



Instructions

The Pickering Integrated Sustainable Design Standards (ISDS) for low-rise residential applies to development less than 4 **storeys** with a minimum of 5 dwelling units. Tier 1 performance measures are required by the City of Pickering and must be included as part of your complete development application. Tier 2 performance is encouraged, but optional.

Words and terms identified in **bold** in the Performance Criteria and Documentation cells are defined further in the Glossary of the User Guide.

Performance criteria apply to all building types except where specified.

Applicant Information:

Applicant/Agent: AGENT

Name (First, Last Name): MPLAN INC. Telephone Number: 905-889-1564

Email: JCHITIZ@MPLANINC.COM , MMANETT@MPLANINC.COM

Address of Subject Land (Street Number and Name): 1942 Woodview Avenue Registered Owner (First, Last Name):

Project Information:

Project Name: 1942 Woodview Avenue

Date Checklist Completed (yyyy-mm-dd): January 17, 2024

Is this checklist revised from an earlier submission (Yes/No): NO

Gross Floor Area (square metres): 5,325,3 Number of Storeys: 2 Non Residential Gross Floor Area (square metres):

Proposal Description (narrative of your project):

The proposed development is for the construction of two-and-a-half storey townhome residential dwellings with a proposed future road connection to the adjacent existing lot to the north that will provide for a connection to Bralone Trail north of the adjacent lot. The proposal will have 21 freehold townhouse units/lots within three townhouse blocks with dedicated open space to the west of the lot, where a cul-de-sac is proposed, adjacent to Rouge National Urban Park.

No further development is proposed for the western part of the lot that backs onto the parkland.

Education

Perform	ance Measures	Performance Criteria				For Submission			
Number	Development Feature	1 Mandatory	Met	Tier 2 Optional	Met	Documentation	Comments		
E1	Resident Education	Provide a Resident Education Information Package (hardcopy or digital through website link) to residents that explains the use and maintenance of sustainable building features as well as sustainable lifestyle practices.	Ä	Meet Tier 1 and post signage and other education materials onsite to educate residents and visitors of sustainability features.		☐ Educational package or other educational materials demonstrating compliance.	This will be provided to residents.		

Energy & Resilience

Perform	ance Measures	Performance Criteria				For Submission			
Number	Development Feature	Tier 1 Mandatory	Met	Tier 2 Optional	Met	Documentation	Comments		
ER1	Urban Heat Island Reduction	Roof: Install cool roof (high albedo/light coloured materials with a Solar Reflective Index (SRI) of 78 or over (for low-sloped roofs <2:12)) or 29 (for steep-sloped roofs >2:12) for 100% of the available roof area . or Install solar PV for 50% of the available roof area .	X			☐ Roof plan indicating heat island reduction measures, including the SRI values(s) of roof materials.	To be incorporated into the final design and selection of construction materials.		

Perform	ance Measures	Perform	nance	Criteria	For Submission		
Number	Development Feature	Tier 1 Mandatory	Met	Tier 2 Optional	Met	Documentation	Comments
		 Non-Roof: Use one or a combination of the following strategies to treat at least 50% of the site's hardscape: High-albedo paving materials with an initial solar reflectance of at least 0.33 or SRI of 29; Open grid pavement with at least 50% perviousness; Shade from existing tree canopy 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. 	X	Non-Roof: Use one or a combination of the following strategies to treat at least 75% of the site's hardscape: • High-albedo paving materials with an initial solar reflectance of at least 0.33 or SRI of 29; • Open grid pavement with at least 50% perviousness; • Shade from existing tree canopy 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.		☐ Report, Plan(s), or other documentation indicating the heat island reduction measures.	Landscape details to be confirmed during the Draft Plan of Subdivision. At least one of these measures will be implemented.

Perform	nance Measures	Perform	nance	Criteria		For Submission		
Number	Development Feature	Tier 1 Mandatory	Met	Tier 2 Optional	Met	Documentation	Comments	
ER2	Building Energy Performance and Emissions	Design and construct all buildings to achieve or exceed the Energy Star® for New Homes, latest version, or demonstrated modeled equivalent (e.g., Better Than Code ® using Home Energy Rating System (HERS)). or Design and construct all buildings to meet or exceed the Energy Performance Emissions' Total Energy Use Intensity (TEUI), Thermal Energy Demand Intensity (TEDI) and GHG Emission Intensity (GHGI) targets.		Design and construct all buildings to achieve a minimum energy performance level of 25% or better than the Ontario Building Code requirements in force at the time of application. or Design and construct all buildings to meet or exceed the Energy Performance Emissions' Total Energy Use Intensity (TEUI), Thermal Energy Demand Intensity (TEDI) and GHG Emission Intensity (GHGI) targets.		☐ Energy Modelling Report or other documentation demonstrating compliance with the target standard.	To be finalized and provided with the detailed designs for the Draft Plan of Subdivision.	
ER3	Renewable Energy	Design and construct all buildings to be solar ready. or Incorporate web-based Home Energy Management Systems (HEMS).	X	Incorporate on-site renewable energy sources of power generation to meet 5% or more of the building energy needs. or Incorporate peak shaving devices like battery storage.		☐ Drawings, plans, or other documentation demonstrating compliance.	The roofs can accomodate solar panels. There is a potential to incorporate web-based Home Energy Management Systems. This will be confirmed during Draft Plan of Subdivision	

Performance Measures		Performance Criteria				For Submission			
Number	Development Feature	Tier 1 Mandatory	Met	Tier 2 Optional	Met	Documentation	Comments		
ER4	Building Resilience	Implement at least two of the primary measures from the Durham Region Climate Resilience Standard for New Houses additional to those required by this Standard.	[X]	Implement at least two of the secondary measures from the Durham Region Climate Resilience Standard for New Houses.		☐ Drawings, plans, or other documentation demonstrating that the project incorporates resilient measures.	To be incorporated into final design during the draft plan of subdivision application.		

Neighbourhood

Perform	nance Measures	Perform	nance	Criteria	For Submission			
Number	Development Feature	Tier 1 Mandatory	Met	Tier 2 Optional	Met	Documentation	Comments	
N1	Private Pedestrian Walkways	Provide on-site private pedestrian walkways from buildings to features outside of the development site, such as public sidewalks, multi-use trails, transit stops and adjacent buildings. All connections must be AODA compliant.	缸			☐ Site plan(s) highlighting on-site walkways.	Paved pedestrian path connects to the public sidewalk.	
N2	Private Play Areas & Structures	All private play areas and play structures must be AODA compliant.	X			☐ Site plan(s) highlighting play areas with accessibility features.	Private Play areas are the rear yards.	
N3	Community Safety	Design the project using CPTED principles to create a safe space.	区			☐ or Report demonstrating community safety strategies.	The project is designed with eyes on the street facing the public sidewalk and road.	

Land & Nature

Perform	ance Measures	Perforn	nance	Criteria	For Submission			
Number	Development Feature	Tier 1 Mandatory	Met	Tier 2 Optional	Met	Documentation	Comments	
LN1	Topsoil	The topsoil layer should have a minimum depth of 30 cm for all turf areas, and a minimum depth of 45 cm of high-quality topsoil for all planting beds and scarify hard packed subsoil in all soft landscape areas prior to placement of topsoil.	X	Meet Tier 1 and install a minimum depth of 60 cm of high-quality topsoil for all planting beds.		☐ Landscape Plan(s) and/or other documentation indicating applicable soil characteristics (depth, pH, organic matter content) and planting depth.	Detailed Landscape Plans will be provided with the draft plan of subdivision application.	
LN2	Light Pollution Reduction	All exterior lighting to be Dark Sky Compliant with the exemption of street lighting, which is governed by the City's Street Lighting Requirements . If a Dark Sky Fixture Seal of Approval is not available, fixtures must be full cut-off and with a colour temperature rating of 3000K or less.	X	Meet Tier 1 and install motion sensors or timers for outdoor lights to maintain security without excessively lighting the building's exterior.		☐ Exterior Lighting Plan, Schedule, or other documentation indicating lighting type, orientation and location.	This is premature, but exterior lighting will be basic fixtures and will be compliant.	
LN3	Native and Non-Invasive Species	Plant 50% native plant species , including trees, shrubs and herbaceous plants preferably drought-tolerant and pollinator-friendly outside of the buffer area and within the development limit. Remaining non-native species must be non-invasive.	X	Plant 75% or greater with native plant species.		☐ Landscape Plan(s), drawings or other documentation demonstrating the percentage of plant species, preferably are drought-tolerant and pollinator-friendly.	This will be incorporated into the detailed landscape plan provided with draft plan of subdivision.	

Perform	ance Measures	Perforn	nance	Criteria	For Submission			
Number	Development Feature	Tier 1 Mandatory	Met	Tier 2 Optional	Met	Documentation	Comments	
LN4	Vegetated Buffers	The disturbed buffer area between the development limit and a key natural heritage feature shall be restored with 100% native plant species, including trees, shrubs and herbaceous plants, preferably drought- tolerant.	Ě			☐ Landscape Plan(s), drawings or other documentation demonstrating that plant species are 100% native, preferably drought-tolerant.	The buffer area will not be disturbed.	
LN5	Tree Preservation and Removal Compensation	Plant 60 mm caliper deciduous trees and 1.8 m high coniferous trees in accordance with the tree compensation requirements. This applies to the removal of any existing trees that are 15 cm or more in diameter at breast height.	团	Provide a site design solution that includes the preservation and protection of existing mature trees and a net gain of tree canopy through additional tree plantings in accordance with the tree compensation requirements.		☐ A Tree Inventory Report and Preservation Plan that includes all trees on the development site and those on adjoining lands that may be affected by the proposed construction activities.	All tree compensation requirement will be met and detailed during the draft plan of subdivision application.	
LN6	Healthy Street Trees	Plant 60 mm caliper deciduous trees on both sides of private streets and in public boulevards at an interval rate of 1 tree per 8 m of street frontage or spaced appropriately having regard to site conditions; and Design, implement, and pay for a watering and fertilizing program for at least the first 2 years of planting.		Meet Tier 1 and provide 30 m ³ high quality soil for street trees with a minimum topsoil depth of 75 cm.		☐ Tree Planting Plan(s), drawings or other documentation demonstrating species, and quantity for each planting area. ☐ Watering program methods and watering schedule.	All tree planting requirements will be met and detailed during the draft plan of subdivision application.	

Perform	ance Measures	Perforn	nance	Criteria	For Submission		
Number	Development Feature	Tier 1 Mandatory	Met	Tier 2 Optional	Met	Documentation	Comments
LN7	Natural Heritage Features and Open Space Enhancement	Protect key natural heritage features and key hydrologic features on site, including associated setbacks/buffers; or Where all alternatives to protect and enhance key natural heritage features and open spaces on site have been evaluated and determined to not be feasible, provide compensation for the loss of ecosystem functions due to development impacts.		Protect and enhance key natural heritage features and key hydrologic features on site and • Create new natural heritage features on or off-site; or • Restore and enhance connectivity among natural heritage features on or off-site.		☐ Landscape Plan(s), drawing(s) or other documentation highlighting implemented features(s) and/or an Ecosystem Compensation Report where required.	Key natural heritage features are being protected. Please See the EIS prepared by Cunningham Environmental Associates.

Transportation

Perform	ance Measures	Perform	ance	Criteria	For Submission			
Number	Development Feature	Tier 1 Mandatory	Met	Tier 2 Optional	Met	Documentation	Comments	
T1	Electric Vehicles including plug-in hybrid vehicles	Require 40% EV Rough-in & 10% EV Ready charging infrastructure or equivalent electric vehicle energy management systems (load sharing/circuit sharing) capable of providing Level 2 or higher charging for the resident parking spaces; or Require EV Ready charging infrastructure capable of providing Level 2 charging or higher for 50% of the resident parking spaces.		Require EV Ready charging infrastructure capable of providing Level 2 charging or higher for 100% of the resident parking spaces.		□ Electric Vehicle (EV) Charging Infrastructure Plan, drawings or other documentation.	To be detailed during Draft Plan of Subdivision.	

Waste Management

Performance Measures		Perforn	nance	Criteria	For Submission			
Number	Development Feature	Tier 1 Mandatory	Met	Tier 2 Optional	Met	Documentation	Comments	
WM1	Construction Waste Reduction	Divert 50% or more of all non- hazardous construction, demolition, and land clearing waste from landfill.	X	Divert 75% or more of all non- hazardous construction, demolition, and land clearing waste from landfill.		☐ Commitment Letter to divert waste through a third-party hauler.	This standard will be met.	
WM2	On-Site Storage	For low rise multi-storey residential buildings, design the site so that all individual units can be served by curbside collection; and allocate space for separate recyclables, organics and garbage containers inside each dwelling unit.				☐ Drawing(s) demonstrating compliance.	All units can be served by Curbside collection. Bins can be stored inside garages.	

Water

Perform	nance Measures	Perforn	nance	Criteria	For Submission		
Number	Development Feature	Tier 1 Mandatory	Met	Tier 2 Optional	Met	Documentation	Comments
W1	Stormwater Management	Achieve a level one/enhanced stormwater treatment for all stormwater, and achieve runoff reduction of a minimum 5 mm of rainfall depth; and Demonstrate that the applicable groundwater recharge targets are met based on site-specific water balance/budget studies, in accordance with the CTC Source Protection Plan; and Provide an enhanced level of protection for water quality through the long-term average removal of 80% of Total Suspended Solids (TSS) on an annual loading basis from all runoff leaving the site, in accordance with the City of Pickering Stormwater Management Design Guidelines.		In a manner best replicating natural site hydrology processes, manage on-site runoff using at least two of the following low-impact development (LID) and green infrastructure techniques: • permeable pavement • bioswales • soakaways • rain gardens • filtered strips • infiltration trenches or Achieve post-development runoff reductions to no more than 50% of annual precipitation (approx. 10 mm of rainfall event retention from all site surfaces) through infiltration, evapotranspiration, water harvesting and reuse.		☐ Stormwater Management Report, Plan(s), and drawing(s) demonstrating compliance.	See Stormwater Management Report

Performance Measures		Performance Criteria			For Submission		
Number	Development Feature	Tier 1 Mandatory	Met	Tier 2 Optional	Met	Documentation	Comments
W2	Water Efficiency	 Use WaterSense® labeled water fixtures. Use a non-potable watering system for irrigation purposes. Install a drain water heater recovery unit. Install a hot water recirculation pump with an integrated adjustable timer or auto-adaptive controls to shut off during periods of low/no hot water use. Use Energy Recovery Ventilation in lieu of conventional humidifier. 	★	 Implement three of the following: Use WaterSense® water fixtures that obtain a minimum 30% better than the Ontario Building Code baseline. Use a non-potable watering system for irrigation purposes. Design 25% of the dwelling units/buildings to be "greywater ready" (i.e., plumbing and infrastructure roughed in, adequate utility room space). Install a hot water recirculation pump with an integrated adjustable timer or auto-adaptive controls to shut off during periods of low/no hot water use. Use Energy Recovery Ventilation in lieu of conventional humidifier. 		 □ Plan(s), drawing(s), or other documentation demonstrating implementation of target elements(s). □ Plumbing fixtures specifications or other documentation demonstrating WaterSense® labelling and flush/flow rates. or □ Third party verification of water reductions with systems e.g., Home Energy Rating System H2O or WaterSense® labeling. 	Water efficiency measures will be confirmed during the draft plan of subdivision application.