SUSTAINABLE NEW COMMUNITIES PROGRAM

Guidebook



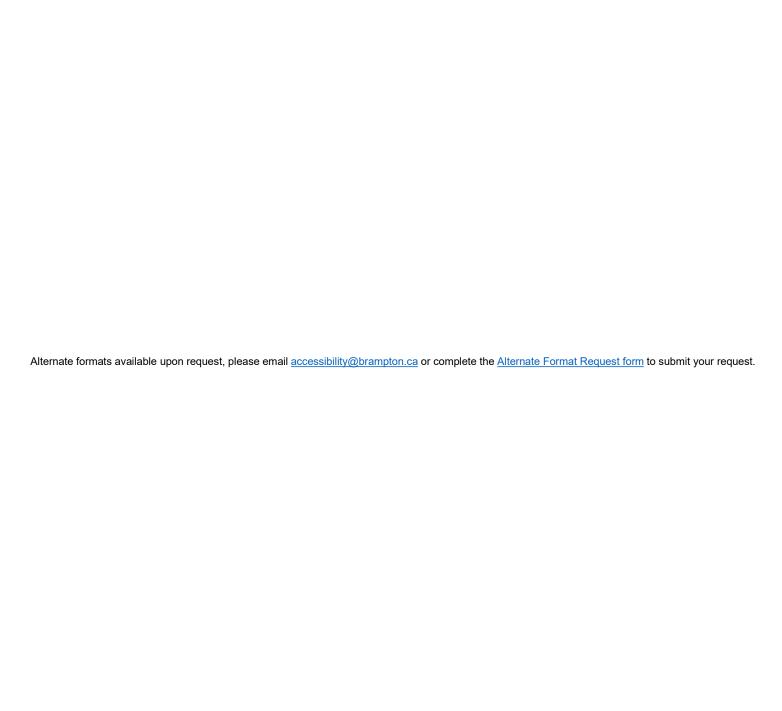












Over the last decades, cities and towns across the Greater Toronto and Hamilton Area (GTHA) have experienced significant and rapid growth. Municipalities play a pivotal role in responsibly managing growth and facilitating the development of communities that are environmentally, social, and economically sustainable.

To foster more sustainable new communities the Cities of Brampton, Vaughan, Richmond Hill, and Markham collaboratively offer a set of tools to evaluate and score the sustainability performance of development proposals, and encourage builders/developers to achieve a minimum level of performance. This includes:

a) Sustainability Metrics (Metrics):

A set of measures to encourage and evaluate the sustainability performance of new development, organized around the categories of Built Environment, Mobility, Natural Environment and Open Space, and Infrastructure and Building. Each of the over 120 Sustainability Metrics available to choose from are assigned a point value, and the combination of Metrics achieved in a development proposal results in a Sustainability Score (Score). Development proponents are able to select a combination of Metrics to achieve the minimum required Score. This enables the proponent to choose Metrics that best suit their individual property, project, and level of sustainability aspiration.

b) Sustainability Assessment Tool (SAT):

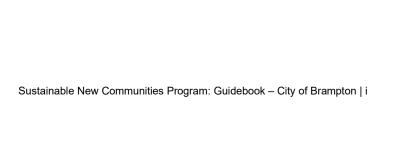
A digital tool that development proponents use to calculate the Sustainability Score by identifying the Metrics achieved in their development proposal.

c) Sustainability Score Thresholds (Thresholds):

Performance levels achieved by the Sustainability Scores of a development proposal, and categorized as Bronze, Silver, or Gold.

The Sustainable New Communities Program (SNCP) is an important instrument to help implement both Provincial and Municipal land use planning, sustainability, and climate change goals and objectives. It facilitates creating healthy, complete, and sustainable communities that support quality of life for residents of all ages and abilities, energy efficiency and lower Greenhouse Gas (GHG) emissions, more efficient use of land and infrastructure, local economic development, and cultural and natural heritage conservation. The Program offers flexibility that enables development proponents to choose the sustainability approaches that best suits their project. It also aligns with the Region of Peel's Healthy Development Framework and associated Healthy Development Assessment.

This Sustainable New Communities Program Guidebook is a living document that will be updated from time to time. Please refer to the Program webpage of the respective municipality for the latest version.



SUBMISSION REQUIREMENTS

As part of a complete planning application submission, applicable development proposals are required to achieve a minimum Bronze Sustainability Score. In addition, as of January 1, 2023, development proposals must achieve the "Good" level of building energy and GHG emissions performance of Metric IB-12.

WHAT TYPE OF APPLICATIONS REQUIRED A SUSTAINABILITY SCORE?

- All Block Plans/Precinct Plans
- Plans of Subdivision of 10 more residential units
- "Full" Site Plans
- Zoning By-law amendments to facilitate any of the above

WHAT TYPE OF APPLICATIONS ARE EXEMPT?

- Plans of Subdivision of 9 residential units or less
- "Limited" and "Basic" Site Plans
- Plans of Subdivision for the purpose of subdividing large blocks of land for the sole purpose of creating lots for future employment, industrial, commercial, or institutional development, and which will require subsequent Site Plan approval.

DOES IT APPLY TO ZONING BY-LAW AMENDMENTS?

Yes. The Sustainability Score will be based on the preliminary information available at the Zoning By-law amendment stage. The score will then be refined when more details become available as part of the associated Plan of Subdivision and/or Site Plan applications.

IS THERE A MINIMUM REQUIRED SCORE?

Yes. Applications must achieve, at minimum, a Score that falls within the Bronze Threshold. In addition, as of January 1, 2023, development proposals must also achieve the "Good" level of building energy and GHG emissions performance of Metric IB-12.

	Bronze	Silver	Gold
Site Plan	41 - 61	62 - 75	76 - 241
Draft Plan	27 - 40	41 - 49	50 - 194
Block Plan	14 - 20	21 - 25	26 - 76

PRE-CONSULTATION APPLICATION

Applicants advised of Sustainable New Communities Program and associated minimum requirements.

PLANNING APPLICATION SUBMISSION

Complete application will include Sustainability Score & Summary and Snapshot. Application to achieve at least a Bronze Score, and as of January 1, 2023, the "Good" level of building energy and GHG emissions performance of Metric IB-12.

CIRCULATION / TECHNICAL REVIEW

Staff review plans/drawings and component studies to verify metrics achieved and Sustainability Score.

INFORMATION REPORT

Report on application's Preliminary Sustainability Score.

RE-SUBMISSIONS

Re-submission(s) will include an updated Sustainability Score & Summary, and Snapshot.

RECOMMENDATION REPORT / SITE PLAN AGREEMENT

Report on application's Final Sustainability Score. Include Plan of Subdivisions or Site Plan condition(s) as applicable.

DETAILED DESIGN

Demonstrate that Sustainability Score is being achieved.

The Sustainability Metrics are organized into four main categories: Built Environment, Mobility, Natural Environment and Parks, Infrastructure and Buildings. A new category, Innovation, has also been added.

Built Environment (BE)

The indicators for Built Environment speak to how we inform places and connections within the development. The intensity and diversity of land uses influences decisions on where we live, work, and how we move around the community. A mix of housing types, amenities, and employment and livework opportunities located within walking distance provides the opportunity for residents to meet their day-to-day needs without reliance on the private automobile. Further provision for life-cycle housing and accessible buildings allows residents to establish and remain in their communities throughout the various periods of their lives.

Mobility (MB)

The indicators of Mobility identify how a variety of transportation options must be available to residents to carry out their daily lives within and beyond the community. A sustainable community is one that encourages physical activity, facilitates active transportation, and supports public transit in place of automobile dependence. The most vulnerable population groups (children, elderly, disabled, and low income individuals) are the most affected by choices available to them for mobility and access to services and amenities. Designing a safe, convenient, and accessible environment for walking and cycling encourages these modes of transportation. Emphasis on mobility and active transportation not only reduces energy use and GHG emissions, but contributes directly to improving public health and the quality of life of residents as well.

Natural Environment and Parks (NE)

The natural heritage, urban forest, and the open space system are essential components of a healthy, sustainable community. The preservation and enhancement of the natural heritage system ensures the health of the environment and supports recreational and cultural opportunities, as well as climate change mitigation and adaptation in a community. Secondly, ensuring residents have convenient access to a connected and diverse range of natural heritage features, parks, and open space offers opportunities for improved public health and connections within the community.

Infrastructure and Buildings (IB)

The Infrastructure and Buildings indicators identify the means to maximize energy and water conservation, improve energy efficiency, and minimize GHG emissions and the consumption of non-renewable resources. New buildings and communities should be designed with a focus on reducing water, waste, and energy use. Since human activity is the principal cause of elevated levels of greenhouse gases and demands on energy, water, and waste systems, the measures focus on means of reducing this impact on both the built and natural environments.

Innovation (IN)

The Innovation indicator is intended to encourage true innovation resulting in significant sustainability benefit. This new theme allows flexibility to propose innovative sustainability measures that are not specifically captured but which provide a measurable sustainability benefit. This flexibility is intended to allow users to think progressively and outside of the box when proposing sustainability measures for their development proposals.

Indicators

The following are the performance indicators organized by category. Each performance indicator has associated Metrics that are allocated a point value. The Metrics reflect characteristics of a sustainable community and are designed to outline the required measures or standards for each category to ensure that the overall objectives of the Sustainability Metrics are achieved.

BUILT ENVIRONMENT	BUILT ENVIRONMENT MO		NATURAL ENVIRONMENT AND PARKS
BE-1: Proximity to Amenities BE-2: Mixed-Use Development BE-3: Housing Diversity BE-4: Community and Neighbourhood Scale BE-5: Cultural Heritage Conservation BE-6: Urban Tree Canopy and Shaded Walkways/Sidewalks BE-7: Salt Management BE-8:Carshare and Carpool Parking BE-9: Surface Parking Footprint BE-10: Electric Vehicle Charging Stations	 MB-1: Block Length MB-2: School Proximi MB-3: Intersection De MB-4: Walkable Stree MB-5: Pedestrian Ame MB-6: Bicycle Parking MB-7: Trails and Cycli MB-8: Active Transpo MB-9: Distance to Put MB-10: Traffic Calmin 	ts enities ing Infrastructure rtation Network blic Transit	 NE-1: Tree Conservation NE-2: Soil Quantity & Quality for New Trees NE-3: Healthy Soils NE-4: Natural Heritage Connections NE-5: Natural Heritage System Enhancements NE-6: Supporting Pollinators NE-7: Dedicated Fruit/Vegetable Garden Space NE-8: Park Access NE-9: Stormwater Quantity NE-10: Stormwater Quality NE-11: Potable Water Use NE-12: Multi-purpose Stormwater Management
INFRASTRUCTURE AND BUIL	DINGS		INNOVATION
IB-1: Buildings Designed/Certified Under Green Ratir IB-2: Accessibility for Multi-Unit Dwellings IB-3: Building Accessibility (Barrier Free Entry/Egress IB-4: Embodied Carbon of Building Materials: Supple IB-5: Embodied Carbon of Building Materials: Life Cy IB-6: Embodied Carbon of Building Materials: Materials-7: Heat Island Reduction: Non-Roof IB-7: Heat Island Reduction: Roof IB-9: Solar Gain Control IB-10: Solar Readiness IB-11: Energy Strategy IB-12: Building Energy Efficiency, GHG Reduction, and IB-13: Rainwater and Greywater Use IB-14: Back-Up Power IB-15: Extreme Wind Protection for Ground Oriented IB-16: Sub-Metering of Thermal Energy and Water IB-17: Light Pollution Reduction IB-18: Bird-Friendly Design IB-19: Solid Waste	nentary Cementitious Materials cle Assessment I Efficient Framing	• IN-1: Innovation	

BUILT ENVIRONMENT

			BE-1: PROXIMITY TO	AMENITIES	
Intent:	To encourage develop	ment within and near existing ame	enities, create more walk	able communities, and reduce aut	o dependency.
Applicable to:	×	Block Plan	☑ Draft F	Plan of Subdivision	⊠ Site Plan
Applicable to:		Residential	×	Mixed Use	☑ Industrial, Commercial, Institutional
	Points	Requirement			Documentation
Good:	1 point	3 or more amenities are within 8 a 10 minute walk) of 75% of dwe	`		an), or Amenities Context Map (Site Plan), provide a map oposed development overlaid and: accounts for 75% of the Dwelling Units (DU). a geographic center of the development, and the 800 radius from it.
Great:	+2 additional points (total 3 points)	3 or more amenities are within 4 a 5 minute walk) of 75% of dwel	` .	community/recreation constore, restaurant, food recare, licensed child care medical office, dental of museum. Other amenities not spepermitted by the municipulate of the municipulate of the municipulate of the construction of the municipulate of	entre, general retail, bank, place of worship, convenience etail (grocery store, supermarket), licensed adult/senior e, theatre, salon/barber shop, hardware store, laundromat, fice, post office, pharmacy, school, fitness center, and ecifically listed above may also be considered, where pality, provided that they meet the intent of the metric. Insidered to host multiple amenities (e.g. pharmacy
 Thinking Green (2018): 20, 21, 22 (Draft Plan of Subdivision) LEED ND (v4) SLL: Housing and Jobs Proximity LEED ND (v4) NPD: Mixed-Use Neighborhoods; NPD: Access to Civic and Public Space; NPD: Access to Recreation Facilities; NPD: Neighborhood Schools Community Wellbeing Framework (2018): Economic Domain, Complete Community 2A Whitby Green Standard v1 (2020): HH.V.3 (Site Plan) 					

BE-2: MIXED-USE DEVELOPMENT					
Intent:	To support locating housing, services, recreation, schools, shopping, jobs, work space, and other amenities on the same lot or block to facilitate wise use of land, make it easier for people to walk or cycle to these destinations, and reduce auto dependency.				
Applicable to:	×	Block Plan	☑ Draft P	lan of Subdivision	⊠ Site Plan
Аррисавіе ю.	□ Residential		⊠ Mixed Use		☐ Industrial, Commercial, Institutional
	Points	Requirement		Documentation	
Good:	1 point	A mix of uses is provided on the same lot or block.		On the Block Plan, Draft Plan, or Site Plan Drawing identify: The mix of uses within the proposed development.	
References:	LEED ND (v4) NPD: Mixed-Use Neighborhoods; NPD: Compact Development Community Wellbeing Framework (2018): Economic Domain, Local Economy 4A				

	BE-3: HOUSING DIVERSITY						
Intent:	To encourage a range of housing options and facilitate aging in place.						
Applicable to		⊠ Block Plan	⊠ Draft Pla	an of Subdivision	⊠ Site Plan		
Applicable to:	ı	⊠ Residential	⊠!	Mixed Use	☐ Industrial, Commercial, Institutional		
	Points	Requiremen	nt		Documentation		
- 140	Ownership Type						
Good (*):	2 points	2 points At least 10% of affordable/low income or purpose-built rental housing is provided.		In the Block Plan, Draft Plan, or Site Plan Drawing identify: The percent (%) of the Ownership Type, Housing Type, and/or Accommodation			
	Housing Type			Type included in the proposed development. The total percent (%) by category should each add up to 100%.			
Good:	1 point	Two of the housing typologies listed below are provided: Single detached, Semi detached, Townhouse, Mid-rise, High-rise, and/or Additional dwelling unit within a single detached, semi detached or townhouse dwelling (e.g. second unit, secondary suite).		On the Block Plan, Draft Plan, or Site Plan Drawing identify: Ownership Types Housing Types, and/or Accommodation Types Note: (*) Good level metric under Ownership is not applicable for Block Plans. For the definition of affordable housing, refer to the applicable Regional Off Plan, Municipal Official Plan, or Provincial Policy. Where there is a conflict between Provincial Policy and a municipal Official			
Great:	+1 additional point (total 2 points)	Three of the housing typologies liste Single detached, Semi detached,	ed below are provided:	Provincial policy takes pre	•		

		 Townhouse, Mid-rise, High-rise, and/or Additional dwelling unit within a single detached, semi detached or townhouse dwelling (e.g. second unit, secondary suite).
Excellent:	+ 1 additional point (total 3 points)	Four or more of the housing typologies listed below are provided: Single detached, Semi detached, Townhouse, High-rise, and/or Additional dwelling unit within a single detached, semi detached or townhouse dwelling (e.g. second unit, secondary suite).
		Accommodation Type
Good:	1 point	Two accommodation types listed below are provided: Live-work, Purpose-built rental, Studio, 1 bedroom, and/or 2 or more bedrooms.
Great:	+1 additional point (total 2 points)	More than two accommodation types below are provided: Live-work, Purpose-built rental, Studio, 1 bedroom, and/or 2 or more bedrooms.
References:	LEED ND (v4) NCommunity Wel	(2018): 29 (Draft Plan of Subdivision); 33 (Site Plan) IPD: Housing Types and Affordability Ibeing Framework (2018): Economic Domain, Affordability 1A tandard v1 (2020): ELE1.1, ELE.V.1, ELE.V.2 (Draft Plan of St

	BE-4: COMMUNITY AND NEIGHBOURHOOD SCALE					
Intent:	To focus retail, personal, and community services within community core areas (neighbourhood centre and mixed-use node) so that people can meet their daily needs within their communities.					
Applicable to:	ı	⊠ Block Plan	☑ Draft	Plan of Subdivision	□ Site Plan	
Applicable to:	E	☑ Residential		☑ Mixed Use	☐ Industrial, Commercial, Institutional	
	Points	Requirement			Documentation	
	3 points	The proposed community form is hierarchy listed below: Community: contains a mix the cluster of neighbourhoo higher residential densities, employment opportunities, transit.	ed use node central to ds that should include retail, and			
Excellent:	3 points	employment opportunities, and served by public transit. The proposed community form is structured to contain: Neighbourhood(s): defined by 400 meter radius (5 minute walk) from the neighbourhood centre to the neighbourhood perimeter with a distinct edge or boundary defined by other neighbourhoods or larger open spaces. AND Neighbourhood Centre(s): a distinct centre with a compatible mix of uses that should include a neighbourhood park, high or medium residential		Urban Design Brief (Draft Plan) surrounding area that identifies Community mixed use noc Uses and densities within the Neighbourhood Centre and	de and the cluster of surrounding neighbourhoods. the mixed use node.	
References:	-	densities, and retail or come school, library). Health Background Study Developn tandard v1 (2020): TT.V.3 (Draft Pla	nent of a Health Backgr	ound Study Framework, May 2011.		

	BE-5: CULTURAL HERITAGE CONSERVATION						
Intent:	Intent: To conserve cultural heritage resources, including built heritage resources (listed or designated), cultural heritage landscapes (listed or designated), and archaeological resources.						
Applicable to:	×	l Block Plan	☑ Draft Pl	an of Subdivision	⊠ Site Plan		
/ ipplicable to:	×	Residential		Mixed Use	☑ Industrial, Commercial, Institutional		
	Points	Requireme	ent		Documentation		
Excellent:	3 points	The cultural heritage resource is conserved, and no elements that contribute to its cultural heritage value are demolished, removed, or relocated (excluding temporary removal for restoration purposes).		In the Cultural Heritage Impact Assessment, Heritage Conservation Plan and/or other documents acceptable to the municipality, provide: An outline of the cultural heritage attributes that contribute to the cultural heritage value and confirm that no portions of the resource that contribute to its cultural heritage value are to be demolished, removed, or relocated. Note: For the purposes of this metric, "conserved" means: The identification, protection, management and use of cultural heritage resources in a manner that ensures their cultural heritage value or interest is retained under the Ontario Heritage Act. This may be achieved by the implementation of recommendations set out in a Cultural Heritage Impact Assessment, Heritage Conservation Plan, Archaeological Assessment, and/or other documentation accepted by the municipality. Mitigated measures and/or alternative development approaches can be included in these plans and assessments. Conservation and conserve have corresponding meanings. The Standards and Guidelines is the guiding document for the conservation of cultural heritage resources in Canada			
Great (*):	2 points	A portion of the cultural heritage resource is retained, and the integrity of the cultural heritage resource is conserved.		cultural heritage resources in Canada. In the Cultural Heritage Impact Assessment, Heritage Conservation Plan, and/or other document accepted by the municipality, provide: • An outline of the attributes that contribute to the cultural heritage value, identification of the portion(s) of the cultural heritage resource to be conserved, an rationale demonstrating that the integrity of the cultural heritage resource is being conserved. Note: • (*) This metric is not applicable for Block Plans. For the purposes of this metric, "integrity" means: • A measure of its wholeness and intactness of the cultural heritage values and attributes. • Examining the conditions of integrity requires assessing the extent to which the property/cultural heritage resource includes all elements necessary to express its cultural heritage value; is of adequate size to ensure the complete representation of the features and processes that convey the cultural heritage resource's significance; and the extent to which it suffers from adverse affects of developmer and/or neglect.			

			 Integrity should be assessed within the Cultural Heritage Impact Assessment, or other documentation accepted by the municipality.
Good:	1 point	Where a cultural heritage resource is being relocated, it is being moved to a visually prominent location within the proposed development.	In the Cultural Heritage Impact Assessment, Heritage Conservation Plan and/or other documents acceptable to the, identify: The proposed location of the cultural heritage resource that ensures its visual prominence.
Good (*):	1 point	Where reusable materials from a cultural heritage resource is being removed, a portion is being salvaged and reused within the proposed development.	In the Cultural Heritage Impact Assessment, Heritage Conservation Plan and/or other documents acceptable to the municipality identify: The materials that will be salvaged and how they will be reused on site. Note: (*) This metric is not applicable for Block Plans. The reuse of the salvaged materials should also be demonstrated in appropriate supporting documents (e.g. site plan drawings, landscape plan).
References:	Whitby Green StanLEED ND v4 GIB: I	ing Framework (2018): Cultural Domain, Cultural Vitality 1E dard v1 (2020): CC1.2 (Draft Plan of Subdivision), CC1.3 (Historic Resource Preservation and Adaptive Reuse 118): 31 (Draft Plan of Subdivision); 36 (Site Plan)	

	BE-6: URBAN TREE CANOPY AND SHADED WALKWAYS/SIDEWALKS					
Intent:	To provide street trees benefits.	To provide street trees that create a more pleasant pedestrian environment and mitigate the urban heat island effect. Street trees provide ecosystem services and health benefits.				
Applicable to:		∃ Block Plan	□ Draft P	lan of Subdivision	⊠ Site Plan	
Аррисавіе ю.	×	Residential	⊠ Mixed Use		☑ Industrial, Commercial, Institutional	
	Points	Requirement		Documentation		
Good:	1 point	Trees will shade at least 50% of the walkway/sidewalk lengths within 10 years.		On the Landscape Plan identify: The total length of existing and or planned sidewalk in the proposed developmer and the total length of existing and or planned sidewalk with trees abutting the sidewalk, measured as a percentage of sidewalk length.		
Great:	+1 additional point (total 2 points)	Trees will shade at least 75% of the walkway/sidewalk lengths within 10 years.		Note: New trees will be selected in accordance with the applicable municipal guideling and standards (e.g. species, size, diameter breast height, etc.).		
Great:	2 points	Trees will shade at least 50% of years.	parking areas within 10	On the Landscape Plan identify: The total parking area, and the parking area that will be shaded by the tree cand and quantified as a percentage.		

Good:	1 point	Street trees are provided on both sides of street at intervals averaging no more than 9 metres, where supported by the municipality.	On the Landscape Plan identify:		
Excellent:	+ 2 additional points (total 3 points)	Street trees are provided on both side of streets within the project at distance intervals averaging 8 metres or less, where supported by the municipality.	The distance of intervals between street trees.		
References:	References: LEED ND (v4) NPD: Tree-Lined and Shaded Streetscapes Toronto Green Standard v3 Tier I: Ecology (EC1.3) (CF, LR, MHR); Tier II: Ecology (EC1.5) (LR, MHR)				

BE-7: SALT MANAGEMENT					
Intent:	To reduce the use	of salt and its negative impacts on wat	er bodies, soils, vegetation	n, wildlife, buildings, and vehicles	s.
Applicable to:		□ Block Plan	□ Draft Pl	an of Subdivision	⊠ Site Plan
Applicable to.	☑ Residential		⊠ !	Mixed Use	☑ Industrial, Commercial, Institutional
	Points	Points Requirement			Documentation
Good:	2 points	Two of the following measures are provided: 2 to 4% grade throughout all outdoor parking lots to ensure proper drainage and limit refreezing. Use of salt-tolerant species of vegetation in areas that will receive meltwater. Use of trees as windbreaks around the site perimeter. Heated or covered walkways near building entrances. AND Well-planned, designated snow storage area(s) is being provided to ensure meltwater drains as intended in the site design.		Note: Landscape Ontario Horticultura plants: Sea Thrift - Armeria marit Karl Foerster Reed Grass	d to promote salt reduction. al Trades Association lists the following as salt tolerant tima, s – Calmagrostis acutifolia 'Karl Foerster', ianthus pulminarius x allwoodii, us arenarius,
References:	Parking Lot D	esign Guidelines to Promote Salt Redu	uction. Lake Simcoe Regio	on Conservation Authority, 2017.	

		BE-8	: CARSHARE AND CARPO	OOL PARKING			
Intent:		To encourage carpooling and reduce dependence on single-occupant vehicle trips. Carpooling contributes to GHG emission reduction, less air pollution, less congestion, and improved social connections.					
Applicable to:] Block Plan	□ Draft Pla	n of Subdivision	⊠ Site Plan		
Applicable to:	☑ Residential		⊠ Mixed Use		☑ Industrial, Commercial, Institutional		
	Points	Requirement		Documentation			
Good:	1 point	3% of parking spaces on site are and/or carshare/zip car (does not preferred parking for these vehi incorporating signage and/or parking signage.	ot apply to compact cars).	On the Site Plan Drawing, Traffic Study, or Parking Study identify: The total number of parking spaces included per building on the site. The total number parking spaces that are dedicated to carshare/zip car or			
Great:	+1 additional point (total 2 points)	5% of parking spaces on site are dedicated to carpooling and/or carshare/zip car (does not apply to compact cars). Preferred parking for these vehicles is provided by incorporating signage and/or pavement markings.		 carpooling. The percent (%) of parking spaces dedicated to carshare/zip car or carpooli The dedicated parking spaces and highlight proximity/preferred location related building entry. 			
References:	LEED ND (v4) LTLEED BD+C (v4)Whitby Green Sta	tandard v3 Tier I: Air Quality (AQ1 F: Reduced Parking Footprint LT: Reduced Parking Footprint andard v1 (2020): TT1.8 (Site Plar 2018): 29 (Site Plan)					

	BE-9: SURFACE PARKING FOOTPRINT						
Intent:	•	To promote efficient use of land and support on-street retail and pedestrian-oriented built environments. Surface parking can block access and visibility to homes and businesses. Minimizing or carefully locating surface parking can result in more pedestrian-friendly and valuable streetscapes.					
Applicable to:	Г	□ Block Plan	□ Draft Pl	an of Subdivision	⊠ Site Plan		
Аррисаые ю.	⊠ Residential		⊠ Mixed Use		☑ Industrial, Commercial, Institutional		
	Points	Requirement		Documentation			
Good:	1 point	All surface parking on site is loca buildings.	ted at the side or rear of	Note: Should aim for no more the	tify: I the surface parking location(s). In an 20% of the total development area dedicated to off- ilities, and surface parking lot should not be larger than 2		

Great:	2 points	Less than 15% of the total developable area is provided to parking at grade and is located at the rear or side of buildings.	 On the Site Plan Drawing identify: The building frontage and the surface parking location(s). The total area dedicated to surface parking/parking facilities and the total area of the proposed development. The percent (%) of site area allocated to surface/facility parking. 		
Excellent:	3 points	All new on-site parking is provided below grade or in structured parking, and no surface parking is provided.	On the Site Plan Drawing identify: The location of all parking. Note: For this metric, surface parking facilities include ground-level garages unless they are under habitable building space. Underground or multi-story parking facilities within the habitable building space and on-street parking spaces are exempt from this limitation. Excludes spaces dedicated to short-term parking and pickup/drop-off.		
References:	LEED BD+C (v4)Whitby Green Sta	Reduced Parking Footprint LT: Reduced Parking Footprint andard v1 (2020): TT1.9 (Site Plan) 2018): 31 (Site Plan)			

	BE-10: ELECTRIC VEHICLE CHARGING STATIONS							
Intent:	To facilitate the uptake	o facilitate the uptake and use of electric vehicles.						
Applicable to:	С	□ Block Plan	☑ Draft Pla	an of Subdivision	⊠ Site Plan			
Applicable to.	×	l Residential	⊠ I	Mixed Use	☑ Industrial, Commercial, Institutional			
	Points	Requirement			Documentation			
Good:	3 points	Electric vehicle supply equipmen serve 10% of parking spaces.	t (EVSE) is provided to	On the Site Plan Drawing, Traffic Plan, or Parking Study identify: The number of total parking spaces included per building on the site. The number of total parking spaces that will be provided with EVSE. The percentage of parking spaces that will be provided with EVSE. Signage that will indicate parking spot offers EVSE. For Draft Plan and Site Plan Applications: A Letter of Commitment signed by a qualified professional (e.g. professional				
Great:	+2 additional points (total 5 points)	Electric vehicle supply equipmen serve 20% of parking spaces.	t (EVSE) is provided to	engineer) and the owner/developer/builder confirming the number of EVSE provided and the percent of parking spaces with EVSE. Note: • Electric vehicle supply equipment (EVSE) is defined by the Ontario Electrical Safety Code as the complete assembly consisting of cables, connectors, devia apparatus, and fittings, installed for power transfer and information exchange between the branch circuit and the electric vehicle. For the requirements of this				

Excellent:	2 points	At least 50% of the parking spaces are designed and constructed to permit future EVSE installation (e.g. roughin).	 metric, applicants are encouraged to consult with the local municipality to determine the appropriate level or equivalent for EVSE. Rough-in provisions are defined as empty raceways starting in a junction box in the electrical room and terminating in a junction box central to each parking floor. Raceways will be empty to accommodate future wiring. Establishing electric vehicle charging stations are achieved by agreement at the development stage and implementation at the building stage. It is important for developers and builders to agree to install electrical vehicle charging stations prior to commitment. 			
References:	 Toronto Green Standard v3 Tier I: Air Quality (AQ1.3) (CF, MHR) Whitby Green Standard v1 (2020): TT1.10 (Draft Plan of Subdivision); TT1.15 (Site Plan) LEED BD+C v4 LT: Electric Vehicles Thinking Green (2018): 27 (Draft Plan of Subdivision); 30 (Site Plan) 					

MOBILITY

MB-1: BLOCK LENGTH						
Intent:		cks that increase permeability, offesidential and commercial lot sizes.	= -		destination(s), and to allow blocks with the flexibility to nce on vehicles.	
Applicable to:	⊠ Block Plan		⊠ Draft Pla	an of Subdivision	□ Site Plan	
Applicable to:	☑ Residential		⊠ Mixed Use		☑ Industrial, Commercial, Institutional	
	Points	Requirement			Documentation	
Good:	1 point	75% of block lengths do not exceed 250 meters.		On the Block Plan or Draft Plan Drawing identify: Measurement of the block lengths for all blocks included in the proposed development.		
Great:	+1 additional point (total 2 points)	All block lengths do not exceed 2	250 meters.	 The percentage (%) of block lengths that are less than 250 meters. Note: Blocks are determined by roads/streets, and not pathways or trails. 		
Excellent:	+1 additional point (total 3 points)	All blocks do not exceed 80 meters by 150 meters in size.		On the Block Plan or Draft Plan Drawing identify: Measurement of the block sizes in meters. Note: Blocks are determined by roads/streets, and not pathways or trails.		
References:	 Thinking Green (2018): 19 (Draft Plan of Subdivision) Region of Peel, Health Background Study (2011), Core Element 4: Street Connectivity Whitby Green Standard v1 (2020): TT1.7 (Draft Plan of Subdivision) 					

MB-2: SCHOOL PROXIMITY TO TRANSIT AND CYCLING NETWORK							
Intent:		To encourage students to walk, cycle, and/or take transit to school to reduce vehicle use, and decrease traffic congestion at school sites. Walking, cycling, and transit use result in GHG emissions savings and less air pollution. Walking and cycle also provide health benefits.					
Annliaghla tar	⊠ Block Plan		☑ Draft Plan of Subdivision		☐ Site Plan		
Applicable to:	☑ Residential		⊠ Mixed Use		☑ Industrial, Commercial, Institutional		
	Points	Requirement		Documentation			
Good:	1 point	All public schools are located with distance to transit routes and/or or	•	In the Community Design Guidelines (Block Plan) or Community Design Guidelines/ Urban Design Brief (Draft Plan) provide a map that identifies:			
Great:	+1 additional point (total 2 points)	All public schools are located within a 200 meter walking distance to transit routes and/or dedicated cycle networks.		 Radial circles to illustrate 400 meters and 200 meters from each school, Locations of the proposed development, Existing or planned public school(s), Existing or planned transit stops, and Existing or planned dedicated cycle network(s). 			

Region of Peel, Healthy Background Study Framework (2011)

Whitby Green Standard v1 (2020): TT.V.3 (Draft Plan of Subdivision)

			MB-3: INTERSECTION	DENSITY			
Intent:		To encourage shorter blocks and increase permeability and connectivity offering pedestrians and cyclists multiple routes to reach their destination(s). Walkable blocks improve connectivity and reduce dependence on vehicles.					
Annlinable to	Σ	☑ Block Plan	⊠ Draft Pl	an of Subdivision	☐ Site Plan		
Applicable to:	☑ Residential		⊠ Mixed Use		☑ Industrial, Commercial, Institutional		
	Points	Requirement			Documentation		
Good:	1 point	40-50 multi-use trails, paths, and/or streets intersections are provided per square kilometer (sq. km.).		In the Community Design Guidelines (Block Plan) or Community Design Guidelines/ Urban Design Brief (Draft Plan) provide a map that identifies: The eligible intersections. Each square kilometers. The number of eligible intersections within the proposed development per square			
Great:	+1 additional point (total 2 points)	51-60 multi-use trials, paths, and are provided per square kilomete		Note: Eligible intersections include: Multi-use trails, cycling paths, walking paths, publicly accessible streets, laneways, and transit right-of-ways. Non-Eligible intersections generally include intersections where you must enter and			
Excellent:	+2 additional points (total 4 points)	1.	61 multi-use trails, paths, and/or streets intersections are provided per square kilometer (sq. km.).		leave an area through the same intersection, for example, cul-de-sacs and gated street entrances. Square kilometre is defined as the total area of land available for development, similar to the net developable area, and its calculation excludes water bodies, parks larger than 0.2 hectares, natural heritage system lands, public facility campuses, airports, existing and proposed 400-series highways, and rail yards.		
References:	` ,	PD: Connected and Open Commu andard v1 (2020): TT.V.1 (Draft Pla	•				

MB-4: WALKABLE STREETS							
Intent:		To encourage walking through the provision of safe and comfortable street environments. Walkable streets reduce the dependence on vehicles, improve safety, enhance connectivity, and are an important component for healthy and complete communities.					
Applicable to:	⊠ Block Plan		☑ Draft Plan of Subdivision		⊠ Site Plan		
Applicable to.	⊠ Residential		⊠ Mixed Use		☑ Industrial, Commercial, Institutional		
	Points	Requirement		Documentation			
Good:	2 points	Where not a mandatory requirement, and where supported by the municipality, continuous sidewalks or multi-use trails are provided on both sides of public and private roads/streets.		On the Block Plan, Draft Plan or Site Plan Drawing identify: Continuous sidewalk or multi-use trail on both sides of public and private roads/streets. How sidewalks comply with Municipal Standards.			
References:	 LEED (v4) ND NPD: Walkable Streets Whitby Green Standard v1 (2020): TT1.5 (Draft Plan of Subdivision); TT1.6 (Site Plan) Thinking Green (2018): 23 (Draft Plan of Subdivision, Site Plan) 						

			MB-5: PEDESTRIAN A	MENITIES			
Intent:	pedestrian connection	To promote amenities that contribute to a positive pedestrian experience and ensure destinations in communities are connected through convenient, safe, and accessible pedestrian connections. Walkable connections can contribute to the wellbeing of residents of all ages and abilities, help to reduce dependence on vehicles and limit air pollution and GHG emissions.					
Annliachta ta	С	∃ Block Plan	□ Draft F	Plan of Subdivision	⊠ Site Plan		
Applicable to:	×	☑ Residential		Mixed Use	☑ Industrial, Commercial, Institutional		
	Points	Requirement		Documentation			
Good:	1 point	Pedestrian connections are provientry and other destinations on the destinations on adjacent propertion. AND 1 type of pedestrian amenity is coalong on-site connections.	ne site and to es.	On the Landscape Plan identify: The pedestrian connections that link a building entry to destinations on site and destinations on adjacent properties. The pedestrian amenities provided along the pedestrian connections. Note: Amenities include: benches, pedestrian oriented lighting, waste receptacles, put			
Great:	+1 additional point (total 2 points)	More than 1 type of pedestrian ar	ng on-site connections. re than 1 type of pedestrian amenity is consistently vided along on-site connections and between the site		ive/commemorative signage, and weather shelters. kways, transit stops, parking areas (vehicle and bicycle), s, schools, community centres, and commercial areas. re only required to be built to the site boundary and not e connection possibilities). aces (POPs) would incorporate multiple pedestrian roposal considered under the Innovation metric.		
References:	Toronto Green S	tandard v3 Tier I: Air Quality (AQ3.	1) (CF, MHR)				

MB-6: BICYCLE PARKING								
Intent:	To facilitate cycling an	To facilitate cycling and reduce dependence on vehicle use.						
Amuliachla ta c	С	□ Block Plan	□ Draft Pl	an of Subdivision	⊠ Site Plan			
Applicable to:	×	Residential			☑ Industrial, Commercial, Institutional			
	Points	Requirement			Documentation			
Good:	1 point	Bicycle parking spaces are provided than municipal standards/guidelines.	•	On the Site Plan Drawing and/ Building types included in	or Floor Plan identify: the proposed development (e.g. mixed-use, residential,			
Great:	+1 additional point (total 2 points)	Bicycle parking spaces are provided than municipal standards/guidelines.	_	 building types included in the proposed development (e.g. mixed-use, residential, commercial, retail, and institutional). Location of bicycle parking. Total number of bicycle parking spaces required by the municipal standard/guideline. Total number of bicycle parking spaces provided per building. Percent of total bicycle parking provided relative to the municipal standard/guideline. Distance of bicycle parking to building entrances and exists. Weather protection provided for bicycle parking area, where applicable. For additional guidance, refer to Brampton's SNCP Active Transportation Guidelines which includes Bicycle Parking rates. 				
Excellent:	2 points	Bicycle parking is located in close prentrances. Short-term bicycle parking meters of a building entrance if outdo bicycle parking is located within 50 mexit or entrance. AND All bicycle parking is weather protect	g is located within 25 oors. Long-term neters of a building					
Excellent	1 point	1 shower and change room are provided (for men and women) per 30 bicycle parking spaces associated with non-residential development.		Letter of Commitment with an accompanying Floor Plan signed by the architect and the owner/developer/builder confirming the number of showers and changes rooms that we be provided in the development.				
References:	Whitby Green StateThinking Green In	peing Framework (2018): Environment andard v1 (2020): TT1.2, TT1.12, TT1. tem (2018): 25 (Site Plan) tandard v3 Tier I: Air Quality (AQ2.2, A	13 (Site Plan)	R); Tier II: Air Quality (AQ2.5) (M	IHR)			

		MB-7:	TRAILS AND CYCLING I	NFRASTRUCTURE			
Intent:	i i	To implement pedestrian and cycling infrastructure that further promotes active forms of transportation. Walking and cycling results in GHG emissions savings and less air pollution, as well as health benefits.					
Annella abla dan	×	Block Plan	☑ Draft Pl	lan of Subdivision	⊠ Site Plan		
Applicable to:	⊠ Residential		⊠ Mixed Use		☑ Industrial, Commercial, Institutional		
	Points	Requirement		Documentation			
Good:	1 point	Transportation Master Plan and/	Requirement The objectives/actions of the municipal Active Transportation Master Plan and/or Trails/Pathways Master Plan are being implemented.		In the Community Design Guidelines (Block Plan), Community Design Guidelines/ Urban Design Brief (Draft Plan), or Active Transportation Context Map (Site Plan) identify: Existing or planned multi-use trails and/or bicycled lanes located in the proposed development. If applicable, the multi-use trails and/or bicycle lanes that comply with the municipal active transportation/trails master plan. If applicable, additional features that will advance the objectives and/or actions of the active transportation/trails master plan (e.g. trailheads, trail signs, information signage, and/or seating areas). For additional guidance, refer to Brampton's SNCP Active Transportation Guidelines.		
References:	Whitby Green Sta	peing Framework (2018): Environm andard v1 (2020): TT1.2 (Draft Pla 2018): 25 (Draft Plan of Subdivisio	n of Subdivision, Site Plan				

		MB-8	: ACTIVE TRANSPORT	ATION NETWORK			
Intent:		To promote active transportation through the provision of public multi-purpose trails/paths and cycling infrastructure. Cycling results in less vehicle dependence, and associated reduction in GHG emissions and air pollution. It also provides health benefits.					
Applicable to:	⊠ Block Plan		☑ Draft Plan of Subdivision		⊠ Site Plan		
Applicable to.	⊠ Residential		⊠ Mixed Use		☑ Industrial, Commercial, Institutional		
	Points	Requireme	ent		Documentation		
Good:	2 points	Requirement 100% of residents/jobs are within 400 meters of: An existing public multi-use trail or cycling infrastructure; or A municipally approved public multi-use trail or cycling infrastructure (identified in a Council approved trail/cycling master plan, but not yet constructed); or A proposed public multi-use trail or cycling infrastructure that is proposed within the development.		Urban Design Brief (Draft Plan Provide a map showing the of the subject lands, and For additional guidance, reguidelines. Note:	delines (Block Plan), Community Design Guidelines/ n), Active Transportation Context Map (Site Plan): he subject lands, a 400 meter buffer from the boundaries any existing or planned cycling networks. refer to Brampton's SNCP Active Transportation		
References:	Community Wellt	peing Framework (2018): Environm	ent Domain, Mobility 3B				

		М	B-9: DISTANCE TO PUB	LIC TRANSIT		
Intent:		To promote and support alternative transportation modes to personal automotive vehicle use. Transit-oriented communities reduce vehicle-kilometres traveled and associated emissions, have reduced traffic casualty rates, and support walking and cycling which improves community health.				
Applicable to:	☐ Block Plan					
	×	⊠ Residential		Mixed Use	☑ Industrial, Commercial, Institutional	
	Points	Requireme	ent		Documentation	
Good:	1 point	The site is within 800 meters walking distance to an		Context Map (Site Plan): Include a map that shows the existing or planned co frequent service.	elines/Urban Design Brief (Draft Plan) or Public Transit the 200 meter, 400 meter, and/or 800 meter radius and mmuter rail, subway, light rail, and bus stops with efer to Brampton's SNCP Active Transportation	

Great:	+1 additional point (total 2 points)	The site is within 400 meters walking distance to an existing or planned commuter rail, light rail, bus rapid transit, or subway with frequent stops. OR The site is within 200 meters walking distance to 1 or more bus stops with frequent service.	 Frequent Service is defined as transit with trips in intervals no greater than 30 minutes during peak times per line per direction and available during hours of typical building operation. 	
References:	 LEED ND (v4) LT: Access to Quality Transit Community Wellbeing Framework (2018): Environment Domain, Mobility 3B Whitby Green Standard v1 (2020): TT.V.3, TT1.6 (Draft Plan of Subdivision); TT.V.3, TT1.7 (Site Plan) Thinking Green (2018): 26 (Draft Plan of Subdivision); 27 (Site Plan) 			

MB-10: TRAFFIC CALMING							
Intent:		To encourage active transportation through the provision of safe, walkable streets by reducing car speeds. Walkable streets and traffic calming measures can provide a safer and more comfortable streetscape to cyclists and pedestrians, and help to reduce traffic speeds, volumes, and related emissions.					
Applicable to:	□ Block Plan ☑ Residential		☑ Draft Plan of Subdivision ☑ Mixed Use		⊠ Site Plan ⊠ Industrial, Commercial, Institutional (*)		
	Points	Requirement			Documentation		
Good:	1 point	75% of local streets/roads are de calming strategies.	proposed development, as applicable.		s applicable.		
Great:	+2 additional points (total 3 points)	100% of local streets/roads are designed with traffic calming strategies.		 Identify the percentage (%) of street length (broken out by residential only and residential/mixed use) that includes street calming strategies developed in consultation with municipal transportation planning staff. Provide a drawing identifying the traffic calming strategies that will be provided 			
Good:	1 point	50% of non-residential and/or mix designed with traffic calming strat		Industrial, Commercial, Ins	·		
Great:	+2 additional points (total 3 points)	75% of new non-residential and/odesigned with traffic calming strate		 Traffic calming strategies include but are not limited to: Neckdowns, Centre island narrowing, Raised crosswalks, Traffic circles and roundabouts, Speed display boards/vehicle activated traffic calming signs (V. 			
References:	 Whitby Green Sta 	andard v1 (2020): TT1.4 (Draft Plan	of Subdivision, Site Plan	1)			

NATURAL ENVIRONMENT & PARKS

	NE-1: TREE CONSERVATION					
Intent:	To support the conservation of healthy mature trees and the associated ecological, economic, and healthy benefits. Preserving trees can be a cost-effective method to improve the overall appearance of a community while providing ecological and climate change benefits.					
Amplicable to	⊠ Block Plan		⊠ Draft Pla	an of Subdivision	⊠ Site Plan	
Applicable to:	☑ Residential		⊠ Mixed Use		☑ Industrial, Commercial, Institutional	
	Points	Requirement		Documentation		
Good:	3 points	Preserve 25% of healthy, mature	tableland trees in situ.	 In the Vegetation Assessment (Block Plan) or Tree Evaluation Report (Draft Plan and Site Plan): Identify all tableland trees as per municipal standards. Label all the healthy mature tableland trees, including hedgerows, on the subject site, as well as the trees that will be protected, moved, or removed as per municipal standards. 		
Great:	+2 additional points (total 5 points)	Preserve 50% of healthy, mature preserve 100% of healthy hedge		 Provide the percent (%) of healthy tableland trees that will be protected in situ. Note: This metric applies to tableland trees on the developable portion of the site (e.g. not the protected natural heritage system). Healthy mature trees include those evaluated as being fair or above by a certific Arborist and at least 15 cm DBH (diameter at breast height). 		
References:	Town of Whitby G	Green Standard v1 (2020): LUN1.4	(Draft Plan of Subdivision,	Site Plan)		

NE-2: SOIL QUANTITY AND QUALITY FOR NEW TREES						
Intent:	To provide soil quantit	ty and quality that enables new tree	s to thrive. Higher amounts	s of good quality soil help ensure	the success of vegetation.	
Ampliachle to	□ Block Plan				⊠ Site Plan	
Applicable to:	☑ Residential		⊠ Mixed Use		☑ Industrial, Commercial, Institutional	
	Points	Requirement			Documentation	
Good:	2 points	A minimum of 30 cubic meters (m³) of soil and a minimum of 100 centimeters uncompact soil depth is provided for each new tree. Where there is a grouping of trees, a minimum of 20 cubic meters (m³) of soil and minimum of 100 centimeters of uncompact soil depth is provided for each new tree. 25% more total soil volume than required municipal standard is provided for each new tree.		On the Landscape Plan identify: The tree planting locations, soil volume, soil depth, and soil quality that will be provided for each tree. Note: If the initial submission of the Draft Plan of Subdivision is too early in the development application review process to provide the aforementioned detail provide a Letter of Commitment signed by a landscape architect and the		
Great:	+2 additional points (total 4 points)					

Excellent	Uncompact topsoil layer of tree pits, trenches, or planting beds with the following properties is provided for each new tree: Organic matter content of 10 to 15% by dry weight and a pH of 6.0 to 8.0. A minimum depth of 100 centimeters, or in accordance with municipal standards, whichever is greater. Adequate drainage.	owner/developer/builder confirming that the metric requirement(s) will be achieved, and that the details will be provided in the Landscape Plan during subsequent submissions.		
References:	 Adequate drainage. TRCA (2012) Preserving and Restoring Healthy Soils Best Practice Guide for Urban Construction Credit Valley Conservation (2017) Healthy Soils Guideline for the Natural Heritage System Vineland Research (2019) Ontario Landscape Tree Planting Guide Sustainable Technologies Evaluation Program (STEP) (2017) Compost Amended Planting Soil Specifications Community Wellbeing Framework (2018): Environment Domain, Natural Systems 2A Toronto Green Standard v3 Tier I: Ecology (EC1.1, EC1.2) (CF, LR, MHR); Tier II: Ecology (EC1.6) (LR, MHR) 			

			NE-3: HEALTHY S	SOILS			
Intent:	appropriate for the pro	To ensure that new development contains healthy soil quality and quantity to help restore the natural functions of soils and vegetation and to help ensure the soil is appropriate for the proposed plantings. To reduce disturbance of healthy soil to protect soil horizons and maintain soil structure, as well as to support biological communities above-ground and below-ground).					
Amplicable to	□ Block Plan		☑ Draft Plan of Subdivision		⊠ Site Plan		
Applicable to:	☑ Residential		⊠ Mixed Use		☑ Industrial, Commercial, Institutional		
	Points	Requirement		Documentation			
Good:	1 point	A minimum topsoil depth of 200 r across the entire site (excluding p	•	On the Landscape Plan: Identify the minimum topsoil depth that is provided across the entire site.			
Great:	+1 additional point (total 2 points)	A minimum topsoil depth of 300 r across the entire site (excluding p	•				
References:	 TRCA Preserving and Restoring Healthy Soils Best Practice Guide for Urban Construction CVC's Healthy Soil Guidelines for Natural Heritage System Sustainable Technologies Evaluation Program (STEP) (2017) Compost Amended Planting Soil Specifications Thinking Green (2018): 5 (Draft Plan of Subdivision, Site Plan) 						

NE-4: NATURAL HERITAGE CONNECTIONS						
Intent:	To provide connection by residential develop		nefit human health throug	h proximity or access, and to mini	imize the amount of the natural heritage that is backlotted	
Applicable to:	⊠ Block Plan		⊠ Draft Pl	an of Subdivision	⊠ Site Plan	
Applicable to:	×	l Residential	⊠ Mixed Use		☑ Industrial, Commercial, Institutional	
	Points	Requirement			Documentation	
Good:	2 points	Physical public connections (suc blocks, single loaded roads, park provide for 25% of the length of t system that abuts the proposed of between development and natural	s, sidewalks, etc.) is he natural heritage development (interface	In the Community Design Guidelines (Block Plan) or Landscape Plan (Draft Plan and Site Plan) identify: The natural heritage features within the proposed development. All roads, sidewalks, pathways, and parks adjacent to any natural heritage features, and include the length of each that directly abuts the natural heritage feature. The length of natural heritage system (all natural heritage features) within the site.		
Great:	+2 additional points (total 4 points)	blocks, single loaded roads, park provided for 50% or more of the heritage system that abuts the pr	hysical public connections (such as public access locks, single loaded roads, parks, sidewalks, etc.) is rovided for 50% or more of the length of the natural eritage system that abuts the proposed development interface between development and natural heritage systems).		 The percentage (%) of the natural heritage system with potential access to the sit has been provided with physical public connections. Note: Percentage (%) of the natural heritage system (NHS) is determined by the length the NHS perimeter. Private yards (e.g. backlotting) and parking lots will not be counted as part of the physical public connection border. 	
References:	Thinking Green It	tem (2018): 2 (Draft Plan of Subdiv	ision, Site Plan)			

NE-5: NATURAL HERITAGE SYSTEM ENHANCEMENTS						
Intent:	To improve natural h	eritage system, particularly with resp	ect to wildlife habitat and/	or ecological functions.		
A U. abla 4	☑ Block Plan ☑ Draft Plan of Subdivision				⊠ Site Plan	
Applicable to:	⊠ Residential		⊠ Mixed Use		☑ Industrial, Commercial, Institutional	
	Points	Requirement			Documentation	
Good (*):	1 point	o o	A Woodland Management Plan is provided and implementation will be commenced, where not already required by the municipality.		n accordance with the municipal Terms of Reference. cable for Block Plans.	
Good (*):	1 point	An Invasive Species Management Plan is provided and implementation will be commenced for a natural heritage feature, where not already required by the municipality.		Invasive Species Management Plan in accordance with the municipal Terms of Reference. Note: (*) This metric is not applicable for Block Plans.		

Good (*):	1 point	Habitat structure(s) for species at risk, such as bird structures, butterfly boxes, and hibernaculum is provided.	In the Environmental Implementation Report/Environmental Impact Study: Outline the design and ecological function of the habitat structure(s). Provide a figure illustrating the proposed locations of the habitat structure(s). Provide a design specification for the habitat structure(s). Note: (*) This metric is not applicable for Block Plans.		
Great	2 points	Natural heritage restoration/enhancement that results in a net ecological gain, above municipal requirements, is provided.	 In the Environmental Implementation Report/Environmental Impact Study: Outline the natural heritage restoration/enhancement, its ecological function(s), and how it achieves a net ecological gain above municipal requirements. Provide a figure illustrating the proposed location(s) of the natural heritage restoration/enhancement. Provide a design specification for the natural heritage restoration/enhancement. 		
Excellent	5 points	A linear continuous/uninterrupted naturalized corridor, not already identified as a natural heritage feature in the Official Plan or through technical studies, that creates a functional linkage between at least two natural heritage features is provided.	 In the Environmental Implementation Report/Environmental Impact Study: Outline the design and ecological function (e.g. wildlife corridor, amphibian passage, and meadow-way/grassland) of the linkage. Provide a plan/figure illustrating the proposed linkage including dimensions, landscape treatment, and the natural heritage features it will be connecting, which will be used to inform detailed design. 		
References:	 TRCA, Invasive Plant List Credit Valley Conservation, Native Plants for Pollinators Toronto Pollinator Protection Strategy, City of Toronto Community Wellbeing Framework (2018): Environment Domain, Natural Systems 2A Whitby Green Standard v1 (2020): LUN1.8, LUN1.9, LUN.V.1, LUN.V.2 (Draft Plan of Subdivision); LUN1.10, LUN1.11, LUN.V.2, LUN.V.3, LUN.V.4 (Site Plan) Thinking Green Item (2018): 1 (Draft Plan of Subdivision, Site Plan) 				

	NE-6: SUPPORTING POLLINATORS						
Intent:	To provide landscape materials that support and provide habitat for pollinators (e.g. birds, bees, butterflies). Without pollinators, much of the food we eat and the natural habitats we enjoy would not exist. Pollinators are under increasing stress due to habitat loss, invasive species, diseases, pesticides, and climate change.						
Applicable to:	□ Block Plan		☑ Draft Plan of Subdivision		⊠ Site Plan		
Applicable to.	⊠ Residential		Mixed Use		☑ Industrial, Commercial, Institutional		
	Points	Requirement		Documentation			
Good:	1 point	Native plants that support pollinators make up 25% of total quantity of plants proposed on the landscape plan.		On the Landscape Plan identify: Native plant species that support pollinators (as per approved lists below) and the quantities. Percentage of native pollinator plants relative to all plants proposed within the Landscape Plan.			

Great:	+1 additional point (total 2 points)	Native plants that support pollinators make up 50% of the total quantity of plants proposed on the landscape plan.	Note: Pollinator plant species must be selected from the Credit Valley Conservation "Native Plants for Pollinators", Toronto and Region Conservation Authority "Maintaining Your Pollinator Habitat" or alternative list approved by the municipality.			
References:	 Credit Valley Conservation, Native Plants for Pollinators, https://cvc.ca/wp-content/uploads/2017/04/17-uo-nativeplantsforpollinators-booklet-v8-web.pdf Toronto Pollinator Protection Strategy, City of Toronto, https://trca.ca/app/uploads/2016/04/PollinatorMaintenanceGuide_WEB.pdf TRCA, Creating Habitat, https://trca.ca/app/uploads/2016/04/2602-Stewardship_Habitat-SinglePg_PRESS.pdf Community Wellbeing Framework (2018): Environment Domain, Natural Systems 2A Whitby Green Standard v1 (2020): LUN1.7 (Draft Plan of Subdivision); LUN1.8, LUN1.9 (Site Plan) Toronto Green Standard v3 Tier I: Ecology (EC3.1) (CF, LR, MHR) 					

		NE-7: DEDIC	CATED FRUIT/VEGETA	BLE GARDEN SPACE				
Intent:	To promote locally grown food, improve physical and mental wellbeing, and to encourage social interaction.							
Amplicable to	□ Block Plan		☑ Draft Plan of Subdivision		⊠ Site Plan			
Applicable to:	⊠ Residential		⊠ Mixed Use		$\hfill\Box$ Industrial, Commercial, Institutional			
	Points Requirement			Documentation				
Good:	For multi-unit residential developments, the following is provided: Garden space that is equal to 25 square metres (or 250 square feet) of the rooftop or total landscaped site area. A shed for gardening equipment storage. A water source for the garden space. For ground-oriented residential developments: With yards: For each residential lot, a raised garden bed that is at least 12 inches tall, 4 feet wide, and 6 feet long is provided. Without yards: For each unit, a container garden that can accommodate 15 gallons of soil and are at least 12 inches deep is provided.		 On the Landscape Plan: Determine the total landscaped area of the project. Specify the total area of garden space provided. Identify supportive garden infrastructure (e.g. shed and water source). Note: Garden space is defined as land and/or an alternative mechanism with a growing medium that will be used to cultivate plants for food. Garden beds must provide at least 12 inches of garden soil depth (this garden so will be provide above the standard topsoil). Achieving this metric for Industrial, Commercial Institutional may be considered under the Innovation indicator. 					
References:	 Living Community Challenge 1.2, Place: Urban Agriculture LEED ND (v4) NPD: Local Food Production Town of Whitby Green Standard v1 (2020): LSF1.1 (Draft Plan of Subdivision); LSF1.1, LSF.V.1 (Site Plan) 							

			NE-8: PARK ACC	ESS		
Intent:	To promote visual and physical access to public parks and to make it easier for people of all ages and abilities to integrate physical activity and social interaction into their daily activity.					
Applicable to:	⊠ Block Plan		☑ Draft Plan of Subdivision		⊠ Site Plan	
Applicable to:	☑ Residential		⊠ 1	Mixed Use	☑ Industrial, Commercial, Institutional	
	Points	Requirement		Documentation		
Good:	3 points	2 road frontages are provided for square, parkette, and neighborho		Site Plan):	idelines (Block Plan) or Landscape Plan (Draft Plan and es, parkettes, neighborhood parks, and community parks	
Great:	+3 additional points (total 6 points)	3 or more road frontages are pro	vided for each park.	included within the application.		
References:	Whitby Green Sta	andard v1 (2020): HH1.2 (Draft Pla	n of Subdivision, Site Plan)		

NE-9: STORMWATER QUANTITY							
Intent:	To support a treatment-train approach to stormwater management, emphasizing source and conveyance controls to promote infiltration, evaporation, and/or re-use of runoff and/or rainwater. Managing stormwater at the early stages of the treatment-train can provide more resilient communities and reduce risks of downstream flooding and erosion.						
Applicable to:	⊠ Block Plan		☑ Draft Plan of Subdivision		⊠ Site Plan		
Applicable to.	☑ Residential				☑ Industrial, Commercial, Institutional		
	Points	Requirement			Documentation		
Good:	2 points	Retain runoff volume from the 10 millimeter rainfall event on public and private sites.		In the Functional Servicing Report (Block Plan and Draft Plan) or Stormwater Management Plan (Site Plan): List and describe the design measures used to retain stormwater runoff on-service Measures could include (but not limited to) Low Impact Development measures			
Great:	+2 additional points (total 4 points)	Retain runoff volume from the 15 on public and private sites.	millimeter rainfall event				

Excellent:	+3 additional points (total 7 points)	Retain runoff volume from the 25 millimeter rainfall event on public and private sites.	 Confirm that the quantity and flood controls are in accordance with applicable municipal and conservation authority requirements. Calculations and signoff by a qualified professional (e.g. professional engineer) quantifying the amount of runoff that will be retained on site. 		
References:	 Toronto Green Standard v3 Tier II: Water Balance, Quality, and Efficiency (WQ 2.2) (LR, MHR); Tier III: Water Balance, Quality, and Efficiency (WQ 2.3) (LR, MHR), (WQ 2.1) (CF) TRCA's Stormwater Management Criteria TRCA and CVC (2012) Low Impact Development Stormwater Management Planning and Design Guide Vaughan's Urban Design Guidelines Whitby Green Standard v1 (2020): SW1.1, SW1.5 (Draft Plan of Subdivision); SW1.1, SW1.6 (Site Plan) Thinking Green (2018): 8 (Draft Plan of Subdivision); 12 (Site Plan) LEED ND v4 GIB: Rainwater Management LEED BD+C v4 SS: Rainwater Management 				

NE-10: STORMWATER QUALITY							
Intent:		To protect receiving water bodies from water quality degradation that may result from development and urbanization. Controlling the quality of stormwater can provide for improved quality of receiving water bodies, resulting in fewer algae blooms, longer swimming seasons, and a variety of other ecological benefits.					
	⊠ Block Plan		☑ Draft Plan of Subdivision		⊠ Site Plan		
Applicable to:	☑ Residential		⊠ Mixed Use		☑ Industrial, Commercial, Institutional		
	Points	Requirement		Doc	cumentation		
Good:	1 point	80% of Total Suspended Solids (from all runoff leaving the site durainfall event (based on the postimperviousness).	uring a 25 millimeter Management Plan (Site Plan) identify:				
Great:	+4 additional points (total 5 points)	Over 90% of Total Suspended So removed from all runoff leaving the millimeter rainfall event (based or level of imperviousness).	the site during a 25 Highlight the design measures (if any) on a plan		ertified), filters, bioswales. sures (if any) on a plan.		
References:	 Toronto Green Standard Tier I: Water Balance, Quality & Efficiency (WQ 3.1) (CF, LR) TRCA Stormwater Management Criteria TRCA and CVC Low Impact Development Stormwater Management Planning Design (2012) Whitby Green Standard v1 (2020): SW1.1, SW1.3 (Draft Plan of Subdivision); SW1.1, SW1.4 (Site Plan) LEED ND v4 GIB: Rainwater Management LEED BD+C v4 SS: Rainwater Management Thinking Green (2018): 9 (Draft Plan of Subdivision); 11 (Site Plan) 						

			NE-11: POTABLE WA	TER USE		
Intent:	To facilitate the conservation and efficient use of potable water.					
Applicable to:	□ Block Plan		□ Draft P	lan of Subdivision	⊠ Site Plan	
	□ Residential		⊠ Mixed Use		☑ Industrial, Commercial, Institutional	
	Points	Requirem	Requirement		Documentation	
Good:	2 points	Potable water used for irrigation compared to a mid-summer base	-	Letter of Commitment signed by a qualified professional (e.g. architect, profengineer, landscape architect) and the owner/developer/builder that confirm The project will be designed to reduce potable water requirements for The percent (%) reduction in potable water used to irrigate, relative to summer baseline case. For information on how to achieve this credit reveloper to the calculation tool to demonstrate. The strategies used to reduce potable water demands. Strategies inclusion that requires little in the local climate. Use of high-efficiency irrigation, such as drip irrigation. Use of captured rainwater for irrigation. If captured rainwater is used, provide a Letter from a qualification professional (e.g. professional engineer) confirming the professional the calculations to demonstrate the volume of capting expected.		
Great:	+4 additional points (total 6 points)	No potable water is used for irrigation.		 Provide the documentation as requested for "Good", unless no irrigation is being installed. In the case where no irrigation is installed, provide a Letter of Commitment signed by a qualified professional (e.g. architect, professional engineer, landscape architect) and owner/builder/developer confirming that no irrigation will be install past the establishment period and that sod will be allowed to go dormant and brown in off-season months. 		
References:	 LEED ND (v4) WE: Indoor Water Use Reduction; WE: Outdoor Water Use Reduction LEED BD+C (v4.1) WE: Outdoor water use reduction Toronto Green Standard v3 Tier II: Water Balance, Quality & Efficiency (WQ 4.3) (CF, LR, MHR) Community Wellbeing Framework (2018): Environment Domain, Natural Systems 2C Whitby Green Standard v1 (2020): SW1.7 (Site Plan) 					

NE-12: MULTI-PURPOSE STORMWATER MANAGEMENT							
Intent:	To enhance the public use value of stormwater management ponds.						
Applicable to:	□ Block Plan		☑ Draft Plan of Subdivision		⊠ Site Plan		
Аррисавіе ю.	☑ Residential		⊠ Mixed Use		☑ Industrial, Commercial, Institutional		
	Points	Requireme	Requirement		Documentation		
Good:	1 point	Introduce beatification measures/amenities that beautify stormwater management ponds (e.g. public art, interpretive signage) are provided.		Management Plan (Site Plan): Identify beautification meaninfrastructure, etc.) include beyond City's landscape solution. Note: Any proposed measure with management pond.	port (Block Plan and Draft Plan) or Stormwater asures (public art, interpretative signage, visually pleasing ed within the proposed development that are above and specifications and applicable standards. ill not reduce the performance function of the stormwater able beautification measures.		
References:	Appendix E - Store	mwater Management Pond Desigr	n Guidance of TRCA SWM	Criteria document (2012)			

INFRASTRUCTURE & BUILDINGS

		IB-1: BUILDINGS DESIGNE	D/CERTIFIED UNDER ACC	REDITED "GREEN" RATING S	SYSTEM		
Intent:		To recognize leadership and efforts to achieve independent third-party green certification systems that demonstrates high sustainability performance. Sustainability certification systems provide recognizable and verified certifications demonstrating to the public a high degree of sustainability performance is being achieved.					
Applicable to:		Block Plan	⊠ Draft Pla	n of Subdivision	⊠ Site Plan		
Applicable to.	⊠ F	Residential	⊠ N	lixed Use	☑ Industrial, Commercial, Institutional		
	Points	Requiren	nent		Documentation		
Good:	1 to 7 points (1 point per building, total 7 points available)	One or more buildings on site w party green certification system.			and the owner/developer/builder that: system that will be achieved and certified for the		
Excellent:	1 additional point per building	One or more buildings on site w third-party green certification sy		Confirms registration for the third-party green rating system (e.g. receipt of the registration fees). Note: Acceptable third party goeradited green rating systems include:			
Good:	2 points	The development will achieve L equivalent).	EED ND v4 (or	 Acceptable third-party accredited green rating systems include: <u>LEEDv4 or LEEDv4.1</u> (not including LEED for Commercial Interiors) <u>Certified Passive House Building</u> Living Building Challenge 4.0 	ot including LEED for Commercial Interiors) Building		
Excellent:	4 points	The development will achieve C equivalent).	CaGBC Zero Carbon Building Design Standard Version 2 (
References:	 Sustainable Design and Construction Policy for Municipal Buildings Canada Green Building Council Zero Carbon Building Design Standard Version 2, March 2020 York Region Sustainable Development through LEED Incentive Program Thinking Green (2018): 12 (Draft Plan of Subdivision); 15 (Site Plan) 						

	IB-2: ACCESSIBILITY FOR MULTI-UNIT DWELLINGS						
Intent:		To enable a wide spectrum of people to live within and access new buildings, regardless of ability. To provide accessibility to occupants beyond the Ontario Building Code (OBC), which mandates a barrier-free path of travel in 15% of Multi-Residential Units.					
Applicable to:	С	∃ Block Plan	□ Draft P	lan of Subdivision	⊠ Site Plan		
Applicable to.			☑ Mixed Use		☐ Industrial, Commercial, Institutional		
	Points	Requirement		Documentation			
Good:	2 points	For multi unit-residential buildings the Dwelling Units (DU) achieve required in the Ontario Building C	accessibility features	Letter of Commitment signed by an accredited professional (e.g. architect, professi engineer, accessibility consultant) and the owner/builder/developer confirming the percentage of Dwelling Units that will achieve accessibility requirements and the accessibility measure that will be implemented.			
Great:	+1 additional point (total 3 points)	For multi unit-residential buildings, a minimum of 35% of the Dwelling Units (DU) achieve accessibility features required in the Ontario Building Code.		 On the Site Plan Drawing: Identify the total number of units, the number of units that achieve the accessibility features required in the Ontario Building Code, and the total percentage of units that achieve the accessibility features required in the Ontario Building Code. 			
References:	 LEED ND (v4) NPD: Visitability and Universal Design Whitby Green Standard v1 (2020): ELE.V.3 (Site Plan) Thinking Green (2018): 32 (Site Plan) 						

IB-3: BUILDING ACCESSIBILITY (BARRIER FREE ENTRY/EGRESS)						
Intent:	· ·	To enable a wide spectrum of people and access new buildings, regardless of age or ability. Inclusive buildings and neighborhoods expand the number of potential users, thereby increasing value. They also enable more diversity in age of occupants and visitors.				
Applicable to:	[□ Block Plan	□ Draft Pl	an of Subdivision	⊠ Site Plan	
Applicable to.	☑ Residential		⊠ Mixed Use		☑ Industrial, Commercial, Institutional	
	Points	Requirement			Documentation	
Good:	1 point	0 ,	50% of emergency exits above the Ontario Building Code requirements are designed to be barrier free.		Letter of Commitment signed by an accredited professional (e.g. architect, profession	
Great:	+1 additional point (total 2 points)	100% of all entries and exits above the Ontario Building Code requirements are designed to be barrier free.		percentage emergency exits al be barrier free. Include with the Identify all building entran	nces and exits. percentage (%) all building entrances and exits that will	
References:	N/A					

	IE	3-4: EMBODIED CARBON OF BU	ILDING MATERIALS:	SUPPLEMENTARY CEMENTITIOU	IS MATERIALS		
Intent:		To increase the growing awareness of the importance of addressing the embodied carbon and other GHG emissions associated with building materials. Materials can account for significant impact from their production, and reductions are available through selection and design. Often, lower impact materials are also more cost-effective.					
Annilla da la Anni	С	∃ Block Plan	□ Dra	aft Plan of Subdivision	⊠ Site Plan		
Applicable to:	☑ Residential		⊠ Mixed Use		☑ Industrial, Commercial, Institutional		
	Points	Requirement		Documentation			
Good:	1 point	All concrete on site has a minimu Supplementary Cementitious Ma		Letter of Commitment signed by a qualified professional (e.g. professional engined architect) and the owner/builder/developer declaring the percent of Supplementary Cementitious Materials that will be used in all concrete on site. Note: Supplementary cementing materials (SCMs) contribute to the properties of			
Great	+1 additional point (total 2 points)	All concrete on site has a minimum of 40% Supplementary Cementitious Materials (SCMs).		hardened concrete through hydraulic or pozzolanic activity. Examples include fly ashes, slag cement (ground, granulated blast-furnace slag) and silica fume. The can be used individually with Portland or blended cement or in different combinations. SCMs are often added to concrete to make concrete mixtures mo economical, reduce permeability, increase strength, or influence other concrete properties.			
References:	N/A						

	IB-5: EMBODIED CARBON OF BUILDING MATERIALS: LIFE CYCLE ASSESSMENT						
Intent:	To increase the growing awareness of the importance of addressing the embodied carbon and other GHG emissions associated with building materials. Materials can account for significant GHG emissions from their production, and reductions are available through careful selection and design. Lower impact materials can also more cost-effective.						
Applicable to:		☐ Block Plan	□ Draft Pl	an of Subdivision	⊠ Site Plan		
Applicable to:	⊠ Residential		⊠ Mixed Use		☑ Industrial, Commercial, Institutional		
	Points	Requirement		Documentation			
Great:	1 point	Embodied carbon emissions for the structural and envelope materials for every Part 3 buildings on site is being reported using a lifecycle assessment software, such as Athena Impact Estimator for Buildings Life Cycle Assessment (LCA) software or equivalent. Consider three methods to reduce the embodied carbon content of each building reviewed.		architect) and the owner/builde considered to reduce the embo letter the LCA report outlining to	•		

		 Note: Part 3 residential buildings are large and complex buildings, four storeys and taller, and greater than 600 square metres in building area. 	Impact Estimator Software Refer to the Zero Carbon Building Standard for further guidelines on LCA assessments.		
Excellent:	+4 additional points (total 5 points)	One or more carbon reduction strategies that would result in a 10% reduction in embodied carbon of the design is being employed.	In addition to the documentation requirements noted for the Great level, provide a Letter of Commitment singed by a qualified professional (e.g. professional engineer or architect) and the owner/builder/developer identifying the carbon reduction strategies that will be undertaken and the associated reduction in embodied carbon.		
References:	 Canada Green Building Council, Net Zero Carbon Building Standard Version 2. March, 2020 Athena Sustainable Materials Institute (September 2019) http://www.athenasmi.org/wp-content/uploads/2019/09/About_WBLCA.pdf 				

		IB-6: EMBODIED CARBON OF BUILDING MAT	RIALS: MATERIAL EFFICIENT F	RAMING	
Intent:	To increase awarer	ness of the importance of addressing the embodied carbon a	nd other GHG emissions associate	d with building materials.	
Amplicable to		□ Block Plan 🛚 Dra	t Plan of Subdivision	⊠ Site Plan	
Applicable to:		⊠ Residential	☑ Mixed Use	☑ Industrial, Commercial, Institutional	
	Points	Requirement		Documentation	
Great:	3 points	For all low rise wood-framed construction, at least 3 of following advanced framing measures is utilized: Pre-cut framing packages, Engineered Floor Joist, Single Top-Plates, Two Stud Corners, Stud spacing greater than 406 mm (16") on any storey, Ceiling joist spacing greater than 406 mm (16") or any storey, Floor joist spacing greater than 406 mm (16") on a storey. All corners have no more than 2 studs.	Letter of Commitment signed by a qualified professional (e.g. architect or professional engineer) and the owner/developer/builder committing to practice material efficient framing and listing the measures that will be employed from the provided eligible measures. Note: Embodied carbon can be defined as the lifetime greenhouse gas (GHG) emission associated with material. It is life cycle thinking applied to a product, and includes GHG's associated with the manufacture, transportation and installation of a product, any GHG's related to product maintenance and renewal, and GHG's		
References:	Athena Susta	inable Materials Institute (September 2019) http://www.athe	nasmi.org/wp-content/uploads/2019	/09/About WBLCA.pdf	

		IB-7: I	HEAT ISLAND REDUCT	ION: NON-ROOF		
Intent:	To reduce ambient sur	o reduce ambient surface temperatures and reduce the urban heat island effect.				
	С	∃ Block Plan	□ Draft P	lan of Subdivision	⊠ Site Plan	
Applicable to:	×	Residential	×	Mixed Use	☑ Industrial, Commercial, Institutional	
	Points	Requireme	ent		Documentation	
Good:	2 points	Requirement For both residential and non-residential development: One or more of the following strategies is being used to treat 50% of the site's non-roof hardscaping: High albedo paving materials with an initial solar reflectance of at least 0.33 or SRI of 29. Open grid paving with at least 50% perviousness. Shade from existing or new tree canopy within 10 years of landscape installation. Shade from architectural structures that are vegetated or have an initial solar reflectance of at least 0.33 at installation or an SRI of 29. Shade from structures with energy generation. OR For non-residential development only: A minimum of 75% of at-grade parking spaces is under a cover.		On the Landscape Plan identify: The area of the total hardscape on the site (excluding building footprint) The strategies, locations, and size used to reduce heat island from the hardscape area (e.g. underground/covered parking, hardscape shading, hardscape materials with an SRI greater than 29, and open grid pavers with pervious greater than 50%). The following products have an SRI greater than 29: White-coated gravel on the built-up roof (SRI 79), White coating on a metal roof (SRI 82), White cement tile (SRI 90), New gray concrete (SRI 35). For unit pavers and open grid/ pervious paving, provide examples of the products that are intended for the design and provide manufacturer's documentation with the SRI or solar reflectance value to confirm. Determine the percent (%) of the hardscape area that has employed heat island reduction strategies, relative to the total hardscape area.		
Great:	+1 additional point (total 3 points)	One or more of the strategies presented in "Good" level will be used to treat 75% of the site's non-roof hardscaping.		 Hardscaping includes driv artificial turf, and other on 	veways, walkways, courtyards, surface parking areas, n-site hard surfaces.	
References:	 Toronto Green Standard v3 Tier I: Air Quality (AQ 2.1) (LR), (AQ4.1)(MHR); Tier II: Air Quality (AQ4.3) (MHR); (AQ 2.3) (LR), (AQ 4.1) (CF) LEED ND (v4) GIB: Heat Island Reduction LEED BD+C (v4) SS: Heat Island Reduction Thinking Green (2018): 8 (Site Plan) 					

		IB	-8: HEAT ISLAND REDU	JCTION: ROOF			
Intent:	To reduce ambient su	o reduce ambient surface temperatures and reduce the urban heat island effect.					
Ampliochlo to	С	∃ Block Plan	□ Draft I	Plan of Subdivision	⊠ Site Plan		
Applicable to:	×	Residential		Mixed Use	☑ Industrial, Commercial, Institutional		
	Points	Requirem	ent		Documentation		
Great:	2 points	Cool roof is provided for 100% of space.	f the available roof	design and provide manu value to confirm. Determine the percent (%			
Great:	4 points	Green roof is provided for 50% o space.	f the available roof	Note: Available roof space for cool roof areas consists of the total roof area of the building or building addition excluding private terraces no greater in area that floor of the abutting residential unit at the roof level. Available Roof Space is defined as the total roof area minus the areas designated.			
Excellent	+2 additional points (total 6 points)	Green roof is provided for 75% o space.	f the available roof	for renewable energy, residential private terraces, resid spaces (to a maximum of 2 meter square/unit, and a to floor plate less than 750 meter square. The definition is Green Roof Bylaw. e available roof • Cool roofing materials have a minimum initial reflectance emittance of 0.90 or a three-year aged SRI value of 64 three-year aged SRI of 15 for a steep-sloped roof. Low slope of less than 1:6 (9.5 degrees) and steeply sloped greater than 1:6 (9.5 degrees).			
References:	 LEED ND (v4) GIB: Heat Island Reduction LEED BD+C (v4) SS: Heat Island Reduction 						

IB-9: SOLAR GAIN CONTROL						
Intent:	To control solar heat g	ains through east and west facing	windows.			
Applicable to:	Г	□ Block Plan	⊠ Draft Pl	an of Subdivision	⊠ Site Plan	
Applicable to:	×	l Residential	⊠ Mixed Use		☑ Industrial, Commercial, Institutional (*)	
	Points	Requirement		Documentation		
Good:	1 point	For a low-rise development: Provide exterior shading by plant deciduous tree (50 to 70 millimet east, west, or south side of each dwelling.	er DBH) per lot on the	On the Landscape Plan, identify the new trees to be placed on the west side of each residential dwelling. Note: (*) This metric is not applicable to Industrial, Commercial, Institutional developments.		
Great:	2 points	Exterior shading for all east and west facing windows is provided.		On the Elevation Drawings, identify the exterior shading method that will be used on all east and west facing windows. Note: Acceptable exterior shading includes operable shutters, overhangs, brise soleil canopy, awnings, solar blinds, screens, horizontal louvers and jalousies.		
References:	Durham Region 0	Climate Resilient Standard for New	Houses (Draft 2018), Extr	reme Heat Protection Measures;	Shading, Glazing, and Window Operability #2.	

	IB-10: SOLAR READINESS						
Intent:	To encourage the use have strong climate ch		eliance on fossil fuel-base	d energy. Solar energy can provid	de cost-effective methods to reduce energy use and will		
Applicable to:		□ Block Plan	⊠ Draft Pl	an of Subdivision	⊠ Site Plan		
Аррисаые ю.	⊠ Residential		⊠ Mixed Use		☑ Industrial, Commercial, Institutional		
	Points	Requirement		Documentation			
Great:	3 points	All buildings in the project are dereadiness.	signed for solar	engineer) and the owner/devel designed for solar readiness. Note: Designing for solar readiness in the designate an area of the design and build an adequate linstall one or two conduits	oy a qualified professional (e.g. architect, professional oper/builder that confirms all new buildings will be ncludes: roof for future solar PV and/or solar thermal. uate structural capacity of the roof structure. s from the roof to the main electrical or mechanical room ermined based on maximum potential solar PV or solar		

			 Designate a 2 meter by 2 meter wall area in the electrical and mechanical rooms for future solar electrical/thermal equipment controls and connections (e.g. meters, monitors). Where possible place the HVAC or other rooftop equipment on the north side of the roof to prevent future shading. For more guidance on solar readiness, or to access a Solar Readiness Checklist, consult with NRCan Solar Ready Guidelines. Applicants are also encouraged to consult the National Renewable Energy Laboratory's Solar Ready Buildings Planning Guide for additional considerations for PV-ready provisions.
Great:	2 points	In the project, 1% of the total energy is generated on-site by renewable energy sources.	Letter of Commitment signed by a qualified professional (e.g. architect, professional engineer) and the owner/developer/builder to confirm the percent (%) of renewable energy will be generated on-site. The percent (%) of renewable energy generated can be quantified by the following steps:
			 List the types of building(s) (office, commercial, retail, residential multi-unit and/or single-unit). Determine the total Gross Floor Area (GFA) for each building type and list the expected/approximate energy use intensities (EUIs) for each building type. Determine the total building annual energy use for the site. List the renewable energy technologies being considered for the site. Determine the expected annual energy generated from renewable technologies and the percent (%) of annual energy generated on-site, relative to the total energy consumed.
Excellent	+1 additional point per percent (%) increase up to 5 points (total 7 points)	In the project, more than 1% of the total energy is generated on-site by renewable energy sources, up to 5%.	 Note: Allowable forms of renewable energy systems include the following: Solar photovoltaics (PV) technologies (e.g. solar panel, solar shingles), Solar thermal, Biogas and biofuel, Wind-based systems. For greater clarity, it should be noted that geo-exchange systems (e.g. ground-source heat pumps) are considered a building energy efficiency measure, as opposed to a form of renewable energy generation. As such, these systems cannot be used for the on-site renewable energy requirement, but can instead be utilized to meet the energy efficiency targets. The renewable energy calculations can be conducted either within the whole-building energy modelling software or through recognized third-party energy modelling tools such as RETScreen Expert or PVSyst. Off-site solutions such as renewable energy certificates (RECs), carbon offsets, or power purchasing agreements (PPA) with renewable energy generators are not permitted to satisfy this measure unless otherwise approved by the City.
Good Target (Draft Plan Only)	3 points	For greenfield sites that provide ground-oriented development, 100% of dwellings in the project are designed for solar readiness.	Letter of Commitment signed by a qualified professional (e.g. architect, professional engineer) and the owner/developer/builder confirming that all dwellings in the project will be designed for solar readiness, and the measure that will be taking to facilitate this. Note: Sustainable New Communities Program: Guidebook — City of Bramston L36

	This metric is not applicable to Industrial, Commercial, Institutional developments.
References:	 NRCAN Solar Ready Guidelines Toronto Green Standard v3 Tier II: Energy Efficiency, GHG & Resilience (GHG 2.1) (CF, MHR), (GHG 2.2) (LR) Whitby Green Standard v1 (2020): ECC1.2, ECC.V.1 (Draft Plan of Subdivision); ECC1.2, ECC.V.1, ECC.V.2, ECC.V.3 (Site Plan) Thinking Green Item (2018): 13 (Draft Plan of Subdivision); 16 (Site Plan)

			IB-11: ENERGY STR	ATEGY		
Intent:	To encourage the early consideration and incorporation of sustainable design features in the planning process relating to improved building energy efficiency, carbon reduction, and resilience, as well as to take advantage of district-scale opportunities in the case of multi-building developments.					
Applicable to:		⊠ Block Plan	☑ Draft Pl	an of Subdivision	⊠ Site Plan	
/ tpp://dabio.to.		☑ Residential	⊠	Mixed Use	☑ Industrial, Commercial, Institutional	
	Points	Requireme	ent		Documentation	
Great:	3 points	An Energy Strategy is provided for development that includes the following of the high-level energy analysis used modelling or benchmarking overall energy consumption associated with the develop lidentify and evaluate opport use intensity (EUI) and gree (GHG) intensity down to an performance through various more efficient building form orientation, improved building performance, highly efficient recovery, and lighting solution. Analysis of low-carbon energenewable energy generation incorporated into the develophotovoltaic (PV), geo-exchefficiency combined heat an energy stores, and sewer word lidentify and evaluate opport power systems and passive improve the resilience of but power outages. For multi-unit development, also In the case of multi-building or in intensification areas identify investigate the energy solutions, such as the	llowing, as applicable: using archetype data to estimate the and GHG emissions ment. tunities to reduce energy enhouse gas emissions et-zero ready level of s measures, such as and massing, ag envelope t HVAC systems, heat ons. gy solutions and on-site on potential that can be ement, such as rooftop ange systems, high-ad power (CHP), thermal ater heat recovery. tunities for backing design features that will ildings to area-wide conduct the following: development proposals entified by the feasibility of shared	Reference, and at a minimum. Executive Summary, Energy calculations, inclu Graphs of expected ener Conclusions / Recommen		

		carbon thermal energy networks or connection to planned or existing district energy systems, and identify the required provisions to be district energy-ready.	
Excellent:	+6 additional points (total 9 points)	In addition to developing an Energy Strategy, an energy use intensity (EUI) and greenhouse gas emissions intensity (GHGI) target for the site is being achieved that strives towards a near-net zero emissions level of performance as agreed upon with the City. A zero-carbon transition plan is established that lays out the pathway towards achieving carbon neutrality in the future through a variety of design measures, such as providing the necessary infrastructure for full building electrification and avoidance of on-site combustion of fossil fuels.	Energy Strategy Report, as well as Letter of Commitment signed by the owners/developers/builders and qualified professional (e.g. professional engineer) indicating commitment to meet a development-wide energy use intensity and greenhouse gas emissions intensity targets, as well as a zero-carbon transition plan that lays out specific design measures that will be incorporated to facilitate achievement of carbon neutrality in the future (for example, providing electrical infrastructure provisions to allow for full building electrification).
References:	City of Toronto E	nergy Strategy Report - Terms of Reference	

		IB-12: BUILDING ENERGY EF	FFICIENCY, GREENHOU	ISE GAS REDUCTION, AND RE	SILIENCE
Intent:		al comfort of occupants and enhancin			issions associated with building operations, while rgy-efficient can improve indoor and outdoor air quality
Applicable to		□ Block Plan	☑ Draft Pl	lan of Subdivision	⊠ Site Plan
Applicable to:		☑ Residential	×	Mixed Use	☑ Industrial, Commercial, Institutional
	Points	Requireme	ent		Documentation
Good: (Mandatory as of January 1, 2023)	3 points	Part 9 Residential Buildings (3 less than 600 m² in gross floor Design building(s) to achieve ENI Homes version 17.1, R-2000® re equivalent. Part 3 Buildings – Multi-Unit Re Retail (more than 3 storeys or rigross floor area). Develop a whole-building energy construct the building to achieve building performance metrics: Total Energy Use Intensity (Thermal Energy Demand IntikWh/m²/yr Greenhouse Gas Emissions kgCO2/m²/yr. All Other Part 3 Buildings Develop a whole-building energy construct the building to achieve improvement in energy efficiency Building Code (OBC) SB-10, Divibuilding.	esidential, Office and more than 600 m² in model, and design and the following whole- (TEUI): 170 kWh/m²/yr thensity (TEDI): 70 s Intensity (GHGI): 20 model, and design and at least a 15% over the Ontario	registered Energy Adviso the development, and that Compliance Options (e.g. As-Build Documentation Requision Proof of certification from Canada) For Part 3 Buildings: Energy Model Documentation Energy Model Report sun assumptions, signed by a Working Energy Model Simplements of Mechanical and Electrica Related supporting drawing modelling software (for examplements): Updated Energy Model Documelevels): Updated Energy Model Simplements Modelling Note: General, and Minimum Outdoor Aim Take-off Calculations (Model applicable, the calculating savings, renewable energy calculations. Zoning Diagrams. Outdoor Air Calculation Simplements	ned by the owner/developer/builder and an NRCan- ir that confirms an Energy Advisor has been retained for at outlines the minimum requirement and selected . Builder Option Package) that will be achieved. irements (for Great, Excellent, Exceptional levels) third-party verifier (e.g. EnerQuality, Passive House Requirements: nmarizing key modelling inputs, outputs, and a licensed professional. imulation Files. I Design Brief. ngs and calculations done externally from the energy example, thermal bridging calculations). entation Requirements (for Great, Excellent, Exceptional teport. imulation Files. I Design Brief. Building Level, Plant Level, System Level, Occupancy or Rates, Warnings and Errors. Dedeller's external calculations to support the model inputs). In for model workarounds, exceptions, process energy on systems, district energy systems, or other required

Great:	+4 additional points (total 7 points)	Part 9 Residential Buildings (3 storeys or less and less than 600 m² in gross floor area). Design, construct, and label the building(s) to achieve ENERGY STAR® for New Homes version 17.1, R-2000® requirements, or equivalent. Part 3 Buildings – Multi-Unit Residential, Office and Retail (more than 3 storeys or more than 600 m² in gross floor area). Develop a whole-building energy model, and design and construct the building to achieve the following whole-building performance metrics: Total Energy Use Intensity (TEUI): 135 kWh/m2/yr Thermal Energy Demand Intensity (TEDI): 50 kWh/m2/yr Greenhouse Gas Emissions Intensity (GHGI): 15 kgCO2/m2/yr All Other Part 3 Buildings Develop a whole-building energy model, and design and construct the building to achieve at least a 25% improvement in energy efficiency over the Ontario Building Code (OBC) SB-10, Division 3 (2017) reference building.	1
Excellent:	+6 additional Points (total 13 points)	Part 9 Residential Buildings (3 storeys or less and less than 600 m² in gross floor area). Design and construct the building(s) to be Net Zero ready in accordance with the CHBA Net Zero Home Labelling Program, or equivalent. Part 3 Buildings – Multi-Unit Residential, Office and Retail (more than 3 storeys or more than 600 m² in gross floor area). Develop a whole-building energy model and design the building to achieve the following whole-building performance metrics associated with a near-net zero emissions level of performance: Total Energy Unit Intensity (TEUI): 100 kWh/m²/yr Thermal Energy Demand Intensity (TEDI): 30 kWh/m²/yr	

Greenhouse Gas Emissions Intensity (GHGI): 10

kgCO2/m²/yr

- Mechanical Drawings and Specifications (issued for construction/as-built).
- Electrical Drawings and Specifications (issued for construction/as-built).

Note:

For guidance on calculating TEUI, TEDI, and GHGI, please refer to the <u>Energy Efficiency Report Submission & Modelling Guidelines</u> for the Toronto Green Standards.

		All Other Part 3 Buildings	
		Develop a whole-building energy model and design the building to achieve at least a 37% improvement in energy efficiency over the Ontario Building Code (OBC) SB-10, Division 3 (2017) reference building.	
Exceptional	+8 additional points (total 21 points)	Part 9 Residential Buildings (3 storeys or less and less than 600 m² in gross floor area). Design and construct the building(s) in accordance with the CHBA Net Zero Homes Labelling Program, or Passive House standards, or equivalent. Part 3 Buildings – Multi-Unit Residential, Office and Retail (more than 3 storeys or more than 600 m² in gross floor area). Develop a whole-building energy model and design the building to achieve the following whole-building performance metrics associated with a near-net zero emissions level of performance: Total Energy Unit Intensity (TEUI): 75 kWh/m²/yr Thermal Energy Demand Intensity (TEDI): 15 kWh/m²/yr Greenhouse Gas Emissions Intensity (GHGI): 5 kgCO2/m²/yr All Other Part 3 Buildings Develop a whole-building energy model and design the building to achieve at least a 50% improvement in energy efficiency over the Ontario Building Code (OBC) SB-10, Division 3 (2017) reference building.	
Good:	3 points	Install electricity and/or thermal sub-meters for all energy end-uses that represent more than 10% of the building's total energy consumption, following the requirements laid out in LEED v4 Reference Guide Advanced Energy Metering credit. For buildings with multiple tenants, provide energy sub-metering for each commercial/institutional tenant, and per residential suite.	Letter of Commitment signed by a qualified professional (e.g. architect, professional engineer) and the owner/developer/builder identifying sub-metering that will be provided, accompanied by electrical and mechanical single line diagrams that indicate the provision of electricity and thermal sub-meters. A metering plan listing all meters along with type, energy source metered, diagrams, and/or references to design documentation.

Great:	3 points	Building Commissioning Conduct best practice commissioning, per the requirements referenced in LEED BD+C v4 Fundamental Commissioning and Verification pre-requisite. (Building commissioning is a systematic process of verifying that the various building sub-systems such as building envelope, mechanical (HVAC), plumbing and lighting systems are constructed and operational per the project requirements and design intent.)	Letter of Commitment signed by the owner/developer/builder confirming that building commissioning will be carried out per the requirements of LEED v4 BD+C Fundamental Commissioning and Verification pre-requisite.
Excellent:	4 points	Airtightness Testing Conduct a whole-building air leakage test to improve the quality and airtightness of the building envelope.	Letter of Commitment signed by the owner/developer/builder that an airtightness testing provider will be retained to conduct a whole-building air leakage test. Note: It is recommended that applicants follow ASTM WK35913 Standard Test Method for Determining the Air Leakage Rate of Large or Multi-zone Buildings or US Army Corps of Engineers (USACE) Air Leakage Test Protocol. Projects will conduct an operational envelope airtightness test under negative pressure producing a multi-point regression. However, projects are permitted to pursue negative and positive pressure testing and produce a building envelope test where HVAC-related openings are excluded as in the Passive House standard. Projects will target a test pressure of 75Pa. Projects unable to achieve 75Pa must follow either ASTM W35913 alternative test methods; Repeated Single-Point Test or a Repeated Two-Point test and demonstrate compliance using projected curves for airtightness at 75Pa. If the whole building cannot be tested as one zone, it is acceptable to test a zone that can be partitioned temporarily with adjacent zones "Guarded" as buffer zones using blower door equipment. Note that the air leakage rate should be normalized to the exterior surface area and not include the guarded surface areas. All materials, assemblies, and systems that form the continuous air barriers systems must be installed including any HVAC equipment, ducts, and fittings included in the test boundary. Upon completion, the applicant shall provide a completed airtightness testing report to City officials. For low-rise developments, conduct airtightness testing for 15 percent of the dwellings.
References:	Whitby Green Sta	tandard v3: Energy Efficiency, GHG & Resilience (CF, LR, MI andard v1 (2020): ECC1.4, ECC1.5, ECC1.6, ECC1.7, ECC.\ tem (2018): 13 (Site Plan)	· ·

		IB-1	3: RAINWATER AND GRI	EYWATER USE	
Intent:	To reduce potable wat	er use for interior building functions	S.		
Amplicable to	С	∃ Block Plan	☑ Draft Pla	an of Subdivision	⊠ Site Plan
Applicable to:	×	Residential		Mixed Use	☑ Industrial, Commercial, Institutional
	Points	Requirem	ent		Documentation
Good:	1 point	Rainwater or greywater is captured on-site and used for exterior uses (e.g. landscape irrigation). Buildings are designed for rainwater and/or greywater use readiness (e.g. plumbing infrastructure rough-ins or dedicated cistern space for rainwater or greywater use or greywater irrigation that may be connected in the future are included in the building.)		Rainwater Use for Exterior Functions: On the Landscape Plan identify the type and location of rainwater capture/use infrastructure. Greywater Use for Exterior Functions: On the Landscape Plan identify the type and location of greywater capture/use infrastructure. Greywater and/or Rainwater Use for Interior: Letter of Commitment signed by a qualified professional (e.g. architect, professional engineer) and the owner/developer/builder committing that the project will either be designed to provide greywater and/or rainwater use for internal functions, specifying which internal functions and the potential technology/infrastructure that will be used. Note: Greywater is wastewater generated from dish washing, hand washing, laundry, bathing and showering.	
Great:	+3 additional points (total 4 points)	are included in the building). Greywater Use for Interior Functions: Greywater is captured on site, treated, and used for toilet and urinal flushing, as well as priming flood drains within a home. OR Rainwater Use for Interior Functions: Rainwater is captured on site and used for toilet and urinal flushing.			
References	Thinking Green (2)	2018): 19 (Site Plan)		All Greywater and Rainwa	tter use must comply with Ontario Building Code.

IB-14: BACK-UP POWER						
Intent:	To encourage the pro-	To encourage the provision of back-up power that enables the functioning of key utilities/building functions during power failures resulting from extreme weather events.				
Applicable to:	□ Block Plan		☑ Draft Plan of Subdivision		⊠ Site Plan	
Applicable to:	⊠ Residential		⊠ Mixed Use		☑ Industrial, Commercial, Institutional (*)	
	Points	Requirement		Documentation		
Good:	1 point	Rough-ins to allow for the installation of external generators/auxiliary power supply at a later date are provided.		engineer) and the owner/develo	y a qualified professional (e.g. architect, professional oper/builder stating that all residential dwellings will be the installation of external generators/auxiliary power	

			Applies to all residential building types.
Good	1 point	For mid-rise and high-rise buildings, a refuge area with heating, cooling, lighting, potable water, and power available for 72 hours is provided.	Letter of Commitment signed by a qualified professional (e.g. architect, professional engineer) and the owner/developer/builder stating that the refuge area will be provided and supplied with heating, cooling, lighting, potable water, and power available for 72 hours. On the Floor Plans, identify the common refuge area. Note: (*) This metric is not applicable to Industrial, Commercial, Institutional developments. Applies to residential buildings that contain central amenity/lobby space. A refuge area should be a minimum size of 93 square meters (1000 square feet) and/or 0.5 square meters per occupant, and may act as building amenity space during normal operations. Common refuge areas are temporarily shared, lit spaces where vulnerable residents can gather to stay warm or cool, charge cell phones and access the internet, safely store medicine, refrigerate basic food necessities, access potable water and toilets, and perhaps prepare food.
Great	3 points	72 hours of back-up power to essential building systems is provided.	Letter of Commitment signed by a qualified professional (e.g. architect, professional engineer) and the owner/developer/builder stating that at least 72 hours of back-up power to essential building systems will be provided. Note: Provide a 72 hour minimum back-up power system, preferably using a non-fossil fuel source, to ensure power is provided to the refuge area, building security systems, domestic water pumps, sump pumps, at least one elevator, boilers and hot water pumps to enable access and egress and essential building functions during a prolonged power outage. Applies to multi-unit residential buildings only.
References:	Toronto Green SCity of Toronto. NCity of Brampton	tandard v3 Tier II: Energy Efficiency, GHG & Resilience (GH	sement Flood Protection Measures; Enhanced Protection #18 IG 5.2) (CF, MHR) erformance Standards for Existing and New Buildings (2016).

		IB-15: EXTREME WIND	PROTECTION FOR GRO	OUND-ORIENTED DEVELOPME	NT		
Metric Intent:	To increase the resi	To increase the resistance of homes to the impacts of high wind events, and make them more resilience to the impacts of climate change.					
Applicable to:		□ Block Plan	⊠ Draft Pla	an of Subdivision	⊠ Site Plan		
Applicable to.		⊠ Residential	⊠!	Mixed Use	☑ Industrial, Commercial, Institutional		
	Points	Requireme	ent		Documentation		
Good:	2 points	Requirement Roof to Wall Connections: Roof rafters, roof trusses or roof joists are tied to load-bearing wall framing in a manner that will resist a factored uplift load of 3 kN. This measure requires adequate connection of the top plate to the supporting wall studs, combined with adequate continuous vertical load path. If continuous structural wall sheathing (see Measure A.2.3) is not applied, then a top-to-bottom inspection to address all potential weak links in the continuous vertical load path using additional tires, straps or related measures should be applied. AND When engineered connectors are used, truss manufacturers will be requested to supply appropriate roof-to-wall connections along with trusses. Stud to Sill Plate Connection: Metal straps or connectors are used to connect lower storey wall studs to the sill plate.		engineer) and the owner/devel connections will be provided as Note: Builders should request the connectors along with trusters.	nat truss manufacturers supply appropriate roof-to-wall sses.		
References:	(2019) • Sandink, D., et		Canadian Homes: A Found		ocument for Low-Rise Residential and Small Buildings Residential and Small Buildings. (April 2019)		

IB-16: SUB-METERING OF THERMAL ENERGY AND WATER						
Metric Intent:		To include sub-metering that allows measurement of individual unit consumption, which helps residents understand how their behaviour drives energy costs, and motivates change in behaviour, often resulting in reductions in energy consumption.				
Applicable to:		□ Block Plan	□ Draft Pl	an of Subdivision	⊠ Site Plan	
Applicable to.	Residential ⊠				☑ Industrial, Commercial, Institutional	
	Points	Requirement			Documentation	
Good:	2 points	Buildings are designed to include thermal energy meters for each tenant in multi-tenant residential, commercial/retail buildings.		Letter of Commitment signed by a qualified professional (e.g. architect, professional engineer) and the owner/developer/builder to confirm that all buildings will be designed.		
Good	2 points	Buildings are designed to include tenant in multi-tenant residential, buildings.		,	mal energy and/or water meters for each unit.	
References:	 Toronto Green Standards v3 Tier II: Energy Efficiency, GHG & Resilience (GHG 4.4) (CF, MHR) Whitby Green Standard v1 (2020): SW.V.1, ECC.V.4 (Site Plan) LEED BD+C (v4) WE: Water Metering, EA: Advanced Energy Metering Thinking Green 2018): 20 (Site Plan) 					

IB-17: LIGHT POLLUTION REDUCTION					
Intent:	To reduce nighttime glare and light trespass from the building and the site. Light pollution can be perceived as an inefficient use of energy in addition to its negative impacts on neighbors and night time animals.				
Annliachta ta	□ Block Plan		☑ Draft Plan of Subdivision		⊠ Site Plan
Applicable to:	⊠ Residential		⊠ Mixed Use		☑ Industrial, Commercial, Institutional
	Points	Requireme	Requirement		Documentation
Good:	1 point	All exterior fixtures are Dark Sky	Compliant	Letter of Commitment from a qualified professional (e.g. architect, professional engineer), and the owner/developer/builder confirming that all fixtures intended for exterior lighting will be Dark Sky Compliant. Note: Dark Sky Compliant fixture must have the Dark Sky Fixture Seal of Approval which provides objective, third-party certification for lighting that minimizes glare, reduces light trespass and doesn't pollute the night sky. If a Dark Sky Fixture Seal of Approval is not available fixtures must be full-cutoff and with a colour temperature rating of 3000K or less. Rooftop and exterior facade architectural illumination must be directed downward and turned off between the hours of 10 p.m. and 6 a.m.	

	 All exterior light fixtures should be efficient while providing minimum illumination levels sufficient for personal safety and security. Efficient exterior lighting is defined as 60 Lumens/Watt minimum system efficiency. Safety and security lighting should minimize glare and/or light trespass. For more information see the <u>Best Practices for Effective Lighting</u>.
References:	 LEED ND (v4) GIB: Light Pollution Reduction LEED BD+C (v4.1) SS: Light Pollution Reduction Toronto Green Standard v3 Tier I: Ecology (EC5.1) (CF, LR, MHR) City of Vaughan Urban Design Guidelines City of Markham Bird Friendly Guidelines

			IB-18: BIRD-FRIENDLY	DESIGN	
Intent:	To reduce the incidents of bird collisions and provide an urban environment where birds can thrive. The built environment can have strong negative impacts on birds. Design and system selection can result in fewer bird collisions and deaths.				
Applicable to:	□ Block Plan		☐ Draft Plan of Subdivision		⊠ Site Plan
		⊠ Residential	⊠ Mixed Use		☑ Industrial, Commercial, Institutional
	Points	Points Requirement			Documentation
Good:	2 points	A combination of Bird-Friendly De applied to at least 85% of contigu than 2 square meters (m²) within building above-grade (including ir above green roofs. AND The remaining 15% of glazed win treated unless the glazing is large (m²) or in close proximity to open a natural heritage feature. Bird-Friendly Design Strategies m Visual patterns on glass, Visual markers provided on buildings with spacing no groby 50 millimeters., Window films, Fenestration patterns, Angled glass downwards, Reducing night sky lighting.	nous glass area greater the first 16 meters of the interior courtyards) and adows do not need to be exthan 2 square meters spaces, a green roof or may include:	grade that is greater than Indicate the areas treated strategies are being used Confirm that the visual ma millimeters by 50 millimete Quantify the total area of design strategies and con	total area of contiguous glass below 16 meters above 2 square meters. I with bird friendly design strategies, noting which arkers on the glass have spacing no greater than 50 ers. continuous glass that has been treated by bird-friendly firm that it is at least 85%. companying Brampton SNCP IB-18 Excel Sheet as

Good:	2 points	Bird-Friendly Design strategies are applied to ground- oriented residential development that is adjacent to the natural heritage system, parks and other open spaces.				
References:	City of MarkhamWhitby Green StateToronto Green State	City of Vaughan: Urban Design Guidelines. City of Markham Bird Friendly Guidelines Whitby Green Standard v1 (2020): LUN1.7 (Site Plan) Toronto Green Standard v3 Tier I: Ecology (EC4.1) (CF, LR, MHR); Tier II: Ecology (EC4.3) (LR), (EC4.4) (MHR) Thinking Green Item (2018): 10 (Site Plan)				

IB-19: SOLID WASTE						
Intent:	To promote waste reduction and diversion of materials from landfills. A reduction in waste can be a very cost-effective method for material savings and results in fewer contributions to landfills and lower carbon emissions due to savings in materials.					
Annlinghla to	□ Block Plan		☐ Draft Plan of Subdivision		⊠ Site Plan	
Applicable to:		⊠ Residential		Mixed Use	☑ Industrial, Commercial, Institutional (*)	
	Points	Requireme	Requirement		Documentation	
Good:	1 point	For multi-unit residential development, provide a waste sorting system for garbage, recycling, and organics. If a building has 31 units or more or is more than 5 storeys, provide three separate chutes for garbage, recycling, and organics collection on all floors.		_	the Site Plan Drawing and/or Floor Plans identify: The waste sorting systems for garbage, recycling, and organic waste.	
Good:	1 point	For Residential: Accessible waste storage room with minimum 25 square meters (m²) floor space for the first 50 units, plus an additional 13 square meters (m²) for each additional 50 Units to accommodate containers and compactor units is provided. For Non-residential: Provide a fully enclosed waste storage space to accommodate garbage and materials diversion of recycling and organics.		space and identify the sep storage, (Residential only): the wa	or Floor Plans identify: Determine the floor area provided for the waste storage parate garbage storage, recycling storage, and organics ste storage area required based on the number of e on Floor Plans/Site Plan drawing.	
Good:	1 point	A minimum of 10 square meters (m²) for bulky items and items eligible for special collection services is provided.		with other purposes and r be in the same room as o	ns and declare the area. The 10m2 may not be shared must be solely dedicated to bulky waste, although it may ther waste storage. d items greater than 1.2 meters in any one dimension or	

Great:	1 point	For Residential only: Provide a dedicated collection area or room for the collection of household hazardous waste and/or electronic waste.	 On the Site Plan Drawing and/ or Floor Plans identify: A dedicated collection area or room for the collection of household hazardous waste and/or electronic waste. Note: (*) This metric is not applicable to Industrial, Commercial, Institutional developments. Household Hazardous Waste (HHW) includes car products, motor oil, windshield fluid; household cleaning products; paint, glue, primers, stains; pesticides and garden products; cooking oil; batteries; propane tanks; CFLs, syringes, medical sharps; medication; air fresheners, swimming pool chemicals.
References:	 Toronto Green Standard v3 Tier I: Solid Waste (SW1.1, SW1.2, SW1.3) (MHR); Tier II: Solid Waste (SW1.6) (MHR), (SW 1.2) (LR) Whitby Green Standard v1 (2020): ZW1.1, ZW1.2 (Site Plan) Thinking Green (2018): 34 (Site Plan) 		

INNOVATION

			I-1: INNOVATION			
Intent:	To encourage applicants to achieve innovative performance. Innovation strategies must demonstrate a comprehensive approach, have significant, measurable environmental benefits, and be better than standard practice.					
Applicable to:	⊠ Block Plan		☑ Draft Plan of Subdivision	⊠ Site Plan		
PR	×	l Residential	⊠ Mixed Use	☑ Industrial, Commercial, Institutional		
	Points	Requirement & Documentation	1			
Exceptional:	Up to a total of 10 points based on the measurable sustainability benefit provided (additional points be awarded at the discretion of the municipality)	standard performance, and com as part of first submission, the apconcept should include a description of the application review will be considered further. Should to demonstrate the following as part of the applicant must explain in de The intent of the proposed The proposed requirements The proposed submittals to The design approach to strain Innovation points will only be confor the use of a particular product earn that metric. Corporate strate Applicants may choose to explore The Innovation Library Provide a Tall Wood Building tall wood construction. Tall wood Ontario's Tall Wood Building alternative solutions in a way Plan, design, and construct dwellings will not rely on national Note: Development proponent casubmission.	for compliance,	hould this Innovation metric be pursued by an applicant, innovation metric for review by the municipality. This posed point allocation. ovide a response as to whether the applicant's proposal municipality to pursue further, applicants will be required nicipality. it: existing metric options. Innovation points are not awarded an existing metric, even if the project is not attempting to etailed below: died Carbon metric and a demonstration of leadership in uses wood for its structural system and is built using mass solutions for approval under Ontario Building Code (OBC). Its with how tall wood buildings can be designed as intario Building Code. ct Energy Systems for thermal energy needs. retail natural gas service. Low-density residential rec.		
References:	 LEED BD+C (v4) IN: Innovation Whitby Green Standard v1 (2020): Tier II: Innovation (Draft Plan of Subdivision, Site Plan) 					

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