



# Multifamily - Intended Methods Worksheet

## 2016 MN Overlay to the 2015 Enterprise Green Communities Criteria

**Project Name:** Bottineau Ridge Apartments - Phase II  
**Location (City):** Maple Grove  
**Developer/Owner/Borrower:** Duffy Development  
**Architect of Record:** JLG Architects  
**General Contractor:**  
**HERS Rater/Energy Consult:**  
**This Form Prepared By:** JLG Architects  
**Date Last Updated:**

6/13/2016

<b>Submittal Phase:</b> <input checked="" type="checkbox"/> Application <input type="checkbox"/> Loan Commitment/ Loan Closing <input type="checkbox"/> End of Construction/ Construction Close-out	<b>Construction Type:</b> <input checked="" type="checkbox"/> New Construction <input type="checkbox"/> Substantial/ Gut Rehab <input type="checkbox"/> Moderate Rehab
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- Multifamily New Construction projects must include all applicable "Mandatory" Criteria and at least (35) Optional Criteria Points.
- Multifamily Substantial, Gut, and Moderate Rehab projects must include all applicable "Mandatory" Criteria and at least (30) Optional Criteria Points.
- The information on this form must reference and reconcile with the 2015 Enterprise Green Communities Criteria as amended with the current/applicable version of the MN Overlay.
- For developments with scattered sites, different construction types, or a combination of low rise and mid/high rise buildings - a separate Intended Methods & Certification form must be provided.
- Items with text in red as such are proposed MN Overlay items.

C#	M/O	Criteria Title	Criteria Description	How Will Criteria Be Implemented? And, where in the plans, specifications, or other place will compliance be documented?	Intent to Comply				
					Yes	No	N/A	WR	OP

### 1. Integrative Design Category

1.1a	M	<b>Goal Setting</b> (Mandatory for all)	Develop an integrative design process that works best for your project team and intentions. At minimum, document: 1. A statement of the overall green development goals of the project and the expected intended outcomes from addressing those goals. 2. A summary of the integrative process that was used to select the green building strategies, systems and materials that will be incorporated into the project. 3. A description of how progress and success against these goals will be measured throughout the completion of design, construction and operation to ensure that the green features are included and correctly installed.	1. The project design team will conduct one or more integrative design meetings with all stakeholders, and develop a statement of goals. 2. One team member will be sustainability leader for the design team. 3. The green development goals will be implemented into the design documents and team will set dates in the design schedule to check progress towards these goals.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
1.1b	M	<b>Criteria Documentation</b> (Mandatory for all)	Create design and construction documentation to include information on implementation of appropriate Enterprise Green Communities Criteria.	The project team will integrate this information into documents as part of project scope.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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1.1c	9	<b>Designing for Project Performance</b>	Identify how the expected performance of your project compares to the actual performance of other projects in your portfolio and/or community.	The project design team will identify how the expected performance of project compares to the actual performance of other projects in Owner's portfolio. Performance will be defined in terms of energy consumption or energy use intensity (EUI), water consumption and/or specific resident health indicators.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		9
1.2a	M or 2	<b>Resident Health and Wellbeing: Design for Health</b> (Mandatory for NC) (2 Optional Points for Sub and Mod Rehab)	Identify potential resident health factors and design your project to address resident health and well-being by using the matrix provided on pages 22 and 23 of the 2015 EGCC document.	The project Design Team will select on of the following Possible Resident Health Campaign from the matrix: Injury & Accessibility, Cardiovascular Disease, Diabetes (Type II), and Obesity, or Cancer and Health Outcomes Related to Toxin Exposure , and incorporate at least one optional criterion (column four) associated with the selected Resident Health Campaign(s) into project documents.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.2b	12	<b>Resident Health and Wellbeing: Health Action Plan</b>	At pre-design and continuing throughout the project life cycle, collaborate with public health professionals and community stakeholders to assess, identify, implement and monitor achievable actions to enhance health-promoting features of the project and minimize features that could present health risks. Specifically, create a Health Action Plan and integrate the selected interventions and a plan for monitoring and evaluating progress per the full criterion.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		0
1.3a	M	<b>Resilient Communities: Design for Resilience</b> (Mandatory for NC & Sub Rehab only)	Given your project building type, location and expected resident population, identify a project characteristic that would most likely impact your project's ability to withstand an unexpected weather event or loss of power. Select at least one criterion from the given list that would help mitigate that impact, and incorporate this within your project plans and design. Include a short narrative providing your rationale for selecting this criterion above the others.	The project Design Team will select one of the following criteria: 1.3b: Resilient Communities: Multi-Hazard Risk / Vulnerability Assessment, 3.6: Surface Stormwater Management, or 5.8a: Resilient Energy Systems: Floodproofing, and incorporate mitigation into the design. Possible paths: to meet 1.3b, 3.6 or 5.8a	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
1.3b	15	<b>Resilient Communities: Multi-Hazard Risk/Vulnerability Assessment</b>	Carry out a Vulnerabilities Assessment and implement building elements designed to enable the project to adapt to, and mitigate, climate impacts given the project location, building/construction type and resident population	The project Design Team will evaluate this category as possible path to meet category 1.3a	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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Subtotal Category 1 Selected Optional Points 9

## 2. Location + Neighborhood Fabric Category

**Criteria 2 Overlay . New Construction (NC) projects are not required to earn optional points under Criterion 2.8 Access to Public Transportation OR earn 8 optional points through selecting one or more of the following: Criterion 2.7, 2.9, 2.12, 2.13, or 2.14.**

2.1	M	<b>Sensitive Site Selection</b> (Mandatory for NC only)	Do not locate new projects, including buildings, built structures, roads or parking areas, on portions of sites that meet any of the following provisions: 1. Land within 100 feet of wetlands, including isolated wetlands or streams. Maintain or establish riparian buffer using native vegetation where possible. Bike and foot paths are allowed if at least 25 feet from the wetlands boundary. 2. Land on slope greater than 15% 3. Land with prime soils, unique soils or soils of state significance per USDA designations 4. Public parkland 5. Land that is specifically identified as an existing habitat for any species on federal or state threatened or endangered lists 6. Land that is within the Special Flood Hazard Areas (SFHA) as identified by FEMA on the Flood Insurance Rate Map	Project site meets this criteria and the project team will document and provide this information.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.2	M	<b>Connections to Existing Development and Infrastructure</b> (Mandatory for NC only) (See criteria for other exceptions)	Locate the project on a site with access to existing roads, water, sewers and other infrastructure within or contiguous to (having at least 25% of the perimeter bordering) existing development. Connect the project to the pedestrian grid	Project site meets this criteria and the project team will document and provide this information.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.3	M	<b>Compact Development</b> (Mandatory for NC only)	At a minimum, build to the residential density (dwelling units/acre) of the census block group in which your project is located.	Project site meets this criteria. The surrounding Residential Density is 2.65 per acre. Project site density for Phase I is 22.22 per acre.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.4	5 or 7	<b>Compact Development</b>	Exceed the residential density (dwelling units/acre) of the census block group in which your project is located. Exceed by 2x for [5 points]; exceed by 3x for [7 points].	Project site meets this criteria and the project team will document and provide this information.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	7
2.5	M	<b>Proximity to Services</b> (Mandatory for NC only)	Locate the project within a 0.5-mile walk distance of at least four, or a 1-mile walk distance of at least seven, of the listed services. For projects that qualify as Rural/Tribal/Small Town, locate the project within 5 miles of at least four of the listed services.	Project site meets this criteria and the project team will document and provide this information.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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2.6	M	<b>Preservation of and Access to Open Space for Rural/Tribal/Small Towns</b> (Mandatory for applicable NC only)	Set aside a minimum of 10% (minimum of 0.25 acre) of the total project acreage as non-paved open space for use by all residents OR locate the project within a 0.25-mile walk distance of dedicated public non-paved open space that is a minimum of 0.75 acres.	Project site design meets this criteria and the project team will document and provide this information.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.7	6 max	<b>Preservation of and Access to Open Space</b>	Set aside a percentage of non-paved open space for use by all residents. 20% [2 points]; 30% [4 points]; 40% + written statement of preservation/conservation policy for set-aside land [6 points].	Project site design has 30% of non-paved open space for se by all residence.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4
2.8	8 or 10	<b>Access to Public Transportation</b>	Locate projects within a 0.5-mile walk distance of transit services combined (bus, rail and/or ferry), constituting at least 60 or more transit rides per weekday, with some type of weekend ride option. [8 points]  For projects that qualify as Rural/Tribal/Small Town, locate the project within a 5-mile distance of at least one of the following transit options: 1) vehicle share program; 2) dial-a-ride program; 3) employer vanpool; 4) park-and-ride; or 5) public-private regional transportation. [8 points]  For an additional 2 points: Locate the project along dedicated bike trails or lanes that lead to transit services or stations (bus, rail and ferry) within 3 miles.	Project site meets this criteria and the project team will document and provide this information.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	8
2.9	1 - 4	<b>Improving Connectivity to the Community</b>	Improve access to community amenities through at least one of the transit, auto or biking mobility measures listed.	The project team will identify outdoor bicycle racks that are accessible for visitors and residents.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	1
2.10	5 max	<b>Passive Solar Heating/Cooling</b>	Design and build with passive solar design, orientation and shading that meet specified guidelines.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
2.11	4	<b>Brownfield Site or Adaptive Reuse Building</b>	Rehabilitate an existing structure that was not previously used as housing or locate the project on a brownfield site.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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2.12	6	<b>Access to Fresh, Local Foods</b>	Pursue one of three options to provide residents and staff with access to fresh, local foods, including neighborhood farms and gardens, community-supported agriculture, or proximity to farmers markets.	There is a farmers Market in Maple Grove located on Weaver Lake Road, the design team will provide documentations.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	6
2.13	4	<b>LEED for Neighborhood Development Certification</b>	Locate building(s) in a Stage 2 Pre-Certified or Stage 3 Certified Neighborhood Development.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
2.14	6 max	<b>Local Economic Development &amp; Community Wealth Creation</b>	Demonstrate that local preference for construction employment and subcontractor hiring was part of your bidding process [2 points] OR demonstrate that you achieved at least 20% local employment [3 points] OR provide physical space for small business, nonprofits, and/or skills and workforce education [3 points].		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

Subtotal Category 2 Selected Optional Points **26**

### 3. Site Improvements Category

3.1	M	<b>Environmental Remediation</b>	See Minnesota Housing Environmental Standards	The project Design Team will implement applicable Minnesota Housing Environmental Standards into the design.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.2	M	<b>Erosion and Sedimentation Control</b> (Mandatory for all, except for infill sites with buildable area smaller than one acre)	Implement EPA's Best Management Practices for Construction Site Storm water Runoff Control, or local requirements, whichever is more stringent.	The project Design Team will implement applicable EPA's Best Management Practices for Construction Site Storm water Runoff Control, or local requirements, whichever is more stringent, into the design.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.3	M	<b>Low Impact Development</b> (Mandatory only for projects located on Greenfields)	Projects located on Greenfields must meet the list of low-impact development criteria.	The project is not located on greenfield.	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		
3.4	M	<b>Landscaping</b> (Mandatory for all)	If providing plantings, all should be native or adapted to the region, appropriate to the site's soil and microclimate, and none of the new plants is an invasive species. Reseed or xeriscape all disturbed areas.	The project Design Team will use native or adapted plant species in the design.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.5a	M	<b>Efficient Irrigation and Water Reuse</b> (Mandatory if irrigation is used)	If irrigation is used, install an efficient irrigation or water reuse system per the guidelines.	The project Design Team will specify efficient irrigation system in the design.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
3.5b	4 or 8	<b>Efficient Irrigation and Water Reuse</b>	Install an efficient irrigation system equipped with a WaterSense-labeled weather-based irrigation controller (WBIC) OR at least 50% of the site's irrigation should be satisfied by reusing water.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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3.6	4 or 8	<b>Surface Storm water Management</b>	Retain, infiltrate and/or harvest the first 1.0 inch of rain that falls [4 points] OR as calculated for a 24-hour period of a one-year (1) storm event, so that no storm water is discharged to drains/inlets. [8 points] For both options, permanently label all storm drains and inlets.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
3.7	1	<b>Reducing Heat Island Effect: Paving</b>	Use light-colored, high-albedo materials and/or an open-grid pavement, with a minimum solar reflectance of 0.3, over at least 50% of the site's hardscaped area.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Subtotal Category 3 Selected Optional Points **0**

#### 4. Water Conservation Category

4.1	M or 6	<b>Water-Conserving Fixtures</b> (Mandatory for NC and Sub Rehab only) (Optional/5 points for Mod Rehab)	Install water-conserving fixtures in all units and any common facilities with the following specifications. Toilets: WaterSense-labeled and 1.28 gpf; Urinals: WaterSense-labeled and 0.5 gpf; Showerheads: WaterSense-labeled and 2.0 gpm; Kitchen faucets: 2.0 gpm; Lav faucets: WaterSense-labeled and 1.5 gpm. AND for all single-family homes and all dwelling units in buildings three stories or fewer, the static service pressure must not exceed 60 psi. Optional Mod Rehab points: All Toilets = 1 point, All Urinals = 1 point, All Showerheads = 1 point, All Kitchen Faucets = 1 point, and/or All Lavatory Faucets = 1 point.	The project Design Team will specify water-conserving fixtures in all units and common facilities meeting this category requirements.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.2	6 max	<b>Advanced Water Conservation</b>	Reduce water consumption either by installing water-conserving fixtures in all units and all common space bathrooms with the following specifications: Toilets: WaterSense-labeled and 1.1 gpf [1 point]; Showerheads: WaterSense-labeled and 1.5 gpm [1 point]; Kitchen faucets: 1.5 gpm and lav faucets: WaterSense-labeled and 1.0 gpm [1 point]  OR Reduce total indoor water consumption by at least 30% compared to the baseline indoor water consumption chart, through a combination of your choosing. [6 points maximum]		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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4.3	4	<b>Leaks &amp; Water Metering</b>	Conduct pressure-loss tests and visual inspections to determine if there are any leaks; fix any leaks found; and meter or submeter each dwelling unit with a technology capable of tracking water use. Separately meter outdoor water consumption.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.4	4	<b>Efficient Plumbing Layout &amp; Design</b>	To minimize water loss from delivering hot water, the hot water delivery system shall store no more than 0.5 gallons of water in any piping/manifold between the hot water source and any hot water fixture.		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.5	6 max	<b>Water Reuse</b>	Harvest, treat, and reuse rainwater and/or greywater to meet a portion of the project's total water needs: 10% reuse [3 points]; 20% reuse [4 points]; 30% reuse [5 points]; 40% reuse [6 points].		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
4.6	Omit	<b>Access to Potable Water during Emergencies</b>	Not allowed if the project receives funding from Minnesota Housing.		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Subtotal Category 4 Selected Optional Points **0**

### 5. Energy Efficiency Category

5.1a	M	<b>Building Performance Standard: NC Energy Star for Homes</b> (Mandatory for NC SF and Low Rise MF)	Certify each dwelling unit in the project through the ENERGY STAR New Homes program.	The Owner will certify each unit with Energy Star New Homes program.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.1b	M	<b>Building Performance Standard: NC ASHRAE 90.1/Energy Star MFHR</b> (Mandatory for NC 4 & 5 + NC 6 Story or more)	Follow one of Three Compliance Pathways: 1) Buildings 4 Stories or more WITH Heated Garage. 2) Buildings 4 Stories or more WITHOUT Heated Garage. 3) Buildings with up to 5 Stories (dwelling units with own heating, cooling, and hot water heating) WITH or WITHOUT a Heated Garage.	The proposed building has 4 stories and heated garage. The project Design Team will design to meet this category energy Standard.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.1c	M	<b>Building Performance Standard</b> (Mandatory for Sub and Mod Rehab: single family and low-rise multifamily)	For Sub Rehab, each dwelling unit, achieve a HERS Index score of 85 or less. For Mod Rehab, Performance Pathway HERS 85 or 100; Or, Overlay Prescriptive Pathway.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
5.1d	M	<b>Building Performance Standard:</b> (Mandatory for Sub and Mod Rehab: mid-rise and high-rise multifamily)	For Sub Rehab, each dwelling unit, follow a Performance Pathway and demonstrate equivalent performance to ASHRAE 90.1-2010. For Mod Rehab, each dwelling unit, follow Performance Pathway: Or, Prescriptive Pathway.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	

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5.2a	5 - 12	<b>Additional Reductions in Energy Use</b>	Design and construct a building that is projected to be at least 5% more efficient than what is required of the project by Criteria 5.1a–d. (Projects may receive points in Criteria 5.2a or 5.2b, but not both)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.2b	12	<b>Advanced Certification: Nearing Net Zero</b>	Certify the project in a program that requires advanced levels of building envelope performance such as PHIUS, Living Building Challenge and/or DOE Zero Energy Ready Home. (Projects receiving points in Criterion 5.2b may not receive points per Criterion 5.2a)		<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.3	M	<b>Sizing of Heating and Cooling Equipment</b> (Mandatory for NC and Rehab if scope of work includes HVAC work)	Size and select heating and cooling equipment in accordance with the Air Conditioning Contractors of America (ACCA) Manuals J and S or ASHRAE handbooks.	The project Design Team will design heating and cooling equipment to meet this criteria.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.4	M	<b>ENERGY STAR Appliances</b> (Mandatory for NC and for Rehab if new appliances are included in the scope of work)	If providing appliances, install ENERGY STAR clothes washers, dishwashers and refrigerators. If appliances will not be installed or replaced at this time, specify that, at the time of installation or replacement, ENERGY STAR models must be used.	The owner will install Energy Star appliances.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.5	M	<b>Lighting</b> (Mandatory for NC and for "any new" fixtures at Rehab)	Follow the guidance for high-efficacy lighting controls and other characteristics for any new permanently installed lighting fixtures in project dwelling units, common spaces and exterior	The project Design Team will design high-efficiency lighting to meet this category standard .	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.6	M - 6	<b>Electricity Meter</b> (Mandatory for New Construction and Substantial Rehab) (Optional 6 points for Mod Rehab)	Install individual or submetered electric meters for all dwelling units.	The owner is planning to submeter all dwelling units.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.7a	4	<b>Photovoltaic/Solar Hot Water Ready</b>	Orient, design, engineer, wire and/or plumb the development to accommodate installation of photovoltaic (PV) or solar hot water system in the future.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.7b	10 max	<b>Renewable Energy</b>	Install photovoltaic (PV) panels or other electric-generating renewable energy source to provide a specified percentage of the project's estimated total energy demand or water heating energy demand. (Projects may earn points through Criterion 5.7b or 5.8b, but not both.)		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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5.8a	8	<b>Resilient Energy Systems: Floodproofing</b>	Conduct floodproofing, including perimeter floodproofing (barriers/shields), of lower floors. Design and install building systems as specified by the full criterion so that the operation of those systems will not be grossly affected in case of a flood.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
5.8b	8	<b>Resilient Energy Systems: Islandable Power</b>	Provide emergency power through an islandable photovoltaic (PV) system or an efficient and permanent generator that will offer at least limited electricity for critical circuits during power outages per one of the three options listed. (Projects may earn points through Criterion 5.7b or 5.8b, but not both.)		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Subtotal Category 5 Selected Optional Points **0**

## 6. Materials Category

6.1	M	<b>Low/No VOC Paints, Coatings and Primers</b> (Mandatory for NC and for Rehab if included in scope of work)	All interior paints and primers must have VOC levels, in grams per liter, less than or equal to the thresholds established by South Coast Air Quality Management District (SCAQMD) Rule 1113.	The project Design Team will specify low level VOC products to meet thresholds established by South Coast Air Quality Management District (SCAQMD) Rule 1113.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.2	M	<b>Low/No VOC Adhesives and Sealants</b> (Mandatory for NC and for Rehab if included in scope of work)	All adhesives and sealants (including caulks) must have VOC levels, in grams per liter, less than or equal to the thresholds established by the South Coast Air Quality Management District Rule 1168.	The project Design Team will specify low level VOC products to meet thresholds established by South Coast Air Quality Management District (SCAQMD) Rule 1113.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.3	3 max	<b>Recycled Content Material</b>	Incorporate building materials that are composed of at least 25% post-consumer recycled content or at least 50% post-industrial recycled content. [1 point]  Building materials that make up at least 75% of their project component each receive 1 point.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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					Yes	No	N/A	WR	OP	
6.4	4 max	<b>Regional Material</b>	Use products that were extracted, processed and manufactured within 500 miles of the project for a minimum of 50%, based on cost, of the building materials' value.  Select any or all of these options (each material can qualify for 1 point): <ul style="list-style-type: none"> <li>• Framing materials</li> <li>• Exterior materials (e.g., siding, masonry, roofing)</li> <li>• Flooring materials</li> <li>• Concrete/cement and aggregate material</li> <li>• Drywall/interior sheathing materials</li> </ul>	The owner will review opportunities to use concrete and/or framing materials from locale source.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		1
6.5	1	<b>Certified, Salvaged and Engineered Wood Products</b>	For at least 25% of all structural wood products, by cost or value, commit to using either FSC-certified, salvaged products or engineered framing materials without urea formaldehyde.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6.6	M	<b>Composite Wood Products that Emit Low/No Formaldehyde</b> (Mandatory for NC and for Rehab if in scope of work)	All composite wood products must be certified as compliant with California 93120 Phase 2 OR, if using a composite wood product that does not comply with California 93120 Phase 2, all exposed edges and sides must be sealed with low-VOC sealants, per Criterion 6.2	The project Design Team will incorporate this requirement into design documents, and the Contractor will use wood product certified as compliant with California 93120 Phase 2.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6.7a	M	<b>Environmentally Preferable Flooring</b> (Mandatory for NC and for Rehab if new flooring in the scope of work)	Do not install carpets in building entryways, laundry rooms, bathrooms, kitchens/kitchenettes, utility rooms or any rooms built on foundation slabs (aka Ground-connected Concrete Slabs). Exceptions: 1) Properly installed vapor barrier, 2) Functioning drain tile, 3) Capillary Break and vapor barrier, or 4) Poly-film test confirmation	The project Design Team will incorporate this requirement into design documents.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6.7b	6	<b>Environmentally Preferable Flooring Throughout</b>	Use non-vinyl, non-carpet floor coverings throughout each building in the project.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		
6.8	M	<b>Mold Prevention: Surfaces</b> (Mandatory for all)	Use materials that have durable, cleanable surfaces throughout bathrooms, kitchens and laundry rooms. Materials installed in these rooms should not be prone to deterioration due to moisture intrusion or encourage the growth of mold.	The project Design Team will incorporate this requirement into design documents.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		

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					Yes	No	N/A	WR	OP
6.9	M	<b>Mold Prevention: Tub and Shower Enclosures</b> (Mandatory for NC and Rehab if applicable shower or bathroom work is in the scope of work)	Use moisture-resistant backing materials such as cement board, fiber cement board or equivalent per ASTM #D3273 behind tub/shower enclosures. Projects using a one-piece fiberglass tub/shower enclosure are exempt from this requirement.	The project Design Team will incorporate this requirement into design documents.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.10	12 max	<b>Asthma-free Materials</b>	Do not install products that contain ingredients that are known to cause or trigger asthma. Key products to avoid are: <ul style="list-style-type: none"> <li>• Insulation: Do not use spray polyurethane foam (SPF) or formaldehyde-containing fiberglass batts. [4 points]</li> <li>• Flooring: Do not use flexible vinyl (PVC) roll or sheet flooring or carpet-backed with vinyl with phthalates. Do not use fluid applied finish floors. [4 points]</li> <li>• Wall coverings: Do not use wallpaper made from vinyl (PVC) with phthalates or site-applied high-performance coatings that are epoxy or polyurethane based. [4 points]</li> <li>• Composite wood: Use only ULEF products for cabinetry, subflooring and other interior composite wood uses. [4 points]</li> </ul>	The project Design Team will not use wallpaper made from vinyl (PVC) with phthalates or site-applied high-performance coatings that are epoxy or polyurethane based in project design.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	4
6.11	5	<b>Reduced Heat-Island Effect: Roofing</b>	Use an ENERGY STAR–certified roofing product for 100% of the roof area OR install a “green” (vegetated) roof for at least 50% of the roof area and ENERGY STAR–certified roofing product for the remainder of the roof area		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
6.12	M - 6	<b>Construction Waste Management</b> (Mandatory minimum requirements for all projects. Optional points are available for projects that go beyond mandatory)	Commit to following a waste management plan that reduces non-hazardous construction and demolition waste through recycling, salvaging or diversion strategies through one of the three options. Achieve optional points by going above and beyond the requirement [6 points max].	The project Design Team will incorporate this requirement into the project specifications.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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					Yes	No	N/A	WR	OP
6.13	3	<b>Recycling Storage for Multifamily Project</b>	<p>Provide separate bins for the collection of trash and recycling for each dwelling unit and all shared community rooms (if applicable).</p> <p>Additionally, in multifamily buildings, provide at least one easily accessible, permanent and dedicated indoor area for the collection and storage of materials for recycling. In single-family homes, points will be accrued only if curb-side recycling pickup is available.</p> <p>Collected materials should include, at a minimum, paper, cardboard, glass, metals and plastics.</p>	The project Design Team will incorporate this requirement into the design, and the Owner will contract for separate trash and recyclable collections.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	3

Subtotal Category 6 Selected Optional Points **8**

### 7. Healthy Living Environment Category

7.1	M	<b>Ventilation</b> (Mandatory for all including Moderate Rehab)	<p>For each dwelling unit, in full accordance with ASHRAE 62.2-2010, install a local mechanical exhaust system in each bathroom a local mechanical exhaust system in each kitchen and a whole-house mechanical ventilation system</p> <p>For each multifamily building of four stories and more, in full accordance with ASHRAE 62.1-2010, install a mechanical ventilation system for all hallways and common spaces</p> <p>For all project types, in addition to the above requirements:</p> <ul style="list-style-type: none"> <li>• All systems and associated ductwork must be installed per manufacturer's recommendations.</li> <li>• All individual bathroom fans must be ENERGY STAR labeled, wired to turn on with the light switch, and equipped with a humidistat sensor, timer or other control (e.g., occupancy sensor, delay off switch, ventilation controller).</li> <li>• If using central ventilation systems with rooftop fans, each rooftop fan must be direct-drive and variable-speed with speed controller mounted near the fan. Fans with design CFM 300-2000 must also have an ECM</li> </ul>	The project Design Team will incorporate this requirement into the design.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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					Yes	No	N/A	WR	OP
7.2	M	<b>Clothes Dryer Exhaust</b> (Mandatory for all)	Clothes dryers must be exhausted directly to the outdoors using rigid-type ductwork (except for condensing dryers, which must be plumbed to a drain).	The project Design Team will incorporate this requirement into the design.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.3	M	<b>Combustion Safety</b> (Mandatory for all)	At NC, only provide in-unit space and water heating with power-vented or closed (sealed) combustion equipment. At Rehab, replace existing in-unit space and water heating natural draft combustion equipment with new power-vented or closed (sealed) combustion equipment. If existing natural draft combustion equipment is planned to remain, a combustion action plan with post-combustion testing must be provided.	The project Design Team will incorporate this requirement into the design.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.4	9 or 11	<b>Elimination of Combustion within the Conditioned Space</b> (Optional points for NC and Rehab)	No combustion equipment may be used for cooking (including, but not limited to, ranges, cooktops, stoves, ovens) as part of the building project for NC or existing combustion equipment replaced with electric equipment [9 points] OR no combustion equipment may be used as part of the building project [11 points]	No combustion equipment is planned to be used in individual dwelling units.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9
7.5	M	<b>Vapor Retarder Strategies</b> (Mandatory for NC and for Rehab projects with foundation work)	Install vapor barriers that meet specified criteria appropriate for the foundation type.	The project Design Team will incorporate this requirement into the design.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.6	M	<b>Water Drainage</b> (Mandatory for NC and Rehab projects replacing assemblies called out in Criterion only)	Provide drainage of water away from walls, windows and roofs by implementing the list of techniques.	The project Design Team will incorporate this requirement into the design.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.7	M	<b>Mold Prevention: Water Heaters</b> (Mandatory for all)	Provide adequate drainage for water heaters that includes drains or catch pans with drains piped to the exterior of the dwelling.	The project Design Team will incorporate this requirement into the design.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.8	M	<b>Radon Mitigation</b> (Mandatory for all)	See Minnesota Housing Environmental Standards for Radon requirements.	The project Design Team will implement applicable Minnesota Housing Environmental Standards into the design.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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					Yes	No	N/A	WR	OP
7.9	M	<b>Garage Isolation</b> (Mandatory for all)	<ul style="list-style-type: none"> <li>• Provide a continuous air barrier between the conditioned space and any garage space to prevent the migration of any contaminants into the living space.</li> <li>• Visually inspect common walls and ceilings between attached garages and living spaces to ensure that they are air-sealed before insulation is installed.</li> <li>• Do not install ductwork or air handling equipment in a garage.</li> <li>• Fix all connecting doors between conditioned space and garage with gaskets or otherwise make substantially airtight with weather stripping.</li> <li>• Install one hard-wired carbon monoxide (CO) alarm with battery backup function for each sleeping zone of the project, placed per National Fire Protection Association (NFPA) 720.</li> </ul>	The project Design Team will incorporate this requirement into the design.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.10	M	<b>Integrated Pest Management</b> (Mandatory for all)	Seal all wall, floor, and joint penetrations with low-VOC caulking or other appropriate nontoxic sealing methods to prevent pest entry.	The project Design Team will incorporate this requirement into the design.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.11a	9	<b>Beyond ADA: Universal Design</b> (NC)	Design a minimum of 15% of the dwelling units (no fewer than one) in accordance with ICC/ANSI A117.1, Type A, Fully Accessible guidelines. Design the remainder of the ground-floor units and elevator-reachable units in accordance with ICC/ANSI A117.1, Type B.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.11b	7 or 9	<b>Beyond ADA: Universal Design</b> (Substantial and Moderate Rehab only)	Design a minimum of 10% of the dwelling units (one, at minimum) in accordance with ICC/ANSI A117.1, Type A, Fully Accessible guidelines. [7 points]  For an additional 2 points: Design the remainder of the ground-floor units and elevator-reachable units with accessible unit entrances designed to accommodate people who use a wheelchair.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
7.12	M	<b>Active Design: Promoting Physical Activity within the Building</b> (Mandatory for all)	Situate at least one building stairway per the criterion to encourage use OR emphasize at least one strategy inside the building designed to increase frequency and duration of physical activity per the criterion.	The project Design Team will incorporate this requirement into the design.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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7.13	10	<b>Active Design: Staircases and Building Circulation</b>	A staircase must be accessible and visible from the main lobby as well as visible within a 25-foot walking distance from any edge of lobby. Ensure that no turns or obstacles prevent visibility of or accessibility to the qualifying staircase from the lobby, and that the staircase is encountered before or at the same time as the elevators.  From the corridor, accessible staircases should be made visible by: Providing transparent glazing of at least 10 square feet (1 square meter) at all stair doors or at a side light OR providing magnetic door holds on all doors leading to the stairs OR removing door enclosures/vestibules.	The project Design Team will review opportunities to incorporate this requirement into the design.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10
7.14	9	<b>Interior and Outdoor Activity Spaces for Children and Adults</b> (Applicable to NC and to Rehab if existing, older, worn equipment replaced)	Provide an on-site dedicated recreation space with exercise or play opportunities for adults and/or children that is open and accessible to all residents; see criterion for specifics.	The project Design Team will review opportunities to incorporate this requirement into the design.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	9
7.15	M	<b>Reduce Lead Hazards</b> (Mandatory for all Rehab)	See Minnesota Housing Environmental Standards for Lead-Bases Paint Hazard requirements		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	
7.16	10	<b>Smoke-Free Building</b>	Implement and enforce a no-smoking policy in all common and individual living areas and within a 25-foot perimeter around the exterior of all residential projects.	The building will be smoke-free.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	10

Subtotal Category 7 Selected Optional Points **38**

### 8. Operations, Maintenance and Resident Engagement Category

8.1	M	<b>Building Maintenance Manual</b> (Mandatory for all multifamily projects)	Develop a manual with thorough building operations and maintenance guidance and a complementary plan. The manual and plan should be developed over the course of the project design, development and construction stages, and should include sections/chapters addressing the list of topics.	The Owner and Contractor will develop building operations manual and maintenance guidance, and a complementary plan.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
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					Yes	No	N/A	WR	OP
8.2	M	<b>Emergency Management Manual</b> (Mandatory for all multifamily projects)	Provide a manual on emergency operations targeted toward operations and maintenance staff and other building-level personnel. The manual should address responses to various types of emergencies, leading with those that have the greatest probability of negatively affecting the project. The manual should provide guidance as to how to sustain the delivery of adequate housing throughout an emergency and cover a range of topics, including but not limited to: <ul style="list-style-type: none"> <li>• communication plans for staff and residents</li> <li>• useful contact information for public utility and other service providers</li> <li>• infrastructure and building “shutdown” procedures</li> </ul>	The Owner with Contractor, and project Design Team will develop building emergency operations and maintenance manual.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8.3	M	<b>Resident Manual</b> (Mandatory for all)	Provide a guide for homeowners and renters that explains the intent, benefits, use and maintenance of their home’s green features and practices. The Resident Manual should encourage green and healthy activities <i>per the list of topics</i>	The Owner will develop building resident manual and maintenance guidance. and a complementary plan.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8.4	M	<b>Resident and Property Staff Orientation</b> (Mandatory for all)	Provide a comprehensive walk-through and orientation for all residents, property manager(s) and buildings operations staff. Use the appropriate manuals (see Criteria 8.1, 8.2, 8.3) as the base of the curriculum, and review the project’s green features, operations and maintenance procedures, and emergency protocols.	The Contractor and Owner will provide comprehensive walk-through and orientation for all residents, property manager(s) and buildings operations staff to review the project’s green features, operations and maintenance procedures, and emergency protocols.	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
8.5	O	<b>Project Data Collection and Monitoring System: 100% Owner Paid Utility Accounts, 15% Tenant Paid Utility Accounts</b> (Optional, no points)	For rental properties: Collect and monitor project energy and water performance data for 100% of owner-paid utilities and 15% of tenant-paid utilities for at least 5 years. This data must be maintained in a manner that allows staff to easily access and monitor it, enabling them to make informed operations and capital planning decisions. Also allow Enterprise access to this data.  For owner-occupied units: Collect and monitor energy and water performance data in a manner that allows for easy access and review and provides the ability to influence home operations. Also allow Enterprise access to this data.		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

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8.6	7 or 11	<b>Project Data Collection and Monitoring System: &gt;15% Tenant Paid Utility Accounts</b> (Must include Criteria 8.5 requirements as well to claim 8.6 Criteria points)	Collect and monitor project energy and water performance data for at least 5 years. This data must be maintained in a manner that allows staff to easily access and monitor it, enabling them to make informed operations and capital planning decisions. Also allow Enterprise access to this data. 16–60% of units [7 points]; 60–100% of units [11 points]		<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Subtotal Category 8 Selected Optional Points 0

Total **81**

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**Intent to Comply Certification - Initial Application Phase**

I/we hereby certify to Minnesota Housing that all applicable Mandatory and selected Optional Point Criteria of the 2015 Enterprise Green Communities Criteria as amended by the current/applicable version of the MN Overlay to the 2015 EGCC (unless exempt by Minnesota Housing approved waiver) are incorporated into the approved contract documents for the above mentioned development.

**Borrower/Developer/Owner**

Duffy Development Co., Inc.		Jeffrey J. Von Feldt	6-15-16
Firm/Organization/Company	Signature	Typed/Printed Name of Person Signing	Date

**Architect of Record/Borrower's Architect**

JLG Architects		Nicole Washburn	6-15-16
Firm/Organization/Company	Signature	Typed/Printed Name of Person Signing	Date

**Contract Document Compliance Certification - Loan Commitment/Closing (MF Only) Phase**

I/we hereby certify to Minnesota Housing that all applicable Mandatory and selected Optional Point Criteria of the 2015 Enterprise Green Communities Criteria as amended by the current/applicable version of the MN Overlay to the 2015 EGCC (unless exempt by Minnesota Housing approved waiver) are incorporated into the approved contract documents and construction contract for the above mentioned development.

**Borrower/Developer/Owner**

Firm/Organization/Company	Signature	Typed/Printed Name of Person Signing	Date
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**Architect of Record/Borrower's Architect**

Firm/Organization/Company	Signature	Typed/Printed Name of Person Signing	Date
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**General Contractor**

Firm/Organization/Company	Signature	Typed/Printed Name of Person Signing	Date
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<b>Compliance Certification - End of Construction/Construction Close-Out Phase</b>					
I/we hereby certify to Minnesota Housing that all applicable Mandatory and selected Optional Point Criteria of the 2015 Enterprise Green Communities Criteria as amended by the current/applicable version of the MN Overlay to the 2015 EGCC (unless exempt by Minnesota Housing approved waiver) are incorporated into the approved contract documents and construction contract for the above mentioned development.					
<b>Borrower/Developer/Owner</b>					
Firm/Organization/Company		Signature		Typed/Printed Name of Person Signing	Date
<b>Architect of Record/Borrower's Architect</b>					
Firm/Organization/Company		Signature		Typed/Printed Name of Person Signing	Date
<b>General Contractor</b>					
Firm/Organization/Company		Signature		Typed/Printed Name of Person Signing	Date

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