## MI GreenStar - Remodeling

**Proj. Name:** Little House on Crescent  
**Proj. Date:** <data>

### Simple Filtering

**Credits Selected**
- Y** SELECTED**
- || SELECTED
- || SELECTED
- BLANK / NA

**Project Type**
- [ ] Change

**Medal Goal**
- [ ] Bronze

**Version:** 2.4 Beta (5/10/13)

### Required Documentation

**Required to Medal**
- 86 28 23 8 7 165

**Project Grand Totals:**
- 181 33 46 28 24 312

**Points with "Y"**
- 95 -23 -20 -17 -147

**Points with "Y + ?"**
- -27 -20 -17 -17 -151

### Overall Requirements

#### Type of Doc.  |  Alt. Type of Doc.  |  Do It Before  |  Initial When Doc. Comp.  |  Rater Approval  |  Grn-Star Approval  |  Comments (Optional)
---|---|---|---|---|---|---

**Y0**

<table>
<thead>
<tr>
<th>ID NUMBER</th>
<th>DESCRIPTION</th>
<th>POINTS CATEGORIES</th>
<th>TOTAL</th>
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</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>EE</td>
<td>RE</td>
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</tbody>
</table>

### BL Required

1. **Register with MN GreenStar and attend mandatory 6 hour training**

2. **Submit all Pre-Construction documentation for a plan review prior to start of construction**

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”**

4. **Design Energy Star (or higher efficiency) rated appliances**

5. **Site Plan showing Major Natural Resources, Erosion Control Instructions, & other project related site info, such as landscape design.**

6. **Water conservation plan for indoors and outdoors.**

7. **Waste management plan. See attached “Waste Management Plan Template”**

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.**

9. **No mercury thermostats (remove/replace if pre-existing, dispose of properly)**

10. **Perform radon test in lowest possible habitable space. Mitigate if necessary.**

11. **Minimum of one approved and fully operational carbon monoxide alarm installed within ten (10) feet of each bedroom.**

12. **No NEW atmospherically vented combustion appliances allowed. (use direct vented, power vented or sealed combustion). Existing atmospherically vented appliances can remain.**

13. **No 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.**

14. **Mandatory Green education of homeowner during construction by General Contractor (4 hour min.)**

15. **Mandatory green remodeling education of homeowner at end of project (2 hour minimum)**
<table>
<thead>
<tr>
<th>Q &amp; A Form</th>
<th>USE TRADES</th>
<th>SHOW ALL CREDITS</th>
<th>DESELECT ALL FILTERS</th>
<th>UPDATE VIEW</th>
<th>HIDE TRADES</th>
<th>SHOW TRADES</th>
<th>GO TO ADVANCED FILTERING</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>YPR-16</strong></td>
<td>Provide homeowner with a user's manual covering house maintenance and green features of home.</td>
<td>x x x x x x x</td>
<td>Other Doc: Complete</td>
<td>BL: Approved</td>
<td>Need to create this</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>YPR-17</strong></td>
<td>Obtain all required permits &amp; follow all required local and state bldg codes</td>
<td>x x x x x x x</td>
<td>DC: Sign-off</td>
<td>Complete</td>
<td>JW: Approved</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>YPR-18</strong></td>
<td>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</td>
<td>x x x x x x x</td>
<td>DC: Sign-off</td>
<td>Post-Construction</td>
<td>JW: Approved</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>YPR-19</strong></td>
<td>No burning or burning of construction waste</td>
<td>x x x x x x x</td>
<td>Homeowner Sign-off</td>
<td>Complete</td>
<td>BL: Approved</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>YPR-20</strong></td>
<td>Test all ducts and air handlers to prevent contamination during construction</td>
<td>x x x x x x x</td>
<td>Photo</td>
<td>Complete</td>
<td>JL: Approved</td>
<td>No construction</td>
<td></td>
</tr>
<tr>
<td><strong>YPR-21</strong></td>
<td>No construction debris shall be discarded and closed inside any wall assembly</td>
<td>x x x x x x x</td>
<td>DC: Sign-off</td>
<td>Complete</td>
<td>JW: Approved</td>
<td></td>
<td></td>
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</table>

**Y1 PRECONSTRUCTION DESIGN STRATEGIES**

<table>
<thead>
<tr>
<th>Y1A-</th>
<th>Integrated Project Team</th>
<th>2</th>
<th>2</th>
<th>2</th>
<th>2</th>
<th>2</th>
<th>10</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y1A-1</td>
<td>Create multi-disciplinary project team, including homeowner, contractor and all subcontractors and include each in design and pre-construction meetings.</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Y1A-2</td>
<td>Post-construction meeting for contractor, homeowner, and key subcontractors to review performance and lessons learned.</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>5</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Y1B-</th>
<th>Design</th>
<th>4</th>
<th>1</th>
<th>1</th>
<th>1</th>
<th>1</th>
<th>8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y1B-1</td>
<td>Document all existing conditions, equipment and assemblies in house.</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>5</td>
</tr>
<tr>
<td>Y1B-3</td>
<td>Energy modeling instructs home design and performance</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>Y1C-</th>
<th>Home Size</th>
<th>7</th>
<th>7</th>
<th>0</th>
<th>5</th>
<th>5</th>
<th>24</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y1C-1</td>
<td>No increase to building footprint</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>4</td>
</tr>
<tr>
<td>Y1C-2</td>
<td>Total conditioned space of whole house after project completion is xx SF Select one:</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>0</td>
</tr>
<tr>
<td>Y1C-2a</td>
<td>2</td>
<td>1</td>
<td>x</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Y1C-3</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>5</td>
<td>20</td>
<td>20</td>
<td>20</td>
</tr>
</tbody>
</table>

**Y2 SITE & LANDSCAPE**

<table>
<thead>
<tr>
<th>Y2PR-</th>
<th>Prerequisites</th>
<th>1</th>
<th>2</th>
<th>0</th>
<th>1</th>
<th>5</th>
<th>9</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y2PR-1</td>
<td>No invasive species, as determined by the MN Extension Agencies, are planted</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Y2PR-2</td>
<td>No cypress mulch</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Y2PR-3</td>
<td>No railroad ties or other landscape materials may be used which contain creosote or chromated copper</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Y2PR-4</td>
<td>Following construction completion, no part of the disturbed site is left uncontrolled or destabilized</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Y2A-</th>
<th>Soil and Permeability</th>
<th>0</th>
<th>0</th>
<th>0</th>
<th>0</th>
<th>2</th>
<th>2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y2A-3</td>
<td>Total site has xx% permeable surface Select one:</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>Y2A-3a</td>
<td>65% of undeveloped site is permeable</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
</tbody>
</table>

| Y2B- | Planting/Trees | 1 | 2 | 0 | 0 | 3 | 6 |

| Y2B-3 | No Heritage trees removed | 2 | 2 | 2 | 2 | 2 | 2 |

**MN GreenStar Remodeling Checklist Version 2.1 08/07/10**
## Q & A Form

**ALL PURPOSE TEXT BOX**

### 2B-8
Install a compost bin

- 1
- 1
- 2

- Homeowner sign-off: Complete
- Photo: BL Approved

### 2B-10
Edible landscape planting/food garden is installed

- 1
- 1
- 2

- Plan: Design
- Photo: JL Approved

### 2C-3
Irrigation plan restricts watering to after dusk and before dawn

- 0
- 0
- 1
- 1

- Other Doc: Landscape maintenance plan
- Complete: JL Approved

### 3 IMPROVEMENTS TO EXISTING FLOOR, WALL, AND ROOF ASSEMBLIES

**Y 3PR-1**

Finished 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.

- Other Doc: Design
- Complete: BL Approved

**Y 3PR-2**

Use Integrated Pest Management (IPM) methods to prevent pest entry.

- Photo: Complete
- Design: JL Approved

**Y 3PR-3**

Structural plywood & OSB must conform to PS1 and PS2 standards. Thus shall be made with non-urea formaldehyde, exterior-type adhesives.

- GC Sign-off: Complete
- Design: JL Approved

**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.

- GC Sign-off: Design
- Complete: JL Approved

**Y 3PR-5**

- NOT USED

**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.

- Notes on Plan: Design
- Complete: JL Approved

**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.

- Notes on Plan: Specifications
- Complete: Design

**Y 3PR-8**

- No power roof vents unless adequate air inlets exist. See also SPR – 7.

**Y 3PR-10**

- Insulation product Info. sheet showing R-Value.

**Y 3PR-11**

- All insulation used must be formaldehyde free.

**Y 3PR-12**

- Wall cavities exposed during removal of existing full window units must be insulated with foam (no fiberglass allowed for this application).

### 3A- Air Tightness

**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 SPR-13 for Fresh Air Supply).

- Test results: Complete

**3A-2**

Air infiltration is reduced in the house by 0%

- Test results: Complete
- Must include before and after

**3A-3**

Perform infrared thermal imaging during blower door test: Select all that apply:

- Receipt/Invoice: PreConstruction
- Complete: JL Approved
### MI GreenStar - Remodeling
**Version 2.4 Beta (5/10/13)**

**Proj. Name:** Little House on Crescent  
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#### Q & A Form

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</table>

#### 3A-3a
Before (to identify problem areas)

- Y 1 3 4
- Receipt/Invoice
- PreConstruction

- JL Approved

#### 3A-3b
After (to document that issues discovered have been amended)

- Y 1 1 5
- Receipt/Invoice
- Complete

- JL Approved

#### 3A-4
HERS Index Score at the end of the project regardless of whether changes were made to improve this score during the project.

- X X X X X
- Calcs
- Complete

- JL Approved

#### 3A-4b
65-69

- Y 12 12
- Calcs
- Complete

- JL Approved

#### 3B-
Improvements to Existing Foundations, Crawls, and Slab Floor Assemblies

<table>
<thead>
<tr>
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<td></td>
<td></td>
</tr>
</tbody>
</table>

#### 3B-PR1
Install radon mitigation system if finishing an unfinished basement.

- x x x x x
- Notes on Plan
- Design

- JL Approved

#### 3B-3
Document the condition of the air sealing, vapor retarder and insulation at rim joint. Improve any areas that do not have proper air seal, vapor retarder and/or R19 insulation as necessary. (Rim joint that do not need improvement also qualify).

- Y 4 1 2 0 0 7
- Photo
- Complete

#### 3C-
Improvements to All Existing Above Grade Walls, Ceilings and Non-Slab (framed) Floors

<table>
<thead>
<tr>
<th>ALL PURPOSE TEXT BOX</th>
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</table>

#### 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
- Photo
- Drywall

- JL Approved

#### 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.

- Y 4 1 2 7
- Photo
- Complete

#### 3C-11
Improve existing walls with advanced siding materials & techniques. Select all that apply.

- x x x x x
- Photo
- Siding

- JL Approved

#### 3C-11f
Exposed wood is kept at least 12 inches from soil

- Y 1 1
- Photo

#### 3C-17
Advanced Insulation Materials & Strategies Select all that apply:

- x x x x x
- Photo
- Complete

#### 3C-17a
Insulation with min 20% recycled content is used for at least 50% of applications

- Y 1 1 2
- Photo
- Complete

#### 3D-
Improvements to Existing Windows, Skylights and Doors

<table>
<thead>
<tr>
<th>ALL PURPOSE TEXT BOX</th>
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<td></td>
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</table>

#### 3D-PR1
Replacement sash and units must meet energy code.

- Y 1 2 0 -1 2
- Photo
- Prep

- JL Approved

#### 3D-PR2
Remove weight and fit weight cavity with foam insulation, when old double hung sash are replaced. (no fiberglass insulation allowed for this application)

- x x x x x
- Photo
- Pre-finish

- JL Approved

#### 3D-12
Install new weatherstripping AND thresholds or air sealing door sweeps on all existing entry doors

- Y 1 1
- Notes on Plan
- Photos

- JL Approved

#### 3D-14
Replace existing doors between conditioned & unconditioned space and/or between interior & exterior.

- x x x x x
- Photo
- Complete

- JL Approved

#### 3D-17k
Doors have fiberglass outer skin

- Y 2 1 1
- Photo

- JL Approved

#### 3E-
Improve or Remodel Unfinished Attics that Are Remaining Unfinished

<table>
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<tr>
<th>ALL PURPOSE TEXT BOX</th>
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</tbody>
</table>

#### 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

- Y 4 1 1 6
- Water Sign-off
- Drywall

- JL Approved

#### 3F-
Finishing Unfinished Attics

<table>
<thead>
<tr>
<th>ALL PURPOSE TEXT BOX</th>
<th>ALL PURPOSE TEXT BOX</th>
<th>ALL PURPOSE TEXT BOX</th>
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<td>SHOW TRADES</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- Y 3 0 0 0 3
- Photo

- JL Approved
### Y3F-P R 1
No recessed light fixtures may be installed unless fully compliant with recessed lighting requirements in credit 3PR-7.

#### Y3F-P R 2
Seal EXISITNG 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 conditioned space of the attic.

#### Y5 MECHANICALS

<table>
<thead>
<tr>
<th>Y5 P R -</th>
<th>Requirement</th>
<th>Action Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y5 P R - 1</td>
<td>No unvented combustion units, with the exception of kitchen-type cooking devices with exhaust ventilation</td>
<td>J.W. Approved</td>
</tr>
<tr>
<td>Y5 P R - 2</td>
<td>No equipment is permitted that intentionally produces ozone as a product rather than as an incidental by-product.</td>
<td>J.W. Approved</td>
</tr>
<tr>
<td>Y5 P R - 3</td>
<td>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.</td>
<td>J.W. Approved, Dryer is condensing</td>
</tr>
<tr>
<td>Y5 P R - 4</td>
<td>No air handlers or conditioning equipment shall be placed in unconditioned spaces (e.g., garage) (does not include condensors)</td>
<td>J.W. Approved</td>
</tr>
<tr>
<td>Y5 P R - 5</td>
<td>All clothes dryers must be protected with a smooth, rigid duct (including floor finishing) is completed (protect returns, intakes &amp; air handling equipment)</td>
<td>J.W. Approved</td>
</tr>
<tr>
<td>Y5 P R - 6</td>
<td>No power roof vents unless adequate air inlets exist.</td>
<td>J.W. Approved</td>
</tr>
<tr>
<td>Y5 P R - 7</td>
<td>All new ducting must be sealed</td>
<td>J.W. Approved</td>
</tr>
<tr>
<td>Y5 P R - 8</td>
<td>New ducting MAY NOT be taking city dwes as part of air supply or return system.</td>
<td>J.W. Approved</td>
</tr>
<tr>
<td>Y5 P R - 9</td>
<td>All bath fan ducting that is in unconditioned space shall be insulated to min R8.</td>
<td>J.W. Approved</td>
</tr>
<tr>
<td>Y5 P R - 10</td>
<td>All new cooling and heating equipment must be installed with a programmable thermostat ---AND--- it must be programmed.</td>
<td>J.W. Approved</td>
</tr>
<tr>
<td>Y5 P R - 11</td>
<td>No new air handling equipment shall be installed in a garage. If existing, it must be in a room sealed of from automobile emissions, and with fresh air supply as required by mechanical equipment within.</td>
<td>J.W. Approved</td>
</tr>
</tbody>
</table>

### Y5A- Ventilation and Fresh Air for Occupants

<table>
<thead>
<tr>
<th>Y5A-</th>
<th>Requirement</th>
<th>Action Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y5A-1</td>
<td>Design and install a whole-house ventilation system in accordance with SECTION N1104 MECHANICAL VENTILATION SYSTEMS of the 2009 Minnesota Residential Energy Code.</td>
<td>J.L. Approved</td>
</tr>
<tr>
<td>Y5A-2</td>
<td>If no air exhaust already exists, install an exhaust system in any bathroom, kitchen, or laundry room. Must install ENERGY STAR equipment, ≤ 1 Sone, proper CFM &amp; smooth rigid duct. (If kitchen, then &gt; 1 Sone is acceptable.) Select one:</td>
<td>J.L. Approved</td>
</tr>
<tr>
<td>Y5A-3</td>
<td>If any non-ENERGY STAR rated fan already exists in any bathroom or laundry room, it can be replaced with ENERGY STAR fan, ≤ 1 Sone. Proper CFM &amp; smooth rigid duct. (If kitchen, then &gt; 1 Sone is acceptable.) Select one:</td>
<td>J.L. Approved</td>
</tr>
<tr>
<td>Y5A-4</td>
<td>Install automatic controls on any exhaust fan in any bathroom or laundry room Select one:</td>
<td>J.W. Approved, Exchanged Basic Bath Fan for Panasoinc - Details on Box - BL</td>
</tr>
<tr>
<td>Y5A-5</td>
<td>Check air filter hardware for tightness and correct if leaks are detected</td>
<td>J.L. Approved</td>
</tr>
</tbody>
</table>

---

**Note:** The document contains detailed requirements and actions for various aspects of remodeling, including ventilation, lighting, and mechanical systems, with specific references to compliance with energy codes and standards.
### MI GreenStar - Remodeling
#### Version 2.4 Beta (5/10/13)

**Proj. Name:** Little House on Crescent  
**Proj. Date:** <data>

#### Q & A Form

- **ALL PURPOSE TEXT BOX**
- **UPDATE VIEW**
- **HIDE TRADES**
- **SHOW TRADES**
- **GO TO ADVANCED FILTERING**
- **SHOW ALL CREDITS**
- **DESELECT ALL FILTERS**
- **UPDATE VIEW**
- **SHOW ALL CREDITS**
- **DESELECT ALL FILTERS**
- **UPDATE VIEW**
- **SHOW ALL CREDITS**
- **DESELECT ALL FILTERS**

---

#### Specifications

1. **Energy recovery ventilator (ERV) installed**:  
   - **Status:** Complete  
   - **Approval:** JL Approved

2. **All outdoor air intakes for ventilation located at least 10' away from air exhaust outlets and areas where vehicles may be idling**:  
   - **Status:** Complete  
   - **Approval:** BL Approved

3. **Install high performance air filter**:  
   - **Status:** Complete  
   - **Approval:** BL Approved

4. **Use HEPA or better-performing air filter with MERV rating of 12 to 15 (e.g. greater than 1" thick pleated filters preferred)**:  
   - **Status:** Complete  
   - **Approval:** BL Approved

5. **Moisture and Relative Humidity**:  
   - **Status:** Complete  
   - **Approval:** JL Approved

6. **All flex duct pulled tight-no pinches**:  
   - **Status:** Complete  
   - **Approval:** JL Approved

7. **All new ductwork in unconditioned space insulated (attics = R-30 min.) (walls = R10 min.)**:  
   - **Status:** Complete  
   - **Approval:** JL Approved

8. **No building cavities can be used as ductwork. (i.e. no panning of joist or wall cavities for duct supply or return)**:  
   - **Status:** Complete  
   - **Approval:** JL Approved

9. **Design and install heating and cooling equipment according to manual J calculations**:  
   - **Status:** Complete  
   - **Approval:** JL Approved

10. **Heating & Cooling Equipment Efficiency**:  
    - **Substantially better than ENERGY STAR (9.0HSPF, ≥ 94 AFUE Furnace, ≥ 90 AFUE Boiler. See manual for heat pump values)**:  
      - **Status:** Complete  
      - **Approval:** JL Approved
    - **Cooling is better than ENERGY STAR (≥ 16 SEER) (see manual for heat pump values)**:  
      - **Status:** Complete  
      - **Approval:** TRANE AC Specs on Box - BL

11. **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**:  
    - **Status:** Complete  
    - **Approval:** NA
### New Factory-built wood burning fireplaces
- Must meet certification requirements of UL 127 and be EPA Certified (or meet requirements for sale under EPA’s voluntary Clean-Burning Fireplace Program).

### New Wood stove and fireplace inserts
- Must be EPA certified and meet certification requirements of US 1482, Section 3.8.

### New Pellet (biomass/agrafuel) stoves and furnaces
- Must meet the requirements of ASTM E1509 or are EPA Certified.

### New Masonry heaters
- Must meet the definition of a defined term in EPA’s Clean Burning Fireplace Program.

### New appliances must meet or exceed ENERGY STAR requirements
- Older than 1993 appliances are not ENERGY STAR rated.

### Install Super Efficient Home Appliances - CEE Tier
- Select all that apply:
  - Three:
    - Install LED bulbs in all recessed can light fixtures
    - Reduce light pollution by shielding fixtures and/or directing light downward
  - Two:
    - Install outdoor clothesline
  - One:
    - Install LED light fixtures in 90% of high use rooms

### Install and outdoor clothesline
- Complete JL Approved

### Install Super Efficient Home Appliances - CEE Tier
- Select all that apply:
  - Three:
    - Install LED bulbs in all recessed can light fixtures
    - Reduce light pollution by shielding fixtures and/or directing light downward
  - Two:
    - Install outdoor clothesline
  - One:
    - Install LED light fixtures in 90% of high use rooms

### Install Super Efficient Home Appliances - CEE Tier
- Select all that apply:
  - Three:
    - Install LED bulbs in all recessed can light fixtures
    - Reduce light pollution by shielding fixtures and/or directing light downward
  - Two:
    - Install outdoor clothesline
  - One:
    - Install LED light fixtures in 90% of high use rooms

### Install LED bulbs in all recessed can light fixtures
- Complete JL Approved

### Reduce light pollution by shielding fixtures and/or directing light downward
- Complete JL Approved

### Install outdoor clothesline
- Complete JL Approved

### Install Super Efficient Home Appliances - CEE Tier
- Select all that apply:
  - Three:
    - Install LED bulbs in all recessed can light fixtures
    - Reduce light pollution by shielding fixtures and/or directing light downward
  - Two:
    - Install outdoor clothesline
  - One:
    - Install LED light fixtures in 90% of high use rooms

### Install LED light fixtures in 90% of high use rooms
- Complete JL Approved
### Q & A Form

#### ALL PURPOSE TEXT BOX

<table>
<thead>
<tr>
<th>Y</th>
<th>7P1L</th>
<th>Prerequisites</th>
<th>x</th>
<th>x</th>
<th>x</th>
<th>x</th>
<th>x</th>
<th>Specifications</th>
<th>Complete</th>
<th>JL Approved</th>
<th>6 GPF Toilet - Niagara Stealth</th>
</tr>
</thead>
<tbody>
<tr>
<td>Y</td>
<td>7P1R-1</td>
<td>All newly installed plumbing fixtures and appliances meet or exceed the 2005 National Energy Policy Act standards for water usage</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>Specifications</td>
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<td>JL Approved</td>
<td>6 GPF Toilet - Niagara Stealth</td>
</tr>
<tr>
<td>Y</td>
<td>7P2R-2</td>
<td>No new supply of drains in exterior walls</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>Specifications</td>
<td>Complete</td>
<td>JL Approved</td>
<td>No walls opened - BL</td>
</tr>
</tbody>
</table>

#### 7A- Equipment

| Y | 7A-1 | Replace or install new water heater | x | x | x | x | x | Specifications | Photo | Complete | JL Approved | We shrunk it from 50 Gal to 20 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-1b | Install tankless water heater (gas) | 5 | 5 | Specifications | Photo | Complete | JL Approved | |
| Y | 7A-1g | Install power vented water heater | 1 | 1 | Specifications | Photo | Complete | JL Approved | |

### 7B- Fixtures

| 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 | Specifications | 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 | Specifications | Complete | JL Approved | |
| Y | 7B-20 | Replace all faucets or add aerators with low flow (.5 gl/mn) | 4 | 4 | Specifications | Complete | JL Approved | |

### 7C- Piping

| Y | 7C-1 | Use copper alternative (PEX) when adding new or replacing existing water supply pipes | 1 | 1 | 1 | 1 | Specifications | Photo | Complete | Drywall | JL Approved |
| Y | 7C-8 | Install water heater pipe insulation for first 20' of pipe | 1 | 1 | Specifications | Photo | Complete | JL Approved | |

### 8 FINISH MATERIALS AND COATINGS

<table>
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<tr>
<th>Y</th>
<th>8A- Wall and Ceiling Surface Materials &amp; Coatings</th>
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<th>0</th>
<th>5</th>
<th>Specifications</th>
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<th>JL Approved</th>
<th>NA</th>
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<tbody>
<tr>
<td>Y</td>
<td>8PR-1</td>
<td>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)</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
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<td>JL Approved</td>
<td></td>
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<tr>
<td>Y</td>
<td>8PR-2</td>
<td>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)</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
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<td>JL Approved</td>
<td>NA</td>
</tr>
<tr>
<td>Y</td>
<td>8PR-3</td>
<td>No paper-coated drywall in shower or tub surround or other moisture-rich area</td>
<td>x</td>
<td>x</td>
<td>x</td>
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<td>Specifications</td>
<td>Photo</td>
<td>Complete</td>
<td>Pre-finish</td>
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<tr>
<td>Y</td>
<td>8PR-4</td>
<td>No vinyl wall coverings allowed in moisture-rich areas such as bathrooms, kitchens, laundry rooms</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>Specifications</td>
<td>Complete</td>
<td>JL Approved</td>
<td></td>
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<tr>
<td>Y</td>
<td>8PR-5</td>
<td>All new carpet must be CRI Green Label Plus or third-party certified as low-emitting.</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>Specifications</td>
<td>Complete</td>
<td>JL Approved</td>
<td>NA</td>
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<td>Y</td>
<td>8A-2</td>
<td>Use low / no-VOC paint/primers, natural clay, or natural plaster for 50% of the wallcovering area (non-lub and shower areas) Select all that apply:</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>Specifications</td>
<td>Complete</td>
<td>JL Approved</td>
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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...

```
<table>
<thead>
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<th>Credit Number</th>
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<th>Credit Score</th>
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<th>Score Required</th>
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```

Joel Wondergem

Brett Little
5/21/2013

Marc Sloot
President
5/24/13