



LEED
for **HOMES**

Last Update June 29, 2006, Patrick Miller, Rater

NH Provider/Rater Preliminary Project Checklist

Abbreviations And

Symbols Key Iw = Inspect wet (raining)
 Id = Inspect dry
 HC = Hourly consult
 M = Measure
 Y?N = Yes/maybe/No
 ☒ = Accountability form required
 Y?N = Yes/maybe/No
 REQ = Required

Project Name: Green Woodlands
 Project Address:
 Builder Name: Bruss Construction
 Builder Address:
 Precipitation Region:
 Mileage:

Location and Linkages: LL

LL Credit 1; LEED-ND Neighborhood (not available at this time)

N/W/D

Y?N	LL1		Promote responsible land development practices
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LL Credit 2; Site Selection

N/W/D

Y?N	LL2	☒	Avoid environmentally sensitive sites and farmland
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LL Credit 3; Infrastructure			N/W/D
Y?N	LL3		Site within 1/2 mile of existing water, sewer, and roads
N – visual inspection on 6/22/2006 by Patrick Miller.			
LL Credit 4; Community Resources			N/W/D
Y?N	LL4. 1 OR		Within 1/4 mile of basic community resources / public transportation
N – visual inspection on 6/22/2006 by Patrick Miller.			
Y?N	LL4. 2 AND /OR		Within 1/4 mile of extensive community resources / public transportation
N – visual inspection on 6/22/2006 by Patrick Miller.			
Y?N	LL4. 3		Within 1/2 mile of green spaces
Y – visual inspection on 6/22/2006 by Patrick Miller.			
* local provider inspection required			
LL Credit 5; Compact Development			N/W/D
Y?N	LL5. 1 OR	⊗	Average housing density ≥ 7 Units / Acre



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N – visual inspection on 6/22/2006 by Patrick Miller.			
Y?N	LL5. 2 OR	<input type="checkbox"/>	Average housing density >= 10 Units / Acre
N – visual inspection on 6/22/2006 by Patrick Miller.			
Y?N	LL5. 3	<input type="checkbox"/>	Average housing density >= 20 Units / Acre
N – visual inspection on 6/22/2006 by Patrick Miller.			
Subtotal:			N/W/D
Sustainable Sites: SS			
Site Stewardship			N/W/D
REQ	SS1.1	<input type="checkbox"/>	Minimize disturbed area of site (If site > 1/3 Acre)
Y – Trees were clearly delineated by fencing (apx. 1,400 feet of fencing) around the drip lines. Photos were taken to document this on 6/22/2006 by Patrick Miller. Still need to see the drawings which have not yet been provided. Great care being taken to preserve heirloom apple trees, including transplanting trees to new location.			
REQ	SS1.2	<input type="checkbox"/>	Erosion controls (During construction)
Y – visual inspection on 6/22/2006 by Patrick Miller. Photos taken of the extensive wood chip berm that was create to protect wetlands. Additional silt fencing observed on another part of the property for an unrelated project.			
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Landscaping			N/W/D



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REQ	SS2.1		Basic landscaping design	
Y?N	SS2.2		Apply 3 to 4 inches of mulch around plants	
Y - 1				
* local provider inspection required				
Y?N	SS2.3		Limit turf.	
* local provider inspection required				
Y?N	SS2.4		Limit landscape water demand.	
* local provider inspection required				
Shading of Hardscapes				N/W/D
Y?N	SS3		Locate and plant trees to shade hardscapes.	



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* local provider inspection required			
Surface Water Management			N/W/D
REQ	SS4.1	Install permeable material for at least 65% of lot (If lot \geq ¼ Acre)	
* local provider inspection required			
.			
Y?N	SS4.2	Use permeable paving materials	
* local provider inspection required			
Y?N	SS4.3	Design and install permanent erosion controls.	
* local provider inspection required			
Non-Toxic Pest Control			N/W/D
Y?N	SS5	Select insect and pest control alternatives from list..	
* local provider inspection required			



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Subtotal;			N/W/D
Water Efficiency: WE			
Water Reuse			N/W/D
Y?N	WE1.1	<input type="checkbox"/> Rainwater harvesting system.	
Y?N	WE1.2	<input type="checkbox"/> Grey water re-use system.	
* local provider inspection required			
Irrigation System			N/W/D
REQ	WE2.1	Main shutoff valve, sub-meter, and third-party inspection OR third party no system needed design.	
* local provider inspection required			



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Y?N	WE2.2		Select high efficiency measures from list	
Y?N	WE2.3		Rain sensing controls	
* local provider inspection required				
Indoor Water Use				N/W/D
Y?N	WE3.1 OR		High efficiency fixtures (Toilets, showers, and faucets)	
* local provider review of product manufacturer's info and inspection required				
Y?N	WE3.2		Very high efficiency fixtures (Toilets, showers, and faucets)	
Subtotal;				N/W/D



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Indoor Environmental Quality: IEQ			
ENERGY STAR with IAP			N/W/D
Y?N	IEQ1		Meets ENERGY STAR with Indoor Air Package (IAP)
Not available			
Combustion Venting			N/W/D
REQ	IEQ2.1		Space heating and DHW equipment with closed/power-exhaust; and CO monitor
* local provider inspection required			
REQ	IEQ2.2		Fireplaces with outside air supply and closed combustion
* local provider inspection required			
Humidity Control			N/W/D
Y?N	IEQ3		Analyze moisture loads AND install central system (Where needed)



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Outdoor Air Ventilation				N/W/D
REQ	IEQ4.1	<input checked="" type="checkbox"/>	Meets ASHRAE Standard 62.2	
Y?N	IEQ4.2	<input type="checkbox"/>	Dedicated outdoor air system (with heat recovery)	
* local provider inspection required				
Y?N	IEQ4.3	<input type="checkbox"/>	Third-party testing of outdoor air flow rate	
* local provider inspection required				



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Local Exhaust				N/W/D
REQ	IEQ5.1	<input checked="" type="checkbox"/>	Meets ASHRAE Standard 62.2	
Y?N	IEQ5.2	<input type="checkbox"/>	Timer/automatic controls for bathroom exhaust fans.	
* local provider inspection required				
Y?N	IEQ5.3	<input type="checkbox"/>	Third-party testing of exhaust air flow rate out of home.	
* local provider inspection required				
Supply Air Distribution				N/W/D
REQ	IEQ6.1	<input checked="" type="checkbox"/>	Meets ACCA Manual D	



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Y?N	IEQ6.2		Third-party testing of supply air flow into each room in home.	
Supply Air Filtering				N/W/D
REQ	IEQ7.1		>/= 8 MERV filters, with adequate system air flow	
* local provider inspection required				
Y?N	IEQ7.2 OR		>/= 10 MERV filters, with adequate system air flow	
Y?N	IEQ7.3		>/= 12 MERV filters, with adequate system air flow	
Contaminant Control				N/W/D
REQ	IEQ8.1		Seal-off ducts during construction	



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* local provider inspection required			
Y?N	IEQ8.2		Permanent walk-off mats OR central vacuum.
* local provider inspection required			
Y?N	IEQ8.3		Third-party testing of particulates and VOCs before occupancy.
Radon Protection			N/W/D
REQ	IEQ9.1	<input checked="" type="checkbox"/>	Install radon mitigation system if home is located in EPA Zone 1
Y?N	IEQ9.2	<input checked="" type="checkbox"/>	Install ground contaminant mitigation system (Outside of Zone 1)



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Vehicle Emissions Protection			N/W/D
REQ	IEQ10.1	No air handling equipment OR return air ducts in garage	
* local provider inspection required			
REQ	IEQ10.2	Tightly seal shared surfaces between garage and home.	
* local provider inspection required			
Y?N	IEQ10.3	Exhaust fan in garage OR no garage in contact with home.	
* local provider inspection required			
Subtotal;			N/W/D



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Materials and Resources: MR			
Home Size			N/W/D
Y?N	MR1	<input type="checkbox"/>	Home that is smaller than national average
Material Efficient Framing			N/W/D
REQ	MR2.1	<input type="checkbox"/>	No extra uses of lumber for aesthetic purposes
* local provider inspection required			
Y?N	MR2.2	<input type="checkbox"/>	Advanced framing techniques.
* local provider inspection required			
Local Resources			N/W/D
Y?N	MR3	<input type="checkbox"/>	Materials extracted/manufactured/produced within 500 miles.



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* local provider review of product manufacturer's info and inspection required			
Durability Plan			N/W/D
REQ	MR4.1	<input checked="" type="checkbox"/>	Detailed durability plan; (pre-construction)
* local provider review of product manufacturer's info and inspection required			
Y?N	MR4.2		Third-party verification of implementation of durability plan
* local provider review of product manufacturer's info and inspection required			
Environmentally Preferable Products			N/W/D
REQ	MR5.1		Tropical hardwoods, if used, must be FSC.
* local provider review of product manufacturer's info and inspection required			



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Y?N	MR5.2	Select environmentally preferable products from list.	
Y - 3			
* local provider review of product manufacturer's info and inspection required			
Waste Management			N/W/D
REQ	MR6.1	Maximum of 2.5 lbs. per square foot of construction waste sent to landfill.	
June 21, 2006 Patrick Miller observed both a dumpster for the drywall recycling as well as individual trash cans for variety of recyclable materials. Picture taken			
* local provider inspection required			
Y?N	MR6.2	0.5 points for each additional 0.5 lbs. per square foot reduction.	
Y - 2			
* local provider inspection required			
Subtotal;			N/W/D
Energy and Atmosphere: EA			
ENERGY STAR Home			N/W/D
REQ	EA1.1	Meets ENERGY STAR for Homes with third-party testing	



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Y?N	EA1.2		Exceeds ENERGY STAR for Homes, 2 points per HERS point > HERS 86.	
Insulation				N/W/D
REQ	EA2.1		Third-party inspection of insulation installation, at least HERS Grade II	
* HERS rater inspection required = EA 2-7				
Y?N	EA2.2 OR		Third-party inspection of insulation installation, at least HERS Grade I	
* local provider inspection required				
Y?N	EA2.3	⊗	Above code insulation; At least 5% > local code per REScheck	



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Air Infiltration			N/W/D
REQ	EA3.1	Third-party envelope air leakage tested ≤ 0.35 ACH	
* HERS rater inspection required			
Y?N	EA3.2 OR	Third-party envelope air leakage tested ≤ 0.25 ACH	
* HERS rater inspection required			
Y?N	EA3.3	Third-party envelope air leakage tested ≤ 0.15 ACH	
* HERS rater inspection required			
Windows			N/W/D
REQ	EA4.1	Windows meet ENERGY STAR for windows	



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* HERS rater inspection required			
Y?N	EA4.2 OR	Windows exceed ENERGY STAR for windows by $\geq 10\%$	
* HERS rater inspection required			
Y?N	EA4.3	Windows exceed ENERGY STAR for windows by $\geq 20\%$	
* HERS rater inspection required			
Duct Tightness			N/W/D
REQ	EA5.1	Third-party duct leakage tested ≤ 5.0 CFM25 / 100 SF to outside	
* HERS rater inspection required			
Y?N	EA5.2	Third-party duct leakage tested ≤ 3.0 CFM25 / 100 SF to outside	



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* HERS rater inspection required			
Y?N	EA5.3		Third-party duct leakage tested \leq 1.0 CFM25 / 100 SF to outside
* HERS rater inspection required			
Space Heating and Cooling			N/W/D
REQ	EA6.1		Meets ENERGY STAR for HVAC with manual J and refrigerant charge test
* HERS rater inspection required			
Y?N	EA6.2 OR		Exceeds ENERGY STAR for HVAC by \geq 10% with manual J
* HERS rater inspection required			
Y?N	EA6.3		Exceeds ENERGY STAR for HVAC by \geq 20% with manual J
* HERS rater inspection required			



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Water Heating			N/W/D
Y?N	EA7.1	Improved hot water distribution system.	
Y?N	EA7.2	Improved water heating equipment.	
Included in HERS rating			
Lighting			N/W/D
Y?N	EA8.1 OR	Energy efficient fixtures and controls	
* local provider review of product manufacturer's info and inspection required			
Y?N	EA8.2	ENERGY STAR advanced lighting package	



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Appliances				N/W/D
Y?N	EA9.1		Select appliances from list	
* local provider review of product manufacturer's info and inspection required				
Y?N	EA9.2		Very efficient clothes washer (MEF > 1.8, AND WF < 5.5)	
* local provider review of product manufacturer's info and inspection required				
Renewable Energy				N/W/D
Y?N	EA10	<input checked="" type="checkbox"/>	Renewable electric generation system (1 point / 10% annual load reduction)	
Refrigerant Management				N/W/D
Y?N	EA11	<input checked="" type="checkbox"/>	Minimize ozone depletion and global warming contributions	



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Subtotal;			N/W/D
Homeowner Awareness: <i>HA</i>			
Homeowner Education			N/W/D
REQ	HA1.1	<input type="checkbox"/>	Basic owner's manual and walkthrough of LEED Home
* local provider review of product manufacturer's info and inspection required			
Y?N	HA1.2	<input type="checkbox"/>	Comprehensive owner's manual and multiple walkthroughs/trainings..
* local provider review of product manufacturer's info and inspection required			
Subtotal;			N/W/D
Innovation and Design Process: <i>ID</i>			
Innovative Design			N/W/D
Y?N	ID1.1	<input type="checkbox"/>	Provide description and justification for specific measure.
* Requires local provider to secure preliminary approval from USGBC			
Y?N	ID1.2	<input type="checkbox"/>	Provide description and justification for specific measure.



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* Requires local provider to secure preliminary approval from USGBC			
Y?N	ID1.3	<input type="checkbox"/>	Provide description and justification for specific measure.
Y?N	ID1.4	<input type="checkbox"/>	Provide description and justification for specific measure.
Subtotal; 2			N/W/D
Project Totals Estimate;			N/W/D