EXPLANATION

A By-law to amend the Vacancy Tax By-law No. 11674 regarding an increased tax rate, a new exemption, and notice periods for complaints and reviews

Following the Standing Committee on Policy and Strategic Priorities Meeting on November 27, 2019, Council resolved to amend the Vacancy Tax By-law regarding an increased tax rate, a new exemption, and notice periods for complaints and reviews. Although the resolution regarding the increased tax rate was to be brought forward for enactment in Q1 2020 for the 2020 tax year, the Director of Legal Services is including it in this amending by-law for enactment along with the other amendments for expediency, but delaying the in force and effective date of the amendment to January 1, 2020, in keeping with the intent of Council's resolution. Enactment of the attached By-law will implement Council's resolutions.

Director of Legal Services January 21, 2020



BY-LAW NO.

A By-law to amend the Vacancy Tax By-law No. 11674 regarding an increased tax rate, a new exemption, and notice periods for complaints and reviews

THE COUNCIL OF THE CITY OF VANCOUVER, in public meeting, enacts as follows:

- 1. This By-law amends the indicated provisions of the Vacancy Tax By-law No. 11674.
- 2. In section 2.4, Council strikes out "The rate of the vacancy tax is 1 %" and substitutes "The rate of the vacancy tax is 1.25%".
- 3. Council adds a new section 3.9 as follows:

"Combined period of redevelopment or renovation and occupation by tenant

- 3.9 A vacancy tax is not payable under this by-law for a parcel of residential property if the residential property was, for a combined period of at least six months during the vacancy reference period:
 - (a) unoccupied in order to redevelop or safely carry out of major renovations to the property:
 - (i) for which permits have been issued by the City, and
 - (ii) which, in the opinion of the Chief Building Official, are being carried out diligently and without unnecessary delay; and
 - (b) occupied for residential purposes by an arm's length tenant under a tenancy agreement, or by an arm's length subtenant under a sublease agreement, for a term of at least 30 consecutive days either:
 - (i) prior to the issuance of such permits by the City, where the tenant or subtenant gave notice to end their tenancy, or
 - (ii) after the redevelopment or renovation work has been completed.".
- 4. Council strikes out section 6.3 and substitutes the following:

"Complaint process

- 6.3 A registered owner may submit a complaint to the vacancy tax review officer by submitting a notice of complaint:
 - in the case of a vacancy tax notice, on or before the 10th business day of April of the year in which it is due and payable, unless such time period is extended by the vacancy tax review officer, except that no such extension will be granted beyond December 31st of the year in which the tax is due and payable; and

(b)	in the case of a supplementary vacancy tax notice, within 90 days of the
	date of issue of the supplementary vacancy tax notice, unless such time
	period is extended by the vacancy tax review officer, except that no such
	extension will be granted beyond one year from the date of issue noted
	on the supplementary vacancy tax notice.".

- 5. In section 6.11, Council strikes out "30" and substitutes "90".
- 6. In section 6.12(b), Council adds "or" after "telephone number".
- 7. In section 6.13, Council:
 - (a) strikes the words "6.11 or"; and
 - (b) strikes the words "6.11 or" from the section heading.
- 8. A decision by a court that any part of this By-law is illegal, void, or unenforceable severs that part from this By-law, and is not to affect the balance of this By-law.
- 9. This By-law is to come into force and take effect on the date of its enactment, except that section 2 will come into force and take effect on January 1, 2020, and section 3 will come into force and take effect on January 1, 2021.

ENACTED by Council this	day of	, 2020
		Mayor
		City Clerk

EXPLANATION 13

A By-law to amend the Zoning and Development By-law re: 431-455 West King Edward Avenue

Following the Public Hearing on February 20, 2018, Council gave conditional approval to the rezoning of the site at 431-455 West King Edward Avenue. The Director of Planning has advised that the condition regarding a shared access agreement between the subject site and the adjacent site has been waived as a shared access agreement between the two sites already exists. Enactment of the attached By-law will implement Council's resolution.

Director of Legal Services January 21, 2020



431-455 West King Edward Avenue

BY-LAW NO.

A By-law to amend Zoning and Development By-law No. 3575 to rezone an area to CD-1

THE COUNCIL OF THE CITY OF VANCOUVER, in public meeting, enacts as follows:

Zoning District Plan Amendment

1. This By-law amends the Zoning District Plan attached as Schedule D to By-law No. 3575, and amends or substitutes the boundaries and districts shown on it, according to the amendments, substitutions, explanatory legends, notations, and references shown on the plan marginally numbered Z-732 (b) attached as Schedule A to this By-law, and incorporates Schedule A into Schedule D of By-Law No. 3575.

Uses

- 2.1 The description of the area shown within the heavy black outline on Schedule A is CD-1 (739).
- 2.2 Subject to Council approval of the form of development, to all conditions, guidelines and policies adopted by Council, and to the conditions set out in this By-law or in a development permit, the only uses permitted within CD-1 (739), and the only uses for which the Director of Planning or Development Permit Board will issue development permits are:
 - (a) Multiple dwelling; and
 - (b) Accessory uses customarily ancillary to the uses permitted in this section.

Conditions of use

- 3. The design and layout of at least 35% of the dwelling units must:
 - (a) be suitable for family housing;
 - (b) include two or more bedrooms; and
 - (c) comply with Council's "High-Density Housing for Families with Children Guidelines".

Floor area and density

4.1 Computation of floor space ratio must assume that the site area is 2,145.0 m², being the site area at the time of the application for the rezoning evidenced by this By-law, and before any dedications.

- 4.2 The floor space ratio for all uses must not exceed 2.01.
- 4.3 Computation of floor area must include all floors, including earthen floor, above and below ground level, having a minimum ceiling height of 1.2 m, measured to the extreme outer limits of the building.
- 4.4 Computation of floor area must exclude:
 - (a) open residential balconies or sundecks and any other appurtenances which, in the opinion of the Director of Planning, are similar to the foregoing, except that the total floor area of all such exclusions must not exceed 12% of permitted floor area;
 - (b) patios and roof gardens, provided that the Director of Planning first approves the design of sunroofs and walls;
 - (c) where floors are used for off-street parking and loading, the taking on or discharging of passengers, bicycle storage, heating and mechanical equipment, or uses, which in the opinion of the Director of Planning are similar to the foregoing, those floors or portions thereof so used, which are at or below base surface, except that the maximum exclusion for a parking space must not exceed 7.3 m in length; and
 - (d) all residential storage area above or below base surface, except that if the residential storage area above base surface exceeds 3.7 m² per dwelling unit, there will be no exclusion for any of the residential storage area above base surface for that unit.
- 4.5 Computation of floor area may exclude amenity areas, except that the total exclusion for amenity areas must not exceed 10% of permitted floor area.
- 4.6 The use of floor area excluded under sections 4.4 and 4.5 must not include any use other than that which justified the exclusion.

Building height

5. Building height, measured from base surface, must not exceed 14.6 m.

Horizontal angle of daylight

- 6.1 Each habitable room must have at least one window on an exterior wall of a building.
- 6.2 The location of each such exterior window must allow a plane or planes extending from the window and formed by an angle of 50 degrees, or two angles with a sum of 70 degrees, to encounter no obstruction over a distance of 24.0 m.
- 6.3 Measurement of the plane or planes referred to in section 6.2 must be horizontally from the centre of the bottom of each window.
- 6.4 The Director of Planning or Development Permit Board may relax the horizontal angle of daylight requirement, if:

- (a) the Director of Planning or Development Permit Board first considers all of the applicable policies and guidelines adopted by Council; and
- (b) the minimum distance of unobstructed view is not less than 3.7 m.
- 6.5 An obstruction referred to in section 6.2 does not include:
 - (a) any part of the same building including permitted projections; or
 - (b) the largest building permitted under the zoning on any site adjoining CD-1 (739).
- 6.6 A habitable room referred to in section 6.1 does not include:
 - (a) a bathroom; or
 - (b) a kitchen whose floor area is the lesser of:
 - (i) 10% or less of the total floor area of the dwelling unit, or
 - (ii) 9.3 m².

Acoustics

7. A development permit application for dwelling uses must include an acoustical report prepared by a licensed professional acoustical engineer demonstrating that the noise levels in those portions of the dwelling units listed below will not exceed the noise levels expressed in decibels set opposite such portions of the dwelling units. For the purposes of this section, the noise level is the A-weighted 24-hour equivalent (Leq24) sound level and will be defined simply as noise level in decibels.

Portions of dwelling units	Noise levels (Decibels)
Bedrooms Living, dining, recreation rooms	35 40
Kitchen, bathrooms, hallways	45

Severability

8. A decision by a court that any part of this By-law is illegal, void, or unenforceable severs that part from this By-law, and is not to affect the balance of this By-law.

Force and effect

9. This By	/-law is to com	ne into force and	d take effect on	the date of its en	actment.
ENACTED by	Council this	day of			, 2020
					Mayor
			,		
					City Clerk

CD-1 RS-1 Z-732 (b) map: 1 of 1 RZ - 431-455 West King Edward Avenue scale: NTS City of Vancouver date: 2018-01-26

EXPLANATION 14

A By-law to amend the Building By-law Re: Various Housekeeping Amendments

The attached By-law will amend the Building By-law to correct various typographical and formatting errors, and is to take effect upon enactment.

Director of Legal Services January 21, 2020

BY-LAW NO.

A By-law to amend Building By-law No. 12511 Regarding Various Housekeeping Amendments

THE COUNCIL OF THE CITY OF VANCOUVER, in public meeting, enacts as follows:

- 1. This By-law amends the indicated provisions of Building By-law 12511.
- 2. In Article 1.1.1.1. of Division A of Book I, Council:
 - a) In Sentence (5), strikes out the words "Acceptable Alternate Solution" and substitutes "Alternative Compliance Measure",
 - b) In Sentence (5), strikes out the words "acceptable alternate solutions" and substitutes "alternative compliance measures",
 - c) In Sentence (6), strikes out the words "Acceptable alternate solutions" and substitutes "Alternative compliance measures",
 - d) In Sentence (7), strikes out the words "Acceptable alternate solutions" and substitutes "Alternative compliance measures", and
 - e) In Sentence (7), strikes out the words "if the condition for" and substitutes "if the conditions for using the alternatives have been met.".
- 3. In Article 2.1.1.2. of Division A of Book I, in Sentence (2), Council strikes out the words "dwelling units" and substitutes "buildings and publicly accessible spaces".
- 4. In Article 1.1.2.1. of Division B of Book I, in Sentence (1) Council strikes out "6.4" and "10.5" and substitutes "6.10" and "10.4", respectively.
- 5. In Article 1.1.3.3. of Division B of Book I, Council:
 - a) Strikes out Sentence (1) and substitutes "1) The Chief Building Official may identify geographical locations requiring rough-ins for a subfloor depressurization system conforming to Article 9.13.4.3. if data obtained by the Chief Building Official indicates the location is at an elevated risk of the presence of indoor radon levels exceeding Health Canada guidelines.", and
 - b) Strikes out Sentence (2).
- 6. In Article 1.2.1.1. of Division B of Book I, in Sentence (3) Council strikes out "10" and substitutes "12".
- 7. In Table 1.3.1.2. of Division B of Book I, Council:
 - a) Strikes out the following rows:

AAMA	501-05	Test for Exterior Walls	A-5.9.3.
AAMA	501.1-05	Water Penetration of Windows, Curtain Walls and Doors Using Dynamic Pressure	A-5.9.3.

AAMA	501.2-09	Quality Assurance and Diagnostic Water Leakage Field Check of Installed Storefronts, Curtain Walls, and Sloped Glazing Systems	A-5.9.3.
AAMA	501.4-09	Recommended Static Test Method for Evaluating Curtain Wall and Storefront Systems Subjected to Seismic and Wind Induced Interstorey Drifts	A-5.9.3.
AAMA	501.5-07	Thermal Cycling of Exterior Walls	A-5.9.3. A-5.9.3.3.(1)
AAMA	501.6-09	Recommended Dynamic Test Method For Determining The Seismic Drift Causing Glass Fallout From A Wall System	A-4.1.8.18.(15) and (16)(c) A-5.9.3.

and substitutes the following rows:

AAMA	501-05	Test for Exterior Walls	A-5.9.2.2.(2)
AAMA	501.1-05	Water Penetration of Windows, Curtain Walls and Doors Using Dynamic Pressure	A-5.9.2.2.(2)
AAMA	501.2-09	Quality Assurance and Diagnostic Water Leakage Field Check of Installed Storefronts, Curtain Walls, and Sloped Glazing Systems	A-5.9.2.2.(2)
AAMA	501.4-09	Recommended Static Test Method for Evaluating Curtain Wall and Storefront Systems Subjected to Seismic and Wind Induced Interstorey Drifts	A-5.9.2.2.(2)
AAMA	501.5-07	Thermal Cycling of Exterior Walls	A-5.9.2.2.(2)
AAMA	501.6-09	Recommended Dynamic Test Method For Determining The Seismic Drift Causing Glass Fallout From A Wall System	A-5.9.2.2.(2)

b) Strikes out the following rows:

ASHRAE	ANSI/ASHRAE 62-2001 (except Addendum n)	Ventilation for Acceptable Indoor Air Quality (except Addendum n)	6.3.1.1.(2) 10.2.2.2.(1)(b) 10.2.2.3. A-9.25.5.2.
--------	--	---	--

and substitutes the following rows:

ANSI/ASHRAE 62-2001 (except Addendum n) Ventilation for Acceptable Indoor Air Quality (except Addendum n) 6.3.1.1.(2) 10.2.2.2.(1)(b) 10.2.2.3.(1)(b) A-9.25.5.2.		100	10.2.2.3.(1)(b)
---	--	-----	-----------------

2

c) Strikes out the following rows:

ASHRAE	ANSI/ASHRAE 90.1-2016	Energy Standard for Buildings Except Low-Rise Residential Buildings	10.2.2.2.(1) Table 10.2.2.5.A
--------	-----------------------	---	----------------------------------

and substitutes the following rows:

ASHRAE ANSI/ASHRAE 90.1-2016 Energy S	andard for Buildings Except Low-Rise Residential Buildings 10.2.2.2.(1) Table 10.2.2.5.A 11.7.1.1.(3)
---------------------------------------	---

d) Strikes out the following rows:

CoV	2019	Fire By-law	1.1.1.1.(1) ⁽⁴⁾
	CONTRACT -	SHOLLY SECTION	1.1.4.1.(1)
		•	1.4.1.2.(1) ⁽⁴⁾
			A-1.1.1.1.(1) ⁽⁴⁾
		•	2.1.1.2.(4) ⁽⁴⁾
			A-2.2.1.1.(1) ⁽⁴⁾
			A-3.2.1.1.(1) ⁽⁴⁾
· .			3.1.13.1.(1)
	•	•	3.2.3.21.(1)
			3.2.3.21.(1)
			3.2.5.16.(1)
			3.3.1.2.(1)
			3.3.1.10.(1)
	·		3.3.2.3.(1)
			3.3.2.16.(1)
			3.3.4.3.(4)
			3.3.5.2.(1)
			3.3.6.1.(1)
			3.3.6.3.(1)
			3.3.6.3.(2)
			3.3.6.4.(1)
			3.3.6.4.(2)
			3.3.6.6.(1)
			3.7.3.1.(1)
		•	A-3.1.2.3.(1)
		•	A-3.2.4.6.(2)
			A-3.2.6.
			A-3.2.7.8.(3)
			A-3.3.
			A-3.3.1.7.(1)
			A-3.3.3.1.(1)
			A-3.3.6.1.(1)
		· ·	A-3.9.3.1.(1)
·			6.3.4.2.(3)
			6.3.4.3.(1)
			6.3.4.3.(1)

			6.3.4.4.(1) 6.9.1.2.(1) 8.1.1.1.(3) 8.1.1.3.(1) 9.10.20.4.(1) 9.10.21.8.(1)
CoV	2019	Book II (Plumbing Systems) of the Building By-law	2.1.1.2.(4)(4) A-2.2.1.1.(1)(4) A-3.2.1.1.(1)(4) A-4.1.6.4.(3) 5.6.2.2.(2) 6.3.2.15.(3) 6.3.2.15.(5) 7.1.2.1.(1) 9.31.6.2.(1) 9.36.3.11.(2) 9.36.4.3.(2) A-9.36.5.8.(5) Appendix C

and substitutes the following rows:

CoV	2019	Fire By-law ⁽⁷⁾	1.1.1.1.(1) ⁽⁴⁾
in the second			1.1.4.1.(1)
			1.4.1.2.(1) ⁽⁴⁾
			A-1.1.1.1.(1) ⁽⁴⁾
			2.1.1.2.(4) ⁽⁴⁾
			A-2.2.1.1.(1) ⁽⁴⁾
		i	A-3.2.1.1.(1) ⁽⁴⁾
			3.1.13.1.(1)
			3.2.3.21.(1)
			3.2.5.16.(1)
			3.3.1.2.(1)
			3.3.1.10.(1)
			3.3.2.3.(1)
		1	3.3.2.16.(1)
			3.3.4.3.(4)
			3.3.5.2.(1)
	Total Carlot		3.3.6.1.(1)
			3.3.6.3.(1)
			3.3.6.3.(2)
	-		3.3.6.4.(1)
			3.3.6.4.(2)
			3.3.6.6.(1)
			3.7.3.1.(1)
			A-3.1.2.3.(1)
			A-3.2.4.6.(2)
			A-3.2.6.
			A-3.2.7.8.(3)
			A-3.3.
			A-3.3.1.7.(1)
			A-3.3.3.1.(1)
			A-3.3.6.1.(1)

	Т		1
			A-3.9.3.1.(1) 6.3.4.2.(3) 6.3.4.3.(1) 6.3.4.4.(1) 6.9.1.2.(1) 8.1.1.1.(3) 8.1.1.3.(1) 9.10.20.4.(1) 9.10.21.8.(1)
CoV	2019	Book II (Plumbing Systems) of the Building By-law	2.1.1.2.(4) ⁽⁴⁾ A-2.2.1.1.(1) ⁽⁴⁾ A-3.2.1.1.(1) ⁽⁴⁾ A-4.1.6.4.(3) 5.6.2.2.(2) 6.3.2.15.(3) 6.3.2.15.(5) 7.1.2.1.(1) 9.31.6.2.(1) Appendix C

e) Strikes out the following rows:

CSA	AAMA/WDMA/CSA 101/I.S.2/A440-08 or AAMA/WDMA/CSA 101/I.S.2/A440-11	NAFS – North American Fenestration Standard/Specification for Windows, Doors, and Skylights	5.9.2.2.(1) A-5.3.1.2. 9.7.4.3.(1) 9.7.4.3.(2) 9.7.5.1.(1) 9.7.5.3.(1) 9.36.2.9.(3) A-9.7.4.2.(1)
CSA	A440S1-09 or A440S1-2017	Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440, NAFS – North American Fenestration Standard/Specification for Windows, Doors, and Skylights	5.9.2.2.(1) 5.9.2.2.(3) A-5.9.2.2. A-5.9.3.5.(3) 9.7.4.2.(1) 9.36.2.9.(3) A-9.7.4.2.(1)

and substitutes the following rows:

CSA	AAMA/WDMA/CSA 101/I.S.2/A440-08 or AAMA/WDMA/CSA 101/I.S.2/A440-11	NAFS – North American Fenestration Standard/Specification for Windows, Doors, and Skylights	5.9.2.2.(1) A-5.3.1.2. 9.7.4.3.(1) 9.7.4.3.(2) 9.7.5.1.(1) 9.7.5.3.(1) A-9.7.4.2.(1)
CSA	A440S1-09 or A440S1-2017	Canadian Supplement to AAMA/WDMA/CSA 101/I.S.2/A440, NAFS – North American Fenestration Standard/Specification for Windows, Doors, and Skylights	5.9.2.2.(1) 5.9.2.2.(3) A-5.9.2.2.

		A-5.9.3.5.(3)
-		9.7.4.2.(1)
		A-9.7.4.2.(1)

f) Strikes out the following rows:

CSA	B214-12	Installation Code for Hydronic Heating Systems	6.2.1.1.(1) 9.33.4.2.(1)
			A-9.36.3.4.(1)

and substitutes the following rows:

CSA B214	14-12	Installation Code for Hydronic Heating Systems	6.2.1.1.(1) 9.33.4.2.(1)
----------	-------	--	-----------------------------

g) Strikes out the following rows:

CSA	CAN/CSA-C439-09	Rating the Performance of Heat/Energy-Recovery Ventilators	9.32.3.10.(4) 9.32.3.10.(5) 10.2.2.X.
			A-9.36.3.9.(3)

and substitutes the following rows:

A-10.2.2.17.	Rating the Performance of Heat/Energy-Recovery Ventilators 10.2.2.17. A-10.2.2.17.	CAN/CSA-C439-09	CSA
--------------	---	-----------------	-----

h) Strikes out the following rows:

CSA	F280-12	Determining the Required Capacity of Residential Space Heating and Cooling Appliances	9.33.5.1.(1) A-9.36.3.2.(1) A-9.36.5.15.(5)
CSA	CAN/CSA-F326-M91	Residential Mechanical Ventilation Systems	9.32.3.1.(1) 10.2.3.17.(3) A-9.32.3.1.(1) A-9.32.3.5. A-9.32.3.7. A-9.32.3.8. A-9.33.6.13.

and substitutes the following rows:

CSA	F280-12	Determining the Required Capacity of Residential Space Heating and Cooling Appliances	9.33.5.1.(1)
CSA	CAN/CSA-F326-M91	Residential Mechanical Ventilation Systems	9.32.3.1.(1) 10.2.2.17.(3) A-9.32.3.1.(1) A-9.32.3.5. A-9.32.3.7. A-9.32.3.8. A-9.33.6.13.

i) Strikes out the following rows:

HRAI	SAR-G1	HRAI Digest 2005	6.2.1.1.(1) 9.32.2.3.(4) 9.32.3.2.(1) 9.33.4.1.(1) A-9.36.3.2.(1) A-9.36.3.2.(2) A-9.36.3.4.(1)
HVI	HVI Publication 911	Certified Home Ventilating Products Directory	A-9.36.3.9.(3)

and substitutes the following rows:

HRAI	SAR-G1	HRAI Digest 2005	6.2.1.1.(1) 9.32.2.3.(4) 9.32.3.2.(1) 9.33.4.1.(1) A-10.2.2.17.
HVI	HVI Publication 911	Certified Home Ventilating Products Directory	A-10.2.2.17.

j) Strikes out the following rows:

ULC	CAN/ULC-S701-11	Thermal Insulation, Polystyrene, Boards and Pipe Covering	Table 5.9.1.1. 9.15.4.1.(1) Table 9.23.17.2A 9.25.2.2.(1) Table A-9.36.2.4.(1)-D
ULC	CAN/ULC-S702-09	Mineral Fibre Thermal Insulation for Buildings	Table 5.9.1.1. A-5.9.1.1.(1) Table 9.23.17.2A 9.25.2.2.(1)

7

			Table A-9.36.2.4.(1)-D
ULC .	CAN/ULC-S703-09	Cellulose Fibre Insulation for Buildings	Table 5.9.1.1. 9.25.2.2.(1) Table A-9.36.2.4.(1)-D
ULC	CAN/ULC-S704-11	Thermal Insulation, Polyurethane and Polyisocyanurate, Boards, Faced	Table 5.9.1.1. Table 9.23.17.2A 9.25.2.2.(1) Table A-9.36.2.4.(1)-D
ULC	CAN/ULC-S705.1-01	Thermal Insulation – Spray Applied Rigid Polyurethane Foam, Medium Density – Material – Specification	Table 5.9.1.1. 9.25.2.2.(1) Table A-9.36.2.4.(1)-D

and substitutes the following rows:

ULC	CAN/ULC-S701-11	Thermal Insulation, Polystyrene, Boards and Pipe Covering	Table 5.9.1.1. 9.15.4.1.(1) Table 9.23.17.2A 9.25.2.2.(1)
ULC	CAN/ULC-S702-09	Mineral Fibre Thermal Insulation for Buildings	Table 5.9.1.1. A-5.9.1.1.(1) Table 9.23.17.2A 9.25.2.2.(1)
ULC	CAN/ULC-S703-09	Cellulose Fibre Insulation for Buildings	Table 5.9.1.1. 9.25.2.2.(1)
ULC	CAN/ULC-S704-11	Thermal Insulation, Polyurethane and Polyisocyanurate, Boards, Faced	Table 5.9.1.1. Table 9.23.17.2A 9.25.2.2.(1)
ULC	CAN/ULC-S705.1-01	Thermal Insulation – Spray Applied Rigid Polyurethane Foam, Medium Density – Material – Specification	Table 5.9.1.1. 9.25.2.2.(1)

k) Strikes out the following rows:

ULC	CAN/ULC-S710.1-11	Thermal Insulation – Bead-Applied One Component Polyurethane Air Sealant Foam, Part 1: Material Specification	Table 5.9.1.1. 9.36.2.10.(6)
ULC	CAN/ULC-S711.1-11	Thermal Insulation – Bead-Applied Two Component Polyurethane Air Sealant Foam, Part 1: Material Specification	Table 5.9.1.1. 9.36.2.10.(6)

and substitutes the following rows:

ULC	CAN/ULC-S710.1-11	Thermal Insulation – Bead-Applied One Component Polyurethane Air Sealant Foam, Part 1: Material Specification	Table 5.9.1.1.
ULC	CAN/ULC-S711.1-11	Thermal Insulation – Bead-Applied Two Component Polyurethane Air Sealant Foam, Part 1: Material Specification	Table 5.9.1.1.

I) Strikes out the following rows:

ULC CAN/ULC-S741-08 Air Barrier Materials – Specification	5.4.1.2.(1) 9.36.2.10.(1)
---	------------------------------

and substitutes the following rows:

ULC	CAN/ULC-S741-08	Air Barrier Materials – Specification	5.4.1.2.(1)
-----	-----------------	---------------------------------------	-------------

- m) Inserts the following table note "(7) The current version in effect." In the correct numerical order, and
- n) Strikes out the following rows:

(i)

AHAM	ANSI/AHAM RAC-1-1982	Room Air Conditioners	Table 9.36.3.10.
AHRI	ANSI/AHRI 210/240-2008	Performance Rating of Unitary Air-Conditioning and Air-Source Heat Pump Equipment	Table 9.36.3.10.
AHRI	1060 (I-P)-2013	Performance Rating of Air-to-Air Exchangers for Energy Recovery Ventilation Equipment	9.36.3.8.(4)

(ii)

ASHRAE	ANSI/ASHRAE 103-2007	Annual Fuel Utilization Efficiency of Residential Central Furnaces and Boilers	Table 9.36.3.10.
ASHRAE	ANSI/ASHRAE 140-2011	Evaluation of Building Energy Analysis Computer Programs	9.36.5.4.(8) 9.36.6.4.(1)

(iii)

ASTM	C 518-10		9.36.2.2.(1)
		Flow Meter Apparatus	

(iv)

STM E 2357-11 Determining Air Leakage of Air Barrier Assemblies	9.36.2.9.(1) A-9.36.2.9.(1)
---	--------------------------------

(v)

CCBFC	NRCC 38730	Model National Energy Code of Canada for Houses 1997	10.2.2.3.
-------	------------	--	-----------

(vi)

CGSB	CAN/CGSB-149.10-M86	Determination of the Airtightness of Building Envelopes by the Fan Depressurization Method	9.36.5.10.(11) 9.36.6.5.(1) A-9.36.5.10.(11)
------	---------------------	--	--

(vii)

CSA	A440.2-14/A440.3-14	Fenestration Energy Performance/User Guide to CSA A440.2-14, Fenestration Energy Performance	9.36.2.2.(3) A-Table 9.36.2.7A
	I .		

(viii)

CSA	B140.12-03	Oil-Burning Equipment: Service Water Heaters for Domestic Hot Water, Space Heating, and Swimming Pools	Table 9.36.4.2.
-----	------------	--	-----------------

(ix)

С	SA	CAN/CSA-B211-00	Energy Efficiency of Oil-Fired Storage Tank Water Heaters	Table 9.36.4.2.
C	SA	B212-00	Energy Utilization Efficiencies of Oil-Fired Furnaces and Boilers	Table 9.36.3.10.

(x)

			·
CSA .	C22.2 No. 113-10	Fans and Ventilators	10.2.3.17.(3)

(xi)

CSA	C656-14	Split-System and Single-Package Air Conditioners and Heat Pumps	Table 9.36.3.10.
CSA	CAN/CSA-C745-03	Energy Efficiency of Electric Storage Tank Water Heaters and Heat Pump	Table 9.36.4.2.
		Water Heaters	
CSA	CAN/CSA-C746-06	Rating Large and Single Packaged Vertical Air Conditioners and Heat	Table 9.36.3.10.
		Pumps	
CSA	C748-13	Direct-Expansion (DX) Ground-Source Heat Pumps	Table 9.36.3.10.

CSA	CSA	CAN/CSA-C749-07	Performance of Dehumidifiers	Table 9.36.3.10.
CANICSA-C13256-1-01				
CANCSA-C13256-2-01			Water-Source Heat Pumps – Testing and Rating for Performance – Part 1: Water-to-Air and Brine-to-Air Heat Pumps (Adopted ISO 13256-1:1998,	
CTI STD-201RS-04 Certification of Water-Cooling Tower Thermal Performance Table 9.36.3.10. (xiii) ". (Xiii) Energy, Energy Conservation Program for Consumer Products Table 9.36.4.2. DOE 10 CFR, Part 431-2011 Energy, Energy Efficiency Program for Certain Commercial and Industrial Equipment Table 9.36.4.2. (xiv) EPA 40 CFR, Part 60-2008 Protection of Environment, Standards of Performance for New Stationary Sources Table 9.36.3.10. (xv) (CC 400-2012 Design and Construction of Log Structures 9.36.2.2.(5) (xvi) (xvi) (xvii) UL 731-1995 Oil-Fired Unit Heaters Table 9.36.3.10. ".	CSA	CAN/CSA-C13256-2-01	Water-Source Heat Pumps – Testing and Rating for Performance – Part 2: Water-to-Water and Brine-to-Water Heat Pumps (Adopted ISO 13256-	Table 9.36.3.10.
(xii) (xiii) (xiii) (xiii) (xiii) CTI STD-201RS-04 Certification of Water-Cooling Tower Thermal Performance Table 9.36.3.10. (xiii) DOE 10 CFR, Part 430-2011 Energy, Energy Conservation Program for Consumer Products Table 9.36.4.2. DOE 10 CFR, Part 431-2011 Energy, Energy Efficiency Program for Certain Commercial and Industrial Equipment (xiv) (xiv) EPA 40 CFR, Part 60-2008 Protection of Environment, Standards of Performance for New Stationary Sources (xv) (xv) (xv) CCC 400-2012 Design and Construction of Log Structures 9.36.2.2.(5) A-9.36.2.2.(5) (xvi) NFRC 200-2010 Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal incidence ". (xvii) CFR, Part 60-2008 Protection of Environment, Standards of Performance for New Stationary A-9.36.2.2.(5) ". (xvi) Table 9.36.3.10. ".				
CTI STD-201RS-04 Certification of Water-Cooling Tower Thermal Performance Table 9.36.3.10. (Xiii) DOE 10 CFR, Part 430-2011 Energy, Energy Conservation Program for Consumer Products Table 9.36.4.2. DOE 10 CFR, Part 431-2011 Energy, Energy Efficiency Program for Certain Commercial and Industrial Table 9.36.4.2. (Xiv) EPA 40 CFR, Part 60-2008 Protection of Environment, Standards of Performance for New Stationary Sources (XV) ICC 400-2012 Design and Construction of Log Structures 9.36.2.2.(5) (XVi) NFRC 200-2010 Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence (XVii) UL 731-1995 Oll-Fired Unit Heaters Table 9.36.3.10.				"
(xiii) DOE 10 CFR, Part 430-2011 Energy, Energy Conservation Program for Consumer Products Table 9.36.4.2. DOE 10 CFR, Part 431-2011 Energy, Energy Efficiency Program for Certain Commercial and Industrial Table 9.36.4.2. (xiv) EPA 40 CFR, Part 60-2008 Protection of Environment, Standards of Performance for New Stationary Sources (xv) ICC 400-2012 Design and Construction of Log Structures 9.36.2.2.(5) (xvi) NFRC 200-2010 Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence (xvii) UL 731-1995 Oil-Fired Unit Heaters Table 9.36.3.10.		(xii)		
(xiii) DOE 10 CFR, Part 430-2011 Energy, Energy Conservation Program for Consumer Products Table 9.36.4.2. DOE 10 CFR, Part 431-2011 Energy, Energy Efficiency Program for Certain Commercial and Industrial Table 9.36.4.2. (xiv) EPA 40 CFR, Part 60-2008 Protection of Environment, Standards of Performance for New Stationary Sources (xv) ICC 400-2012 Design and Construction of Log Structures 9.36.2.2.(5) A-9.36.2.2.(5) (xvi) NFRC 200-2010 Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence (xvii) UL 731-1995 Oil-Fired Unit Heaters Table 9.36.3.10. ".	CTI	STD-201RS-04	Certification of Water-Cooling Tower Thermal Performance	Table 9.36.3.10.
DOE 10 CFR, Part 430-2011 Energy, Energy Conservation Program for Consumer Products Table 9.36.4.2. (xiv) EPA 40 CFR, Part 60-2008 Protection of Environment, Standards of Performance for New Stationary Sources (xv) ICC 400-2012 Design and Construction of Log Structures 9.36.2.2.(5) (xvi) NFRC 200-2010 Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence (xvii) UL 731-1995 Oil-Fired Unit Heaters Table 9.36.3.10. ".				v.
DOE 10 CFR, Part 431-2011 Energy, Energy Efficiency Program for Certain Commercial and Industrial Equipment (xiv) EPA 40 CFR, Part 60-2008 Protection of Environment, Standards of Performance for New Stationary Sources (xv) ICC 400-2012 Design and Construction of Log Structures 9.36.2.2.(5) A-9.36.2.2.(5) " (xvi) NFRC 200-2010 Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence (xvii) UL 731-1995 Oil-Fired Unit Heaters Table 9.36.3.10. " " " " " " " " " " " " " " " " " "	t .	(xiii)		
DOE 10 CFR, Part 431-2011 Energy, Energy Efficiency Program for Certain Commercial and Industrial Equipment (xiv) EPA 40 CFR, Part 60-2008 Protection of Environment, Standards of Performance for New Stationary Sources (xv) ICC 400-2012 Design and Construction of Log Structures 9.36.2.2.(5) A-9.36.2.2.(5) ". (xvi) NFRC 200-2010 Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence (xvii) UL 731-1995 Oil-Fired Unit Heaters Table 9.36.3.10. ".	DOE	10 CFR, Part 430-2011	Energy, Energy Conservation Program for Consumer Products	Table 9.36.4.2.
(xiv) EPA 40 CFR, Part 60-2008 Protection of Environment, Standards of Performance for New Stationary Sources (xv) ICC 400-2012 Design and Construction of Log Structures 9.36.2.2.(5) A-9.36.2.2.(5) (xvi) NFRC 200-2010 Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence (xvii) UL 731-1995 Oil-Fired Unit Heaters Table 9.36.3.10.			Energy, Energy Efficiency Program for Certain Commercial and Industrial	
EPA 40 CFR, Part 60-2008 Protection of Environment, Standards of Performance for New Stationary Sources (xv) (xv) CC 400-2012 Design and Construction of Log Structures 9.36.2.2.(5) A-9.36.2.2.(5) (xvi) NFRC 200-2010 Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence (xvii) (xvii) UL 731-1995 Oli-Fired Unit Heaters Table 9.36.3.10. ".				,
Sources		(xiv)		
(xv) ICC 400-2012 Design and Construction of Log Structures 9.36.2.2.(5) A-9.36.2.2.(5) ". (xvi) NFRC 200-2010 Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence 9.36.2.2.(3) ". (xvii) UL 731-1995 Oil-Fired Unit Heaters Table 9.36.3.10. ".	EPA	40 CFR, Part 60-2008		Table 9.36.3.10.
(xv) ICC 400-2012 Design and Construction of Log Structures 9.36.2.2.(5) (xvi) NFRC 200-2010 Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence (xvii) UL 731-1995 Oil-Fired Unit Heaters Table 9.36.3.10.				N
(xvi) Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence (xvii) UL 731-1995 Oil-Fired Unit Heaters Table 9.36.3.10.		(xv)		•
(xvi) NFRC 200-2010 Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence (xvii) UL 731-1995 Oil-Fired Unit Heaters Table 9.36.3.10.	ICC	400-2012	Design and Construction of Log Structures	
(xvi) NFRC 200-2010 Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence (xvii) UL 731-1995 Oil-Fired Unit Heaters Table 9.36.3.10.				
NFRC 200-2010 Determining Fenestration Product Solar Heat Gain Coefficient and Visible Transmittance at Normal Incidence (xvii) UL 731-1995 Oil-Fired Unit Heaters Table 9.36.3.10.				•
(xvii) UL 731-1995 Oil-Fired Unit Heaters Table 9.36.3.10. ".		(xvi)		
(xvii) UL 731-1995 Oil-Fired Unit Heaters Table 9.36.3.10. ".	NFRC	200-2010		9.36.2.2.(3)
(xvii) UL 731-1995 Oil-Fired Unit Heaters Table 9.36.3.10. ".				<u>.</u>
UL 731-1995 Oil-Fired Unit Heaters Table 9.36.3.10.		(II)		,
n		(xvii)		
the control of the co	UL	731-1995	Oil-Fired Unit Heaters	Table 9.36.3.10.
				"
(xviii)		(xviii)		

Table A-9.36.2.4.(1)-D

CAN/ULC-S712.1-10

ULC

Thermal Insulation – Light Density, Open Cell Spray Applied Semi-Rigid Polyurethane Foam – Material Specification

(xix)

ULC	CAN/ULC-S742-11	Air Barrier Assemblies – Specification	9.36.2.9.(1)
			A-9.36.2.9.(1)
			A-9.36.2.10.(5)(b)
ULC	CAN/ULC-S770-09	Determination of Long-Term Thermal Resistance of Closed-Cell Thermal Insulating Foams	Table A-9.36.2.4.(1)-D

(xx)

J.S. Congress	National Appliance Energy Conservation Act of 1987	Table 9.36.4.2. Table 9.36.5.16.
------------------	--	-------------------------------------

8. In Article 1.3.2.1. of Division B of Book I, in Sentence (1) Council strikes out the following lines:

(a) "AHAM Association of Home Appliance Manufacturers (www.aham.org)";

"AHRI Air-Conditioning, Heating and Refrigeration Institute (www.ahrinet.org)";

(b) "CTI Cooling Technology Institute (<u>www.cti.org</u>)";
(c) "DOE Department of Energy (www.energy.gov)"; and

(c) "DOE Department of Energy (<u>www.energy.gov</u>)"; and (d) "ICC International Code Council (www.iccsafe.org)".

- 9. In Article 3.1.2.5. of Division B of Book I, in Sentence (2) Council italicizes the words "community care facility" and "group residence" wherever they appear.
- 10. In Article 3.1.2.6. of Division B of Book I, in Clause (1)(b) Council strikes out "b) except as permitted by Sentence (2), the suite is separated from the remainder of the building by a fire separation having a fire-resistance rating of not less than 1 hr." and substitutes "b) except as permitted by Sentence (2), the suite is separated from the remainder of the building by a fire separation having a fire-resistance rating of not less than 1 h.".
- 11. In Table 3.1.2.8. of Division B of Book I, Council:
 - a) In the first row, 4th column, italicizes the word "building", and
 - b) In Note (2), italicizes the words "smoke detectors" and "building".
- 12. In Article 3.1.3.4. of Division B of Book I, in Clause (1)(b) Council removes the italics from the word "light".
- 13. In Article 3.1.3.5. of Division B of Book I, in Sentence (1) Council italicizes the words "training school" and "major occupancy" wherever they appear.
- 14. In Article 3.1.3.6. of Division B of Book I, in Clause (1)(b), Council italicizes the words "first storey" wherever they appear.

- 15. In Article 3.1.5.10. of Division B of Book I, in Sentence (2), after the words "the provided concealed" Council inserts the word "spaces".
- 16. In Article 3.1.9.5. of Division B of Book I, in Clause (4)(a), Council strikes out "b)".
- 17. In Article 3.1.14.4. of Division B of Book I, in Clause (1)(e) Council strikes out "f)".
- 18. In Article 3.2.1.4. of Division B of Book I, in Sentence (1) after the reference "3.2.2.49.(3)," Council inserts the reference "3.2.2.50.(3),".
- 19. In Article 3.2.2.3. of Division B of Book I, in Clause (1)(d), Council strikes out the word "d)".
- 20. In Article 3.2.3.10. of Division B of Book I, in Sentence (1), Council strikes out the words "with all *storeys* constructed as open-air *storeys*".
- 21. In Article 3.2.3.13. of Division B of Book I, Council strikes out Sentence (5) and substitutes the following:
 - **5)** An opening provided with a dedicated sprinkler water curtain for opening protection as permitted in Clause (4)(d) shall
 - a) be provided with tempered or laminated safety glass glazed openings where windows are provided.
 - b) be provided with quick response sprinklers with a nominal k-factor of 5.6 of the upright or pendant type,
 - c) be located such that
 - i) the water curtain sprinklers are between 150 mm and 300 mm horizontally from the interior face of the opening,
 - ii) the water curtain is located and not more than 3.6 m vertically above the floor immediately below and within 300 mm of the ceiling per the manufacturers listing for the quick response sprinkler head and NFPA 13,
 - iii) if the opening is 1.8 m or less in width, the water curtain shall have one sprinkler head installed at the center of the opening with no more than 0.9 m horizontally from the edge of the opening, and
 - iv) if the opening is more than 1.8 m in width, the water curtain shall have multiple sprinkler heads installed at 1.8 m on center with no more than 0.9 m horizontally from the edge of the opening, and
 - d) have sprinkler heads protected from spray and from cold solder effects from adjacent sprinklers (floor area or water curtain sprinkler heads) by means of baffles in accordance with NFPA 13, and be hydraulically designed to
 - i) discharge water at a minimum flow rate of 1.13 L/s (18 usgpm), and
 - ii) sprinklers will be supplied off the floor area sprinkler system, and
 - iii) the water curtain shall be included in the most hydraulically demanding design area for the adjacent floor area sprinklers plus the inside and outside hose stream allowance per NFPA 13.
- 22. In Article 3.2.4.4. of Division B of Book I, in Sentence (3) after the words "A 2-stage fire alarm system is permitted to be zone", Council adds the word "coded".

- 23. In Article 3.2.4.8. of Division B of Book I, in Sentence (10), Council strikes out the reference "3.2.4.9.(2)(c)" and substitutes "3.2.4.8.(2)(c)".
- In Article 3.2.4.19. of Division B of Book I, in Sentence (6) Council strikes out the words "Sentences 3.8.2.12.(5) and 3.8.5.3.(4)" and substitutes "Sentence 3.8.2.12.(5)".
- 25. In Table 3.3.1.5.-A of Division B of Book I, Council strikes out the associated table notes and substitutes the following:

"Notes to Table 3.3.1.5.-A:

(1) See Article 3.3.4.4. for dwelling units.".

26. In Table 3.3.1.5.-B of Division B of Book I, Council strikes out the associated table notes and substitutes the following:

"Notes to Table 3.3.1.5.-B:

(1) See Article 3.3.4.4. for dwelling units.".

- 27. In Article 3.3.1.23. of Division B of Book I, in Sentence (1) Council removes the italics from the words "from any part of a".
- 28. In Article 3.3.2.14. of Division B of Book I, Council strikes out Sentence (4) and substitutes
 - **"4)** A fire curtain required by Sentence (3) shall be of a type *acceptable* to the *Chief Building Official* and designed to close
 - a) automatically upon the actuation of the *sprinkler system*,
 - b) automatically upon actuation of the fire alarm system, and
 - c) manually by remote control devices located at the curtain control panel and at each side of the stage.".
- 29. In Article 3.3.2.14. of Division B of Book I, in Clause (5)(b) Council italicizes the words "sprinkler system".
- 30. In Article 3.3.3.7. of Division B of Book I, in Sentence (4) Council italicizes the words "sprinkler system".
- 31. In Subsection 3.3.4. of Division B of Book I, Council strikes out Article 3.3.4.4. and substitutes

"3.3.4.4. Egress from Dwelling Units

- 1) Single storey dwelling units in an apartment building need not lead to a public corridor or exterior passageway on the same storey provided the dwelling units are served by private stairways leading directly to a public access to exit on the storey
- a) immediately above, and
- b) immediately below.

(See Note A-3.3.4.4.(1).)

- 2) Except as permitted by Sentences (3), (4), and (7), a dwelling unit containing more than one storey shall have an exit door or an egress door opening directly into a public access to exit from the uppermost storey and from the lowest storey of the dwelling unit so that each of these storeys is served by an exit or egress door located not more than 1.5 m above or below its floor level.
- 3) A single exit is permitted from a dwelling unit provided the exit is an exterior doorway not more than 1.5m above adjacent ground level and
- a) it is not necessary to travel up or down more than one storey to reach the exit door,
- b) in a sprinklered building, it is not necessary to travel up or down more than two storeys to reach the exit door, provided the travel distance to a single exit door does not exceed 25 m, or
- c) the uppermost floor level opens to a balcony not more than 6 m above adjacent ground level.
- 4) An egress door from either the uppermost storey or the lowest storey of a dwelling unit, as required by Sentence (2), need not be provided if that storey is served by a stairway that
- a) leads to a public access to exit,
- b) has no direct access to any other storey in the dwelling unit, and
- c) is separated from the other storeys in the dwelling unit by a fire separation having a fire-resistance rating not less than 45 min.
- 5) In a building of residential occupancy not more than 3 storeys in building height, a doorway from a dwelling unit is permitted to open directly into an exit stairway provided the dwelling unit has a second and separate means of egress.
- 6) If a dwelling unit has a second and separate means of egress, one means of egress from a dwelling unit is permitted to pass through
- a) an interior corridor served by a single exit,
- b) an exterior balcony served by a single exit stairway, or
- c) an exterior passageway served by a single exit stairway.
- 7) A single means of egress is permitted from a dwelling unit in a sprinklered building if it is not necessary to travel more than 18 m from the most remote point within the dwelling unit, and (See Note A-3.3.4.4.(7).)
- a) one *storey* up or down, or
- b) two storeys above the first storey of the building.".
- 32. In Article 3.3.6.3. of Division B of Book I, in Sentence (2) after the words "Fire By-law", Council adds ",".
- 33. In Article 3.4.6.8. of Division B of Book I, Council strikes out Sentence (11).
- In Article 3.6.2.1. of Division B of Book I, in Sentence (6), Council italicizes the words 34. "service room" wherever they appear.
- 35. In Article 3.6.2.7. of Division B of Book I, in Sentence (1) after the words "electrical equipment vault", Council adds the words "required by".
- 36. In Article 3.6.5.9. of Division B of Book I, in Sentence (1), Council strikes out the words "In exhaust" and substitutes "Exhaust".
- 37. In Article 3.7.2.2. of Division B of Book I, Council:
 - a) In Clause (17)(d) strikes out the reference "3.7.2.10.(9)" and substitutes "3.8.3.12.", and

- b) In Clause (18)(b) strikes out the reference "3.7.2.10.(9)" and substitutes "3.8.3.12."
- 38. In Article 3.7.2.11. of Division B of Book I, in Sentence (1) and (2), Council removes the italics from the words "gender neutral washroom facility" wherever they appear.
- 39. In Article 3.8.2.1. of Division B of Book I, in Sentence (5), Council italicizes the word "additions".
- 40. In Article 3.8.2.3. of Division B of Book I, in Sentence (2), Council strikes out the word "accessis" and substitutes "access is".
- 41. In Article 3.8.2.4. of Division B of Book I, in Sentence (1), Council strikes out the words "provide to hose floor levels" and substitutes "provided to those floor levels".
- 42. In Article 3.8.2.8. of Division B of Book I, in Sentence (12), Council italicizes the word "children".
- 43. In Article 3.8.3.1. of Division B of Book I, Council:
 - a) In Clause (2)(f), italicizes the words "dwelling unit",
 - b) In Subclause (2)(f)(i), italicizes the words "dwelling unit",
 - c) In Subclause (2)(f)(ii), italicizes the words "dwelling unit",
 - d) In Clause (2)(h), strikes out the reference "3.8.3.10." and substitutes "3.8.3.7.",
 - e) In Clause (2)(I), strikes out the words "Sentence 3.8.3.12.(3)" and substitutes "Article 3.8.3.9.", and
 - f) In Clause (2)(I), italicizes the word "exit".
- 44. In Article 3.8.3.2. of Division B of Book I, in Sentence (4), Council strikes out the number "800" and substitutes "1 800".
- 45. In Article 3.8.3.3. of Division B of Book I, in Sentence (1)(b), Council strikes out the number "500" and substitutes "1 500".
- 46. In Article 3.8.5.7. of Division B of Book I, Council strikes out Sentence (1) and substitutes:
 - "1) Controls and switches in an *adaptable dwelling unit* intended for regular occupant use, including electrical, telephone, cable and data outlets shall be mounted 455 mm to 1 200 mm above the floor, except where
 - a) in the opinion of the *Chief Building Official*, a different height is necessary to accommodate appliances or equipment, or
 - b) otherwise required for safety or other regulatory enactments.".
- 47. In Table 3.10.1.1. of Division B of Book I, under the heading "3.1.3.2. Prohibition of Occupancy Combinations", Council strikes out subrows (3) and (4) and substitutes

- 48. In Table 3.10.1.1. of Division B of Book I, under the heading "3.2.2.21. Group A, Division 1, One Storey, Limited Area, Sprinklered", Council strikes out the word "Code", and substitutes "By-law".
- 49. In Table 3.10.1.1. of Division B of Book I, under the heading "3.2.2.75. Group F, Division 2, up to 4 Storeys, Increased Area, Sprinklered", Council strikes out the word "Code", and substitutes "By-law".
- 50. In Table 3.10.1.1. of Division B of Book I, under the heading "3.6.2.6. Door Swing for Service Rooms", in the line associated with "[F30-OS3.1.], Council strikes out the text "
- 51. In Article 4.1.1.3. of Division B of Book I, in Sentences (3) and (5), Council italicizes the word "construction" wherever it appears.
- 52. In Article 4.1.2.1. of Division B of Book I, Council strikes out Table 4.1.2.1. and substitutes:

Table 4.1.2.1.
Importance Categories for Buildings
Forming Part of Sentence 4.1.2.1.(3)

Use and Occupancy	Importance Category
 Buildings that represent a low direct or indirect hazard to human life in the event of failure, including: low human-occupancy buildings, where it can be shown that collapse is not likely to cause injury or other serious consequences minor storage buildings 	Low ⁽¹⁾
All buildings except those listed in Importance Categories Low, High and Post-disaster	Normal
Buildings that are likely to be used as post-disaster shelters, including buildings whose primary use is: • as an elementary, middle or secondary school • as a community centre • Manufacturing and storage facilities containing toxic, explosive or other hazardous substances in sufficient quantities to be dangerous to the public if released(1)	High
Post-disaster buildings are buildings that are essential to the provision of services in the event of a disaster, and include: • hospitals, emergency treatment facilities and blood banks • telephone exchanges • power generating stations and electrical substations	Post-disaster

- control centres for air, land and marine transportation
- public water treatment and storage facilities, and pumping stations
- sewage treatment facilities and buildings having critical national defence functions
- buildings of the following types, unless exempted from this designation by the Chief Building Official:⁽²⁾
 - o emergency response facilities
 - fire, rescue and police stations, and housing for vehicles, aircraft or boats used for such purposes
 - o communications facilities, including radio and television stations

Notes to Table 4.1.2.1.:

- (1) See Note A-Table 4,1.2.1.
- (2) See Note A-1.4.1.2.(1), Post-disaster Buildings, in Division A.
 - 53. In Article 4.1.3.2. of Division B of Book I, Council:
 - a) Strikes out Table 4.1.3.2.-B and substitutes:

Table 4.1.3.2.-B
Load Combinations With Crane Loads for Ultimate Limit States
Forming Part of Sentences 4.1.3.2.(2), (5) to (8), and (10)

Case	Load Combination ⁽¹⁾		
	Principal Loads	Companion Loads	
1	$(1.25D^{(2)} \text{ or } 0.9D^{(3)}) + (1.5C + 1.0L_{XC})$	1.0S ⁽⁴⁾ or 0.4W	
2	$(1.25D^{(2)} \text{ or } 0.9D^{(3)}) + (1.5L_{XC}^{(5)} + 1.0C)$	1.0S ⁽⁴⁾ or 0.4W	
3	(1.25D ⁽²⁾ or 0.9D ⁽³⁾) + 1.5S	1.0C + 1.0L _{XC} ⁽⁴⁾⁽⁶⁾)	
4	(1.25D ⁽²⁾ or 0.9D ⁽³⁾) + 1.4W	1.0C ⁽⁷⁾ + 0.5L _{XC} ⁽⁴⁾⁽⁶⁾	
5	$(1.25D^{(2)} \text{ or } 0.9D^{(3)}) + C_7$	_	
6	1.0D ⁽³⁾ + 1.0E ⁽⁸⁾	1.0C _d + 0.5L _{XC} ⁽⁴⁾⁽⁶⁾ + 0.25S ⁽⁴⁾	

Notes to Table 4.1.3.2.-B:

- (1) See Sentences 4.1.3.2.(2), (3) and (4).
- (2) See Sentence 4.1.3.2.(8).
- (3) See Sentence 4.1.3.2.(5).
- (4) See Article 4.1.5.5.
- (5) See Sentence 4.1.3.2.(6).
- (6) See Sentence 4.1.3.2.(7).
- (7) Side thrust due to cranes need not be combined with full wind load.
- (8) See Sentence 4.1.3.2.(10).

", and

b) in Sentence (8), italicizes the word "soil" wherever it appears.

- 54. In Article 4.1.4.1. of Division B of Book I, in Sentence (4), Council removes the italics from the word "loads".
- 55. In Article 4.1.5.8. of Division B of Book I, in Sentence (3), Council italicizes the word "occupancy".
- 56. In Article 4.1.5.18. of Division B of Book I, in Sentence (1), Council italicizes the second occurrence of the word "occupancy".
- 57. In Article 4.1.6.10. of Division B of Book I, in Clause (4)(a), Council strikes out the value "0.0" and substitutes "θ".
- 58. In Article 4.1.6.15. of Division B of Book I, in Sentence (1), Council italicizes the word "building" wherever it appears.
- 59. In Article 4.1.7.1. of Division B of Book I, in Sentence (1), Council italicizes the word "building" wherever it appears.
- 60. In Article 4.1.7.2. of Division B of Book I, in Clause (2)(c), Council italicizes the words "building" and "grade" wherever they appear.
- In Figure 4.1.7.4. of Division B of Book I, in Figure Note (1), Council strikes out the word " $V_{(z)}$ " and substitutes "V(z)".
- 62. In Table 4.1.7.4. of Division B of Book I, in the Table Note header, Council adds "(1)" in front of the first line.
- 63. In Article 4.1.7.5. of Division B of Book I, in Sentence (2), Council italicizes the word "building" wherever it appears.
- 64. In Table 4.1.7.7. of Division B of Book I, in the first column, second row, Council italicizes the word "building" wherever it appears.
- 65. In Article 4.1.7.8. of Division B of Book I, Council strikes out Sentence (4) and substitutes the following
 - "4) For the design of the main structural system, C_g shall be calculated as follows:

$$C_g = 1 + g_p \frac{\sigma}{\mu}$$

where

 g_p = peak factor calculated as $\sqrt{2ln(vT)} + \frac{0.577}{\sqrt{2ln(vT)}}$, and

$$\sigma/\mu = \sqrt{\frac{K}{C_e H}} \left(B + \frac{sF}{\beta}\right),$$

where

 ν = average fluctuation rate calculated as $f_{nD}\sqrt{\frac{sF}{sF+\beta B}}$,

T = 3600 s,

K = 0.08 for open terrain and 0.10 for rough terrain,

C_{eH} = exposure factor evaluated at reference height h = H,

B = background turbulence factor, a function of w/H determined from Figure 4.1.7.8.,

s = size reduction factor calculated as $\frac{\pi}{3} \left[\frac{1}{1 + \frac{8f_n H}{3V_H}} \right] \left[\frac{1}{1 + \frac{10f_n w}{V_H}} \right]$,

F = gust energy ratio calculated as $\frac{x_0^2}{\left(1+x_0^2\right)^{4/3}}$, where x_0 = (1 220 f_n/V_H), and

 β = damping ratio, which shall be determined by a rational method, or may be taken to be 0.01 for steel structures, 0.02 for concrete structures, and 0.015 for composite structures,

where

f_{nD} = natural frequency of vibration of the building in the along-wind direction, in Hz,

 f_n = lowest natural frequency of the *building*, in Hz, as defined in Sentences 4.1.7.2.(2) and (3),

H = height of the building,

w = effective width of windward face of the *building* calculated as $\frac{\sum h_i w_i}{\sum h_i}$, where w_i = width normal to wind direction at height h_i, and

 $\mbox{V}_{\mbox{\scriptsize H}}$ = mean wind speed at the top of the structure, in m/s, calculated as $\overline{V}\sqrt{C_{eH}}$, where

 \overline{V} = reference wind speed at a height of 10 m, in m/s, calculated as $\sqrt{\frac{2I_wq}{\rho}C_{eH}}$,

where

I_W = importance factor,

 $q \;$ = $\;$ reference velocity pressure, in Pa, and

 ρ = air density = 1.2929 kg/m³.

(See Note A-4.1.7.8.(4).)

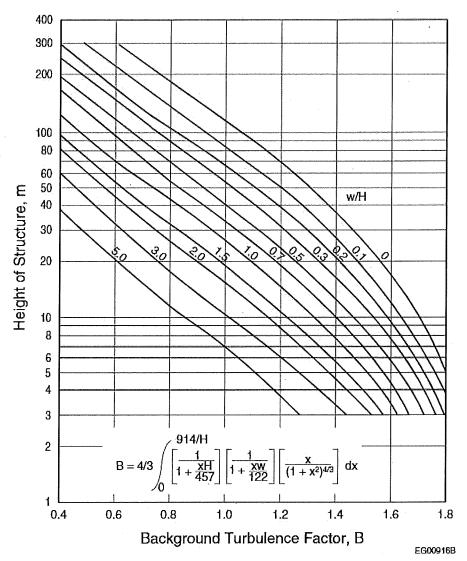


Figure 4.1.7.8.

Background turbulence factor, B
Forming Part of Sentence 4.1.7.8.(4)

- 66. In Article 4.1.8.1. of Division B of Book I, in Sentence (11), Council removes the italics within the word "interstorey" wherever it appears.
- 67. In Article 4.1.8.2. of Division B of Book I, in Sentence (1), Notation "h_s", Council removes the italics within the word "interstorey".
- 68. In Article 4.1.8.4. of Division B of Book I, in Sentence (8), Council italicizes the word "soils" wherever it appears.
- 69. In Table 4.1.8.9. of Division B of Book I, Council italicizes the word "construction" wherever it appears.

- 70. In Article 4.1.8.10. of Division B of Book I, in Sentence (1), Council italicizes the word "Storey" wherever it appears.
- 71. In Article 4.1.8.11. of Division B of Book I, in Sentence (12), Council italicizes the word "construction" wherever it appears.
- 72. In Article 4.1.8.12. of Division B of Book I, in Sentence (12), Council italicizes the word "construction" wherever it appears.
- 73. In Article 4.1.8.13. of Division B of Book I, in Sentence (3), Council removes the italics within the word "interstorey".
- 74. In Article 4.1.8.15. of Division B of Book I, in Sentence (4), Council italicizes the word "storey" wherever it appears.
- 75. In Article 4.1.8.16. of Division B of Book I, in Sentence (3), Council italicizes the words "soil" and "rock" wherever they appear.
- 76. In Article 4.1.8.16. of Division B of Book I, in Clause (8)(b), Council italicizes the word "soil" wherever it appears.
- 77. In Table 4.1.8.18. of Division B of Book I, Council:
 - a) In the header, italicizes the word "building",
 - b) In the row associated with Category 5, italicizes the word "chimney",
 - c) In the row associated with Category 24, italicizes the words "flash point", and
 - d) In the table note (1), removes the last period.
- 78. In Article 4.1.8.18. of Division B of Book I, Council:
 - a) In Sentence (13), strikes out the note reference to "A-4.1.8.18.(14)" and substitutes "A-4.1.8.18.(13)", and
 - b) In Sentence (14), strikes out the note references to "A-4.1.8.18.(15)" and "A-4.1.8.18.(16)" and substitutes "A-4.1.8.18.(14)" and "A-4.1.8.18.(15)", respectively.
- 79. In Article 4.1.8.22. of Division B of Book I, in Sentence (2), Council removes the italics within the word "interstorey".
- 80. In Article 4.2.2.1. of Division B of Book I, in Sentence (1), Council removes the italics in the first instance of the word "conditions".
- 81. In Article 4.2.2.3. of Division B of Book I, in Subclause (2)(a)(iii), Council strikes out the word "fills" and substitutes "fill".
- 82. In Article 4.2.2.7. of Division B of Book I, in Sentence (1), Council strikes out the words "Subsections 4.3.3. or" and substitutes "Subsection".

- 83. In Article 4.2.3.8. of Division B of Book I, in Clause (1)(a) after the words "ASTM A 252", Council adds the words "/A 252M".
- 84. In Article 4.2.5.8. of Division B of Book I, in Sentence (2), Council removes the italics from the word "grade".
- 85. In Article 5.1.2.2. of Division B of Book I, Council:
 - a) In Sentence (2), strikes out the words "Schedule D-1" and substitutes "Schedule D", and
 - b) In Sentence (2), strikes out the words "Schedule D-2" and substitutes "Schedule C-D".
- 86. In Article 5.8.1.3. of Division B of Book I, in Clause (1)(b) and (2)(b), Council strikes out the words "(See Note A-1.1.2.1.(b))" and substitutes "(See Note A-1.2.1.1.(b))".
- 87. In Article 5.10.1.1. of Division B of Book I, in Sentence (1), Council strikes out the words "(See Note A-1.1.2.1.(b))" and substitutes "(See Note A-1.2.1.1.(b))".
- 88. In Article 7.1.1.2. of Division B of Book I, Council strikes out Sentence (1) and substitutes
 - "1) This Part applies to the design, construction, extension, alteration, renewal, repair or operation of plumbing systems.".
- 89. In Article 8.2.1.2. of Division B of Book I, in Sentence (1), Council strikes out the word "way" and substitutes "walkway".
- 90. In Article 8.2.2.2. of Division B of Book I, in Sentence (1) after the words "adjoining buildings", Council adds the words "or adjacent municipal infrastructure".
- 91. In Article 8.2.3.4. of Division B of Book I, in Sentence (2) Council strikes out the word "park" and substitutes "parks".
- 92. In Article 8.2.4.1. of Division B of Book I, in Clause (1)(b) before the word "traffic", Council adds the words "vehicle and pedestrian".
- 93. In Article 8.2.4.1. of Division B of Book I, in Clause (2)(b) before the word "persons", Council adds a space.
- 94. In Article 8.2.5.5. of Division B of Book I, in Sentence (1), Council strikes out Clause (d) and substitutes

[&]quot;d) flammable liquids and combustible liquids or gases are stored or handled, and

e) temporary fuel-fired equipment is used.".

- 95. In Article 8.2.6.5. of Division B of Book I, at the end of Clause (2)(b), Council adds the words "of Division C".
- 96. In Article 9.6.1.3. of Division B of Book I, Council strikes out Sentence (3) and substitutes "3) Individual panes of glass conforming to Table 9.6.1.3. that are used in doors need not comply with Sentence (1).".
- 97. In Article 9.8.8.6. of Division B of Book I, in Sentence (1), Council strikes out the words "that protect a level located more than 4.2. m above the adjacent level".
- 98. In Article 9.10.14.4. of Division B of Book I, Council strikes out Clause (8)(a) and substitutes "a) **Deleted.**".
- 99. In Article 9.10.15.1. of Division B of Book I, Council
 - a) Strikes out Clause (1)(a) and substitutes "a) residential buildings containing", and
 - b) At the end of Clause(1)(a), inserts the words "dwelling unit or occupancy".
- 100. In Article 9.10.15.4. of Division B of Book I, in Clause (7)(b), Council strikes out the reference "9.10.15.5.(13)" and substitutes "9.10.15.5.(14)".
- 101. In Article 9.10.20.3. of Division B of Book I, in Sentence (1) after the words "fire department vehicles", Council adds the words "and fire fighters' path of travel".
- 102. In Article 9.11.1.1. of Division B of Book I., Council:
 - a) In Sentence (1), strikes out the words "Sentence (3)" and substitutes "Sentences (3) and (4).", and
 - b) At the end of the article inserts the following new Sentence:
 - **"4)** A *dwelling unit* in a *building* containing not more than 1 or 2 primary *dwelling units*, need not be separated from an adjoining storage garage containing not more than five stalls, provided that the adjoining separating assemblies are provided with exterior sheathing and at least 89 mm of insulation."
- 103. In Article 9.13.4.2. of Division B of Book I, in Sentence (3), Council deletes the words "or (5)".
- 104. In Article 10.2.1.2. of Division B of Book I, at the end of Clause (1)(a), Council inserts the note reference "(See Note A-10.2.1.2.(1)(a).)".
- 105. In Subsection 10.2.2. of Division B of Book I, Council strikes out the words "per cent" and substitutes "%" in:
 - a) Subclause 10.2.2.2.(2)(c),
 - b) Subclause 10.2.2.2.(2)(d),
 - c) Clause 10.2.2.13.(1),

- d) Clause 10.2.2.14.(1),
- e) Subclause 10.2.2.17.(3)(a), and
- f) Subclause 10.2.2.17.(3)(h).
- 106. In Article 10.2.2.2. of Division B of Book I, in Clause (2)(b), Council strikes out the reference "6.3.1.1.(3)(b)" and substitutes "6.2.2.1.(3)(b)".
- 107. In Article 10.2.2.3. of Division B of Book I, in Clause (1)(b), Council:
 - a) Strikes out the word "compliance" and substitutes "conformance", and
 - b) Following the reference "ASHRAE 62" inserts the words"-2001".
- 108. In Table 10.2.2.6. of Division B of Book I, in the Row associated with "Radiant Heating Suspended Floor Assembly Over Heated Area", Council strikes out the table note reference "(2 2)" and substitutes "(2)".
- 109. In Article 10.2.2.6. of Division B of Book I, Council strikes out Sentence (3) and substitutes:
 - **"3)** The effective total "R" value of the opaque envelope area, the non-opaque envelope area, and the overall envelope area, calculated by a design professional, shall be submitted as part of an application for a *permit*. (See Note A-10.2.2.6.)".
- 110. In Article 10.2.2.7. of Division B of Book I, in Table 10.2.2.7.(1), Council:
 - a) In the first column, in the third row from the bottom, strikes out the word "two" and substitutes "both",
 - b) In the first column, in the second row from the bottom, strikes out the word "two" and substitutes "both", and
 - c) In the first column, in the second row from the bottom, adds a space immediately following the number "1200".
- 111. In Article 10.2.2.12. of Division B of Book I, in Sentence (1), Council strikes out "," before the words "as determined by the following".
- 112. In Article 10.2.2.21. of Division B of Book I, Council strikes out Table 10.2.2.21. and substitutes:

Table 10.2.2.21. Maximum Tested Air Leakage Rates Forming part of Sentence 10.2.2.21.(2)	
Building Classification	Maximum Tested Air Leakage Rate
Buildings, excluding buildings containing not more than two principal dwelling units and ground-oriented dwelling units	2.03 L/s/m² at 75 Pa
Ground-oriented dwelling units	3.5 air changes per hour at 50 Pa

Suites in multi-family buildings	1.23 L/s/m² at 50 Pa
Laneway houses and subsidiary	Normalized leakage area of 2.1 cm ² /m ² @ 10
conditioned suites less than 110	Pa The Part of the
square meters floor area	

- 113. In Article 10.2.2.22. of Division B of Book I, in Sentence (4), Council strikes out the reference to "Sentence (2)" and substitutes "Sentence (3)".
- 114. In Article 11.2.1.1. of Division B of Book I, Council:
 - a) In Clause (1)(b), removes the italics from the word "conditions", and
 - b) In Sentence (4), removes the italics from the word "accessibility".
- 115. In Article 11.2.1.2. of Division B of Book I, Council
 - a) In Sentence (3), strikes out the date "July 1, 2014" and substitutes "November 1, 1999".
 - b) In Clause (2)(c) before the words "alternative upgrades", strikes out the word "an".
 - c) In Sentence (3), italicizes the word "small",
 - d) Strikes out Sentence (6), and substitutes
 - **6)** Where a building is altered and is a *post disaster building* as defined in Table 4.1.2.1., or where there is a major *addition* to a *post disaster building*, the entire *building* shall be upgraded to design upgrade levels F4, S4, N4, A4 and E4 as detailed in the Upgrade Mechanism Model in Division B Appendix A.
 - e) In Sentence (7), italicizes the words "major occupancy",
 - f) In Sentence (7), italicizes the words "arts and culture indoor event",
 - g) In Sentence (7), italicizes the word "building",
 - h) In Clause (8)(a), italicizes the word "suite",
 - i) In Clause (8)(b), removes the italics from the word "approved",
 - j) In Table 11.2.1.2., below the table title, adds the following words "Forming part of Sentence 11.2.1.2.(9)",
 - k) In Clause (9)(b) at the end of the sentence, strikes out the word "and",
 - I) In Clause (9)(c) at the end of the sentence, strikes out "." and substitutes ", and", and
 - m) In Clause (9)(d), at the end of the sentence, adds ".".
- 116. In Article 11.2.1.3. of Division B of Book I, Council:
 - a) In Sentence (2), strikes out the words "floor space" and substitutes "floor area", and
 - b) In Table 11.2.1.3. below the table title, adds the following words "Forming part of Sentence 11.2.1.3.(1),(2), and (3)".

117. In Article 11.2.1.4. of Division B of Book I, Council:

- a) In Sentence (1), strikes out the references "11.2.1.4.-A, 11.2.1.4.-B, 11.2.1.4.-C" and substitutes "11.2.1.4.(1)-A, 11.2.1.4.(1)-B, 11.2.1.4.(1)-C",
- b) Strikes out Table 11.2.1.4.(1)-A and substitutes the following:

Table 11.2.1.4.(1)-A

Fire and Life Safety Upgrade requirements for Residential Buildings containing not more than Two Principal Dwelling Units

Forming part of Sentence 11.2.1.4.(1)

Scope of Work	Smoke Alarms ⁽¹⁾	CO Alarms ⁽²⁾	Guards ⁽³⁾	Spatial Separation ⁽⁴⁾	Structural ⁽⁵⁾
Renovation	Υ	Υ	Υ	N	N
Relocation or Reconstruction	Υ	Υ	Υ	Υ	Y
Horizontal Addition Floor Area		- 1			
Up to 25% ⁽⁶⁾	Υ	Υ	Υ	N	N
Over 25% ⁽⁷⁾	Υ	Υ	Y	Υ	Υ
Vertical Addition Floor Area					
Up to 25% ⁽⁶⁾	Υ	Υ	Y	N	Y
Over 25% ⁽⁷⁾	Υ	Υ	Υ	Υ	Υ

Notes to Table 11.2.1.4.(1)-A:

- (1) Smoke Alarms: to be installed in conformance with Subsections 3.2.4. and 9.10.19. as applicable.
- (2) CO Alarms: to be installed in conformance with Subsections 6.2.4. and 9.32.4. as applicable.
- (3) Guards: all unsafe guards to be upgraded to the satisfaction of the Chief Building Official.
- (4) Spatial Separation: Spatial separation of the *building* shall comply with Subsections 3.2.3., 9.10.14. or 9.10.15. as applicable; or as permitted by Section 11.3.
- (5) All existing wood frame walls to be anchored to existing concrete foundation walls for seismic resistance
- (6) Aggregate increase in floor area less than 25% of the building area (see flow chart #2 of A-11.2.1.2).
- (7) Aggregate increase in floor area greater than 25% of the building area.

c) Strikes out Table 11.2.1.4.(1)-B and substitutes the following:

Table 11.2.1.4.(1)-B

Egress and Exit Upgrade requirements for Residential Buildings containing not more than Two Principal Dwelling Units

Forming part of Sentence 11.2.1.4.(1)

Scope of Work	Means of Egress ⁽¹⁾	Handrails ⁽²⁾	Exit Exposure ⁽³⁾	Stair Dimensions ⁽⁴⁾	Building Services ⁽⁵⁾	Falling Hazards (6)
Renovation	N ·	. Y	N	N	N	N
Relocation or	Υ	Υ	Υ	Υ	Υ	Υ
Reconstruction						
Horizontal Addition Flo	or Area					
Up to 25% ⁽⁷⁾	Υ	N	N	N	N	Y
Over 25% ⁽⁸⁾	Υ	Υ	Υ	Υ	Υ	Y
Vertical Addition Floor	Área					
Up to 25% ⁽⁷⁾	Υ	Υ	N	N	N	Y
Over 25% ⁽⁸⁾	Υ	Υ	Υ	Υ	Υ	Y

Notes to Table 11.2.1.4.(1)-B:

- (1) Means of Egress: confirm that access to exit (9.9.9.) and means of escape (9.9.10.) from all floor areas is compliant with regards to travel distance and fire separation (where applicable).
- (2) Handrails: all unsafe handrails to be upgraded to the satisfaction of the Chief Building Official.
- (3) Exit Exposure: Exits to be confirmed to be compliant with regards to exit exposure where applicable.
- (4) Stair Dimensions: Existing stairs in means of egress to comply with the dimensional requirements of Subsection 9.8.2.
- (5) Building Services: Restrain building service piping, conduit, and appliances to resist lateral movement due to earthquake.
- (6) Falling hazards: Restrain falling hazards within 3 m of the egress path to resist lateral movement due to earthquake.
- (7) Aggregate increase in floor area less than 25% of the building area (see flow chart #2 of A-11.2.1.2).
- (8) Aggregate increase in floor area greater than 25% of the building area.
 - d) Strikes out Table 11.2.1.4.(1)-C and substitutes the following:

Table 11.2.1.4.(1)-C

Floor Areas Upgrade requirements for Residential Buildings containing not more than Two Principal Dwelling Units

Forming part of Sentence 11.2.1.4.(1)

Scope of Work	Flame Spread ⁽¹⁾	Floor Fire Separations ⁽²⁾	Suite Fire Separations ⁽³⁾	Lighting & Emergency Lights ⁽⁴⁾	Door Hardware ⁽⁵⁾
Renovation	. N	N	N	N	N
Relocation or Reconstruction	Υ	Υ	Υ	Υ	Υ
Horizontal Addition Floor Area					
Up to 25% ⁽⁶⁾	N	N	N	N	N
Over 25% ⁽⁷⁾	Υ	Υ	Υ	Υ	Υ
Vertical Addition Floor Area			1		
Up to 25% ⁽⁶⁾	N	N	N	Υ	N
Over 25% ⁽⁷⁾	Υ	Y	Υ	Υ	Υ

Notes to Table 11.2.1.4.(1)-C:

- (1) Flame Spread Rating: Exposed wall and ceiling finishes of egress routes to meet the requirements of Subsection 9.10.17. in exits
- (2) Floor Fire separations: Floor and occupied roof assemblies to be fire rated per Article 9.10.8.1.
- (3) Suite Fire Separations (where applicable): Residential suites to be provided with a fire separation in accordance with Article 9.10.9.14. and Section 9.37.
- (4) Lighting & Emergency Lights (where applicable): Lighting and emergency lighting to be provided in means of egress in accordance with Subsection 9.9.12.
- (5) Door Hardware: Door hardware within existing floor areas to be made adaptable as per Subsection 3.8.5.
- (6) Aggregate increase in floor area less than 25% of the building area (see flow chart #2 of A-11.2.1.2).
- (7) Aggregate increase in floor area greater than 25% of the building area.
 - e) In Sentence (2), italicizes the word "building" wherever it appears,
 - f) In Table 11.2.1.4.(2), Council strikes out the title and substitutes the following:

Table 11.2.1.4.(2)

Energy Efficiency Upgrade Requirements for Residential Buildings containing not more than Two Principal Dwelling Units (except as permitted by Clause 11.2.1.2.(9)(d))

Forming part of Sentence 11.2.1.4.(2)

- g) In Sentence (3), Council strikes out "dwelling units" and substitutes "residential dwelling units", and
- h) Strikes out Sentence (4).
- 118. In Article 11.2.1.5. of Division B of Book I, in Sentence (3), Council:
 - a) Strikes out the title and substitutes "Self-contained Volumetric Space", and
 - b) In Clause (1)(b) removes the italics from the word "exit".
- 119. In Article 11.2.1.11. of Division B of Book I, in Sentence (1), Council:
 - a) Italicizes the word "acceptable", and
 - b) Italicizes the word "marina".
- 120. In Article 11.3.1.1. of Division B of Book I, Council:
 - a) In Sentence (2), italicizes the word "construction" wherever it appears, and
 - b) In Sentence (4), after the words "Parts 1 to 10", adds "and Part 12".
- 121. In Article 11.3.1.2. of Division B of Book I, Council:
 - a) In Sentence (1), deletes the date "July 1, 1994" and substitutes "November 1, 1999".
 - b) In Sentence (3), after the words "requirements of Subsection 3.2.3." adds the words "or Subsection 9.10.14.",
 - c) In Sentence (4), strikes out the words "used as an alternative" and substitutes the word "applied",
 - d) In Sentence (5), strikes out the words "used as an alternative" and substitutes the word "applied",
 - e) In Sentence (6), strikes out the words "the applicable relaxations of" and substitutes the words "used as an alternative", and
 - f) In Sentence (7), strikes out the words "alternative compliance measures as detailed".
- 122. In Article 11.3.2.1. of Division B of Book I, in Sentence (2), Council removes the italics from the words "or" and "used singly or in combination".
- 123. In Article 11.3.2.2. of Division B of Book I, Council:
 - a) In Sentence (3), Council italicizes the word "building", and
 - b) In Clause (3)(b) Council italicizes the word "exit".
- 124. In Article 11.3.2.3. of Division B of Book I, Council:
 - a) In Clause (1)(b) after the words "on the *first storey* or second *storey*", adds the words "or the *building area* does not exceed 400 m²", and
 - b) In Sentence (2) after the reference to "11.3.2.4.(2)", adds the words "and (3)".

- 125. In Article 11.3.2.4. of Division B of Book I, Council:
 - a) In Clause (1)(d), italicizes the words "loadbearing" and "fire-resistance rating", and
 - b) In Subclause (2)(d)(ii), italicizes the words "noncombustible construction".
- 126. In Article 11.3.2.5. of Division B of Book I, in Sentence (1), Council strikes out the word "downstairs" and substitutes "down stairs".
- 127. In Article 11.3.2.8. of Division B of Book I, Council:
 - a) In Sentence (3), italicizes the words "mezzanine" and "fire-resistance rating",
 - b) In Table 11.3.2.8., strikes out the header text "Forming a part of Sentence 11.3.2.8.(2)" and substitutes "Forming a part of Sentence 11.3.2.8.(3)", and
 - c) In Clause (4)(f), italicizes the word "exit".
- 128. In Article 11.3.2.9. of Division B of Book I, Council:
 - a) In Sentence (3), strikes out the words "be of *combustible construction* or *noncombustible construction* used singly or in combination" and substitutes "noncombustible construction",
 - b) In Sentence (4), strikes out the words "be of noncombustible" and substitutes "retain existing combustible",
 - c) In Clause (5)(a), italicizes the words "sprinkler system", and
 - d) In Table 11.3.2.9., strikes out the header text "Forming a part of Sentence 11.3.2.9.(2)" and substitutes "Forming a part of Sentence 11.3.2.9.(3)".
- 129. In Article 11.3.2.10. of Division B of Book I, Council:
 - a) In Sentence (2), inserts a space immediately following the reference "Table 11.3.2.10.",
 - b) In Subclause (2)(c)(i), strikes out the word "or" at the end of the Subclause,
 - c) In Subclause (2)(c)(ii), strikes out the word "and" and substitutes "or",
 - d) In Sentence (3), strikes out the words "be of *combustible construction* or noncombustible construction used singly or in combination" and substitutes "noncombustible construction",
 - e) In Sentence (4), strikes out the words "be of *combustible construction* or noncombustible" and substitutes "retain existing *combustible*", and
 - f) In Clause (5)(a), italicizes the words "sprinkler system" and "building".
- 130. In Article 11.3.3.2. of Division B of Book I, Council italicizes the words "fire stopped" in the following locations:
 - a) Clause (1)(c) wherever it appears,
 - b) Clause (2)(b) wherever it appears, and
 - c) Clause (3)(c) wherever it appears.
- 131. In Article 11.3.3.4. of Division B of Book I, Council:

- a) In Clause 1(a) after the words "the openings are constructed", inserts the words "with non-operable *closures*",
- b) Clause (1)(b) at the end of the clause, adds the word "or",
- c) In Sentence (2), strikes out the references "Tables 3.2.3.1.B, 3.2.3.1.C, 3.2.3.1.D or 3.2.3.1.E" and substitutes "Tables 3.2.3.1.B, 3.2.3.1.C, 3.2.3.1.D, 3.2.3.1.E or 9.10.14.4.A"...
- d) In Sentence (3), italicizes the words "exposing building face",
- e) In Clause (3)(b), italicizes the words "dwelling units",
- f) In Clause (3)(c), italicizes the words "building" and "exposing building face", and
- g) In Clause (3)(d), italicizes the words "limiting distance".
- 132. In Article 11.3.5.2. of Division B of Book I, in Clause (2)(b), Council italicizes the word "sprinklered".
- 133. In Subsection 11.3.5. of Division B of Book I, Council adds a new Article 11.3.5.4. as follows:

"11.3.5.4. Existing Stairs

- 1) Existing egress stairs with rectangular treads in straight *flights*, other than those serving seating areas, may be retained provided that
 - a) existing tread and riser dimensions within a *flight* comply with Table 11.3.6.9.(4),

	Table 11.3.6.9 Dimensions of Exis	· ·
	Forming Part of Senten	
	Maximum (mm)	Minimum (mm)
Rise	205	125
Run	355	200

- b) existing treads and landings shall
 - i) be dimensionally uniform,
 - ii) have a finish that is slip resistant,
 - iii) have nosings with distinct colour contrast for the full width of the leading edge of each tread visible in both direction of travel, and
 - iv) have no projecting stair nosing, rakeback, or combination thereof, exceeding 38 mm or angle of more than 30 degrees from the vertical,
- c) lighting is provided to
 - i) an average level of not less than 100 lx at floor or tread level, and
 - ii) the minimum value of the illumination required by (i) shall be not less than 20 lx,
- d) emergency lighting is provided to
 - i) an average level of illumination of not less than 20 lx at floor or tread level.

- ii) a minimum value of the illumination required by (i) shall be not less than 2 lx, and
- iii) provided with emergency power in accordance with Article 3.2.7.4.,
- e) handrails are provided conforming to the requirements of Article 3.4.6.5., and
- f) tread and landings of exterior egress stairs are designed to be free of ice and snow accumulations."
- 134. In Article 11.3.6.1. of Division B of Book I, in Clause (1)(a), Council italicizes the word "sprinklered".
- 135. In Article 11.3.6.7. of Division B of Book I, in Sentence (1) after the words "openings and existing", Council adds the word "service".
- 136. In Article 11.3.6.8. of Division B of Book I, in CLause (2)(b) after the words "between each storey", Council adds the words "or *mezzanine*".
- 137. In Article 11.3.6.9. of Division B of Book I, Council strikes out Sentence (4).
- 138. In Article 11.3.7.1. of Division B of Book I, in Sentence (4), Council
 - a) In Clause (1)(d), italicizes the word "exit", and
 - b) In Sentence (3), italicizes the words "floor area" and "exit".
- 139. In Article 11.3.8.1. of Division B of Book I, Council strikes out Subclause (1)(c)(ii) and substitutes "ii) a side discharge configuration that terminates vertically only in a manner that minimizes condensation on adjacent surfaces.".
- 140. In Article 11.4.1.1. of Division B of Book I, in Sentence (2), Council strikes out the words "acceptable solutions" and substitutes "measures".
- 141. In Article 11.4.2.1. of Division B of Book I, Council:
 - a) Strikes out Clause (1)(b) and substitutes "b) the *community care facility* or group residence is",
 - b) In Subclause (1)(b)(i), after the words "for the residential", adds the words "portions of the",
 - c) In Subclause (1)(b)(ii) after the words "for the residential", adds the words "portions of the", and
 - d) In Clause (1)(c), strikes out the words "Clauses 3.1.2.5.(3)(a) and (b)" and substitutes "Clauses 3.1.2.8.(1)(a) and (b)".
- 142. In Article 11.4.2.2. of Division B of Book I, in Sentence (7), Council strikes out the word "need" and substitutes "shall".
- 143. In Article 11.4.2.9. of Division B of Book I, in Sentence (7), Council strikes out the reference "3.2.4.8." and substitutes "3.2.4.7.".

144. In Article 11.4.3.1. of Division B of Book I, Council:

- a) In Sentence (1), italicizes the words "existing building",
- b) In Clause (5)(a), strikes out the word "residiential" and substitutes "residential", and
- c) Strikes out Table 11.4.3.1. and substitutes the following:

Table 11.4.3.1. Fire Safety Requirements for Ancillary Residential Suite Conversions Forming Part of Article 11.4.3.1.

<u>ltem</u>	Item Details	Alternative compliance measure
Spatial Separation	Existing windows and doors	Original openings may remain and new openings to conform to Part 9
	Separation between a principal dwelling unit and its contained ancillary residential units	Existing lath and plaster in good condition or 13 mm gypsum wall board on wood studs at maximum 45 mm on centre. Where possible stud cavity to be filled with minimum 90 mm (3 ½") mineral wool insulation. Caulk joints where floor and ceiling meet wall GWB. Use resilient acoustic channels where possible.
Fire Containment within a Principal <i>Dwelling Unit</i>	Ducts common to both units through <i>suite</i> separations	Fire dampers not required if sheet metal ducting extends a minimum of 1800 mm (6'-0") beyond the suite separation and the opening is firecaulked. Acoustic insulation is to be used inside the common duct extending a minimum of 1500 mm (60") from either side of the suite separation.
	Plumbing and sprinkler plastic piping that penetrate fire separations	Shall be tightly fitted, cast in place, or caulked as per product listing
	Suite entry doors between the principal dwelling unit and its contained ancillary residential unit	Existing solid core doors and frames with or without wired glass in good condition. Doors to be provided with positive latching hardware and self-closing devices
	Solid Blocking	Solid blocking may be omitted for doors described in Sentence 9.7.5.2.(9) where the interior wall finish adjacent the door is in place prior to the construction of an <i>ancillary residential suite</i> .
Exits	Egress from each dwelling unit	In combination with the Egress Windows requirement of Sentence 9.9.10.1., at least one conforming <i>exit</i> is required from the principal dwelling and one from the <i>ancillary residential suite</i> .
	Windows adjacent to exits	No requirements where the suite is sprinklered
Fire Department Access	Access Path	Existing path designated for fire department is permitted to be minimum 860 mm
Flame Spread Rating	Exits	≤150
	Remainder of building	No requirement
Sprinklers		Sprinklers are not required provided the value of the alteration is less than or equal to 50% of the replacement ⁽¹⁾ value of the existing building.
Heating Systems	Furnace room enclosure	No separation required but provide proper combustion air and required clearances from all equipment (2)

Entire building	room and in a location between the sleeping room and the remainder of the storey and if the sleeping room is served by a hallway, the smoke alarm to be located in the hallway. Installed by permanent connections to an electrical circuit in conformance with Subsection 9.10.19. Division B. Provided with battery backup and manual silencing devices which will silence the alarm in conformance with Article 9.10.19.6, of Division B. Carbon Monoxide detectors to be provided in accordance with the 9.32.4.2. ⁽³⁾
Entire building	Existing stairs to comply with Section 9.8, excepting the following dimensions: tread depth 235-355 mm, rise 125-200 mm and run 210-355 mm, unless considered to present an unsafe condition as determined by the Chief Building Official. All existing stairs to have at least one handrail in conformance with Subsection 9.8.7
Entire building	Existing guards may be retained provided they are structurally sound, non-climbable and ≥900 mm high.
Entire building	May be reduced to 1980 mm over 80% of the suite area and all egress routes.
Entire building	Any condition within or around the building which could cause undue hazard or risk to persons to be corrected as directed by the Chief Building Official.
Between the principal dwelling unit and its contained ancillary residential unit	Not required. Fill cavity spaces of suite separation with mineral wool
	Entire building Entire building Entire building Entire building Between the principal dwelling unit and its contained ancillary

145. In Article 11.4.4.1. of Division B of Book I, in Clause (1)(g), Council strikes out the words "Part 4" and substitutes "this By-law".

146. In Article 11.4.5.1. of Division B of Book I, Council:

a) In Clause (1)(f) before the word "building", adds the word "entire", and

- b) In Clause (1)(k), strikes out the reference "Section 5.9." and substitutes "Section 5.8.".
- 147. In Article 11.4.6.1. of Division B of Book I, Council:
 - a) In Sentence (1), italicizes the words "major occupancy", and
 - b) in Clause (1)(i), strikes out the reference "Section 5.9." and substitutes "Section 5.8.".
- 148. In Article 11.4.7.1. of Division B of Book I, in Sentence (2), Council italicizes the word "buildings".
- 149. In Article 11.5.1.1. of Division B of Book I, Council:
 - a) In Clause (4)(a), deletes the reference "9.7.5.1.(1)(a) or (b)" and substitutes "9.7.5.1.(3)(a) or (b)", and
 - b) Strikes out Table 11.5.1.1. and substitutes

	Alternate Complian	Table 11.5.1.1. ce Measures for Heritage Buildings art of Sentence 11.5.1.1.(2)
No.	By-law Requirement	Alternate Compliance Method
1	Fire Separations Sentence 3.1.3.1.(1) and Table 3.1.3.1.; Subsection 9.10.9. 2 h fire separation required between some major occupancies.	Except for F1 occupancies, 1 h fire separation is acceptable, if the building is sprinklered.
2	Fire Separations Sentence 3.1.3.1.(1) and 3.1.3.1.; Subsection 9.10.9. 1 h fire separation required between some major occupancies.	1/2 h fire separation is acceptable if the building is sprinklered.
3	Noncombustible Construction Subsection 3.1.5. and Article 9.10.6.1. All materials used in noncombustible construction must be noncombustible unless otherwise permitted.	 Roofs may be of combustible construction provided the building is sprinklered. Up to 10% gross floor area to a maximum of 10% of any one floor area may be of combustible construction provided the building is sprinklered.
4	Fire-resistance Rating Sentence 3.1.7.1.(1); Article 9.10.3.1. Where a material, assembly of materials or structural member is required to have a fire-resistance rating it shall be tested in accordance with CAN/ULC-S101.	A fire-resistance rating may also be used based on: 1. HUD No. 8 Guideline on Fire Ratings of Archaic Materials and Assemblies. 2. Fire Endurance of Protected Steel Columns and Beams, DBR Technical Paper No. 194. 3. Fire Endurance of Unit Masonry Walls, DBR Technical Paper No. 207. 4. Fire Endurance of Light-Framed and Miscellaneous Assemblies, DBR Technical Paper No. 222.
5	Rating of Supporting Construction	Heavy timber construction is permitted to have a fire resistance

	Article 3.1.7.5.; Article 9.10.8.3. Supporting assemblies to have fire resistance rating at least equivalent to that of the supported floor.	rating less than would be required by the By-law provided the building: (a) is sprinklered, and (b) does not exceed 6 storeys in building height.
6	Continuity of Fire Separations Sentence 3.1.8.3.(1) and 3.1.8.3.(2); Article 9.10.9.2. Fire separations are required to be continuous above the ceiling space.	Fire separations are not required to be continuous above the ceiling space where: (a) the ceiling space is non-combustible construction, (b) both fire compartments are sprinklered, or (c) the ceiling has a minimum rating of 30 minutes.
7	Wired Glass Sentences 3.1.8.5.(1) and Article 3.1.8.16.; Articles 9.10.13.1. and 9.10.13.5. 6 mm wired glass in steel frame required in fire separations.	For fixed transoms or sidelights, 6 mm wired glass fixed to a wood frame of at least 50 mm thickness with steel stops is permitted in a required <i>fire separation</i> .
8	Mezzanines Sentences 3.2.1.1.(3) to 3.2.1.1.(6); Article 9.10.4.1. Mezzanines enclosing more than 10% above the horizontal plane are considered as storey in building height.	Enclosed mezzanines may be up to 40% of the storey in which they occur and not be considered a storey in building height if the building is sprinklered.
9	Building Height Articles 3.2.2.20. to 3.2.2.90. Noncombustible construction required for buildings over 3 storeys in building height.	Buildings may be of combustible construction up to 6 storeys provided: (a) the building is sprinklered (b) the building contains Group C, D, E, F2 or F3 occupancies, and (c) floor assemblies not required to exceed 1 h fire separation requirements may be of heavy timber construction.
10	Spatial Separation Subsection 3.2.3.; Subsection 9.10.14. The area of <i>unprotected opening</i> shall not exceed the limits in Tables 3.2.3.1.A to 3.2.3.1.E	The area of existing <i>unprotected opening</i> is not limited provided: (a) the <i>limiting distance</i> is a minimum 1 m, (b) the <i>building</i> has a supervised <i>sprinkler system</i> in conformance with Article 3.2.4.9., (c) the existing <i>unprotected openings</i> are protected with close spaced sprinklers per clause 11.3.3.4.(b), and (d) the <i>sprinkler system</i> is designed to notify the fire department in conformance with Article 3.2.4.7.
11	Construction of Exposing Building Face Article 3.2.3.7.; Article 9.10.14.5. The exposing building face is required to have a fire-resistance rating and/or be of noncombustible construction.	Exposing building face is not required to have a fire resistance rating if the building is sprinklered. Also, the exposing building face is not required to be of noncombustible construction if it is protected by an exterior sprinkler system conforming to NFPA 13.
12	Roof Covering Rating Sentence 3.1.15.2.(1) Class A, B or C roof covering in conformance with CAN/ULC-S107 required.	For existing roofs not covered by a Class A, B or C roofing, a manually operated deluge system in accordance with NFPA 13 is permitted.

	Smoke Alarms	
13	Sentences 3.2.4.21.(5) and 3.2.4.21.(6); Sentence 9.10.19.1.(2) Smoke alarms are required to be connected to an electric circuit.	Smoke alarms may be battery operated in a residential building containing not more than one principal dwelling unit.
14	Interconnected Floor Space Subsection 3.2.8.; Sentence 9.10.1.3.(6)	1. Open stairs in buildings of maximum 4 storeys in building height need not comply with Subsection 3.2.8. provided: (a) the building contains a Group C or D occupancy, (b) the building is sprinklered with fast-response sprinklers, (c) corridors opening into the interconnected floor space are separated from the interconnected floor space by a fire separation with the rating required for the corridor, and (d) smoke detectors are installed in the rooms opening into the interconnected floor space and the smoke detectors are connected to the fire alarm system. 2. Open stairs in buildings of maximum 3 storeys in building height, or the first 2 storeys and basement, need not comply with Subsection 3.2.8. provided: (a) the building contains a Group C or D occupancy, (b) the building is sprinklered with fast-response sprinklers, (c) smoke detectors are installed in the rooms opening into the interconnected floor space and the smoke detectors are connected to the fire alarm system, and (d) at least one means of egress is not through the interconnected floor space.
15	Suites are required to be separated	Existing fire separations of 30 min, such as wood lath and plaster in good condition, are acceptable in sprinklered buildings not exceeding 6 storeys in building height.
16	Public corridors are required to be separated from the remainder of the building by a fire separation having a	Existing corridors with 30 min <i>fire-resistance ratings</i> , such as wood lath and plaster in good condition, are <i>acceptable</i> in <i>residential occupancies</i> provided the <i>building</i> : (a) does not exceed 6 <i>storeys</i> in <i>building height</i> , and (b) is fully <i>sprinklered</i> with fast-response sprinklers.
17	Article 9.9.3.3. Public corridors and exit corridors are	Public corridors and exit corridors are required with a minimum width of 800 mm provided: (a) the occupant load of the building is maximum 20 people, and (b) the building does not exceed 3 storeys in building height.
18	Articles 3.3.1.11. and 3.4.6.12.; Article 9.9.6.5. Doors required to swing in the direction	Second egress door from a room is not required to swing in the direction of <i>exit</i> travel provided: (a) the <i>building</i> is <i>sprinklered</i> and the system is supervised in conformance with Sentence 3.2.4.9.(3), and (b) the <i>occupant load</i> of the <i>building</i> is a maximum of 100 people.

19		Existing conditions that do not comply fully with the requirements are permitted if they are acceptable to the Chief Building Official.
20,	Transparent Doors and Panels Article 3.3.1.19.; Article 9.6.1.4. Glass in doors and sidelights are required to be protected by <i>guards</i> and to be safety glass.	Existing glass or transparent panels that do not comply fully with the requirements are permitted if sufficiently discernible or <i>guards</i> are provided in <i>unsafe conditions</i> .
21	Dead-end Corridors Sentence 3.3.1.9.(7); Article 9.9.7.3. Dead-end corridors are permitted to a maximum length of 6 m.	 Dead-end corridors are permitted to a maximum length of 10 m in Group C occupancies provided: (a) the building is sprinklered with fast-response sprinklers, and (b) smoke detectors are installed in the corridor system. Dead-end corridors are permitted to a maximum of 15 m in length in Group D, E, F2 and F3 occupancies provided: (a) the building is sprinklered with fast-response sprinklers, and (b) smoke detectors are installed in the corridor system.
22	Floor areas shall be served by not fewer	Floor areas may be served by a single exit within the limits of Sentence 3.4.2.1.(2) provided: (a) the building does not exceed 3 storeys in building height, (b) the building is sprinklered with fast-response sprinklers, and (c) all floor areas are protected by a system of smoke detectors connected to a fire alarm system.
23	Sentence 3.4.3.3.(2); Article 9.9.6.1. Swinging doors in their swing shall not reduce the effective width of exit stairs.	Existing swinging doors in their swing are permitted to reduce the effective width of exit stairs and landings to a minimum of 550 mm provided: (a) they serve Group C or D occupancies, (b) the building does not exceed 4 storeys in building height, and (c) the building is sprinklered.
24	Article 3.4.4.1.; Subsection 9.9.4. Article 3.4.4.1.; Subsection 9.9.4. Exits are required to be separated from the remainder of the floor area by a fire separation having a fire-resistance rating of not less than 3/4 h.	1. Buildings of 3 storeys or less may have exits that are separated by a fire separation that does not have a fire-resistance rating provided: (a) the building is sprinklered with fast-response sprinklers, and (b) the sprinkler system is supervised in accordance with Sentence 3.2.4.9.(2). 2. Buildings not exceeding 6 storeys in building height may have exits that are separated by a 45 min fire separation provided the building is sprinklered.
25	Exits Through Lobbies Article 3.4.4.2.; Article 9.9.8.5. Rooms adjacent to the lobby are	Rooms adjacent to the lobby are not required to be separated by a fire separation provided: (a) the floor area is sprinklered with fast-response sprinklers, and (b) smoke detectors are installed in the adjacent rooms.
26	Rooms Opening into an <i>Exit</i> Sentence 3.4.4.4.(7); Article 9.9.5.9. Service rooms and ancillary rooms are	Service rooms and ancillary rooms may open directly into an exit provided: (a) the rooms are sprinklered with fast-response sprinklers, and (b) weather stripping is installed on the doors to prevent the

	exit.	passage of smoke.
27	Illumination of Exit Signs Sentences 3.4.5.1.(3) and 3.4.5.1.(4); Sentences 9.9.11.3.(2) to 9.9.11.3.(6) Exit signs are required to be illuminated continuously while the building is occupied.	Where exit signage may compromise historic appearances, or authenticity of displays, exit signs may be installed to light only on an emergency condition, such as by the fire alarm system or due to power failure.
28	Clearance from Exit Doors Sentence 3.4.6.11.(1); Article 9.9.6.6. Stair risers shall not be closer than 300 mm from an exit door.	Except as permitted in Sentences 3.4.6.11.(3) or 9.9.6.6.(2), existing <i>exit</i> doors shall not extend beyond the first riser.
29		Existing fire escapes that do not completely conform to Subsection 3.4.7. are acceptable provided: (a) the fire escapes are acceptable, and (b) the building is sprinklered.
30	Fire Escape Construction 3.4.7.2.; Sentence 9.9.2.1.(2)	Existing <i>combustible</i> fire escapes are permitted if the <i>building</i> is permitted to be of <i>combustible construction</i> by Part 3, Part 9 or by this table.
31	Protection of Fire Escapes Article 3.4.7.4.; Sentence 9.9.2.1.(2) Openings in the exterior wall adjacent to the fire escape are required to be protected by closures.	Existing openings in the exterior wall adjacent to the fire escape are not required to be protected by closures provided: (a) the <i>building</i> is <i>sprinklered</i> , and (b) a sprinkler head is located within 1.5 m of the opening required to be protected by Article 3.4.7.4.
32	Vertical service spaces are required to	Existing vertical service spaces that do not completely conform to the rated fire separation requirements are acceptable provided the vertical service spaces are sprinklered.
33	Height and Area of Rooms Subsection 3.7.1.; Section 9.5. The height and area of rooms are	Existing rooms are not required to comply to the minimum dimension requirements of Subsection 3.7.1. or Section 9.5.
34	Buildings are required to be provided	Existing facilities are not required to completely comply to the requirements of Subsection 3.7.2. or Section 9.31. provided it is acceptable to the Chief Building Official.
35	Decoration Subsection 4.1.8	Existing exterior decorations are not required to fully comply to the anchorage requirements of Subsection 4.1.8. provided: (a) acceptable means of protection is provided, or (b) there is no exposure to the public.
36	Mechanical Systems Part 6 and Part 7	Existing mechanical systems in buildings are not required to fully comply to the requirements of Parts 6 or 7 provided: (a) it is not an <i>unsafe condition</i> , and (b) it is acceptable to the Chief Building Official.
37		The existing level of energy and water efficiency in a building is

Parts 9, 10 and 11	not required to comply with the requirements of Parts 9, 10 or 11
	provided the level of energy efficiency is acceptable to the Chief
	Building Official.

- 150. In Article 11.6.1.1. of Division B of Book I, in Clause (1)(c), Council removes the italics from the word "existing".
- 151. In Article 11.6.1.2. of Division B of Book I, in Sentence (4), Council italicizes the word "buildings" where it follows the word "temporary".
- 152. In Article 11.6.2.1. of Division B of Book I, Council:
 - a) In Clause (1)(e), removes the italics from the word "approved",
 - b) In Clause (1)(f), removes the italics from the word "approved",
 - c) Sentence (3), strikes out the reference "6.2.2.7." and substitutes "6.3.1.7.",
 - d) In Sentence (4), removes the italics from the word "approved", and
 - e) Strikes out Table 11.6.2.1. and substitutes

Table 11.6.2.1. Requirements for Arts and Culture Indoor Events Forming part of Article 11.6.2.1.					
Occupant Load for Event	Occupant Load Approval Required ⁽¹⁾	Minimum number of Exits Required	Exit Signage Required	Supervisory Staff at Egress/Exit Door Required ⁽²⁾	VPD Security Assessment Required ⁽⁵⁾
≤ 60 people for private SOL ⁽³⁾ or dry event ⁽⁴⁾	Yes	1	No	1	No
≤ 60 people for public SOL	Yes	1	No	1	Yes
61-250 people for private SOL ⁽³⁾ dry event ⁽⁴⁾ or public SOL ⁽³⁾	Yes	2	Yes	2	Yes

153. In Article 11.6.3.1. of Division B of Book I, Council strikes out Table 11.6.3.1. and substitutes

Alternate Accentable Solutions	Table 11.6.3.1. for Temporary Special Events Facilities, Emergency Shelters and Temporary
Alternate Acceptable Colutions	Buildings Forming part of Sentence 11.6.3.1.(1)
No. By-law Requirement Division B	Alternate Compliance Measures
1 Flame Resistance Fabric t	ent material may conform to

41

		26 gauge galvanized sheet metal kitchen exhaust ducts with seams are permitted provided clean-out access panels are provided at all elbow locations and at 6 m spacing
	Separation Part 5	Part 5 does not apply.
0.000	Swing 3.4.6.12. Door Release Hardware 3.4.6.16.	Tent exit doors may be equipped with fabric flaps, tie straps, zippers, or VELCRO brand or equivalent hook and loop fasteners in lieu of doors that swing on a vertical axis provided a) a minimum of two exit doors are be provided for each tent, b) the occupant load of the tent does not exceed 60, and c) supervisory staff are trained for emergency evacuation procedures, and remain in the vicinity of the exit at all times. Temporary sliding gates may be used as exit doors provided a) gates are left open during normal operating hours and always manned by supervisory staff, b) gates are closed during non-operating hours, and locked, c) operational procedures are in place to ensure that the gates are unlocked during operating hours, and d) supervisory staff are trained for emergency evacuation procedures.
-	3.4.6.8.	In locations where it is not practical for persons with disabilities to work, stairs with no public access, may have a) runs of not less than 250 mm between successive steps, b) risers between successive treads not less than 125 mm and not more than 190 mm, and c) open risers. Tent avif doors may be equipped with febria flore, the strong gippers, or VELCRO bread.
		Openings greater than 100 mm may be permitted in <i>guards</i> where a) the <i>guard</i> serves stairs that are used only by staff or work force volunteers, and b) a triangular space created by the stair tread, stair rise, and the underside of the <i>guard</i> , provided the opening will not permit the passage of a sphere greater than 200 mm, in egress stairs that serve bleacher seating. Member, attachment or openings located between 140 mm and 900 mm above the level being protected by the <i>guard</i> may be permitted where a) the <i>guard</i> serves stairs that are used only by staff or work force volunteers, and b) rosettes in the vertical posts of scaffolding type bleachers have been installed.
	Handrails 3.4.6.5.	Handrail extensions for temporary <i>buildings</i> may extend vertically downward not less than 300 mm beyond the top and bottom of the stairway.
2	Tiers of Seats 3.3.2.2.	A fire separation between adjacent occupancies and the seats is not required provided a) the only occupied space beneath the bleacher seating is used as a pedestrian walkway for access to the bleacher seating, b) the occupied space is not used for storage, signage must be posted in the space beneath the bleacher seating that reads "No Storage Permitted in This Area", and c) cleanup crews must clean up debris from the space beneath the bleacher seating at the end of each day.
0	3.1.6.5.	a) NFPA 701, "Standard Methods of Fire Tests for Flame Propagation of Textiles and Films", 2004 edition, or b) Certification of Registered Flame Resistant Product certified by the California Department of Forestry and Fire Protection, Office of the State Fire Marshall.

	6.2.2.7.	for straight runs.
9	Faucets and Shower Head Efficiency 2.2.10.6. Book II	No restriction required.
10	Water Closet Efficiency 2.6.1.6. Book II	No restriction required.
11	Urinal Efficiency 2.6.1.6. Book II	All urinals shall conform to CSA B45 "Plumbing Fixtures" and shall have an average water consumption not exceeding 3.8 litres per flush cycle.
12	Sanitary Connection 2.4.2.1. Book II	Portable water closets that form part of a temporary facility need not be connected to the sanitary drainage system.
13	Storm Drainage Connection 2.4.2.1. Book II	Roofs and paved areas need not be connected to the storm drainage system

- 154. In Article 11.7.1.1. of Division B of Book I, Council:
 - a) In Sentence (2), adds the word "Article" before "11.7.1.2.",
 - b) In Sentence (2), italicizes the words "Chief Building Official",
 - c) Strikes out Sentence (3), and substitutes the following:
 - "3) Except as permitted in Sentence (5) and Articles 11.7.1.2 through 11.7.1.6, alterations to a building shall comply with
 - a) alterations clauses within ANSI/ASHRAE/IES 90.1, "Energy Standard for Buildings Except Low-Rise Residential Buildings", or
 - b) alteration language supporting NECB 2015 (See Note A-11.7.1.1.(3).).",
 - d) In Sentence (4), italicizes the words "major occupancies" wherever they appear,
 - e) In Sentence (4), strikes out "Subsection" and substitutes "Article", and
 - f) Adds a new Sentence (7) as follows:
 - "7) Compliance with the requirements of this Subsection does not exempt upgrades that are otherwise required by this Part."
- 155. In Article 11.7.1.2. of Division B of Book I, Council strikes out Sentence (1) and substitutes the following:
 - "1) Alterations to energy systems or components of all buildings, except those included in Articles 11.7.1.3 through 11.7.1.6, shall comply with
 - a) the alteration requirements of
 - i) Clause 11.7.1.1.(3)(a) except as required by Clause (ii), or
 - ii) Clause 11.7.1.1.(3)(b) where the building was designed or upgraded to NECB, and
 - b) Articles 10.2.2.8 through 10.2.2.22. as applicable.".

156. In Article 11.7.1.3. of Division B of Book I, Council:

- a) In the Article heading, strikes out "Stories" and substitutes "Storeys",
- b) In Sentence (1), before the word "systems", adds the word "energy",
- b) In Sentence (1), adds the word "Articles" before "11.7.1.4. through 11.7.1.6.",
- c) In Clause (1)(a), strikes out "Article 10.2.1.3." and substitutes "the alteration requirements of Clause 11.7.1.1.(3)(b)",
- d) In Clause 1(b), strikes out "10.2.2.6." and substitutes "10.2.2.8.".
- e) Adds "and" to the end of Clause 1(c),
- f) Strikes out ", and" at the end of Clause 1(d) and substitutes ".", and
- g) Strikes out Clause 1(e).

157. In Article 11.7.1.4. of Division B of Book I, Council:

- a) In Sentence (1) before the word "systems", adds the word "energy",
- b) In Sentence (1), adds the word "Articles" before "11.7.1.5. or 11.7.1.6.",
- c) Strikes out Clause 11.7.1.4.(1)(a) and substitutes the following:

"a) the alteration requirements of

- i) Clause 11.7.1.1.(3)(a), as well as the thermal performance requirements of Articles 10.2.2.6. and 10.2.2.7. and the heat recovery ventilator requirements of Article 10.2.2.17., unless the building was designed or upgraded to NECB, or
- ii) Clause 11.7.1.1.(3)(b), as well as the thermal performance requirements of Articles 10.2.2.6. and 10.2.2.7. and the heat recovery ventilator requirements of Article 10.2.2.17.,",
- d) In Clause 1(b), strikes out "10.2.2.6." and substitutes "10.2.2.8.";
- e) Strikes out Clause 1(c), and substitutes "the airtightness performance requirements of Article 10.2.2.21 for reconstruction projects, and",
- f) In Clause 1(c), adds "and" to the end of the Clause;
- g) In Clause 1(d), strikes out ", and" and substitutes "."; and
- h) Strikes out Clause 1(e).

158. In Article 11.7.1.5. of Division B of Book I, Council:

- a) In Sentence (1) before the word "systems", adds the word "energy",
- b) Strikes out Clause 1(a),
- c) Renumbers Clauses 1(b) through (1)(g) as Clauses (1)(a) through (1)(f), respectively,
- d) In renumbered Clause 1(a), strikes out "per Articles" and substitutes "requirements of Article",
- e) In renumbered Clause 1(b), adds the word "Articles" before "10.2.2.7. through 10.2.2.11".
- f) In renumbered Clause 1(c), strikes out "domestic hot water heater per" and substitutes "the domestic hot water requirements of", and
- g) In renumbered Clause 1(d), adds the word "Articles" before "10.2.2.13. through 10.2.2.20.".

- 159. In Article 11.7.1.6. of Division B of Book I, Council:
 - a) In Sentence (1) before the word "systems", adds the word "energy",
 - b) Strikes out Clause 1(a).
 - c) Renumbers Clauses 1(b) through (1)(f) as Clauses (1)(a) through (1)(e), respectively, and
 - d) In renumbered Clause 1(a), strikes out "of Articles" and substitutes "requirements of Article".
- 160. In Note A-11.2.1.2. of Division B, under the Heading "CHANGE OF MAJOR OCCUPANCY CLASSIFICATION PROJECTS (Flow Chart No. 2)", Council strikes out the two paragraphs that follow the Heading and substitutes the following:

"Change of Major Occupancy Classification – Change of major occupancy classification means a change of *major occupancy* within a building, a *suite*, or its constituent floor areas where the proposed *occupancy* is outside of the currently defined *occupancies* of the existing major occupancy classification permitted for the building, the suite, or its constituent floor areas.

Small Suite Change of Major Occupancy Classification – Small suite change of major occupancy classification means a change of *occupancy* within a *small suite*, or the constituent floor areas of a small suite, where the occupant load for the entire suite does not exceed 60 persons and the small suite is limited to a Group A, Division 2, Group D, Group E, Group F, Division 2 (wholesale showroom), or Group F, Division 3 major occupancy."

161. In Note A-11.2.1.2. of Division B, under the Heading "**ADDITION PROJECTS** (Flow Chart No. **3**)", Council strikes out the first paragraph that follows the Heading and substitutes the following:

"Horizontal Addition – Horizontal additions include both "minor" and "major" horizontal additions. A minor horizontal addition is any expansion of a floor area beyond the extents of the existing floor area in which it is located by not more than 25 per cent of the existing building area, or by not more than 500 m2 in aggregate floor area. A major horizontal addition is any expansion of a floor area beyond the extents of the existing floor area that exceeds the limits permitted by a minor horizontal addition. Any construction creates new floor area, in-fills existing roof, or deck areas, or is superimposed over existing building structure or floor area is not considered a horizontal addition."

162. In Note A-11.2.1.2. of Division B, in Table A-11.2.1.2.-B., Council strikes out the row associated with design level "N1" and substitutes:

N1	Project area to be reviewed to ensure safety from overhead falling hazards.	Project Area - Restrain all ceiling supporting frames, T-bars assemblies, ceiling gypsum wall boards, all overhead mechanical ducts, sprinklers, and equipment, overhead electrical conduits and lights
----	---	---

163. In Note A-11.2.1.2. of Division B, in Table A-11.2.1.2.-B., Council strikes out the row associated with design level "N2" and substitutes:

N2	Project area and means of egress to be reviewed to ensure safety from overhead falling hazards.	Project Area Means of Egress - Restrain interior partition walls. Restrain all ceiling supporting frames, T-bars assemblies, ceiling gypsum wall boards, all overhead mechanical ducts, sprinklers, and equipment, overhead electrical conduits and lights. Restrain cladding veneer, parapets, canopies and ornaments over exit and extended to 5 m on either side of exit
----	---	---

164. In Note A-11.2.1.2. of Division B, in Table A-11.2.1.2.-B., Council strikes out the row associated with design level "N3" and substitutes:

N3	Building exits and to acceptable open space to be reviewed to ensure safety from overhead falling hazards.	Entire Building Exits - Restrain interior partition walls. Restrain ceiling supporting frames, T-bars assemblies, ceiling gypsum wall boards, sprinklers, overhead mechanical equipment and services, overhead electrical equipment and services. Restrain falling hazards to resist forces due to a seismic event from non-structural elements including cladding, veneer, cornices, canopies, awnings, and ornaments over exit and extended to 5 m on either side of exit.
----	--	--

165. In Note A-11.2.1.2. of Division B, in Table A-11.2.1.2.-B., Council strikes out the row associated with design level "N4" and substitutes:

N4	Entire Building and to acceptable open space to be reviewed to ensure safety from overhead falling hazards.	Entire Building — Restrain all interior partition walls. Restrain all ceiling supporting frames, T-bars assemblies, ceiling gypsum wall boards, sprinklers, overhead mechanical equipment and services, overhead electrical equipment and services. Restrain exterior falling hazards to resist forces due to a seismic event from cladding, veneer, cornices, parapets, canopies, awnings, and ornaments attached to the exterior of the building.
----	---	---

- 166. In Note A-11.2.1.2. of Division B, in Table A-11.2.1.2.-D, Council strikes out the second header "Group A, Division 1" and substitutes "Group A, Division 2".
- 167. In Article 12.2.2.4. of Division B, Council strikes out Sentence (1) and substitutes

- **"1)** All areas throughout a *marina* shall be illuminated to a minimum average level of 50 lx at the level of all *marina* walkways, at angles and intersections, and at changes of level where there are stairs or ramps."
- 168. In Appendix C of Division B of Book I, in Table C-2 in the row associated with "Vancouver (2020s)" and the column associated with "S_s", Council strikes out the value "0.8" and substitutes "1.8".
- 169. In Appendix C of Division B of Book I, in Table C-3, Council strikes out note 2.
- 170. In Appendix D of Division B of Book I, at the end of the appendix title, Council strikes out the word "Rating" and substitutes "Ratings".
- 171. In Appendix D of Division B of Book I, in reference D-1.1.4., D-1.2.1.(3), and D-2.7.4., Council removes the italicization from the words "Chief Building Official".
- 172. In Appendix D of Division B of Book I, in reference D-2.1.2. and D-2.1.5., Council removes the italicization from the words "loadbearing", "non-loadbearing", "wythes", and "precast" wherever they appear.
- 173. In Appendix D of Division B of Book I, in reference D-2.2.3.(1)(b), Council strikes out the words "T = total thickness of slab" and substitutes "t = total thickness of slab".
- 174. In Appendix D of Division B of Book I, in reference D-2.3.4.(3), Council strikes out Table 2.3.4.-E and substitutes:

Table D-2.3.4.-E
Time Assigned for Contribution of Wood-Framed or Cold-Formed-Steel-Framed Walls

Described as 6 Comme	Time, min		
Description of Frame	Loadbearing Walls	Non-Loadbearing Walls	
Wood studs spaced ≤ 400 mm o.c.		20	
Wood studs spaced ≤ 600 mm o.c.	15		
Cold-formed-steel studs spaced ≤ 400 mm o.c.		10	
Cold-formed-steel studs spaced ≤ 600 mm o.c.	10	<u>-</u>	

175. In Appendix D of Division B of Book I, in reference D-2.3.10.(2)(b) and D-2.3.11.(2)(b), Council strikes out the words "(see Article D-2.3.10.)" and substitutes "(see Figure D-2.3.10.)".

- 176. In Appendix D of Division B of Book I, in reference D-2.3.12., Council strikes out the words "de1scribed" and substitutes "described".
- 177. In Appendix D of Division B of Book I, in reference D-2.6.6., Council:
 - a) strikes out the equation "C" = $0.85\phi_c f'_c A_c \lambda_c^{-2} \left(\sqrt{1+0.25\lambda_c^{-4}} 0.5\lambda_c^{-2}\right)$ " and substitutes "C" = $0.85\phi_c f'_c A_c \lambda_c^{-2} \left(\sqrt{1+0.25\lambda_c^{-4}} 0.5\lambda_c^{-2}\right)$ ",
 - b) strikes out the equation " $\Box_c = \frac{KL}{r_c} \sqrt{\frac{f_c'}{w^2 E_c}}$ " and substitutes " $\Box_c = \frac{KL}{r_c} \sqrt{\frac{f_c'}{\pi^2 E_c}}$ ", and
 - c) strikes out the equation " φ_c = 0.60" and substitutes " φ_c = 0.60".
- 178. In Appendix D of Division B of Book I, in figure D-2.11.2.-A, Council adds a label "Load factor, f" to the vertical axis of the graph.
- 179. In Subsection 1.10.1. of Division C of Book I, Council strikes out Article 1.10.1.6. in its entirety.
- 180. In Article 1.8.2.5. of Division C of Book I, in Sentence (1) Council strikes out the words "Article 1.8.10." and substitutes "Article 1.8.11.".
- 181. In Article 1.8.7.7., 1.8.8.5, and 1.8.9.4. of Division C of Book I, in Sentence (1) Council italicizes the words "unprotected openings" and "fire compartments" wherever they appear.
- 182. In Article 2.2.1.2. of Division C of Book I, in Clause (2)(a) Council italicizes the words "field review" wherever they appear.
- 183. In Part 5 of Division B of Book I, Council strikes out Schedules C-D and D, and substitutes Schedules C-D and D attached to this By-law as Appendix 1.
- 184. In Articles 1.4.1.23., 1.9.1.1, 1.9.1.2.,1.9.1.3., 1.9.2.1. and 1.9.3.2. of Division C of Book I and Book II, in Sentence (1) Council strikes out the words "street use permit" and substitutes "street use permit" wherever they appear.
- 185. In Article 1.5.2.8. of Division C of Book I and Book II, in Sentence (2) Council strikes out the words "alternative acceptable solutions" and substitutes "alternative compliance method".
- 186. In Article 1.6.1.2. of Division C of Book I and Book II, in Sentence (1) Council strikes out Clause (b) and substitutes "b) pay to the City, double the fee set out in the Fee Schedule to a maximum of \$20,000, but in no case less than \$500.".
- 187. In Article 1.6.2.7. of Division C of Book I and Book II, in Sentence (1) Council strikes out the words "Article 1.5.3.4. or Article 1.5.3.5." and substitutes "Article 1.5.3.5. or Article 1.5.3.6.".
- 188. In Article 1.6.3.2. of Division C of Book I and Book II, in Sentence (1) Council removes the italics from the words "plumbing contractor" wherever they appear.

- 189. In Article 1.6.3.4. of Division C of Book I and Book II, in Clause (1)(b) Council removes the italics from the word "backflow" wherever it appears.
- 190. In Article 1.6.3.6. of Division C of Book I and Book II, in Sentence (1) Council italicizes the first occurrence of the word "fixture".
- 191. In Article 1.6.4.5. of Division C of Book I and Book II, in Sentence (2) Council italicizes the words "Chief Building Official" wherever they appear.
- 192. In Article 2.2.2.2. of Division C of Book I and Book II, in Sentence (1) Council strikes out the word "Code" and substitutes "By-law".
- 193. In Article 2.2.7.4. of Division C of Book I and Book II, Council strikes out the Article heading and substitutes "2.2.7.4. Termination".
- 194. In Article 3.3.1.2. of Division C of Book I and Book II, in Sentence (1) Council strikes out the date "June 03, 2019" and substitutes "November 1, 2019".
- 195. In Part 1 of Division C of Book I and Book II, Council strikes out Schedules E-1 and E-2, and substitutes Schedules E-1 and E-2 attached to this By-law as Appendix 2.
- 196. In Part 2 of Division C of Book I and Book II, Council strikes out Schedules A, B, C-A, and C-B, and substitutes Schedules A, B, C-A, and C-B attached to this By-law as Appendix 3.
- 197. In Article 1.4.1.2. of Division A of Book II, in the definition of "Cistern", Council italicizes the word "potable".
- 198. In Article 1.4.1.2. of Division A of Book II, in the definition of "Flood construction level requirements", under Subclause (1)(a)(i), Council adds a space after the number "4.6.".
- 199. In Table 1.3.1.2. of Division B of Book II, Council strikes out the following rows:

CoV		Water Works By-law ⁽⁴⁾	2.6.2.1.(3)
EPA		ENERGY STAR® Program Requirements: Product Specification for Automatic Commercial IceMakers ¹⁴	2.2.11.1.(1)
NSF/ANSI	61 – 2016	Drinking Water System Components – Health Effects	2.2.6.11.
NSF/ANSI	372 - 2016	Drinking Water System Components – Lead Content	2.2.6.12., 2.2.6.13., 2.2.6.14.

", and substitutes

CoV	Water Works By-law(4)	2.6.2.1.(4)
EPA	ENERGY STAR® Program Requirements:	2.2.11.1.(1)

		Product Specification for Automatic Commercial Ice Makers ¹⁴	
NSF/ANSI	61 – 2016	Drinking Water System Components – Health Effects	2.2.6.11.(1)
NSF/ANSI	372 - 2016	Drinking Water System Components – Lead Content	2.2.6.12.(1), 2.2.6.13.(1), 2.2.6.14.(1)

", in their respective locations.

- 200. In Article 2.3.6.1. of Division B of Book II, Council strikes out Sentence (6) and substitutes:
 - "6) Siphonic roof drainage systems shall be tested in accordance with ASME A112.6.9 "Siphonic Roof Drains.".
- 201. In Subsection 2.4.2. of Division B of Book II, following Article 2.4.2.3., Council inserts the following:

2.4.2.4. Connections to Storm Drainage Systems

- 1) Except as provided in Sentence (2), all roof and paved areas shall drain to a storm drainage system.
- 2) Building and site drainage need not connect to a storm drainage system if storm water conservation measures are employed and storm water does not discharge upon or impact other lands or sites.
- 202. In Article 2.6.2.1. of Division B of Book II, Council strikes out Sentences (3) and (4) and substitutes the following:
 - **"3)** Backflow preventers shall be selected, maintained and field tested in conformance with the Water Works By-law.
 - 4) Deleted.".
- 203. In Article 2.6.2.7. of Division B of Book II, Council strikes out the header reference "42.6.2.7." and substitutes "2.6.2.7.".
- 204. In Article 2.7.7.1. of Division B of Book II, Council strikes out Table 2.7.7.1. and substitutes the following:

Table 2.7.7.1. Water Quality Standards, Testing, and Documentation Forming part of Sentences 2.7.7.1.(1), (2), and (3)				
Applicability	Parameter	Standard	Testing Type and Frequency	Testing Result Documentation Requirement
Any non-potable water source	Temperature	< 20°C	Continuous	Daily

Any non-potable water source	Turbidity	< 10 NTU (Nephelometric Turbidity Units)	Daily, and one laboratory sample tested every 3 months	Daily, plus all laboratory tests
Any non-potable water source	E. coli	< 100 CFU (Colony Forming Units) per 100 mL or < 100 MPN (Most Probable Number) per 100 mL	One laboratory sample tested by an accredited laboratory every 3 months	All laboratory tests

205. A decision by a court that any part of this By-law is illegal, void, or unenforceable severs that part from this By-law, and is not to affect the balance of this By-law.

206. This By-law is to come into force and take effect upon enactment.

, 2020	day of	ENACTED by Council this
Mayor		
City Clerk		

Building Permit No._______(for Building Official's use)

SCHEDULE C-D

Forming Part of Sentence 5.1.2.2.(3), Division B of the Building By-law

COMPLETION OF

		BOILDING ENVELOPE PROFESSIONAL REVIEW
Notes:		
	i)	This letter must be submitted after the completion of the project at final inspection.
	ii)	This letter is endorsed by: Architectural institute of B.C. and the Association of Professional Engineers and Geoscientists of the
		Province of British Columbia.
	iii)	In this letter the words in italics have the same meaning as in the Building By-law.

To: The Chief Building Official RE: Address of Project (Print) I have fulfilled my obligations for Building Envelope Professional design review and enhanced field review as per my previously submitted letter of COMMITMENT FOR BUILDING ENVELOPE PROFESSIONAL REVIEW. The components and assemblies of the project reviewed substantially comply with Article 5.1.2.2. in Part 5 of Division B, of the Building By-law, and with the plans and supporting documents, including all amendments thereto, which were accepted by the City of Vancouver in support of the application for the building permit. Professional's Seat and Signature Name (Print) Address of (Print) City Postal Code Centified Professional's Stamp and Signstiffe Telephone (Print) Email (if applicable)

(If the Building Envelope Professional is a member of a firm, complete the following.)

I am a member of the firm;

(Print Name of Firm)

and I sign this letter on behalf of the firm.

NOTE: The above letter must be signed by a *Building Envelope Professional*. The Building By-Law defines a *Building Envelope Professional* to mean a person who is a member of the Architectural Institute of British Columbia or the Association of Professional Engineers and Geoscientists of the Province of British Columbia.

CRP's Initials

SCHEDULE D

Building Permit No.__

(for Building Official's use)

Forming Part of Sentence 5.1 2.2.(2) Division B of the Building By-law

		COMMITMENT FOR ELOPE PROFESSIONAL R	EVIEW
ií) ·	This letter must be submitted before issuanc This letter is endorsed by: Architectural Instit Province of British Columbia. In this letter the words in italics have the sam	ute of B.C. and the Association of Prof	essional Engineers and Geoscientists of the
To: The Chie	ef Building Official		
RE:			
	Address of Project (Print)		
of responsibili in Article 5.1	ned Building Envelope Professional has bee ity for Building Envelope Professional design .2.2. In Part 5 of Division B, of the Buildin, s to be necessary, for the project designed by	n review and enhanced field review fo g By-law, and as the <i>Building Envelop</i>	r components and assemblies as required
	Name of registered professional signif	ng for 'Architectural' items of Schedule	B letter (Print)
FIELD REVIE sional respons	ling the Chief Building Official with a Sched EW letter covering 'Architectural' items. The sible for 'Architectural' items, and copies of ng Inspector. The undersigned undertakes to	e undersigned will sign and provide co these reports shall also be available c	pies of all reports to the <i>registered profes-</i> in site, for review by the City of Vancouver
Name	CITY OF		Professional's Seal and Signature
Addres	ss of (Print)		
City	Posta	I Code	Certified Frofessional's Stamp and Signature
Teleph	one Email	(Print)	(if applicable)
(if the <i>Building E</i>	Envelope Professional is a member of a firm,	complete the following.)	
I am a member o	of the firm;	and I sign this letter on	behalf of the firm.
mean a person v	(Print Name of Fi ove letter must be signed by a <i>Building Envei</i> who is a member of the Architectural Institute of British Columbia.	lope Professional. The Building By-La	w defines a <i>Building Envelope Professional</i> to n of Professional Engineers and Geoscientists
*			CRP's Initials

1 of 1

SCHEDULE E-1

Building Permit No. (for Building Official's use)

Forming Part of Sentence 1.6.2.2.(1) , Division C of the Building By-law

OWNER'S UNDERTAKING

Notes:

- This letter must be submitted with the application for a building permit.
- In this letter the words in italics have the same meaning as in the Building By-law.

o: The Chief Building Official
Name of Project (Print)
Address of Property (Print)
In consideration of the <i>City</i> accepting and processing an application for a <i>building permit</i> for the <i>project</i> identified above, and as required by the Building By-law, the following representations, warranties and indemnities are given to the <i>City</i> by the <i>owner</i> .
1. [If an individual is the owner]
() I am the <i>owner</i> of the above property.
or
[If a corporation is the owner.]
() is the <i>owner</i> of the above property.
(Name of Corporation)

- 2. The owner will comply with and cause those employed for this project to comply with all applicable by-laws of the City and other statutes and regulations in force in the City relating to the development, work, undertaking or permission in respect of which this letter is submitted.
- The owner fully understands the requirements herein, and acknowledges responsibility for carrying out the work, or gives assurance that the work will be carried out, in accordance with all by-laws governing the construction of the building. The owner understands and acknowledges that the issuance of any permit, including an occupancy permit, or the inspection or approval or passage of work by the City, is not a representation or warranty that any by-law has been complied with and the owner remains responsible at all times for compliance. The owner has read and understands Article 1.4.1.5. of Division C Book I and Article 1.3.2.1. of Division C Book II of the Building By-law, which are set out below.
- The owner hereby agrees to indemnify and save harmless the City and its employees from all claims, liability, judgments, costs and expenses of every kind including negligence which may result from the failure to comply fully with all by-laws, statutes and regulations relating to any work or undertaking in respect of which this letter is submitted.
- Where the words "work" or "undertaking" are used herein, the owner understands this to include all trade work, including but not limited to: electrical, plumbing, mechanical, gas and other works necessary to complete the contemplated construction.
- 6. I am authorized to give these representations, warranties, assurances and indemnities to the City.

Schedule E-1 Continued	Building Permit No(for Building Official's use
[Where the owner is an individual]	Signed, sealed and delivered in the presence of:
Owner's Signature	Witness Signature
Owner's Name (Print)	Witness's Name (Print)
Date	Date
Phone No, and Email address	Witness's address
[Where the owner is a corporation]	Signed, sealed and delivered in the presence of:
Name of Corporation	Witness Signature
Per: Authorized Signatory	Witness's Name (Print)
Name (Print)	Witness's address
Date	Date
Phone No. and Email address	

Building By-law, Division C, Article 1.3.2.1 Intent

This By-Law sets standards in the general public interest. It is enacted and retained on the understanding and specifically expressed condition that it creates no duty whatsoever on the City, the Chief Building Official or any employee of the City to enforce its provisions, and on the further condition that a failure to administer or enforce its provisions, or the incomplete or inadequate administration or enforcement of its provisions, shall not give rise to a cause of action in favour of any person whatsoever. The issuance of any permit, including an occupancy permit, is not a representation, warranty or statement that this By-Law or any other enactment has been complied with, and the issuance thereof in error shall not give rise to a cause of action. Accordingly, words in this By-law defining the responsibilities and authority of the Chief Building Official shall be construed as internal administrative directions which do not create a duty.

Building By-law, Division C, Article 1.4.1.5. Compliance with By-law and other enactments

- 1) The owner shall comply with this By-law and all other applicable enactments.
- The owner shall ensure that all work, construction, or occupancy is carried out in accordance with this By-law and all other applicable enactments.
- 3) The owner shall ensure that the occupancy of a building or part of a building complies with the occupancy permit.
- 4) The issuance of a permit, the acceptance of plans and supporting documents submitted for a permit, or the making of inspections by the Chief Building Official shall not relieve the owner of a building from the full responsibility for carrying out the work or having the work carried out in accordance with this By-law and all other applicable enactments.
- 5) The owner shall ensure that all underground storage tanks on the subject property that are intended for the storage of heating oil but have not been used for over 2 years are removed and any associated contamination is remediated to the applicable standards as prescribed in the Contaminated Sites Regulation. All work must be completed in accordance with the requirements of the Vancouver Fire By-law.

SCHEDULE E-2

Forming Part of Sentence 1.6.2.2.(1)., Division C of the Building Bylaw

OWNER'S AND TENANT'S UNDERTAKING

[to be used when a tenant is carrying out the project]

Notes:
 i) This letter must be submitted with the application for a building permit. ii) In this letter the words in italics have the same meaning as in the Building By-law.
To: The Chief Building Official Re:
Name of Project (Print)
Address of Property (Print)
In consideration of the City accepting and processing an application for a building permit for the project identified above, and as required by the Building By-law, the following representations, warranties and indemnities are given to the City by the owner and by the tenant.
1. [If an individual is the owner]
() I am the owner of the above property.
or [If a corporation is the owner]
is the <i>owner</i> of the above property.
(Name of Corporation)
[If an individual is the tenant]
() I am the tenant of the above property.
or ·
[If a corporation is the tenant]
() is the tenant of the above property.
(Name of Corporation)
2. The owner and the tenant will comply with and cause those employed for this project to comply with all applicable By-laws.

- The owner and the tenant will comply with and cause those employed for this project to comply with all applicable By-laws
 of the City and other statutes and regulations in force in the City relating to the development, work, undertaking or permission in respect of which this letter is submitted.
- 3. The owner and the tenant fully understands the requirements herein, and acknowledges responsibility for carrying out the work, or gives assurance that the work will be carried out, in accordance with all by-laws governing the construction of the building. The owner understands and acknowledges that the issuance of any permit, including an occupancy permit, or the inspection or approval or passage of work by the City, is not a representation or warranty that any By-law has been complied with and the owner remains responsible at all times for compliance. The owner has read and understands Article 1.3.2.1. and Article 1.4.1.5. of Division C Book I and Book II of the Building By-law, which are set out below.

Schedule E- 2 Continued	Building Permit No (for Building Official's use)
Project address	(for Ballong Cincols 2006)
-	
 The owner and the tenant hereby agree to indemnify an claims, liability, judgments, costs and expenses of every failure to comply fully with all By-laws, statutes and regulation in the statutes. 	
 Where the words "work" or "undertaking" are used here work, including but not limited to: electrical, plumbing, m contemplated construction. 	in, the <i>owner</i> and the tenant understand this to include all trade nechanical, gas and other works necessary to complete the
6. The <i>owner</i> and the tenant are authorized to give these r <i>City</i> .	representations, warranties, assurances and indemnities to the
Owner's signature	
[Where the owner is an individual]	Signed, sealed and delivered in the presence of:
Owner's Signature	Witness Signature
Owner's Name (Print)	Witness's Name (Print)
Date	Date
Phone No. and Email address	Witness's address
[Where the owner is a corporation]	Signed, sealed and delivered in the presence of:
Name of Corporation	Witness Signature
Per: Authorized Signatory	Witness's Name (Print)
Name (Print)	Witness's address
Date	Date
Phone No. and Email address	

Schedule E-2 Continued Building Permit No. (for Building Official's use) Project address Tenant's Signature [Where the tenant is an individual] Signed, sealed and delivered in the presence of: Tenant's Signature Witness Signature Tenant's Name (Print) Witness's Name (Print) Date Date Phone No. and Email address Witness's address [Where the tenant is a corporation] Signed, sealed and delivered in the presence of: Name of Corporation Witness Signature Per: Authorized Signatory Witness's Name (Print) Name (Print) Witness's address Date Date Referenced Articles below Building By-law, Division C, Article 1.3.2.1 Intent This By-Law sets standards in the general public interest. It is enacted and retained on the understanding and specifically expressed condition that it creates no duty whatsoever on the City, the Chief Building Official or any employee of the City to enforce its provisions, and on the further condition that a failure to administer or enforce its provisions, or the incomplete or inadequate administration or enforcement of its provisions, shall not give rise to a cause of action in favour of any person whatsoever. The issuance of any permit, including an occupancy permit, including the provisions of the provision is not a representation, warranty or statement that this By-Law or any other enactment has been complied with, and the issuance thereof in error shall not give rise to a cause of action. Accordingly, words in this By-law defining the responsibilities and authority of the Chief Building Official shall be construed as internal administrative directions which do not create a duty. Building By-law, Division C, Article 1.4.1.5. Compliance with By-law and other enactments The owner shall comply with this By-law and all other applicable enactments. The owner shall ensure that all work, construction, or occupancy is carried out in accordance with this By-law and all other applicable enact-The owner shall ensure that the occupancy of a building or part of a building complies with the occupancy permit. The issuance of a *permit*, the acceptance of plans and supporting documents submitted for a *permit*, or the making of inspections by the *Chief Building Official* shall not relieve the *cowner* of a *building* from the full responsibility for carrying out the work or having the work carried out in accordance with this By-law and all other applicable enactments. The owner shall ensure that all underground storage tanks on the subject property that are intended for the storage of heating oil but have not been used for over 2 years are removed and any associated contamination is remediated to the applicable standards as prescribed in the Contaminated Sites Regulation. All work must be completed in accordance with the requirements of the Vancouver Fire By-law.

SCHEDULE A

Building Permit No.

Forming Part of Sentence 2.2.7.2 (1), Division C of the Building By-law

(for Building Official's use)

CONFIRMATION OF COMMITMENT BY OWNER AND COORDINATING REGISTERED PROFESSIONAL

Notes:

i) This letter must be submitted before issuance of a building permit.

ii) This letter is endorsed by: Architectural Institute of B.C. and the Association of Professional Engineers and Geoscientists of the Province of British Columbia.

Re: Design and Field Review of Construction by a Coordinating Registered Professional

Professional's Seal and Signature

To: The Chief Building Official

Re:

Name of Project (Print)

Address of Project (Print)

Certified Professional's Stamp and Signature

(if applicable)

The undersigned has retained _________as a coordinating registered professional to coordinate the design work and field reviews of the registered professionals of record required for this project. The coordinating registered professional shall coordinate the design work and field reviews of the registered professionals of record required for the project in order to ascertain that the design will substantially comply with the Building By-law and other applicable enactments respecting safety and that the construction of the project will substantially comply with the Building By-law and other applicable enactments respecting safety, not including the construction safety aspects.

"field reviews" are defined in the Building By-law to mean those reviews of the work

- (a) at a project site of a development to which a building permit relates, and
- (b) where applicable, at fabrication locations where building components are fabricated for use at the project site

that a registered professional in his or her professional discretion considers necessary to ascertain whether the work substantially complies in all material respects with the plans and supporting documents prepared by the registered professional of record for which the building permit is issued.

The owner and the coordinating registered professional have read Subsection 2.2.7., Division C of the Building By-law. The owner and the coordinating registered professional each acknowledge their responsibility to notify the Chief Building Official of the date the coordinating registered professional ceases to be retained by the owner before the date the coordinating registered professional ceases to be retained or, if that is not possible, then as soon as possible. The coordinating registered professional acknowledges the responsibility to notify the Chief Building Official of the date a registered professional of record ceases to be retained before the date the registered professional of record ceases to be retained or, if that is not possible, then as soon as possible.

¹ It is the responsibility of the coordinating registered professional to ascertain which registered professionals are required, and to initial each Schedule B prior to submission to the Chief Building Official.

SCHEDULE A - continued	Building Permit No(for Building Official's use)
	(10.25.00)
	Project Address
The owner and the coordinating registered professional under registered professional of record ceases to be retained at any until such time as	rstand that where the <i>coordinating registered professional</i> or a time during <i>construction</i> , work on the above <i>project</i> will cease
(a) a new coordinating registered professional or registered	d professional of record, as the case may be, is retained, and
(b) a new letter in the form set out in Schedule A or in the formset the Chief Building Official.	orms set out in Schedules B, as the case may be, is filed with
Building By-law, and agrees to coordinate the design work and	s that he or she is a registered professional as defined in the difficult field reviews of the registered professionals of record required g coordination and integration of functional testing of fire protec-
Coordinating Registered Professional	Owner
Coordinating Registered Professional's Name (Print)	Owner's Name (Print)
Address (Print)	Address (Print)
Ohn - No Frank Judio	Name of Agent or Signing Officer if applicable (Print)
Phone No. and Email address	
	Date
Profession d's Seal and Signature	Owner's or Owner's appointed agent's Signature. (If owner is a corporation the signature of a signing officer must be given here. If the signature is that of the agent, a copy of the document that appoints the agent must be attached.)
	Certified Professional's Stamp and Signature (if applicable)
•	
If the Coordinating Registered Professional is a member of a firm, comp	lete the following.)
am a member of the firm(Print name	e of firm)
and I sign this letter on behalf of the firm.	
his letter must be signed by the <i>owner</i> or the <i>owner</i> 's appointed agent's letter of appointment must be attached. If the <i>owner</i> is a corporation and the signing officer must set forth his or her position.	corporation, the letter must be signed by a signing officer of the
The Building By-law defines a <i>registered professional</i> to mean (a) a person who is registered or licensed to practise as (b) a person who is registered or licensed to practise as Geoscientists Act.	an architect under the Architects Act, or
_	10

SCHEDULE B

Building Permit No._____(for Building Official's use)

Forming Part of Subsection 2.2.7., Division C of the Building By-law

e: Name of Project (Print) Address of Project (Print) The undersigned hereby gives assurance that the design of the (Initial those of the items listed below that apply to this registered professional	Professional's Seal and Signature
Name of Project (Print) Address of Project (Print) The undersigned hereby gives assurance that the design of the	
Address of Project (Print) The undersigned hereby gives assurance that the design of the	
The undersigned hereby gives assurance that the design of the	
The undersigned hereby gives assurance that the design of the	
	A STATE OF THE STA
(Initial those of the items listed below that apply to this registered professional	,
of record. All the disciplines will not necessarily be employed on every project.)	
ARCHITECTURAL	Certified Frofessional's Stamp and Signature
STRUCTURAL	(if applicable)
MECHANICAL	
PLUMBING PLUMBING	
FIRE SUPPRESSION SYSTEMS ELECTRICAL	
GEOTECHNICAL — temporary	
GEOTECHNICAL — permanent	
components of the plans and supporting documents prepared by this registered profess	sional in support of the application for
the building permit as outlined below substantially comply with the Building By-law and o safety except for construction safety aspects.	other applicable enactments respecting
The undersigned hereby undertakes to be responsible for field reviews of the above refe	erenced components during
construction as indicated on the "SUMMARY OF DESIGN AND FIELD REVIEW REQUI	IKEMENIS" below.

SCHEDULE B - continued	Building Permit No. (for Building	Official's use)
		Project Addre
•		Discipli
The undersigned also undertakes to notify the Chief Building Official in writing as soon as for field review is terminated at any time during construction.	possible if the undersi	gned's contract
I certify that I am a registered professional as defined in the Building By-law.		
	Professional's Seal	
	and Signature	
Registered Professional's Name (Print)		
Address (Print)		
	Carl and Carlos stands	
	Gerlified Professional's Stamp and Signature (If applicable)	
Phone No. and Email address	(u shhurang)	
If the Registered Professional of Record is a member of a firm, complete the following.)		2
Con a mambas of the firm		
am a member of the firm(Print name of firm)		-
and I sign this letter on behalf of the firm.		
Note: The above letter must be signed by registered professional of record, who is a register	ered professional.	
The Building By-law defines a <i>registered professional</i> to mean		
 (a) a person who is registered or licensed to practise as an architect under the Arc (b) a person who is registered or licensed to practise as a professional engineer un 		
Geoscientists Act.		
Geoscientists Act.		
Geoscientists Act.		CRP's Initials
Geoscientists Act.		CRP's Initials

	Building Permit No
SCHEDULE B - continued	(for Building Official's use)
	water and the same
	Project Addres
	Disciplin
SUMMARY OF DESIGN AND FIELD REVIEW REQUIREN	IENTS
(Initial applicable discipline below and cross out and initial only those items not applicable to the project.)	
ARCHITECTURAL 1.1 Fire resisting assemblies	
1.2 Fire separations and their continuity	
1.3 Closures, including tightness and operation 1.4 Egress systems, including access to exit within suites and floor areas	
1.5 Performance and physical safety features (guardrails, handrails, etc.)	
1.6 Structural capacity of architectural components, including anchorage and seismic restrain1.7 Sound control	t ·
1.8 Landscaping, screening and site grading	
1.9 Provisions for firefighting access	
1.10 Access requirements for persons with disabilities 1.11 Elevating devices	
1.12 Functional testing of architecturally related fire emergency systems and devices	
1.13 Development Permit and conditions therein 1.14 Interior signage, including acceptable materials, dimensions and locations	
1.15 Review of all applicable shop drawings	Professional's Seal and Signature
1.16 Interior and exterior finishes 1.17 Dampproofing and/or waterproofing of walls and slabs below grade	and dignotore
1.17 Danipproving and/or water proving or waits and stabs below grade	
1.19 Wall cladding systems	
1.20 Condensation control and cavity ventilation 1.21 Exterior glazing	
1.22 Integration of building envelope components	•
1.23 Environmental separation requirements (Part 5) 1.24 Building envelope, Part 10 requirements (ASHRAE, NECB, ZEBP, etc)	
1.24 Building envelope, Fait to requirements (ASHIVAE, NEOB, ZEBF, etc)	
STRUCTURAL	
 2.1 Structural capacity of structural components of the <i>building</i>, including anchorage and seis 2.2 Structural aspects of <i>deep foundations</i> 	smic restraint
2.3 Review of all applicable shop drawings	
2.4 Structural aspects of unbonded post-tensioned concrete design and construction	
	Certified Professional's Stamp and Signature
	(if applicable)
MECHANICAL	
3.1 HVAC systems and devices, including high building requirements where applicable	
3.2 Fire dampers at required fire separations 3.3 Continuity of fire separations at HVAC penetrations	
3.4 Functional testing of mechanically related fire emergency systems and devices	
 3.5 Maintenance manuals for mechanical systems 3.6 Structural capacity of mechanical components, including anchorage and seismic restraint 	
3.7 Review of all applicable shop drawings	
3.8 Mechanical systems, Part 10 requirements (ASHRAE, NECB, ZEBP, etc)	
	CRP's Initial
3 of A	

	Building Permit No.
SCHEDULE B - continued	(for Building Official's use)
PLUMBING	Project Addres
 4.1 Roof drainage systems 4.2 Site and foundation drainage systems 4.3 Plumbing systems and devices 4.4 Continuity of fire separations at plumbing penetrations 	Disciplin
 4.5 Functional testing of plumbing related fire emergency systems and devices 4.6 Maintenance manuals for <i>plumbing systems</i> 4.7 Structural capacity of plumbing components, including anchorage and seismic restraint 	
 4.8 Review of all applicable shop drawings 4.9 Plumbing systems, Part 10 requirements (ASHRAE, NECB, ZEBP, etc) 4.10 Plumbing systems, testing, confirmation 	
FIRE SUPPRESSION SYSTEMS 5.1 Suppression system classification for type of occupancy 5.2 Design coverage, including concealed or special areas 5.3 Compatibility and location of electrical supervision, ancillary alarm and control devices 5.4 Evaluation of the capacity of city (municipal) water supply versus system demands and don including pumping devices where necessary	nestic demand,
 5.5 Qualification of welder, quality of welds and material 5.6 Review of all applicable shop drawings 5.7 Acceptance testing for "Contractor's Material and Test Certificate" as per NFPA Standards 5.8 Maintenance program and manual for suppression systems 5.9 Structural capacity of sprinkler components, including anchorage and seismic restraint 	
5.10 For partial systems — confirm sprinklers are installed in all areas where required 5.11 Fire Department connections and hydrant locations 5.12 Fire hose standpipes 5.13 Freeze protection measures for fire suppression systems	
5.14 Functional testing of fire suppression systems and devices ELECTRICAL 6.1 Electrical systems and devices, including high building requirements where applicable 6.2 Continuity of fire separations at electrical penetrations	Professional's Seal and Signature
 6.3 Functional testing of electrical related fire emergency systems and devices 6.4 Electrical systems and devices maintenance manuals 6.5 Structural capacity of electrical components, including anchorage and seismic restraint 6.6 Clearances from buildings of all electrical utility equipment 6.7 Fire protection of wiring for emergency systems 6.8 Review of all applicable shop drawings 6.9 Electrical systems, Part 10 requirements (ASHRAE, NECB, ZEBP, etc) 6.10 Electrical systems, testing, confirmation 6.11 Radio Antenna Systems 	·
GEOTECHNICAL — Temporary 7.1 Excavation 7.2 Shoring 7.3 Underpinning 7.4 Temporary construction dewatering	Cedified Professional's Stamp and Signature (if applicable)
GEOTECHNICAL — Permanent 8.1 Bearing capacity of the soil 8.2 Geotechnical aspects of <i>deep foundations</i> 8.3 Compaction of engineered fill 8.4 Structural considerations of soil, including slope stability and seismic loading 8.5 Backfill 8.6 Permanent dewatering	•
8.7 Permanent underpinning —	CRP's Initial

SCHEDULE C-A

Building Permit No.__

Forming Part of Sentence 2.2.7., Division C of the Building By-law

(for Building Official's use)

ASSURANCE OF COORDINATION OF PROFESSIONAL FIELD REVIEW

	Notes:		
	i)	This letter must be submitted after completion of the project but before the occupan is made, by the Chief Building Official.	cy permit is issued or a final inspection
	ii)	This letter is endorsed by: Architectural Institute of B.C. and the Association of Profe of the Province of British Columbia.	essional Engineers and Geoscientists
	iii)	In this letter the words in italics have the same meaning as in the Building By-law.	
To:	The Chie	f Building Official	
			Professional's Seal and
Re:			Sineture
	Name of F	Project (Print)	
	Address o	f Project (P(int)	
(Th	e coordina	nting registered professional shall complete the following:)	grant manufacture and an arrangement of the arrangement of the second
•			· Certified Professional's Stamp and Signature
	Name (Pr	int)	(if applicable)
	•		de la diversaria
	Address (Print)	The state of the s
	Phone No	. and Email address (Print)	()
l here	eby give as	ssurance that	
a)		Ifilled my obligations for coordination of field reviews of the registered profes	
		ed in Subsection 2.2.7., Division C of the Building By-law and in the previou: RMATION OF COMMITMENT BY OWNER AND BY COORDINATING REG	
b)		pordinated the functional testing of the fire protection and life safety systems	
		material respects with	
		the applicable requirements of the Building By-law and other applicable ena construction safety aspects, and	ictments respecting safety, not including
	ii)	the plans and supporting documents submitted in support of the application	ı for the <i>building</i> permit,
c)	lam a re	gistered professional as defined in the Building By-law.	
(If the	coordina	ing registered professional is a member of a firm, complete the following:)	
(a. ș			•
		of the firm	<u> </u>
and I	sign this l	etter on behalf of the firm. (Print name of firm)	
		e letter must be signed by a coordinating registered professional, who is als defines a registered professional to mean	o a registered professional. The
	a) a	person who is registered or licensed to practise as an architect under the Ar	chitects Act, or
	b) a	person who is registered or licensed to practise as a professional engineer teasons.	ınder the Engineers and

SCHEDULE C-B

Building Permit No._

(for Building Official's use)

Forming Part of Subsection 2.2.7.2., Division C of the Building By-law	
ASSURANCE OF PROFESSIONAL FIELD REVIEW	
Notes: i) This letter must be submitted after completion of the project but prior to final inspection by the Chief Building letter must be submitted by each registered professional of record. ii) This letter is endorsed by: Architectural Institute of B.C. and the Association of Professional Engineers and C Province of British Columbia. iii) In this letter the words in italics have the same meaning as in the Building By-law.	
To: The Chief Building Official	
Discipline (e.g. Architectural, etc.) (Print)	
Re: Name of Project (Print)	
(Each registered professional shall complete the following:) Certified Professional Signary Complete the following:	
Name (Print) (if applie	sable)
Address (Print)	
Phone No. and Email address (Print)	
I hereby give assurance that	
 a) I have fulfilled my obligations for coordination of field reviews as outlined in Subsection 2.2.7.2., Division of By-law and in the previously submitted Schedule B, "ASSURANCE OF PROFESSIONAL DESIGN AND OFFIELD REVIEW", and b) Those components of project opposite my initials in Schedule B substantially comply in all materials respection to the applicable requirements of the Building By-law and other applicable enactments respecting construction safety aspects, and ii) the plans and supporting documents submitted in support of the application for the building period of the registered professional of record as defined in the Building By-law. (If the registered professional of record is a member of a firm, complete the following:) 	COMMITMENT FOR ects with g safety, not including
l am a member of the firm and l sign this letter on behalf of the firm. (Print name of firm)	<u></u>
Note: The above letter must be signed by a registered professional of record, who is a registered professional law defines a registered professional to mean	. The Building By-
 a) a person who is registered or licensed to practise as an architect under the Architects Act, or b) a person who is registered or licensed to practise as a professional engineer under the Engineers Geoscientists Act. 	s and
1 of 1	
	CRP's Initials