GREEN DEVELOPMENT PLAN DISASTER RECOVERY, 2020 IOWA GREEN STREETS CRITERIA

Developer Name: Project Name: Address (Street/City/State):

Description of Process	Description of Process							
A description of the process that was used to select the green building strategies, systems and mate	erials that will be incorporated into the project.							
Mission and Goals								
Statement of overall project mission and green development goals developed during integrated design p	process and expected outcomes from addressing these goals							
Statement of overall project mission and green development goals developed during integrated design p	orocess and expected outcomes from addressing those goals.							
Design & Development Team Members								
Name	Role							

Instructions: Disaster recovery projects may request additional funding for select Green Streets Plus criteria 3.5, 4.2, 5.2b, 5.4, 5.5b, 5.11, and/or 6.7. If requesting additional funding, please indicate amount requested and provide a description of how the additional amount was determined.

			Areas of Consideration			Addiitonal Funding Request		
			Champion Strategies		Additional			
		Green Communities Criteria	name	role	how intend to meet	Funding Requested \$\$\$\$	Additional Cost Description (show the math) (show line item costs)	
EXAMP	LES							
24	24	5.4 Achieving Zero Energy						
		(If requesting funding here, do not request additional funding for 5.2b) Achieve Zero Energy performance through one of the following. Option 1: Certify each building in the project to DOE Zero Energy Ready Home program or PHI Plus AND Either install renewables and/or procure renewable energy, which in sum will produce as much, or more, energy in a given year than the project is modeled to consume. Option 2: Certify each building in the project in a program that requires zero energy performance such as PHIUS_ Source Zero, PHI Plus, PHI Premium, ILFI's Zero Energy Petal, Zero Carbon Petal, or Living Building Certification.	architect, HERS rater, HVAC contractor, DOE ZERH certifier	design, installation, verification	Follow DOE ZERH requirements; design for possive solar; stress quality air infiltred air infiltred and insulation install; the highly efficient HVAC, and ances and lighting; add 4 kW of solar.	\$10,500	4 kW solar array including installation = \$8,000, DOE ZERH certification process consulting = \$2,500, TOTAL = \$10,500	
5 or 10	10	5.11 Electric Vehicle Charging						
		Option 1 [5 points]: Install panel capacity and raceway (≥ size 1) to support future build-out of EV charging with 208/240 V, 40-amp circuits. Identify the overcurrent protective device space(s) on circuit directory as "EV CAPABLE." Option 2 [10 points]:Residential projects ≥ 2 units install ≥ 1 active electric vehicle charging station. For multifamily and commercial projects install ≥ 2 active charging stations for first 25 parking spaces and 10% of all parking spaces > 25 (round up).	architect, electrician, developer	design, installation, verification, identify and seek incentives		\$4,500	1 charging station = \$3,000, installation of charging station = \$1,500, TOTAL = \$4,500	
Rasolin	o Ma	easures		Areas of Co	nsideration		Addiitonal Funding Request	
Daseiiii	T IVIE		Areas of Consideration Champion Strategies		Additional	Additional Cost Description		
			name	role	how intend to meet	Funding Requested	(show the math)	

N. A.

Complete the Project Priorities Survey.

1.1 Project Priorities Survey

1. Integrative Design

Baseline

Baseline

		Develop an integrative design process that moves the outputs of the		N. A.	
Baseline	1 2	Documentation		III. A.	
Dascinic	1.3				
		Include Iowa Green Streets Criteria information in your contract			
		documents and construction specifications (Division 1 Section 01 81 13			
		Sustainable Design Requirements). Ensure, and indicate that the drawings		N. A.	
		and specifications have been generated to be compliant and meet the			
		certification goals.			
Baseline	1.4	Construction Management			
		Create, implement, and document your contractor/subcontractor			
		education plan to ensure that all persons working on-site fully understand		N. A.	
		their role in achieving the project objectives.			
Baseline	1.8	Resilient Structures (residential only)			
		New construction projects without a basement construct a safe room to			
		protect against wind forces and wind debris from events such as a		N. A.	
		tornado.			
2. Location	+ Nei	ghborhood Fabric			
Baseline		Sensitive Site Protection (New Construction only)			
		All projects must:		N. A.	
Baseline	2.2	Connections to Existing Development and Infrastructure			
		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		N. A.	
		the pedestrian grid.			
Baseline	2.3	Compact Development			
		At a minimum, build to the residential density (dwelling units / acre) of the			
		census block group in which your project is located.		N. A.	
Baseline	2.5	Proximity to Services			
		Locate the project within a 0.5-mile walk distance of at least four, or a 1-		N. A	
		mile walk distance of at least seven, of the listed services.		N. A.	
Baseline	2.6	Preservation of and Access to Open Space for Rural/Tribal/Small Town			
		Option 1: Locate the project within a 0.25-mile walk distance of dedicated			
		public open space that is a minimum of 0.75 acres; at least 80% of which			
		unpaved. Option 2: Set aside a minimum of 10% (minimum of 0.25 acres)		N. A.	
		of the total project acreage as open and accessible to all residents; at least			
		80% of which unpaved.			
Baseline	2.8	Access to Transit (new construction)			
		Locate projects within a 0.5-mile walk distance of transit services (bus, rail			
		and/or ferry), constituting at least 45 or more transit rides per weekday,		N. A.	
		with some type of weekend service.			
Baseline	2.45				
baseiiile	2.15a	Access to Broadband: Broadband Ready			

		Learning and a learning through the forest and the	-		
		Incorporate broadband infrastructure so that when broadband service			
		comes to a community, the property can be easily connected. Include a			
		network of mini-ducts or conduit throughout the building, extending from		N. A.	
		the expected communications access point to each network termination			
		point in the building.			
3. Site I	mprover				
Baseline		1 Environmental Remediation			
	<u> </u>	Conduct an environmental site assessment to determine whether any			
		hazardous materials are present on-site; mitigate any found.		N. A.	
Baseline	-				
Daseille	3.	2 Minimization of Disturbance During Staging and Construction			
		For sites >1 acre, implement EPA's National Pollutant Discharge			
		Elimination System Stormwater Discharges from Construction Activities		N. A.	
		guidance, or local requirements, whichever is more stringent. For sites			
		with an area ≤1, follow guidance in full criterion.			
Baseline	3.	3 Ecosystem Services/Landscape (Baseline, if providing landscaping)			
		If providing plantings, all must be native or climate-appropriate (adapted)			
		to the region and appropriate to the site's soil and microclimate. Do not		N. A	
		introduce any invasive plant species. Plant, seed, or xeriscape all disturbed		N. A.	
		areas.			
Baseline	3.	4 Surface Water Management			
		Through on-site infiltration, evapotranspiration, and rainwater harvesting,			
		retain the 1.25" rain event on site.		N. A.	
Baseline	2	6 Efficient Irrigation and Water Reuse (if installed)			
Dascillic	3.	Provide permanent irrigation only with reclaimed water source(s), such as			
		harvested rainwater, greywater, air			
		conditioning condensate, etc. Design and install an efficient irrigation		N. A.	
		system equipped with a WaterSense			
		labeled weather-based irrigation controller (WBIC).			
4. Wate	er				
Baseline	4.	1 Water-Conserving Fixtures			
		Install water-conserving fixtures meeting the specifications in the			
		criterion. For all single-family homes and all dwelling units in buildings		NI A	
		· ,		N. A.	
		three stories or fewer, the static service pressure must not exceed 60 psi.			
Baseline	4.	3 Water Quality			
		Baseline for Substantial Rehabs of buildings built before 1986; Optional for			
		all other building types: Replace lead service lines. For multifamily			
		buildings with either a cooling tower, a centralized hot water system, or		N. A.	
		10+ stories: Develop a Legionella water management program.			
5. Oper	ating Eff	iciency			
5. Oper Baseline					
		1 Building Performance Requirements			
				N. A.	

Baseline	5.1	Building Performance Standard: New Construction: Single Family and			
Т		Low-Rise Multifamily Certify dwelling units in the project meet or exceed the Energy			
		Performance Requirements in Criterion 5.1 or certify the project through		N. A.	
		the ENERGY STAR New Homes program.		IV. A.	
		Building Performance Standard: Substantial and Moderate Rehab: Single			
Baseline	5.1	Family and Multifamily			
		Certify dwelling units in the project meet or exceed the Energy			
		Performance Requirements in Criterion 5.1 and the air infiltration,		N. A.	
		insulation, and HVAC performance guidelines in the criterion.			
Baseline	5.1	Building Performance Standard: New Construction: Commercial,			
Duscinic	3.1	Nonprofit and Mixed-Use			
		Follow all applicable requirements and best practices in Criterion 5.1.			
		Projects must exceed the performance of the current state of Iowa		N. A.	
		adopted Energy Code at the time of submittal for plan review by at least		14.74	
		10 percent. Commission the building.			
Baseline	5.10	Building Performance Standard: Substantial & Moderate Rehab: Commercial, Nonprofit and Mixed-Use			
		Follow all applicable requirements and best practices in Criterion 5.1.			
		Substantial rehab projects must exceed the performance of the current			
		state of Iowa adopted Energy Code at the time of submittal for plan			
		review by at least 10 percent. Moderate rehab projects must meet or		N. A.	
		exceed the current start of Iowa adopted Energy Code at the time of			
		submittal for plan review. Commission the building.			
Baseline*	5.2	Moving to Zero Energy: Additional Reductions in Energy Use			
		* Baseline only for Disaster Recovery Housing Projects. (Not available for			
		projects using prescriptive path for Criterion 5.1a or for projects following			
		Criterion 5.2b or 5.4.). Design and construct a building that is projected to			
		be more efficient that what is required by Criteria 5.1a-5.1d. Achieve HERS			
		score of 5 points lower than required by 5.1a-5.1d OR 5% greater		N. A.	
		efficiency than required if following ASHRAE path for 5.1a-5.1d		IV. A.	
		compliance [5 points]. Additional 1 point for each additional 2-point			
		decrease in HERS score required by Criteria 5.1a-5.1d OR for 1% greater			
		efficiency if following ASHRAE path for Criteria 5.1a-5.1d, up to a			
		maximum of 12 optional points.			
Baseline*	5.3	Moving to Zero Energy: Photovoltaic/Solar Hot Water Ready			
		*Baseline only for Disaster Recovery Housing Projects. Orient, design,			
		engineer, wire, and/or plumb the development through the Photovoltaic			
		Ready pathway or Solar Hot Water Ready Pathway to accommodate		N. A.	
		installation of photovoltaic (PV) or solar hot water system in the future.			
Baseline*	5.5:	Moving to Zero Carbon: All-Electric Ready			
Baseline*	5.5	Moving to Zero Carbon: All-Electric Ready			

		*Baseline only for Disaster Recovery Housing Projects. (Not available for projects following Criterion 5.5b). Ensure the project has adequate electric			
		service and has been designed and wired to allow for a seamless switch to		N. A.	
		electricity as a fuel source in the future for the following uses: space			
		heating [1 point], space cooling [1 point], water heating (DHW) [1 point], clothes dryers [1 point], equipment for cooking [1 point].			
Baseline	5.6	Sizing of Heating and Cooling Equipment			
	-	Size and select heating and cooling equipment in accordance with ACCA			
		manuals J, S, and D OR in accordance with the ASHRAE Handbook of Fundamentals.		N. A.	
Baseline	5.7	ENERGY STAR Appliances			
		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 via Criterion 8.1 and Criterion 8.4.		N. A.	
Baseline	5.8	Lighting			
		Follow the guidance for high-efficacy permanently installed lighting and			
		other characteristics for recessed light fixtures, lighting controls, lighting		N. A.	
		power density, and exterior lighting.			
Baseline	5.12	Advanced Framing and Resilient Design			
		Use advanced framing (optimum value engineering) best practices for all			
		framing. Follow High Wind Construction or Resilient Construction best practices from FLASH.		N. A.	
6. Materia	als				
Baseline	6.6	Bath, Kitchen, Laundry Services			
		Use materials that have durable, cleanable surfaces throughout			
		bathrooms, kitchens, and laundry rooms. Use moisture-resistant backing		N. A.	
		materials per ASTM # D 6329 or 3273 behind tub/shower enclosures,		IV. A.	
		apart from one-piece fiberglass enclosures which are exempt.			
Baseline	6.8	Managing Moisture: Foundations			
		Install capillary breaks and vapor retarders that meet specified criteria		N. A.	
Baseline		appropriate for the foundation type.			
baseline	6.9	Managing Moisture: Roofing and Wall Systems Provide water drainage away from walls, window, and roofs by			
		implementing the list of techniques.		N. A.	
Baseline	6.10	Construction Waste Management			
Duscinic	0.10	Develop and implement 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		N. A.	
		points by going above and beyond the requirement.			
7. Healthy	/ Living	Environment			
Baseline		Radon Mitigation			
Dascinie	7.1	Inauon whigation			

Baseline	For New Construction in EPA Zone 1 areas, install passive radon-resistant features below the slab and a vertical vent pipe with junction box within 10 feet of an electrical outlet in case an active system should prove necessary in the future. For Substantial Rehab projects in EPA Zone 1, test before and after the retrofit and mitigate per the specified protocols. 7.2 Reduce Lead Hazards in Pre-1978 Buildings		N. A.
	Conduct lead risk assessment or inspection to identify lead hazards. Control identified lead hazards using lead abatement or interim controls, using lead-safe work practices that minimize and contain dust.		N. A.
Baseline	For New Construction and Rehab projects: Specify power-vented or direct-vent equipment when installing any new combustion appliance for space or water heating that will be located within the conditioned space. If there are any combustion appliances within the conditioned space, install one hard-wired carbon monoxide (CO) alarm with battery backup function for each sleeping zone, placed per National Fire Protection Association (NFPA) 72. For Rehabs: If there is any combustion equipment located within the conditioned space for space or water heating that is not power-vented or direct-vent and that is not scheduled for replacement, conduct combustion safety testing prior to and after the retrofit; remediate as indicated. 7.4 Garage Isolation		N. A.
Dascinic	 Provide a continuous air barrier between the conditioned space and any garage space to prevent the migration of any contaminants into the living space. Visually inspect common walls and ceilings between attached garages and living spaces to ensure that they are air-sealed before insulation is installed. Do not install ductwork or air handling equipment for the conditioned space in a garage. Fix all connecting doors between conditioned space and garage with gaskets or make airtight. 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) 72 unless the garage is mechanically ventilated or an open parking structure. 		N. A.
Baseline	7.5 Integrated Pest Management Seal all wall, floor, and joint penetrations with low-VOC caulking or other appropriate nontoxic sealing methods to prevent pest entry.		N. A.
Baseline	7.6 Smoke-Free Policy Implement and enforce a smoke-free policy in all common area and within a 25-foot perimeter around the exterior of all residential buildings. Lease language must prohibit smoking in these locations and provide a graduated enforcement policy. Make the smoke-free policy readily available.		N. A.

Baseline	7.	7 Ventilation		
		For each dwelling unit in full accordance with the current version of		
		ASHRAE 62.2 or 62.1 as coordinated with the adopted edition of the IECC		N. A.
		for the State of Iowa		
Baseline	7.	8 Dehumidification		
		Option 1: Design, select, and install supplemental dehumidification		
		equipment to keep relative humidity <60%. Option 2: Equip all dwelling		
		units with dedicated space, drain, and electrical hook-ups for permanent		N. A.
		supplemental dehumidification systems to be installed if needed and		
		install interior RH monitoring equipment as described.		
Baseline	7.1	2 Beyond ADA: Universal Design		
		Implement Division 1, Required Best Practices, of the Iowa Green Streets		N. A.
		Criteria Universal Design Required and Bonus Best Practices Checklist.		
Baseline	7.1	3 Active Design: Promoting Physical Activity within the Building		
		Situate at least one building stairway per the criterion to encourage use		
		OR emphasize at least one strategy inside the building designed to		N. A.
		increase frequency and duration of physical activity per the criterion.		
8. Operation	ons, N	Maintenance, and Occupant Engagement		
Baseline	8.	1 Building Operations & Maintenance Manual and Plan		
		Develop a manual with thorough building operations and maintenance		
		(O&M) guidance and a complementary plan. The manual and plan should		
		be developed over the course of the project design, development, and		N. A.
		construction stages, and should include sections/chapters addressing the		
		list of topics.		
Baseline	8.	2 Emergency Management Manual		
		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.		N. A.
		The manual should provide guidance as to how to sustain the delivery of		
		adequate services throughout an emergency and cover a range of topics.		
Baseline	8	3 Occupant Manual		
Duscinic	0.	Provide a guide for building tenants and residents that explains the intent,		
		benefits, use and maintenance of their building's green features and		
		practices. The Occupant Manual should encourage green and healthy		N. A.
		activities per the list of topics.		
Baseline	8.	4 Walk-Throughs and Orientations to Property Operation		
		Provide a comprehensive walk-through and orientation for all residents,		
		property manager(s), and buildings operations staff.		N. A.
Becelin -		Energy and Water Data Collection and Monitoring System: 100% Owner		
Baseline	8.	Paid Utility Accounts, 15% Tenant Paid Utility Accounts		

water performance data in ENERG accounts for a minimum of five ye Development Authority access to property owner/developer must a a percentage of occupants/units t	chis data. For residential properties, gree to collect utility release forms from track actual utility data of a sample of es for a minimum of five years. Allow	N. A.					
structions: New construction projects must seek completion of optional criteria totaling ≥ 40 points. Building rehab projects must seek completion of optional critiera plantage ≥ 35 points.							

Areas of Consideration Additional Funding Request Optional Measures Additional Additional Cost Description Champion **Strategies** Max Pts. **Iowa Green Streets Criteria** role strategy 1, strategy 2,etc. name Funding (show the math) 1. Integrative Design 12 or 15 1.5 Design for Health and Well-being: Health Action Plan Follow Steps of the Health Action Plan framework per the full criterion. N.A. 10 1.6 Resilient Communities: Multi-Hazard Risk / Vulnerability Assessment Conduct a four-part assessment (social, physical, functional, strategy) to identify critical risk factors of your property and implement at least two N.A. sets of strategies to enable the project to adapt to, and mitigate, climate related or seismic risks. 1.7 Resilient Communities: Strengthening Cultural Resilience Integrate community and resident participation in the development processes so that the built environment honors cultural identities, resident N.A. voices, and community histories. 10 1.8 Resilient Structures New construction projects with a basement and rehab projects construct a safe room to protect against wind forces and wind debris from events N.A. such as a tornado. **Subtotal of Points** 2. Location + Neighborhood Fabric 5 or 7 2.4 Compact Development 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]. In Rural/Tribal/Small Towns that do not have zoning requirements, build to a minimum net density of 7.5 units per acre for N.A. single-family houses; 12 units per acre for multifamily buildings, single and two-story; and 20 units per acre for multifamily buildings greater than two stories. [5 points] 2.7 Preservation of and Access to Open Space 6 max

	1		Ontion 1. Legate the preject within a 0.25 mile walk distance of dedicated		1		
			Option 1: Locate the project within a 0.25-mile walk distance of dedicated				
			open space that is a minimum of 0.75 acres; at least 80% of which				
			unpaved. Option 2: Set aside a percentage of permanent open space for			N.A.	
			use by all residents; at least 80% of which unpaved. 20% [2 points]; 35% [4				
			points]; 45% + written statement of preservation/conservation policy [6				
			points].				
2 - 8		2.8	Access to Transit				
			See full criterion for details and options for urban and Rural/Tribal/Small			N.A.	
			Town projects.			N.A.	
2 - 8		2.9	Improving Connectivity to the Community				
			Improve access to community amenities through at least one of the				
			options incentivizing biking mobility or improving access to transit. Must			N.A.	
			implement at least 3 of the options.				
5 max		2.10	Passive Solar Heating / Cooling				
			Design and build with passive solar design, orientation and shading that				
			meet the guidelines specified.			N.A.	
10			Adaptive Reuse of Buildings				
			Rehabilitate and adapt an existing structure. Design the project to adapt,			N.A.	
			renovate, or reuse at least 50% of the existing structure and envelope.			140741	
6		2.12	Access to Fresh, Local Foods				
			Pursue one of three options to provide residents and staff with access to				
			fresh, local foods, including neighborhood farms and gardens, community			N.A.	
			supported agriculture, or proximity to farmers markets.			140741	
8		2.13	Advanced Certification: Site Planning, Design and Management				
			Locate building(s) within a community that is certified in LEED for				
			Neighborhood Development, LEED for Cities and Communities, Living			N.A.	
			Community Challenge, or SITES.			14.74.	
6 max		2.14	Local Economic Development and Community Wealth Creation				
o max			Demonstrate that local preference for construction employment and				
			subcontractor hiring was part of your bidding process, and how it			21.0	
			functioned during construction or demonstrate that you achieved at least			N.A.	
			20% local employment or provide physical space for small business,				
			nonprofits, and/or skills and workforce education.				
6		2.15b	Access to Broadband: Connectivity				
			Ensure all units and common spaces in the property have broadband			N. A	
			internet access with at least a speed of 25/3 mbs.			N.A.	
	0		Subtotal of Points				
3. Site I	mpro	ovem	ients	· 			
10			Surface Stormwater Management: Channel Protection Volume			\$ Request	Additional Cost Description (show your math)
							. , , , , , , , , , , , , , , , , , , ,
			Through on-site infiltration, evapotranspiration, and rainwater harvesting,				
			retain the 1.25" rain event on site (rehab projects) or 2.5" rain event on				
			site (new construction or projects disturbing ≥ 1,000 square feet.				
- 2	2020 G r	een De	velopment Plan and Checklist - Appendix A - Disaster Recovery - June 2021	1		-	

6		3.7	Efficient Irrigation and Water Reuse			
			At least 50% of the site's irrigation satisfied by water use from sources		N.A.	
			listed.		N.A.	
	0		Subtotal of Points			
4. Wate	r					
6 max		4.2	Advanced Water Conservation		\$ Request	Additional Cost Description (show your math)
			Reduce total indoor water consumption by at least 30% compared to			· · · · ·
			baseline indoor water consumption chart. Any new toilet, showerhead,			
			and/or lavatory faucet must be WaterSense certified.			
3, 8 or 11		4.3	Water Quality			
			Mandatory for Substantial Rehabs of buildings built before 1986; Optional			
			for all other building types: Replace lead service lines. [3 points] Test and		N.A.	
			remediate as indicated for lead, nitrates, arsenic, and coliform bacteria.		IV.A.	
4		4.4	Monitoring Water Consumption and Leaks			
			Conduct pressure-loss tests and visual inspections to determine if there			
			are any leaks; fix any leaks found; Install an advanced water monitoring			
			and leak detection system capable of identifying and shutting water off			
			during anomalous water events. OR Install a device to separately monitor			
			water consumption of each cold branch off the apartment line riser for		N.A.	
			each dwelling unit or each cold water riser and the domestic hot water			
			cold water feed for each building or each toilet that allows remote			
			monitor readings; common laundry facilities; boiler makeup water;			
			outdoor water consumption; and water consumption in any non- residential space.			
4		4.5	Efficient Plumbing Layout & Design			
-			Store no more than 0.5 gallon of water in any piping/manifold between			
			the fixture and the water heating source or recirculation line. No more			
			than 0.6 gallon of water shall be collected from the fixture before a 10-		N.A.	
			degree Fahrenheit rise in temperature is observed. Recirculation systems			
			must be demand-initiated.			
6 max		4.6	Non-Potable Water Reuse			
			Harvest, treat, and reuse rainwater and/or greywater to meet a portion of			
			the project's non-potable water needs: 10% reuse [3 points]; 20% reuse		N.A.	
			[4 points] ; 30% reuse [5 points] ; 40% reuse [6 points] .			
8		4.7	Access to Potable Water During Emergencies			
			Provide residents with ready access to potable water in the event of an			
			emergency that disrupts normal access to potable water, including			
			disruptions related to power outages that prevent pumping water to		N.A.	
			upper floors of multifamily buildings or pumping of water from on-site			
			wells, per one of the three options listed.			
	0		Subtotal of Points			
5. Opera	ating	Effic	ciency			

12 max	5.2	2a Moving to Zero Energy: Additional Reductions in Energy Use			
		(Not available for projects using prescriptive path for Criterion 5.1a or for			
		projects following Criterion 5.2b or 5.4.). Design and construct a building			
		that is projected to be more efficient that what is required by Criteria 5.1a-			
		5.1d. Achieve HERS score of 5 points lower than required by 5.1a-5.1d OR			
		5% greater efficiency than required if following ASHRAE path for 5.1a-5.1d		N.A.	
		compliance [5 points]. Additional 1 point for each additional 2-point			
		decrease in HERS score required by Criteria 5.1a-5.1d OR for 1% greater			
		efficiency if following ASHRAE path for Criteria 5.1a-5.1d, up to a			
		maximum of 12 optional points.			
12-15	5.2	2b Moving to Zero Energy: Near Net Zero Certification		\$ Request	Additional Cost Description (show your math)
		(Not available for projects following Criterion 5.2a or 5.4.). Certify the			
		project in a program that requires advanced levels of building envelope			
		performance such as DOE ZERH [12 points] and/or PHI Classic or PHIUS+			
		[15 points].			
3-6	5.3	Ba Moving to Zero Energy: Photovoltaic/Solar Hot Water Ready			
		Orient, design, engineer, wire, and/or plumb the development through			
		the Photovoltaic Ready pathway or Solar Hot Water Ready Pathway to		N.A.	
		accommodate installation of photovoltaic (PV) or solar hot water system		1022 11	
		in the future.			
8 max	5.3	Moving to Zero Energy: Renewable Energy			
		Install renewable energy source to provide a specified percentage of the			
		project's estimated source energy demand. See full criterion for allowable			
		sources. Option 1: For percentage of total project energy consumption		N.A.	
		provided by renewable energy [4-8 points]. Option 2: For percentage of			
		common area meter energy consumption provided by renewable energy			
24	5	[1-5 points]. 4 Achieving Zero Energy		\$ Request	Additional Cost Description (show your math)
27				3 Request	Additional Cost Description (snow your math)
		(If requesting funding here, do not request additional funding for 5.2b)			
		Achieve Zero Energy performance through one of the following. Option 1:			
		Certify each building in the project to DOE Zero Energy Ready Home			
		program or PHI Plus AND Either install renewables and/or procure			
		renewable energy, which in sum will produce as much, or more, energy in			
		a given year than the project is modeled to consume. Option 2: Certify			
		each building in the project in a program that requires zero energy			
		performance such as PHIUS_ Source Zero, PHI Plus, PHI Premium, ILFI's			
		Zero Energy Petal, Zero Carbon Petal, or Living Building Certification.			
5 max	5.5	Moving to Zero Carbon: All-Electric Ready			
		(Not available for projects following Criterion 5.5b). Ensure the project has			
		adequate electric service and has been designed and wired to allow for a			
		seamless switch to electricity as a fuel source in the future for the		N A	
		following uses: space heating [1 point], space cooling [1 point], water		N.A.	
		heating (DHW) [1 point], clothes dryers [1 point], equipment for cooking [1			
		point].			

15		5.5b	Moving to Zero Carbon: All-Electric		\$ Request	Additional Cost Description (show your math)
			(Not available for projects following Criterion 5.5a). No combustion			, , , , , , , , , , , , , , , , , , , ,
			equipment used as part of the building project; project is all-electric.			
8		5.9	Resilient Energy Systems: Floodproofing			
			Conduct floodproofing of lower floors, including perimeter floodproofing			
			(barriers/shields). Design and install building systems as specified by the			
			full criterion so that operation of those systems will not be grossly affected		N.A.	
			in a flood.			
8		5.10	Resilient Energy Systems: Critical Loads			
			Provide emergency power to serve at least three critical energy loads as			
			described by the full criterion. Option 1: Islandable PV system. Option 2:		N.A.	
			Efficient generator.			
10 Max		5.11	Electric Vehicle Charging		\$ Request	Additional Cost Description (show your math)
			Option 1 [5 points]: Install panel capacity and raceway (≥ size 1) to			
			support future build-out of EV charging with 208/240 V, 40-amp circuits.			
			Identify the overcurrent protective device space(s) on circuit directory as			
			"EV CAPABLE."			
			Option 2 [10 points]:Residential projects ≥ 2 units install ≥ 1 <u>active</u> electric			
			vehicle charging station. For multifamily and commercial projects install ≥			
			2 active charging stations for first 25 parking spaces and 10% of all parking			
			spaces > 25 (round up).			
	0		Subtotal of Points			
6. Mate	rials					
8 max		6.1	Ingredient Transparency for Material Health			
			Install products that have publicly disclosed inventories characterized and			
			screened to 1,000 ppm or better. • 🛽 point per 5 installed Declare or HPD			
			products from at least three different product categories. • point per 2			
			installed Declare or HPD products in any of these categories: adhesives,			
			sealants, windows. 1 point per each product with third-party verified HPD		N.A.	
			or third party verified Declare label. 2 points per each product with third-			
			party verified HPD or third party verified Declare label in any of these			
			categories: adhesives, sealants, windows.			
3 max		6.2	Recycled Content and Ingredient Transparency			
			Use building products that feature, and disclose, their recycled content.			
			The building product must make up 75% by weight or cost of a project		N.A.	
			category for the project and be composed of at least 25% post-consumer		IV.A.	
			recycled content.			
8 max		6.3	Chemical Hazard Optimization			
			Install products that have third-party verification of optimization to 100		N.A.	
			ppm or better per the options listed within the full criterion.		11.71.	
15 max		6.4	Healthier Material Selection			
			Select all interior paints, coatings, primers, and wallpaper; interior			
			adhesives and sealants; flooring; insulation; and composite wood as		N.A.	
			specified. Optional points also available.			

12 max		6.5	Environmentally Responsible Material Selection			
			Select concrete, steel, or insulation with a publicly disclosed EPD [3			
			points], Install a green or cool roof [3 points], use reflective paving [3			
			points], and/or use FSC certified wood [3 points]. Refer to criterion for		N.A.	
			specifics.			
4 max		6.7	Regional Material		\$ Request	Additional Cost Description (show your math)
			Use products that were processed and manufactured regionally.			
6 max		6.10	Construction Waste Management			
			Develop and implement a waste management plan that reduces non-			
			hazardous construction and demolition waste through recycling, salvaging,		N.A.	
			or diversion strategies through one of the three options. Achieve optional		N.A.	
			points by going above and beyond the requirement.			
2		6.11	Recycling Storage			
			For projects with municipal recycling infrastructure and/or haulers,			
			provide separate bins for the collection of trash and recycling for each			
			dwelling unit and all shared community rooms. OR For projects without		N.A.	
			that infrastructure, advocate to the local waste hauler or municipality for			
			regular collection of recyclables.			
	0		Subtotal of Points			
7. Healt	hy Li	iving	Environment			
10		7.6	Smoke-Free Policy (also mandatory)			
			Optional: Expand the policy above to include all indoor spaces in the		N.A.	
			property.		N.A.	
12 max		7.7	Ventilation (Optional for Moderate Rehab)			
			For each dwelling unit in full accordance with the current version of			
			ASHRAE 62.2 or 62.1 as coordinated with the adopted edition of the IECC		N.A.	
			for the State of Iowa. See full criterion for details and points breakdown.			
3		7.9	Construction Pollution Management			
			Option 1: Earn the EPA Indoor airPlus label. Option 2: In all dwelling units,			
			seal all heating, cooling, and ventilation return and supply floor ducts and			
			returns throughout construction to prevent construction debris from			
			-		N.A.	
			entering. Flush all dwelling units after completion of construction and prior to occupancy for either 48 hours or with at least 14,000 ft3 per ft2 of			
			floor area, then replace all air handling equipment filters.			
3		7.10	Noise Reduction			

					1			
			Option 1: Test and demonstrate that noise levels in bedrooms meet 30 dB LAeq (continuous) and 45 dB LAmax, (single sound). Option 2: Provide a noise abatement plan specific to the site covering general noise mitigation techniques in accordance with 24 CFR 51B. Option 3: Ensure all exterior wall and party wall penetrations are sealed with acoustical sealant, all party walls and floor/ceiling assemblies have an STC rating of at least 55, and exterior windows and doors in projects near a significant exterior noise source have an STC rating of at least 35.				N.A.	
9		7.11	Active Design: Promoting Physical Activity					
			Option 1: Encouraging Everyday Stair Usage (buildings that include stairs as the only means to travel from one floor to another are not eligible for this option.) Provide a staircase that is accessible and visible from the main lobby and is visible within a 25-foot walking distance from any point in the lobby per the specifications listed. Place point-of-decision signage. Option 2: Activity Spaces. Provide 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.				N.A.	
10		7.12	Beyond ADA: Universal Design (Division II optional)					
			Implement Division 2, Best Practices, of the Iowa Green Streets Criteria Universal Design Required and Bonus Best Practices Checklist.				N.A.	
8		7.13	Healing-Centered Design					
			Select and implement at least two of the Options with at least two different strategies listed in at least 75% units. Option 1: Provide an environment that promotes feelings of real and perceived safety. Option 2: Create flexible spaces that allow for personalization and/or manipulation to meet individual and community needs. Option 3: Connect residents and staff to a living landscape and the natural environment. Option 4: Utilize art and culture in project design and programming and promote social connectedness.				N.A.	
	0		Subtotal of Points					
Total Pts	0		Total Green Streets	s Plus Disaste	er Recovery Ad	ditional Funding Requested	\$0	