




**ONTARIO BUILDING CODE AND SUPPLEMENTARY STANDARD SB-10
PROJECT INFORMATION**

DETAILED FORMS

Project: DUNDAS SQUARE GARDENS	Location: 200 Dundas Street East / 241 Jarvis Street
Building Permit Application No.: 14 249369 BLD 00 NB	Date: July 22, 2015

Architectural Designer Information*	Mechanical Designer Information*	Electrical Designer Information*
Mansoor Kazerouni	Douglas Smith	Edmund Ho
Name	Name	Name
95 St. Clair Ave. West	500-4211 Yonge St	500-4211 Yonge St.
Address	Address	Address
Toronto ON	Toronto ON	Toronto ON
City Province	City Province	City Province
 15/07/22	 15/7/22	 15/7/22
Signature Date(YY/MM/DD)	Signature Date(YY/MM/DD)	Signature Date(YY/MM/DD)

*IF MORE DESIGNERS ARE INVOLVED, PROVIDE ADDITIONAL COPIES OF THIS FORM.

THIS CHECKLIST IS A CONVENIENCE DOCUMENT ONLY AND IS BASED ON THE ENERGY EFFICIENCY REQUIREMENTS DESCRIBED IN THE ONTARIO BUILDING CODE SUPPLEMENTARY STANDARD SB-10 DIVISION 2. THIS CHECKLIST IS NOT A SUBSTITUTE FOR COMPLYING WITH THE REQUIREMENTS OF THE ONTARIO BUILDING CODE. WHILE CARE HAS BEEN TAKEN TO ENSURE ACCURACY OF THIS CHECKLIST, DESIGNERS AND BUILDING OFFICIALS MUST REFER TO THE ACTUAL WORDING AND REQUIREMENTS OF THE ONTARIO BUILDING CODE (O.REG. 332/12 AND AMENDMENTS UP TO DECEMBER 23, 2013).

THIS CHECKLIST IS MADE AVAILABLE FOR CODE USERS BY THE MINISTRY OF MUNICIPAL AFFAIRS AND HOUSING. USERS SHOULD ALWAYS CONSULT WITH THE AUTHORITY HAVING JURISDICTION, IF THE CHECKLIST IS GOING TO BE SUBMITTED TO THAT AUTHORITY. THE MINISTRY OF MUNICIPAL AFFAIRS AND HOUSING DOES NOT ASSUME RESPONSIBILITY FOR ERRORS OR OVERSIGHTS RESULTING FROM THE INFORMATION CONTAINED HEREIN.

PLEASE FILL IN THE ACTUAL VALUES INSTALLED AND CHECK BOXES AS THEY APPLY.

OBC SB-10 COMPLIANCE SUMMARY

Energy Efficiency Design:

There are four energy compliance options to meet the requirements of OBC SB-10 Division 2. Please select the conformance option selected for this project. The energy efficiency of all buildings must be designed to:

Compliance Path		Forms to Complete
(A-1) Exceed by not less than 25% the energy efficiency levels attained by conforming to the CCBFC, "Model National Energy Code for Buildings (MNECB)." Note that this compliance path requires that the proposed building is shown to consume at least 25% less energy than the MNECB reference building when modelled according to the procedures outlined in Part 8 of the MNECB.	<input checked="" type="checkbox"/> YES	FORM A
(A-2) Exceed by not less than 5% the energy efficiency levels attained by conforming to the ANSI/ASHRAE/IESNA 90.1 - 2010 "Energy Standard for Buildings Except Low-Rise Residential Buildings." Note that this compliance path requires that the proposed building is shown to consume at least 5% less energy than the ASHRAE 90.1-2010 reference building when modelled according to the procedures outlined in Chapter 11 of ASHRAE 90.1-2010. Note that this path cannot be used for a building with electric space heating. Refer to SB-10.	<input type="checkbox"/> YES	FORM A
(B) Achieve the energy efficiency levels attained by conforming to the ASHRAE 90.1-2010, "Energy Standard for Buildings Except Low-Rise Residential Buildings" and Division 2 of SB-10. This compliance path includes both prescriptive and performance path options. Please proceed to Form B.	<input type="checkbox"/> YES	FORM B
(C) Achieve the energy efficiency levels attained by conforming to the NECB-2011 National Energy Code of Canada for Buildings and Division 2 of SB-10. This compliance path includes both prescriptive and performance path options. Please proceed to NECB Forms	<input type="checkbox"/> YES	NECB Forms

Please select which of the two options pursued for compliance:

PROPOSED BUILDING IS SHOWN TO CONSUME AT LEAST 25% LESS ENERGY (GJ or kWh) ANNUALLY THAN THE MNECB REFERENCE BUILDING. ENERGY CONSUMPTION VALUES ARE DETERMINED ACCORDING TO THE MODELLING PROCEDURES IDENTIFIED IN PART 8 OF THE MNECB.	<input checked="" type="checkbox"/> Yes
PROPOSED BUILDING IS SHOWN TO CONSUME AT LEAST 5% LESS ENERGY (GJ or kWh) ANNUALLY THAN THE ASHRAE 90.1-2010 REFERENCE BUILDING. ENERGY CONSUMPTION VALUES ARE DETERMINED ACCORDING TO THE MODELLING PROCEDURES OUTLINED IN CHAPTER 11 OF ASHRAE 90.1-2010.	<input type="checkbox"/> Yes

Project: <u>Dundas Gardens-200</u>		Modeller Name: <u>Andre Legault</u>		
Occupancies <input type="checkbox"/> Assembly <input type="checkbox"/> Health/Institutional <input type="checkbox"/> Hotel/Motel <input type="checkbox"/> Light Manufacturing <input type="checkbox"/> Multifamily <u>66,756m2</u> <input type="checkbox"/> Office <input type="checkbox"/> Restaurant <input type="checkbox"/> Retail <u>1,947m2</u> <input type="checkbox"/> School <input type="checkbox"/> Warehouse <input type="checkbox"/> Other <u>Parking 11550m2</u> Total <u>80,253m2</u> <input type="checkbox"/> Proposed Building Description <u>MURB</u> <u>Podium Retail</u> <u>Amenities</u> 	Annual Consumption Summary ⁽¹⁾ Space Heating <u>13612.6</u> Space Cooling <u>1012.0</u> HVAC Auxiliary <u>1998.2</u> Misc. Electrical <u>914.2</u> Service Hot Water <u>3198.7</u> Interior Lighting <u>1644.5</u> Other _____ Other _____ Total Annual Energy <u>22380.2</u> Percentage less energy used by proposed building: <u>29%</u> Total Annual CO ₂ e Emissions (kg) <u>5,438,520</u> > <u>4,134,318</u> Percentage less CO ₂ e emissions by proposed building <u>24%</u> Peak Electric Demand <u>1,751</u> > <u>1,609</u> <input type="checkbox"/> YES or Building components specified in Sentence 1.1.2.3.(2) of Chapter 1 of Division 2 of SB-10 comply with the prescriptove requirements of ASHRAE 90.1-2010 <input type="checkbox"/> YES Reference Building Energy and Proposed Building Energy Consumptions are calculated by: Please specify modelling software: <u>eQuest</u>	Reference Building	Proposed Building	Units
		Energy	Energy	
				MWh
				MWh
				MWh
				MWh
				MWh
				MWh
				MWh
				MWh
				MWh
				MWh

HVAC System Descriptions	Energy Efficiency Features in Proposed Building Design ⁽²⁾
Reference Building Design <u>Fan-coil residential units</u> <u>Multi-zone VAV system serving retail</u> <u>single zone pressurization units</u> Proposed Building Design <u>Fan-coil with HRV</u> <u>Fan-coil serving retail</u> <u>Single zone pressurization units</u>	<u>High performance windows</u> <u>Heat recovery ventilator for suite ventilation</u> <u>Condensing boilers</u> <u>Improved chiller COP</u> <u>VFD on pumps</u> <u>Multiple speed fan-coil control</u> <u>Low flow shower head (2GPM)</u> <u>Condensing domestic hot water heater</u>

The reference building and proposed building design are modelled in accordance with the requirements of the SB-10 and the applicable standard specified above

The information submitted above is accurate to the best of my knowledge

Signature: 	Name/Title: Andre Legault-Project Manager
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- Notes: (1) Verify with building official whether full modelling report is required to be submitted.
 (2) Explain major energy saving features utilized to achieve modelled savings.