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CORP. OF TOWNSHIP OF ESQUIMALT



CHECKLIST



The purpose of this Checklist is to make property owners and developers aware of specific green features that can be included in new developments to reduce their carbon footprints to help create a more sustainable community.

Creating walkable neighbourhoods, fostering green building technologies, making better use of our limited land base and ensuring that new development is located close to services, shops and transit are some of the means of achieving sustainability.

The Checklist which follows focuses on the use of **Green Technologies** in new buildings and major renovations. The Checklist is not a report card, it is a tool to help identify how your project can become 'greener' and to demonstrate to Council how your project will help the Township of Esquimalt meet its sustainability goals. It is not expected that each development will include all of the ideas set out in this list but Council is looking for a strong commitment to green development.

There are numerous green design standards, for example, Built Green BC; LEED ND; Living Building Challenge; Green Shores; Sustainable Sites Initiative. Esquimalt is not directing you to follow any particular standard, however, you are strongly encouraged to incorporate as many green features as possible into the design of your project.

As you review this checklist, if you have any questions please contact **Development Services at 250.414.7108** for clarification.

New development is essential to Esquimalt.
We look forward to working with you
to ensure that development is
as green and sustainable as possible.

Other documents containing references to building and site design and sustainability, which you are advised to review, include:

- Esquimalt's Official Community Plan
- Development Protocol Policy
- Esquimalt's Pedestrian Charter
- Tree Protection Bylaw No. 2664
- A Sustainable Development Strategic Plan for the Township of Esquimalt

Adopted on January 10th, 2011



"One-third of Canada's energy use goes to running our homes, offices and other buildings. The federal government's Office of Energy Efficiency (Natural Resources Canada) reports that a corresponding one-third of our current greenhouse gas (GHG) emissions come from the built environment."

[Green Building and Development as a Public Good, Michael Buzzelli, CPRN Research Report June 2009]

Please answer the following questions and describe the green and innovative features of your proposed development. Depending on the size and scope of your project, some of the following points may not be applicable.

	een Building Standards h energy use and emissions can be reduced by changing or modifying the way we build	d and eq	uip our			
buil	ldings.		<u></u>			
1	Are you building to a recognized green building standard? If yes, to what program and level?	Yes	No			
2	If not, have you consulted a Green Building or LEED consultant to discuss the inclusion of green features?	Yes	No			
3	Will you be using high-performance building envelope materials, rainscreen siding, durable interior finish materials or safe to re-use materials in this project? If so, please describe them. Rainscreen, fibre cement siding, etc.	Yes	No			
4	What percentage of the existing building[s], if any, will be incorporated into the new building?	0	_ %			
5	Are you using any locally manufactured wood or stone products to reduce energy use transportation of construction materials? Please list any that are being used in this probability for all materials.		!			
6	Have you considered advanced framing techniques to help reduce construction costs and increase energy savings?	(Yes	No			
7	Will any wood used in this project be eco-certified or produced from sustainably managed forests? If so, by which organization?					
	For which parts of the building (e.g. framing, roof, sheathing etc.)? Where possing	ie foc	ill materio			
8	Can alternatives to Chlorofluorocarbon's and Hydro-chlorofluorocarbons which are often used in air conditioning, packaging, insulation, or solvents] be used in this project? If so, please describe these.	Yes	No			
9	List any products you are proposing that are produced using lower energy levels in m	anufactu	iring.			
10	Are you using materials which have a recycled content [e.g. roofing materials, interior doors, ceramic tiles or carpets]?	Yes	No			
11	Will any interior products [e.g. cabinets, insulation or floor sheathing] contain formaldehyde?	Yes	No			

W	ater Management						
- PATRICE TO STREET STREET	e intent of the following features is to promote water conservation, re-use water on	site, a	nd re	duce			
AND DESCRIPTION OF THE PERSON	rm water run-off.	3					
30,000	oor Water Fixtures						
12	Does your project exceed the BC Building Code requirements for public lavatory faucets and have automatic shut offs?	Ye	25	No			
13	For commercial buildings, do flushes for urinals exceed BC Building Code requirements?	Ye	<u> </u>	No			
14	Does your project use dual flush toilets and do these exceed the BC Building Code requirements?	Ye	25	No			
15	Does your project exceed the BC Building Code requirements for maximum flow rates for private showers?	Ye	es :	No			
16	Does your project exceed the BC Building Code requirements for flow rates for kitchen and bathroom faucets?	Ye	? \$	No			
Sto	rm Water						
17	If your property has water frontage, are you planning to protect trees and vegetation within 60 metres of the high water mark? [Note: For properties located on the Gorge Waterway, please consult Sections 7.1.2.1 and 9.6 of the Esquimalt Official Community Plan.]	Yes	No	N/A			
18	Will this project eliminate or reduce inflow and infiltration between storm water and sewer pipes from this property?	Yes	No	N/A			
19	Will storm water run-off be collected and managed on site (rain gardens, wetlands, or ponds) or used for irrigation or re-circulating outdoor water features? If so, please describe.	Yes	No	N/A			
20	Have you considered storing rain water on site (rain barrels or cisterns) for future irrigation uses?	Yes	No	N/A			
21	Will surface pollution into storm drains will be mitigated (oil interceptors, bioswales)? If so, please describe. <u>Oil interceptors</u> .	Yes	No	N/A			
22	Will this project have an engineered green roof system or has the structure been designed for a future green roof installation?	Yes	No) N/A			
23	What percentage of the site will be maintained as naturally permeable surfaces?	21		%			
_	ste water		1				
24	For larger projects, has Integrated Resource Management (IRM) been considered (e.g. heat recovery from waste water or onsite waste water treatment)? If so, please describe these.	Yes	No	(N/A)			
Na	tural Features/Landscaping						
The way we manage the landscape can reduce water use, protect our urban forest, restore natural							
	retation and help to protect the watershed and receiving bodies of water.						
25	Are any healthy trees being removed? If so, how many and what species? Could your site design be altered to save these trees?	Yes	No	N/A			

Have you consulted with our Parks Department regarding their removal?

N/A

N/A

45 Will underground parking areas have automatic lighting?

43 Will building occupants have control over thermal, ventilation and light levels?

44 Will outdoor areas have automatic lighting [i.e. motion sensors or time set]?

Air Quality								
The following items are intended to ensure optimal air quality for building occupants by reducing the use								
of products which give off gases and odours and allowing occupants control over ventilation.								
46	Will ventilation systems be protected from contamination during construction							
70	, ,	1		N1/A				
	and certified clean post construction?	(Yes)No	N/A				
17	And the second first and the second s		ļ					
47	Are you using any natural, non-toxic, water soluble or low-VOC [volatile organic							
	compound] paints, finishes or other products?	Yes	No	N/A				
	If so, please describe.							
48	Will the building have windows that occupants can open?	Yes	No	N/A				
	with the canada that a time to the companies can open		,	14/74				
49	Will hard floor surface materials cover more than 75% of the liveable floor area?	(Yes	No	N/A				
	with the distribution materials cover more than 1970 or the investor moor area.		, , , ,	14/74				
50	Will fresh air intakes be located away from air pollution sources?	Yes	No	N/A				
50	will fresh all lintakes be located away from all pollation sources:	(163)140	14/7				
Cal	id Wate							
	lid Waste							
Reu	ise and recycling of material reduces the impact on our landfills, lowers transportation	on cost	ts, ext	ends the				
life	-cycle of products, and reduces the amount of natural resources used to manufacture	new	produ	icts.				
51	Will materials be recycled during demolition of existing buildings and structures?	Yes	No	N/A				
٥.		163	140	14/7				
	If so, please describe.							
52	Will materials be recycled during the construction phase?	Yes	No	N/A				
	If so, please describe.							
53	Does your project provide enhanced waste diversion facilities i.e. on-site recycling	Yes) NIO	N1/A				
23		(res)	No	N/A				
	for cardboard, bottles, cans and or recyclables or on-site composting?							
- 1		ļ.,						
54	For new commercial development, are you providing waste and recycling	Yes	No	N/A				
THE T THE PART OF	receptacles for customers?							
Gre	een Mobility							
		oduca		oliones				
The intent is to encourage the use of sustainable transportation modes and walking to reduce our reliance								
Separate property and	personal vehicles that burn fossil fuels which contributes to poor air quality.		de					
55	Is pedestrian lighting provided in the pathways through parking and landscaped	(Yes)	No	N/A				
	areas and at the entrances to your building[s]?	\searrow						
56	For commercial developments, are pedestrians provided with a safe path[s]	(Yes)	No	N/A				
	through the parking areas and across vehicles accesses?			,				
57		(V)		N1/A				
31	Is access provided for those with assisted mobility devices?	(Yes	No.	N/A				
58	Are accessible bike racks provided for visitors?	Yes)	No	N/A				
		\checkmark						
59	Are secure covered bicycle parking and dedicated lockers provided for residents	Yes	No	N/A				
-	or employees?	(163	710	14/7				
-				<u>-</u>				
60	Does your development provide residents or employees with any of the following	featur	es to	reduce				
	personal automobile use [check all that apply]:							
	car share memberships							
	shared bicycles for short term use							
	weather protected bus shelters							
	plug-ins for electric vehicles							
Is there something unique or innovative about your project that has not								
	been addressed by this Checklist? If so, please add extra pages to describe it.							
	Published account	CALLEY SET						