

6/11 DRAFT SUSTAINABILITY IMPLEMENTATION MATRIX (for CAC Review 6/15/21 - work in progress)

Aspect of Sustainability	Sub-topic	Issue	Addressed in Master Plan	Addressed in Other Regulations	Community Priority #	Supported by Policy:	LEED for Communities Prerequisite (P) or Credit (C)	LEED New Construction (NC)	Private Covenants (Final TBD by Port)	
Ecological Systems	Habitat	Tree Canopy	2.1, 2.2, 2.4, 2.6		1	CP: LU-19, LU-"The Urban Forest", PR-19, WR-6, CARP 27		EQ and SS Credits	TBD	
		Native and Regionally Adaptive Plantings	2.1, 2.2			H-14, PR-19, PR-20, CA-"Native Plant Communities", CARP 27		EQ and SS Credits	TBD	
		Wildlife Corridors and Green Connections	2.1, 2.2, 2.6			CA-"Native Plant Communities", Map CA-6	NS Prerequisite: Ecosystem Assessment, NS Prerequisite: Green Spaces	SS Credits: Protect or Restore Habitat and Open Space		
	Water Resources	Green Infrastructure	4.1 - 4.5			WR-2, WR-3, WR-4, WR-"SSGI", WR-"BMPs", T-39, PR-19	WE Prerequisite: Stormwater Management	WE and SS: Prerequisites and Credits		
		Wetland Protection and/or Mitigation		City Leg. Code Ch. 81, RWMWD District Rules, Wetland Conservation Act (WCA), MPCA		CA-"Native Plant Communities and Significant Existing Vegetative Stands", Map CA-6	NS Prerequisite: Ecosystem Assessment, NS Credit: Natural Resources Conservation and Restoration	WE, LT, and SS Credits		
		Pollution Mitigation		RWMWD District Rules, City Leg. Code Chs. 52 and 81, MN Rules 7090, MPCA Construction Stormwater Permit		WR-6	TR Credit: High Priority Sites	SS Prerequisites and Credits		
	Air Quality	Develop Mature Vegetation	2.1, 2.2			1	H-14, WR-6		EQ and SS Credits	TBD
		Selective Mature Tree Canopy	2.2	City Forester influence - see code				NS Prerequisite: Ecosystem Assessment	EQ and SS Credits	
		Pollution Mitigation	2.1, 2.2, 2.5				H-14	QL Credit: Public Health	EQ Prerequisite and Credits	
		Multimodal Transportation Support	1.1, Transportation Chapter			2, 6, 8, 9	T-3, T-4, T-15, T-22, T-25, T-42, T-43, PR-17, LU-8	TR Credit: Compact, Mixed Use, and Transit Oriented Development, TR Credit: Walkability & Bikeability, TR Credit: Access to Quality Transit, TR Credit: Alternative Fuel Vehicles, TR Credit: Smart Mobility & Transportation Policy	LT Prerequisite and Credits	
	Soil Quality	Stormwater Infrastructure	4.1-4.5				WR-2, WR-"SSGI", WR-"BMPs", PR-19, T-39	WE Prerequisite: Stormwater Management	SS Prerequisites and Credits	
		Non-turf Vegetative Cover	2.2			1	H-14, PR-32, WR-6		SS Credit: Rainwater Management	TBD
		Pollution Mitigation		MPCA			WR-6, WR-20	TR Credit: High Priority Sites	SS Prerequisites and Credits	
		Limited Impervious Surfaces	2.4	Find in ZC			LU-48, WR-6, WR-"Water is All Around Us", T-39	NS Prerequisite: Green Spaces	SS Credit: Rainwater Management	

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Resource Use	Reduced Embodied Carbon	Use of Regional, Recycled, and/or Renewable Materials	3.1-3.5			H-10	MR Credit: Responsible Sourcing for Infrastructure	MR Prerequisite and Credits		
		Efficient Building Strategies	1.2	SBO*		LU-8, H-10, H-13	EN Credit: Energy Efficiency	MR Credit: Building Life-Cycle Impact Reduction	Covenants	
	Net-Zero to Net-Positive Energy	On-site Renewable Energy Production (Solar)	1.4			LU-17, H-10	EN Credit: Renewable Energy	EA Credit: Renewable Energy	Covenants	
		Energy Use Reduction (AIA 2030 Building Standards, Geothermal)	1.2, 1.6	SBO*		H-10, H-12	EN Prerequisite: Energy & GHG Emissions Management, EN Credit: Energy Efficiency, EN Credit: Grid Harmonization	EA Prerequisite: Minimum Energy Performance, EA Credit: Optimize Energy Performance	Covenants	
	Water Resources	Limited Potable Exterior Use			SPRWS? LEED?	WR-1, WR-10	WE Prerequisite: Integrated Water Management, WE Credit: Smart Water Systems	WE Prerequisite and additional credits: Indoor and Outdoor Water Use Reduction		
		Designing for Interior Use Water Conservation and Efficiency			SPRWS? LEED?	WR-10	WE Prerequisite: Integrated Water Management, WE Credit: Smart Water Systems	WE Prerequisite and additional credits: Indoor and Outdoor Water Use Reduction, Building-Level Metering	Covenants	
		Potential Roof Catchment and Reuse	4.6			WR-1, WR-5	WE Prerequisite: Stormwater Management	WE Credit: Integrated Project Water Reuse Strategy		
	Reduced Operational Carbon	Multimodal Transportation Support	1.1, Transportation Chapter			2, 6, 8, 9	T-3, T-4, T-15, T-22, T-25, T-42, T-43, PR-17, LU-8	TR Credit: Compact, Mixed Use, and Transit Oriented Development, TR Credit: Walkability & Bikeability, TR Credit: Access to Quality Transit, TR Credit: Alternative Fuel Vehicles, TR Credit: Smart Mobility & Transportation Policy	LT Prerequisite and Credits	
		Passive Site Heating and Cooling Strategies	1.9		LEED?		H-10, H-12, H-"Passive House Principles"	EN Credit: Energy Efficiency	EA Prerequisite: Minimum Energy Performance, EA Credit: Optimize Energy Performance	Covenants
		Renewable Energy Sources	1.4-1.8		SBO*, LEED?		LU-17, CARP 48-54	EN Credit: Renewable Energy	EA Credit: Renewable Energy	Covenants
Resiliency	Build to Projections	Infrastructure Built to 500-year Floods, Extreme Rain Events			RWMWD, City/State?	WR-7, WR-19, LU-"The Urban Forest"	NS Credit: Resilience Planning	MR Credit		
		Use of Passive Site Cooling Strategies	1.9		LEED?	H-10, H-12, H-"Passive House Principles"	NS Credit: Resilience Planning	MR Credit		
		Systems Planned to Meet Increased Cooling Needs	1.10.				NS Credit: Resilience Planning	MR Credit		
	Adaptable Landscapes	Adaptive Vegetation Recommendations	2.1, 2.2, 2.6				WR-7, PR-13	NS Credit: Resilience Planning		
		Extensive Green Infrastructure	2.1, 2.2, 4.1-4.6				WR-2, WR-3, WR-4, WR-7, T-39, PR-19	WE Prerequisite: Stormwater Management		
		Limited Impervious Surfaces	2.4		Find in ZC		LU-48, WR-6, WR-"Water is All Around Us", T-39	NS Prerequisite: Green Spaces		
	Site Emergency Preparedness	On-site Backup Power, Water Storage	1.10.		LEED?		CARP 26	NS Credit: Resilience Planning	Pilot Credit	
		Storm Shelters Integrated Included in New Development			Building Code? Fire?		CARP 26	NS Credit: Resilience Planning		
Community Communication Strategies						CARP 26	NS Credit: Resilience Planning			

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Social and Human Well Being	Housing	Designed for Multigenerational Needs	Housing Chapter		3, 17, 18	H-9, H-48, H-54, H-55	QL Credit: Affordable Housing	LT Credit	
		Affordable, Community Oriented	Housing Chapter		3, 17, 18	H-11, H-16, H-18, H-21, H-31 through H-37, H-41, H-46, H-48, H-56	QL Credit: Affordable Housing	LT Credit	
	Active Communities	Highly Accessible Parks and Trails	Transportation and Parks Chapters		1, 2, 8, 9	PR-1, PR-2, PR-4, PR-17, PR-38	QL Credit: Public Health	LT Credits	
		Multimodal Transportation Support	1.1, 1.7, Transportation Chapter	ZC Requirements? Bikes?	2, 6, 8, 9	T-3, T-4, T-15, T-22, T-25, T-42, T-43, PR-17, LU-8	TR Credit: Compact, Mixed Use, and Transit Oriented Development, TR Credit: Walkability & Bikeability, TR Credit: Access to Quality Transit, TR Credit: Alternative Fuel Vehicles, TR Credit: Smart Mobility & Transportation Policy	LT and SS Credits	
		Community Gathering and Event Space	Parks Chapter?		12, 13	PR-7, PR-32	QL Prerequisite: Social Infrastructure	LT and SS Credits	
	Economic Opportunity	Diverse, Local Jobs	Land Use Chapter?		4, 16	LU-2, LU-6, LU-45, LU-Industrial Intent	IN Credit: Economic Growth		Covenants
		Opportunity for Local Entrepreneurship, Small Business, Community Market Spaces	Land Use and Parks Chapters?		5,6	LU-6, LU-52, LU-"Neighborhood Nodes Approach"	IN Credit: Economic Growth	SS Credit: Places of Respite	Covenants
	Social and Cultural Infrastructure	Range of Shared Community Spaces	Parks and Transportation Chapters		12, 13	PR-1, PR-5, PR-7	QL Prerequisite: Social Infrastructure	SS Credit: Places of Respite	TBD
		Opportunity for Community Personalization and Expression (Public Art, Design Participation, Community Gardens, Community Kitchen, Events Space)	2.7, Parks and Public Art Chapters/Sections		13	PR-7, PR-32	QL Credit: Public Health	SS Credit: Places of Respite	Covenants
	Connection to Nature	Accessible Active and Passive Green Spaces	Parks and Transportation Chapters		1, 2, 8, 9, 15	PR-1, PR-2, PR-4, PR-17, PR-38, WR-3	NS Prerequisite: Green Spaces, QL Credit: Public Health	SS Credit: Open Space	
		Support Mature Vegetation Growth	2.1, 2.2, 2.4			WR-6		SS Credit: Protect or Restore Habitat	TBD
		Food Production Opportunities	2.7, Parks Chapter		13	PR-32	QL Credit: Public Health	SS Credit: Places of Respite	
	Urban Conditions	Improved Air Quality	2.1, 2.2, 2.4, 2.5			H-14, CARP 33, CARP 44	QL Credit: Public Health	EQ Credit	
		Limited Light Pollution	2.3				NS Credit: Light Pollution Reduction	SS Credit: Light Pollution Reduction	
		Mitigate Urban Heat Island Effects	2.4			T-39, LU-"The Urban Forest"	NS Prerequisite: Green Spaces	SS Credit: Heat Island Reduction	

*Sustainable Building Ordinance applies if more than \$200K in City financing is contributed to the project (City Admin Code Ch. 81).

LU, T, PR, WR, H = Comp Plan
 CARP # = Climate Adaptation and Resiliency Plan (Pg #)
 CC = Council Resolution
 CM = Compact of Mayors