTING FLOOR, WALL, AND ROOF ASSEMBLIES	92	8	4	0	0	104							
Y	3PR-	Prerequisites	x	x	x	x	x	x							
Y	3PR-1	Finishing a basement can be risky. If choosing to finish a basement anyway, perform thorough risk assessment of existing conditions and systems prior to doing basement finishing work.	x	x	x	x	x	x	Other Doc		Design	BL	Approved		Basement was finished when I purchased the house - BL - Inspector Report shows a very unlikely water issue in the basement
Y	3PR-2	Use Integrated Pest Management (IPM) methods to prevent pest entry.	x	x	x	x	x	x	Photo		Complete	JL	Approved		Sealed Up house
Y	3PR-3	Structural plywood & OSB must conform to PS1 and PS2 standards. Thus shall be made with non-urea formaldehyde, exterior-type adhesives	x	x	x	x	x	x	GC Sign-off		Complete	JL	Approved		Non added
Y	3PR-4	New attached garage only allowed if house has pre-existing attached garage. All new attached garages must be built with Breezeway / Mudroom and other measures to minimize the potential for garage pollution to enter the house.	x	x	x	x	x	x	GC Sign-off		Design	JL	Approved		Not Attached
Y	3PR-5	NOT USED	x	x	x	x	x	x	GC Sign-off		Design	JL	Approved		
Y	3PR-6	If recessed light fixtures are being added or replaced where they penetrate into the unconditioned area of the attic, then they must be installed to prevent air and thermal leakage.	x	x	x	x	x	x	Notes on Plan		Design	JL	Approved		NA
Y	3PR-7	Any new installation of salvaged doors or windows in an exterior application must be weather stripped, or air sealed with appropriate gasket.	x	x	x	x	x	x	GC Sign-off		Complete	JL	Approved		NA
Y	3PR-8	All new connecting doors between living space and attached garage must be gasketed or made substantially air-tight with weather stripping and an automatic closer	x	x	x	x	x	x	Notes on Plan	Specification	Design	JL	Approved		NA
Y	3PR-9	No power roof vents unless adequate air inlets exist. See also 5PR - 7.	x	x	x	x	x	x	Calcs		Design	JL	Approved		NA
Y	3PR-10	Insulation product info. sheet showing R-Value.	x	x	x	x	x	x	Other Doc		Insulation	JL	Approved		On Box
Y	3PR-11	All insulation used must be formaldehyde free	x	x	x	x	x	x	Notes on Plan	Specifications	Insulation	JL	Approved		Insulation Specs
Y	3PR-12	Wall cavities exposed during removal of existing full window units must be insulated with foam (no fiberglass allowed for this application)	x	x	x	x	x	x	Rater Sign-off		Drywall	JL	Approved		NA
Y	3A-	Air Tightness	78	2	1	0	0	81							
Y	3A-1	Air infiltration rate is 0.35 air changes per hour (ACH-natural) or less upon project completion, regardless if changes made to tightness during project or not. (See also 0PR-13 for Fresh Air Supply)	30					30	Test results		Complete	JL	Approved		
Y	3A-2	Air infiltration is reduced in the house by xx% Select one:	x	x	x	x	x	x	Test results	Must include before and after	Complete	JL	Approved		
Y	3A-2c	40%	30					30	Test results	Must include before and after	Complete	JL	Approved		
Y	3A-3	Perform infrared thermal imaging during blower door test. Select all that apply:	x	x	x	x	x	x	Receipt/Invoice		PreConstruction	JL	Approved		

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Proj. Name: Little House on Crescent		ALL PURPOSE TEXT BOX													
Proj. Date: <data>		Q & A Form													
Y	3A-3a	Before (to identify problem areas)	3	1					Receipt/Invoice	PreConstruction	JL	Approved			
Y	3A-3b	After (to document that issues discovered have been amended)	3	1	1				Receipt/Invoice	Complete	JL	Approved			
Y	3A-4	HERS Index Score at the end of the project regardless of whether changes were made to improve this score during the project. Select HERS Score:	X	X	X	X	X	X	Calcs	Complete	JL	Approved			
Y	3A-4b	65-69	12						Calcs	Complete	JL	Approved			
Y	3B-	Improvements to Existing Foundations, Crawlspace, and Slab Floor Assemblies	4	1	2	0	0								
Y	3B-PR1	Install radon mitigation system if finishing an unfinished basement.	x	x	x	x	x	x	Notes on Plan	Design	JL	Approved		NA	
Y	3B-3	Document the condition of the air sealing, vapor retarder and insulation at rim joist. Improve any areas that do not have proper air seal, vapor retarder and/or min. R19 insulation as necessary. (Rim joist that do not need improvement also qualify).	4	1	2				Other Doc	Design	JL	Approved			
Y	3C-	Improvements to All Existing Above Grade Walls, Ceilings and Non-Slab (framed) Floors	2	2	0	0	1								
Y	3C-PR1	If existing common wall between an attached garage and the home does not have finish material on it, finish material must be added and properly sealed at perimeter & penetrations.	x	x	x	x	x	x	Photo	Drywall	JL	Approved		No Garage Attached	
Y	3C-2	Add insulation to closed wall cavities that have less than 1-1/2" of insulation. (minimum of 50% of uninsulated walls must be insulated to R-11 or better). Gasket and caulk joints. Blower door test with infrared scan to check for voids.	2						Receipt/Invoice	Complete	JL	Approved			
Y	3C-11	Improve existing walls with advanced siding materials & techniques. Select all that apply:	x	x	x	x	x	x	Photo	Siding	JL	Approved			
Y	3C-11f	Exposed wood is kept at least 12 inches from soil		1					Photo	Complete	JL	Approved			
Y	3C-17	Advanced Insulation Materials & Strategies Select all that apply:	x	x	x	x	x	x	Specifications	Complete	JL	Approved			
Y	3C-17a	Insulation with min 20% recycled content is used for at least 50% of applications		1				1	Specifications	Complete	JL	Approved			
Y	3D-	Improvements to Existing Windows, Skylights and Doors	1	2	0	0	-1								
Y	3D-PR1	Replacement sash and units must meet energy code, be ENERGY STAR rated and be NFRC rated (existing window sashes are exempt)	x	x	x	x	x	x	Specifications	Complete	JL	Approved			
Y	3D-PR2	Remove weight and fill weight cavity with foam insulation, when old double hung sash are replaced. (no fiberglass insulation allowed for this application)	x	x	x	x	x	x	Photo	Pre-finish	JL	Approved		NA	
Y	3D-12	Install new weatherstrip AND thresholds or air sealing door sweeps on all existing entry doors	1						Notes on Plan	photos	Complete	JL	Approved		
Y	3D-14	Replace existing doors between conditioned & unconditioned space and/or between interior & exterior Select all that apply:	x	x	x	x	x	x	Specifications	Complete	JL	Approved			
Y	3D-17k	Door(s) have fiberglass outer skin		2				-1	Specifications	Complete	JL	Approved			
Y	3E-	Improvements to Unfinished Attics That Are Remaining Unfinished	4	1	1	0	0								
Y	3E-1	Air seal all attic penetrations (all plumbing, electrical and HVAC penetrations plus any chases) and add continuous insulation on floor of attic to R-38	4	1	1				Rater Sign-off	Drywall	JL	Approved			
Y	3F-	Finishing Unfinished Attics	3	0	0	0	0								

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Y	3F-PR1	No recessed light fixtures may be installed unless fully compliant with recessed lighting requirements in credit 3PR-7	x	x	x	x	x	x	Rater Sign-off	Drywall	JL	Approved		NA	
Y	3F-2	Seal EXISTING recessed light fixtures to drywall with gasket, caulk or foam and add air sealed foam box or dome at all locations where they penetrate into the unconditioned area of the attic	3						Rater Sign-off	Drywall	JL	Approved			
Y	5	MECHANICALS	40	9	20	0	0	69							
Y	5PR-	Prerequisites	x	x	x	x	x	x							
Y	5PR-1	No unvented combustion units, with the exception of kitchen-type cooking devices with exhaust ventilation	x	x	x	x	x	x	GC Sign-off	Complete	JW	Approved			
Y	5PR-2	No equipment is permitted that intentionally produces ozone as a product rather than as an incidental by-product	x	x	x	x	x	x	GC Sign-off	Complete	JW	Approved			
Y	5PR-3	All clothes dryers must vent to the outside. Any new venting being added must be smooth, rigid duct, and must terminate at least 10 feet from any air intakes and any air conditioning compressor.	x	x	x	x	x	x	Photo	int and exterior	Drywall	JL	Approved	Dryer is condensing	
Y	5PR-4	No air handlers or conditioning equipment shall be placed in unconditioned spaces (e.g., garage)(does not include condensers)	x	x	x	x	x	x	GC Sign-off	Complete	JW	Approved			
Y	5PR-5	Ducts must be protected until construction (including floor finishing) is completed (protect returns, intakes & air handling equipment)	x	x	x	x	x	x	Homeowner sign-off	Complete	BL	Approved			
Y	5PR-6	No power roof vents unless adequate air inlets exist.	x	x	x	x	x	x	Other Doc	Complete	JL	Approved			
Y	5PR-7	All new ductwork must be sealed	x	x	x	x	x	x	Photo	Drywall	JL	Approved			
Y	5PR-8	New ducting MAY NOT use building cavities as part of air supply or return system.	x	x	x	x	x	x	Photo	Drywall	JL	Approved			
Y	5PR-9	All bath fan ducting that is in unheated space shall be insulated to min R8	x	x	x	x	x	x	Photo	Drywall	JL	Approved			
Y	5PR-10	All new cooling and heating equipment must be installed with a programmable thermostat --AND-- it must be programmed	x	x	x	x	x	x	GC Sign-off	Complete	JW	Approved			
Y	5PR-11	No new air handling equipment shall be installed in a garage. If existing, it must be in a room sealed off from automobile emissions, and with fresh air supply as required by mechanical equipment within.	x	x	x	x	x	x	GC Sign-off	Complete	JW	Approved			
Y	5A-	Ventilation and Fresh Air for Occupants	9	4	15	0	0	28							
Y	5A-1	Design and install a whole-house ventilation system in accordance with SECTION N1104 MECHANICAL VENTILATION SYSTEMS of the 2009 Minnesota Residential Energy Code.			3			3	Plan	Design	JL	Approved			
Y	5A-2	If no air exhaust already exists, install air exhaust system in any bathroom, kitchen, or laundry room. Must install ENERGY STAR equipment, ≤ 1 Sone, proper CFM & smooth rigid duct. (If kitchen, then > 1 Sone is acceptable.) Select one:	x	x	x	x	x	x	GC Sign-off	And Photo	Complete	JL	Approved		
Y	5A-2a	1 Room		1	1			2	GC Sign-off	And Photo	Complete	JW	Approved	Kitchen only rirculated - Vented outside - Details on Box - BL	
Y	5A-3	If any non-ENERGY STAR rated fan already exists, in any bathroom, kitchen or laundry room, it can be replaced with ENERGY STAR fan, ≤ 1 Sone. Proper CFM & smooth rigid duct required. (If kitchen, then > 1 Sone is acceptable.) Select one:	x	x	x	x	x	x	GC Sign-off	And Photo	Complete	JL	Approved		
Y	5A-3a	1 Room	1	1				2	GC Sign-off	And Photo	Complete	JW	Approved	Exchanged Basic Bath Fan for Panasoinc - Details on Box	
Y	5A-4	Install automatic controls on any exhaust fan in any bathrom or laundry room Select one:	x	x	x	x	x	x	GC Sign-off	And Photo	Complete	JL	Approved		
Y	5A-4a	1 Room		1	1			2	GC Sign-off	And Photo	Complete	JW	Approved	Motion Sensor 20 min timer	
Y	5A-6	Check air filter hardware for tightness and correct if leaks are detected			1			1	Rater Sign-off	Complete	JL	Approved			

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Proj. Name: Little House on Crescent Proj. Date: <data>		Q & A Form						SHOW ALL CREDITS		DESELECT ALL FILTERS						
Y	5A-9	Energy recovery ventilator (ERV) installed	3	1	2				6	Specifications		Complete	JL	Approved		
Y	5A-10	All outdoor air intakes for ventilation located at least 10' away from air exhaust outlets and areas where vehicles may be idling.	4		2				6	Photo	Rater Sign Off	Complete	JL	Approved		
Y	5A-11	Install large media filter	1		2				3	Homeowner sign-off		Complete	BL	Approved		
Y	5A-12	Install high performance air filter Select One:	x	x	x	x	x	x	x	Homeowner sign-off		Complete	JL	Approved		
	Y	5A-12a	Use HEPA or better-performing air filter with MERV rating of 12 to 15 (e.g. greater than 1" thick pleated filters preferred)			3			3	Homeowner sign-off		Complete	BL	Approved		Merv 12 on Box - BL
Y	5B-	Moisture and Relative Humidity	0	1	3	0	0	0	4							
Y	5B-1	Install temperature and humidity sensors and record indoor/outdoor data for two weeks minimum prior to and one year after project work. See attached "Temperature and Relative Humidity Tracking Table 5B - 1"		1	3				4	Other Doc	Table 3B-1	Complete	JL	Approved		
Y	5C-	Ducting/Air Distribution Strategies	2	0	0	0	0	0	2							
Y	5C-PR1	All flex duct pulled tight-no pinches	x	x	x	x	x	x	x	Photo		Drywall	JL	Approved		
Y	5C-PR2	All new ductwork in unconditioned space insulated (attics = R-30 min.) (walls = R10 min.)	x	x	x	x	x	x	x	Rater Sign-off		Drywall	JL	Approved		
Y	5C-PR3	No building cavities can be used as ductwork. (i.e. no panning of joist or wall cavities for duct supply or return)	x	x	x	x	x	x	x	Rater Sign-off		Drywall	JL	Approved		
Y	5C-3	Ductwork Select all that apply:	x	x	x	x	x	x	x	Rater Sign-off		Drywall	JL	Approved		
	Y	5C-3b	Design appropriate duct system using ACCA Manual D.	2					2	Other Doc	Manual D Calc.	Complete	JL	Approved		
Y	5D-	Heating and Cooling Equipment	27	2	0	0	0	0	29							
Y	5D-PR1	No direct expansion systems allowed	x	x	x	x	x	x	x	GC Sign-off		Complete	JW	Approved		
Y	5D-PR2	Condensation drains into drain system not under slab	x	x	x	x	x	x	x	Photo		Complete	JL	Approved		No drain pan only existing drainage in slab - No work done to correct
Y	5D-1	Design and install heating a cooling equipment according to manual J calculations.	3	2					5	Other Doc		Complete	JL	Approved		On Box
Y	5D-2	Heating & Cooling Equipment Efficiency. At the end of the project ALL heating and cooling equipment must meet or exceed one of the categories below to get credit Select one:	x	x	x	x	x	x	x	Specifications		Complete	JL	Approved		
	Y	5D-2c	Substantially better than ENERGY STAR (9.0HSPF, ≥ 94 AFUE Furnace, ≥ 90 AFUE Boiler. See manual for heat pump values.)	15					15	Specifications		Complete	JL	Approved		
	Y	5D-2e	Cooling is better than ENERGY STAR (≥ 16 SEER) (see manual for heat pump values)	7					7	Specifications		Complete	JL	Approved		TRANE AC Specs on Box - BL
Y	5D-6	Furnace is equipped with an electronically commutated fan motor (ECMs) – (variable speed motor)	1						1	Specifications		Complete	JL	Approved		
Y	5D-8	Verify proper refrigerant charge by HVAC contractor	1						1	Other Doc	HVAC test	Complete	CM	Approved		Contractor Sign Off would be o.k. 050513 -MS
Y	5E-	Miscellaneous Mechanical	2	2	2	0	0	0	6							
Y	5E-PR1	New Site-built wood burning fireplaces must have gasketed doors, outside combustion air supply, and a means of sealing the flue to minimize interior air (heat) loss when not in operation.	x	x	x	x	x	x	0	Photo		Complete	JL	Approved		NA

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Proj. Date: <data>		Q & A Form														
Y	5E-PR2	New Factory-built wood burning fireplaces must meet certification requirements of UL 127 and be EPA Certified (or meet requirements for sale under IPA's voluntary Clean-Burning Fireplace Program).	x	x	x	x	x	0	Specification	Complete	JL	Approved		NA		
Y	5E-PR3	New Wood stove and fireplace inserts must be EPA certified and meet certification requirements of US 1482, Section 3.8.	x	x	x	x	x	0	Specification	Complete	JL	Approved		No Stove or Fireplace!		
Y	5E-PR4	New Pellet (biomass/agrafuel) stoves and furnaces must meet the requirements of ASTM E1509 or are EPA Certified.	x	x	x	x	x	0	Specification	Complete	JL	Approved				
Y	5E-PR5	New Masonry heaters must meet the definition of ASTM e1602 and the IBC 2112.1	x	x	x	x	x	0	Specification	Complete	JL	Approved				
Y	5E-1	No decorative fireplace or stove of any kind exists at the end of the project. (applies to wood, gas, electric & biomass, etc.)	2	2	2			6	GC Sign-off	Complete	JL	Approved				
Y	6	ELECTRICAL	28	2	0	7	7	44								
Y	6PR-	Prerequisites	x	x	x	x	x	x								
Y	6PR-1	New appliances must meet or exceed ENERGY STAR requirements	x	x	x	x	x	x	Specification	Complete	JL	Approved		Energy Star Washer on Box - BL		
Y	6PR-2	If recessed light fixtures are being added where they penetrate into the unconditioned area of the attic, then fixtures must be installed to prevent air and thermal leakage. (See 3PR - 6 4PR - 6)	x	x	x	x	x	x	Notes on Plan	Design	JL	Approved		NA		
Y	6A-	Appliances	10	0	0	7	1	18								
Y	6A-2	Replace existing appliances older than 1993 (ENERGY STAR rated required) Select all that apply:	x	x	x	x	x	x	Receipt/Invoice	Complete	JL	Approved				
Y	6A-2d	Clothes washer	4			4		8	Receipt/Invoice	Complete	JL	Approved				
Y	6A-3	Install Super Efficient Home Appliances - CEE Tier One Select all that apply:	x	x	x	x	x	x	Receipt/Invoice	Specification	Complete	JL	Approved			
Y	6A-3a	Refrigerator	2				1	3	Receipt/Invoice	Specification	Complete	JL	Approved	Energy Star Certified written on Fridge Must be at least Tier 1		
Y	6A-3c	Dishwasher	1					1	Receipt/Invoice	Specification	Complete	JL	Approved	Energy Star Certified written on Dishwasher Must be at least Tier 1		
Y	6A-5	Install Super Efficient Home Appliances - CEE Tier Three Select all that apply:	x	x	x	x	x	x	Receipt/Invoice	Specification	Complete	JL	Approved			
Y	6A-5b	Clothes washer	2			3		5	Receipt/Invoice	Specification	Complete	JL	Approved	http://www.energystar.gov/productfinder/product/certified-clothes-washers/details/2176391 http://www.appliancesconnection.com/lg-wm1355h-		
Y	6A-6	Install and outdoor clothesline	1					1	Photo	Complete	JL	Approved		Photo? 050513- MS		
Y	6B-	Fans, Fixtures and Lights	16	2	0	0	6	24	Calcs	Specification	Complete	JL	Approved			
Y	6B-1	Home has some or all ENERGY STAR Advanced Lighting Package features Select all that apply:	x	x	x	x	x	x	Calcs	Specification	Complete	JL	Approved			
Y	6B-1aii	90%	3				2	5	Calcs	Specification	Complete	JL	Approved			
Y	6B-1bii	90%	2					2	Calcs	Specification	Complete	JL	Approved			
Y	6B-6	Install LED bulbs in all recessed can light fixtures	4	2				6	Calcs	Specifications & Photos	Complete	JL	Approved			
Y	6B-10	Install LED light fixtures in 90% of high use rooms	7				2	9	Calcs	Specifications & Photos	Complete	JL	Approved			
Y	6B-23	Reduce light pollution by shielding fixtures and /or directing light downward					2	2	Photo	Complete	JL	Approved				
Y	6C-	Wiring	1	0	0	0	0	1								
Y	6C-2	Direct wire all bath fans to light switch or humidistat (See 5A - 4 for points)		x	x	x	x	x	GC Sign-off	And Photo	Complete	JW	Approved	Panasonic Bath Fan Motion Sensor direct wired to a switch for cut off. - BL		
Y	6D-	Electrical Systems	1	0	0	0	0	1								
Y	6D-4	No electric in-floor heating	1					1	GC Sign-off	Complete	JW	Approved				
Y	7	WATER - PLUMBING, SYSTEMS AND FIXTURES	6	1	5	11	1	24								

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Y	7PR-	Prerequisites	x	x	x	x	x	x							
Y	7PR-1	All newly installed plumbing fixtures and appliances Meet or exceed the 2005 National Energy Policy Act standards for water usage.	x	x	x	x	x	x	Specifications		Complete	JL	Approved		.8 GPF Toilet - Niagara Stealth
Y	7PR-2	No new supplies or drains in exterior walls	x	x	x	x	x	x	GC Sign-off	Plumber sign-off	Drywall	JL	Approved		No walls opened - BL
Y	7A-	Equipment	5	0	1	0	0	6							
Y	7A-1	Replace or install new water heater Select all that apply:	x	x	x	x	x	x	Specifications	Photo	Complete	JL	Approved		
	Y	7A-1c	Install tankless water heater (gas)	5					Specifications	Photo	Complete	JL	Approved		We shrunk it from 50 Gal to 25 Gal Tank that is also a on Demand... How could we quantify this point wise? I change points from 5 to 3 for now. Hybrid
	Y	7A-1g	Install power vented water heater			1			Specifications	Photo	Complete	JL	Approved		
Y	7B-	Fixtures	0	0	3	11	0	14							
Y	7B-2	Install NSF certified whole house water filter			2			2	Specifications		Complete	JL	Approved		
Y	7B-4	Install chlorine filters on shower heads or whole house chlorine filter			1			1	Specifications	Receipt	Complete	JL	Approved		
Y	7B-5	Limit shower heads to one per shower				2		2	Photo		Complete	JL	Approved		
Y	7B-7	Replace/install shower heads with very low flow (max 2.0 gpm)				2		2	Specifications		Complete	JL	Approved		
Y	7B-11	Install new very-low flow dual flush toilet (.8/1.6 gpf) or pressure assist (1.1 gpf) toilet				3		3	Receipt/Invoice	Specs	Complete	JL	Approved		
Y	7B-20	Replace all faucets or add aerators with low flow (.5 g/mn)				4		1	Specifications		Complete	JL	Approved		
Y	7C-	Piping	1	1	1	0	1	4							
Y	7C-1	Use copper alternative (PEX) when adding new or replacing existing water supply pipes		1	1			3	Photo		Drywall	JL	Approved		
Y	7C-5	Install water heater pipe insulation for first 20' of pipe	1					1	Photo		Complete	JL	Approved		
Y	8	FINISH MATERIALS AND COATINGS	0	0	5	0	0	5							
Y	8PR-	Prerequisites	x	x	x	x	x	x							
Y	8PR-1	During the period between finishing and occupancy, ventilate the building with outside air at the highest rate the ventilation system can produce (minimum of 48 hours)	x	x	x	x	x	x	GC Sign-off	Homeowner Sign off	Complete	JL	Approved		
Y	8PR-2	Suspended/Acoustical ceilings are made with recycled materials (at least 60% - recycled content may include slag wool, other mineral wools, cellulose and recycled ceiling tiles - non fiberglass)	x	x	x	x	x	x	Specifications		Complete	JL	Approved		NA
Y	8PR-3	No paper-coated drywall in shower or tub surround or other moisture-rich area	x	x	x	x	x	x	Photo		Pre-finish	JL	Approved		Bathroom Tun surround was not altered - N/A (This should be points not Pre Reg)
Y	8PR-4	No vinyl wall coverings allowed in moisture-rich areas such as bathrooms, kitchens, laundry rooms	x	x	x	x	x	x	GC Sign-off		Complete	JL	Approved		
Y	8PR-5	All new carpet must be CRI Green Label Plus or third-party certified as low-emitting.	x	x	x	x	x	x	Specifications		Complete	JL	Approved		NA
Y	8A-	Wall and Ceiling Surface Materials & Coatings	0	0	3	0	0	3							
Y	8A-2	Use low / no-VOC paint/primer, natural clay, or natural plaster for 50% of the wall/ceiling area (non-tub and shower areas) Select all that apply:	x	x	x	x	x	x	Specifications	Calculator (all wall/ceiling surface area)	Complete	JL	Approved		

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Y	8A-2d	No VOC paint				3				3	Specifications	Calculator (all wall/ceiling surface area)	Complete	JL	Approved			
Y	8B-	Flooring			0	0	1	0	0	1	Photo	(photo of each listed room)	Complete	JL	Approved			
Y	8B-1	No wall-to-wall carpet in bathrooms, kitchens, entryways and utility rooms					1			1	Specifications		Complete	JL	Approved			
Y	8F-	Coatings and Adhesives			0	0	1	0	0	1	Photo		Complete	JL	Approved			
Y	8F-3	Caulks are low VOC (minimum 75% caulk applications)					1			1	Specifications		Complete	JL	Approved			
Y	9	WASTE MANAGEMENT			0	0	0	0	2	2	Receipt/Invoice	Statement	Complete	JL	Approved			
Y	9A-	Construction & Demolition Waste			0	0	0	0	2	2	Receipt/Invoice	Statement	Complete	JL	Approved			
Y	9A-3	Recycle the following:	x	x	x	x	x	x	x	x	Receipt/Invoice	Statement	Complete	JL	Approved			
Y	9A-3a	Packaging								1	1	Receipt/Invoice	Statement	Complete	JL	Approved		
Y	9A-3d	Metal - copper, brass, lead and aluminum and non precious metals like steel, tin or sheet metal (90% minimum)								1	1	Receipt/Invoice	Statement	Complete	JL	Approved		
Y	10	EDUCATION	1	1	3	1	1	1	7									
Y	10A-	Homeowner and Subcontractor Education	1	1	3	1	1	1	7									
Y	10A-3	Asbestos test performed					1			1	Test results		Design	JL	Approved			
Y	10A-4	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					1			1	Homeowner sign-off		Complete	JL	Approved			
Y	10A-5	Homeowner given a walk through education during framing to explain design and construction of home.	1	1	1	1	1	1	5		Homeowner sign-off		Complete	JL	Approved			
Y	11	INNOVATION	0	0	6	0	0	0	6									
Y	11A-	Performance Design and Alternative Methods	0	0	6	0	0	0	6									
Y	11A-7	Abate asbestos from home				6				6	Receipt/Invoice		PreConstruction	JL	Approved		Photos on Box	

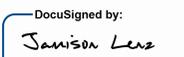
I hereby affirm that all credits associated with this project in the above checklist associated to my particulate trade and/or position have been completed in this house...

Joe1 wondergem


DocuSigned by:

 84E5E91D4684415...
 Brett Little

5/21/2013

DocuSigned by:

 520A2821D32047E...
 Jamison Lenz

AES

Green Star Rater

5/21/2013

DocuSigned by:

 0FB8B19289334AB...
 Marc Slood

President

5/24/13

5/24/2013