

EXPLANATION**A By-law to amend the Building By-law
Regarding New Requirements for Certain Water Systems and Energy Efficiency**

The attached By-law will implement Council's resolution of July 9, 2019 to amend the Building By-law regarding new requirements for certain water systems and energy efficiency, effective January 1, 2020 (sections 2, 4 and 6), July 1, 2020 (sections 3, 5 and 7), and June 1, 2021 (sections 8 and 9).

Director of Legal Services
July 23, 2019

116

BY-LAW NO.

**A By-law to amend the Building By-law No. _____
Regarding New Requirements for Certain Water Systems and Energy Efficiency**

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 _____.
2. In Book II, Division B, Council adds a new Article 2.2.11.6. as follows:

"2.2.11.6. Cooling Towers
(See Article 6.3.2.15. of Division B of Book I (General) of this By-law.)

- 1) An operating permit shall be obtained for the installation of a cooling tower, or the retention of an existing cooling tower.
- 2) The Chief Building Official shall be notified within 30 days of any changes to the information that was last provided to the City with regard to the operating permit, in the form prescribed by the Chief Building Official.
- 3) If a cooling tower is removed or its use is permanently discontinued, it shall be safely drained, thoroughly sanitized, and the make-up water line shall be disconnected and capped."

3. In Book II, Division B, Council adds a new Article 2.2.11.7. as follows:

"2.2.11.7. Indoor and Outdoor Decorative Water Features
(See Article 6.3.2.16. of Division B of Book I (General) of this By-law.)

- 1) An *operating permit* shall be obtained for the installation of an indoor or outdoor decorative water feature, or the retention of an existing indoor or outdoor decorative water feature, including green walls with an integrated water system, except for an indoor or outdoor decorative water feature in a *building* used exclusively for residential occupancy containing no more than four principal *dwelling units*.
- 2) The *Chief Building Official* shall be notified within 30 days of any changes to the information that was last provided to the *City* with regard to the *operating permit*, in the form prescribed by the *Chief Building Official*.
- 3) If a decorative water feature is removed or its use is permanently discontinued, it shall be safely drained, thoroughly sanitized, and the make-up water line shall be disconnected and capped.
- 4) Where an outdoor decorative water feature is provided as an auxiliary system to a *building*, then the outdoor decorative water feature shall be considered part of the *building* for the purposes of this Article."

4. In Book II, Division B, Table 2.8.1.1. Objections and Functional Statements, Council adds:

“

2.2.11.6. Cooling Towers	
(1)	[F40,F41,F43,F46,F81,F82,F130-OS3.4,OH1.1,OH2.2,OH5,OP5,OE1.2]
(2)	[F40,F41,F43,F46,F81,F82,F130-OS3.4,OH1.1,OH2.2,OH5,OP5,OE1.2]
(3)	[F40,F41,F43,F46,F81,F82,F130-OS3.4,OH1.1,OH2.2,OH5,OP5,OE1.2]

”

5. In Book II, Division B, Table 2.8.1.1. Objections and Functional Statements, Council adds:

“

2.2.11.7. Indoor and Outdoor Decorative Water Features	
(1)	[F40,F41,F43,F46,F81,F82,F130-OS3.4,OH1.1,OH2.2,OH5,OP5,OE1.2]
(2)	[F40,F41,F43,F46,F81,F82,F130-OS3.4,OH1.1,OH2.2,OH5,OP5,OE1.2]
(3)	[F40,F41,F43,F46,F81,F82,F130-OS3.4,OH1.1,OH2.2,OH5,OP5,OE1.2]
(4)	[F40,F41,F43,F46,F81,F82,F130-OS3.4,OH1.1,OH2.2,OH5,OP5,OE1.2]

”

6. In Book I, Division B, Article 6.3.2.15., directly beneath the title of the Article, Council adds “(See Article 2.2.11.6. of Division B of Book II (Plumbing Systems) of this By-law.)”.
7. In Book I, Division B, Article 6.3.2.16., directly beneath the title of the Article, Council adds “(See Article 2.2.11.7. of Division B of Book II (Plumbing Systems) of this By-law.)”.
8. In Book I, Division A, Sentence 1.4.1.2.(1) Defined Terms, Council adds the following in correct alphabetical order:

“Low Carbon Energy System means a professionally operated and maintained district-scale or on-site system that supplies heat energy, primarily derived from highly-efficient

and renewable sources, in order to provide space heating and conditioned ventilation air for buildings, and may also provide domestic hot water and cooling service.”.

9. In Book I, Division B, Part 10, Council strikes Article 10.2.2.5 and substitutes:

“10.2.2.5. Building Energy and Emissions Performance

- 1) For a *building* required to conform with this Article, energy modelling shall conform to:
 - a) the applicable requirements of ASHRAE 90.1 ECB, or Part 8 of the NECB, and
 - b) the City of Vancouver Energy Modelling Guidelines.
- 2) Except as permitted in Sentences (3) or (4), a *building* designed with this Article shall demonstrate the performance values of the proposed building comply with the limits in Table 10.2.2.5.A.
- 3) Compliance with the GHGI limits in Table 10.2.2.5.A is not required where a *building* can demonstrate the performance values of the proposed *building* comply with the TEUI and TEDI limits in Table 10.2.2.5.B.
- 4) Compliance with the TEUI and TEDI limits in Table 10.2.2.5.A is not required where a building is connected to a Low Carbon Energy System, and can demonstrate the performance values of the proposed building comply with the limits in Table 10.2.2.5.C.

Table 10.2.2.5.A
Maximum Energy Use and Emissions Intensities
 Forming part of Sentence 10.2.2.5.(2)

Occupancy Classification (1)	Total Energy Use Intensity (kWh/m²a)	Thermal Energy Demand Intensity (kWh/m²a)	Greenhouse Gas Intensity (kgCO₂e/m²a)
Group C <i>occupancies</i> in <i>buildings</i> up to 6 <i>Storeys</i> , except Hotel and Motel	110	25	5.5
Group C <i>occupancies</i> in <i>buildings</i> over 6 <i>Storeys</i> , except Hotel and Motel	120	30	6
Hotel and Motel <i>occupancies</i>	140	20	8
Group D and E <i>occupancies</i> , except Office	120	20	3
Office <i>occupancies</i>	100	20	3

Notes to Table 10.2.2.5.A.:

⁽¹⁾ For *buildings* containing multiple *occupancies*, refer to the procedures on mixed-use buildings in Section 5 of the CoV Energy Modelling Guidelines.

Table 10.2.2.5.B Maximum Energy Use and Emissions Intensities Forming part of Sentence 10.2.2.5.(3)			
Occupancy Classification	Total Energy Use Intensity (kWh/m2a)	Thermal Energy Demand Intensity (kWh/m2a)	Greenhouse Gas Intensity (kgCO2e/m2a)
Group C occupancies	100	15	N/A

Table 10.2.2.5.C
Maximum Energy Use and Emissions Intensities
For Buildings Connected to a Low Carbon Energy System
 Forming part of Sentence 10.2.2.5.(4)

Occupancy Classification	Total Energy Use Intensity (kWh/m2a)	Thermal Energy Demand Intensity (kWh/m2a)	Greenhouse Gas Intensity (kgCO2e/m2a)
Group C occupancies in buildings up to 6 Storeys, except Hotel and Motel	110	25	5.5
Group C occupancies in buildings over 6 Storeys, except Hotel and Motel	130	40	6
Hotel and Motel occupancies	170	30	8
Office occupancies	170	30	3
Business and Personal Services or Mercantile Occupancies, except Office	170	30	3

10. 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.

11. This By-law is to come into force and take effect as follows:

- a) sections 2, 4 and 6 of this By-law are to come into force and take effect on January 1, 2020;
- b) sections 3, 5 and 7 of this By-law are to come into force and take effect on July 1, 2020; and
- c) sections 8 and 9 of this By-law are to come into force and take effect on June 1, 2021.

ENACTED by Council this _____ day of _____, 2019

Mayor

City Clerk

EXPLANATION

**By-law to amend the
Building Board of Appeal By-law No. 6135
Regarding Membership of the Board and Housekeeping Amendments**

Enactment of the attached By-law will implement Council's resolution of July 9, 2019 to amend the Building Board of Appeal By-law, effective November 1, 2019.

Director of Legal Services
July 23, 2019

HC.

BY-LAW NO.

**A By-law to Amend the Building Board of Appeal By-law No. 6135
Regarding Membership of the Board and Housekeeping Amendments**

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

1. This by-law amends the indicated provisions of the Building Board of Appeal By-law No. 6135.
2. Council strikes out section 3.1 and substitutes:

"3.1 The Board shall consist of 5 members, one appointed from each of the following associations:

 - (a) one member of the Law Society of British Columbia;
 - (b) one member of the Architectural Institute of British Columbia;
 - (c) one member of the Association of Professional Engineers and Geoscientists of British Columbia who is a consultant in Fire and Life Safety; and
 - (d) two members of the Association of Professional Engineers and Geoscientists of British Columbia who are qualified by virtue of their training and experience to provide expertise in the areas of:
 - (i) structural,
 - (ii) mechanical,
 - (iii) electrical,
 - (iv) building enclosure, and
 - (v) geotechnical."
3. Council strikes out subsection 4.1(a) and substitutes:

"(a) the Building By-law in respect of any item referred to in Article 3.1.1.2. of Division C; and"
4. Council strikes out section 6.1 and substitutes:

"6.1 There shall be a Secretary to the Board who shall be an employee of the City."

5. In section 7.4, Council strikes out "being City of Vancouver By-law No. 3844, and in particular the terms defined in Section 2 of that By-law" and substitutes "being City of Vancouver By-law No. 10200, and in particular the terms defined in Section 1.2 of that By-law".

6. This By-law is to come into force and take effect on November 1, 2019.

ENACTED by Council this _____ day of _____, 2019

Mayor

City Clerk

EXPLANATION

**By-law to amend the
Certification of Professionals By-law No. 6203
regarding updated letters of assurance and consequential amendments
related to the 2019 Building By-law**

The attached By-law will implement Council's resolution of July 9, 2019 to amend Certification of Professionals By-law No. 6203 regarding updated letters of assurance and consequential amendments related to the 2019 Building By-law, to come into force and take effect on November 1, 2019.

Director of Legal Services
July 23, 2019

HC.

BY-LAW NO.

**A By-law to amend
Certification of Professionals By-law No. 6203
Regarding updated letters of assurance and consequential amendments
Related to the 2019 Building By-law**

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

1. This by-law amends the indicated provisions of the Certification of Professionals By-law.
2. In section 6, Council strikes out "letters of confirmation and certification" and substitutes "letters of confirmation".
3. Council strikes out section 7 and substitutes the following:


"7. After receiving a properly completed Certified Professional Building Permit Application accompanied by the required letters of confirmation, the City Building Inspector may accept the letters as satisfactory evidence of compliance and conformity with the Building By-law and issue a building permit based thereon, and upon completion of the building the City Building Inspector may issue an occupancy permit based on the CP-2 "Confirmation of Completion" letter by the Certified Professional that the building as built conforms to the accepted plans for which letters of confirmation were received."
4. In sections 8 and 9, Council strikes out "Certification of Design" and substitutes "CP-1 "Confirmation of Commitment"".
5. Council strikes out Schedule A and substitutes the attached Schedule A, which shall form part of By-law 6203.
6. 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.
7. This By-law is to come into force and take effect on November 1, 2019.

ENACTED by Council this _____ day of _____, 2019

Mayor

City Clerk

Schedule A

 CITY OF VANCOUVER	Schedule CP-1
	Confirmation of Commitment by Owner and Certified Professional
<small>Certified Professional Program An Alternate Building Permit Process</small>	

- Notes:
1. This letter is endorsed by the Architectural Institute of British Columbia and the Association of Professional Engineers and Geoscientists of British Columbia.
 2. The phrase Building By-law where used in this letter means the Vancouver Building By-law.
 3. Words in italics are given the same meaning as defined in the Vancouver Building By-law.
 4. Words in "quotations" are defined herein.

To: Chief Building Official Date: _____

Project Address: _____ Building Permit No.: _____

In signing and submitting this document to the *Chief Building Official* the *owner* confirms that the *owner* has authorized the *Certified Professional*, to undertake "code coordination" and the undersigned *Certified Professional* ("CP") confirms that the CP will undertake "code coordination" with respect to the above noted project for which a building permit is sought.

"Code coordination" includes the following tasks:

1. act on behalf of the *owner* as the *owner's* representative in matters involving the City of Vancouver in relation to the building permit, related project construction and related occupancy permit;
2. ascertain that the required "Registered Professionals of Record" for the project have been retained to provide *design* and *field review* in accordance with the Building By-law;
3. obtain the necessary letters of Assurance of Professional Design and Commitment for Field Review from the "Registered Professionals of Record" for the project and deliver the originals of same to the *Chief Building Official* when applying for the building permit for the project;
4. obtain the other necessary documents required to support the building permit application and deliver same to the *Chief Building Official* when applying for the building permit for the project;
5. apply for and obtain a building permit for the project in accordance with the process as described in the Building By-law;
6. provide "design review" of the plans and supporting documents prepared by each of the "Registered Professionals of Record" for the project;
7. ascertain that the "Registered Professionals of Record" have incorporated in their plans and supporting documents, the requirements of the "Building By-law" Division A; Division B Parts 1 and 3; and Division C;
8. ascertain that the Division A; Division B, Parts 1 and 3; and Division C Building By-law requirements governing the project are compatible between the plans and supporting documents prepared by each "Registered Professional of Record";
9. provide "site review" of the components of the plans and supporting documents prepared by each of the "Registered Professionals of Record" for the project;
10. keep records of all "site reviews" by the CP and of any corrective action required and taken as a result of these "site reviews"; Discrepancies noted during "site reviews" must be tracked and the resolution of these discrepancies noted such that a list of significant unresolved discrepancies can be provided at any time;
11. "monitor field review activities" of the "Registered Professionals of Record";
12. monitor and report on significant events and changes in the project;
13. submit a monthly summary progress report to the *Chief Building Official* during construction of the project;
14. consult with the *Chief Building Official* if any unresolved variances in interpretation of the Building By-law arise between the CP, and the "Registered Professionals of Record";
15. consult with the *Chief Building Official* if any unresolved issues with respect to the Building By-law arise between the CP and the contractor;

Project Address: _____ Date: _____
Building Permit No.: _____

"Code coordination" (cont'd):

16. review relevant shop drawings with respect to the requirements of Division A, Division B, Parts 1 and 3 and Division C of the Building By-law;
17. notify the *Chief Building Official* in a timely manner of any significant known, unresolved contraventions of the Building By-law or Building Permit requirements;
18. obtain the necessary letters of Assurance of Professional *Field Review* and Compliance from the "Registered Professionals of Record" for the project and deliver the originals of same to the *Chief Building Official* when applying for the occupancy permit for the project;
19. obtain the other necessary documents required to support the occupancy permit application and deliver same to the *Chief Building Official* when applying for the occupancy permit for the project;
20. apply for occupancy approval for the project in accordance with the process as described in the Building By-law; and
21. apply the CP stamp to all relevant documents that are submitted to the *Chief Building Official*. Affixing his or her CP stamp to a document confirms that the CP has provided the relevant portion of "code coordination" applicable to that document.

"Design review" means the activities necessary to ascertain that the design of the project will substantially comply, in all material respects, with the requirements of Division A; Division B, Parts 1 and 3; and Division C of the Building By-law.

"Monitoring field review activities" means ascertaining that the "Registered Professionals of Record" are providing *field reviews* as required by Div C, Part 2 of the Building By-law; and includes keeping records of all *field review* reports prepared by each Registered Professional of Record. The owner will instruct each "Registered Professional of Record" to highlight in his or her field review reports any significant variation from the documents accepted in support of the building permit and any corrective action as needed. The CP will review the variations highlighted in the *field review* reports and notify the *Chief Building Official*, in a timely manner, of significant unresolved variations from the documents accepted in support of the building permit.

"Registered Professional of Record" means a *registered professional* retained to undertake design work and *field review* pursuant to Schedules B and C-B of Subsection 2.7 in Division C of the Building By-law.

"Site review" means the activities necessary in the CP's professional judgment to ascertain that the construction of the project substantially complies, in all material respects, with the requirements of Division A; Division B, Parts 1 and 3; and Division C of the Building By-law and the requirements of the building permit and monitoring for compliance with the development permit issued for the project.

In addition to "code coordination" the undersigned *owner* and CP also acknowledge that:

1. If the project involves future tenant improvement works, and the base *building* occupancy is not achieved prior to commencement of the tenant improvement works, the involvement of the CP may be required; and,
2. The *owner* and the CP are each required to notify the *Chief Building Official* on or before the date the CP ceases to be retained by the *owner*. It is understood that work on the above project will cease as of the effective date of such termination, until such time as a new appointment is made, and a *Stop Work Order* shall be posted upon the said project by the *Chief Building Official*.

Project _____
Address: _____

Date: _____
Building _____
Permit No.: _____

NOTE: This letter must be signed by the owner or the owner's appointed agent and by the CP. An agent's letter of appointment must be attached. If the owner is a corporation, the letter must be signed by a signing officer of the corporation and the signing officer must set forth his or her position in the corporation.

Owner Information (please print):

Owner's Name: _____ Name and title of Signing Officer, or Agent (if Applicable): _____
Address: _____ Tel: _____
City: _____ Email: _____
Postal Code: _____ 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.)


NOTE: A *Certified Professional* means an Architect or Professional Engineer who has been recognized as qualified as a *Certified Professional* by the Chief Building Official pursuant to the Certification of Professionals By-law.

Certified Professional (please print):

Name: _____ Name of Firm: _____
Address: _____ Tel: _____
City: _____ Email: _____
Postal Code: _____ Signature: _____

(Affix Certified Professional's stamp here)

(Affix Certified Professional's professional seal here)

	<p style="margin: 0;">Schedule CP-2</p> <p style="margin: 0;">Confirmation of Completion of Code Coordination</p> <p style="margin: 0; font-size: small;">Certified Professional Program An Alternate Building Permit Process</p>
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- Notes:
1. This letter is endorsed by the Architectural Institute of British Columbia and the Association of Professional Engineers and Geoscientists of British Columbia.
 2. Words in Italics are given the same meaning as defined in the Vancouver Building By-law.
 3. Words in quotations are defined in Schedule CP-1.

To: *Chief Building Official* Date: _____

Project Building

Address: _____ Permit No.: _____

I confirm that I have fulfilled my obligations for "code coordination" as outlined in my previously submitted Schedule CP-1 entitled *Confirmation of Commitment by Owner and Certified Professional*.

I enclose the relevant occupancy permit documents as listed on the attached Occupancy Permit Submission Documents Checklist.


NOTE: A *Certified Professional* means an Architect or Professional Engineer who has been recognized as qualified as a *Certified Professional* by the *Chief Building Official* pursuant to the Certification of Professionals By-law.

Certified Professional:

Name: _____	Name of Firm: _____
Address: _____	Tel: _____
City: _____	Email: _____
Postal Code: _____	Signature: _____

(Affix *Certified Professional's* stamp here)

(Affix *Certified Professional's* professional seal here)

	<p style="text-align: right;">Schedule CP-3</p> <p style="text-align: center;">Confirmation of Tenant Improvement Compatibility</p> <p style="text-align: right;">Certified Professional Program An Alternate Building Permit Process</p>
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- Notes:
1. This letter is endorsed by the Architectural Institute of British Columbia and the Association of Professional Engineers and Geoscientists of British Columbia.
 2. Words in italics are given the same meaning as defined in the Vancouver Building By-law.
 3. Words in quotations are defined in Schedule CP-1.
 4. The phrase "Building By-law" where used in this letter means the Vancouver Building By-law.

To: *Chief Building Official* Date: _____

Base Building Base Building

Project Address: _____ Permit No.: _____

Specific Location of Tenant Improvement: _____

I confirm that I have reviewed the drawings on the attached list to ascertain that the tenant improvement design is substantially compatible with the original building by-law concepts for the *base building*.

I confirm that the construction of the *base building* shell space for this tenant improvement is essentially complete with the exception of the items indicated on the attached list.

NOTE:	A <i>Certified Professional</i> means an Architect or Professional Engineer who has been recognized as qualified as a <i>Certified Professional</i> by the <i>Chief Building Official</i> pursuant to the Certification of Professionals By-law.
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Certified Professional:

Name: _____	Name of Firm: _____
Address: _____	Tel: _____
City: _____	Email: _____
Postal Code: _____	Signature: _____

(Affix *Certified Professional's* stamp here)

(Affix *Certified Professional's* professional seal here)

EXPLANATION

**Street Name By-law No. 4054
Re: Jack Uppal Street**

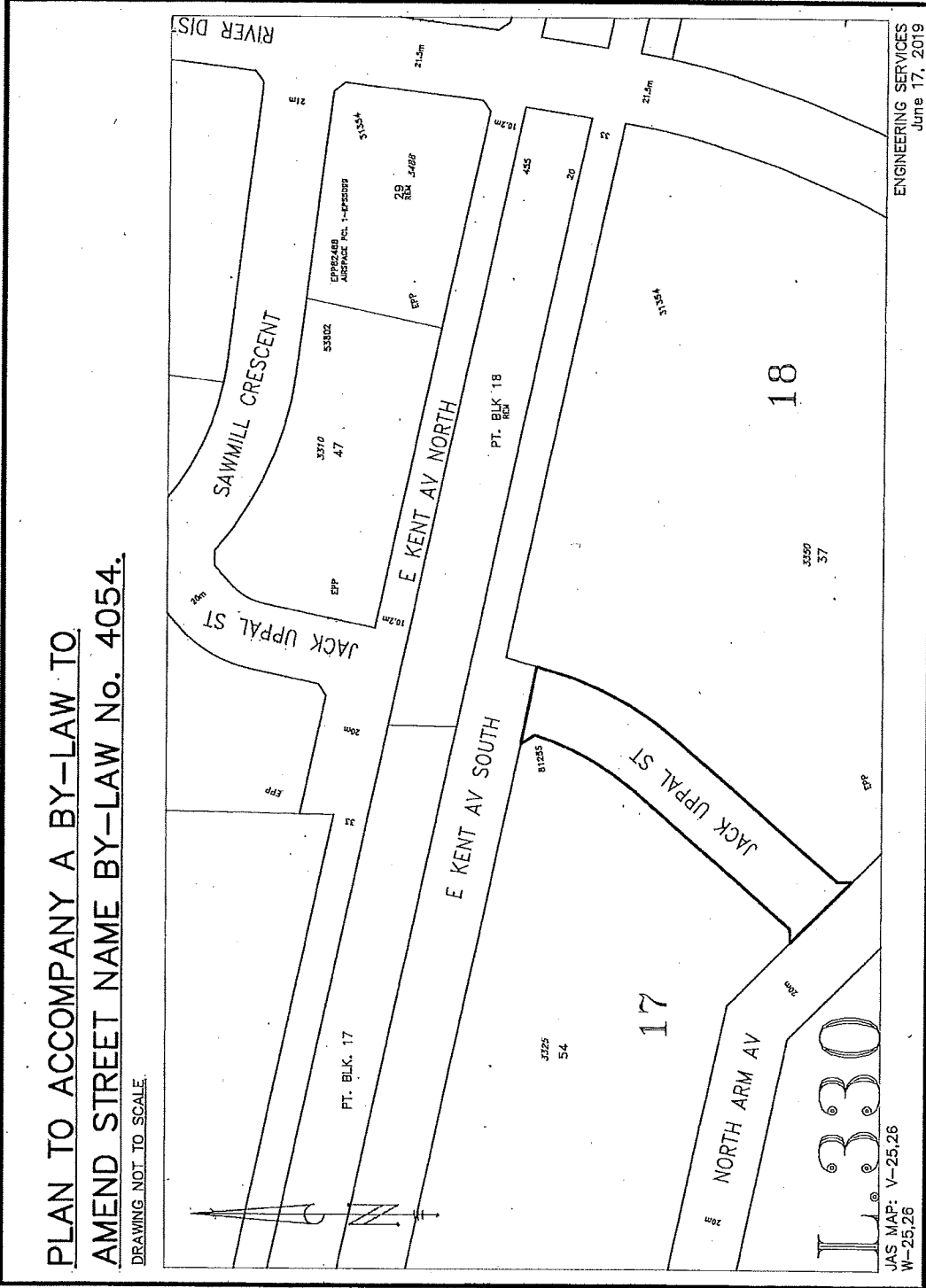
Enactment of the attached By-law will implement Council's resolution of July 23, 2019 to name the street as set out in the attached By-law.

Director of Legal Services
July 23, 2019

601Z12109

PLAN TO ACCOMPANY A BY-LAW TO
AMEND STREET NAME BY-LAW No. 4054.

DRAWING NOT TO SCALE



ENGINEERING SERVICES
June 17, 2019

LF12109

Y:\LAND_SURVEY\JMS\Street Name\dwg\Jack Uppal St-June 2019.dwg

JAS MAP: V-25,26
W-25,26

L.330

EXPLANATION

**A By-law to amend Street Name By-law No. 4054
regarding the naming of a new street**

Enactment of the attached By-law will implement Council's resolution of July 23, 2019 to name the street as set out in the attached By-law.

Director of Legal Services
July 23, 2019

BY-LAW NO.

**A By-law to amend Street Name By-law No. 4054
regarding the naming of a new street**

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

1. Council amends By-law No. 4054 by:
 - (a) assigning the name "Oolichan Way" to that portion of public street outlined in bold black on the plan marginally numbered LF 12110, attached to and forming part of this By-law; and
 - (b) adding to the "Official Street Name Map of the City of Vancouver", which is the plan marginally numbered L325, attached to and forming part of By-law No. 4054, that portion of public street named "Oolichan Way" located as shown on the plan marginally numbered LF 12110.
2. 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.
3. This By-law is to come into force and take effect on the date of its enactment.

ENACTED by Council this day of , 2019

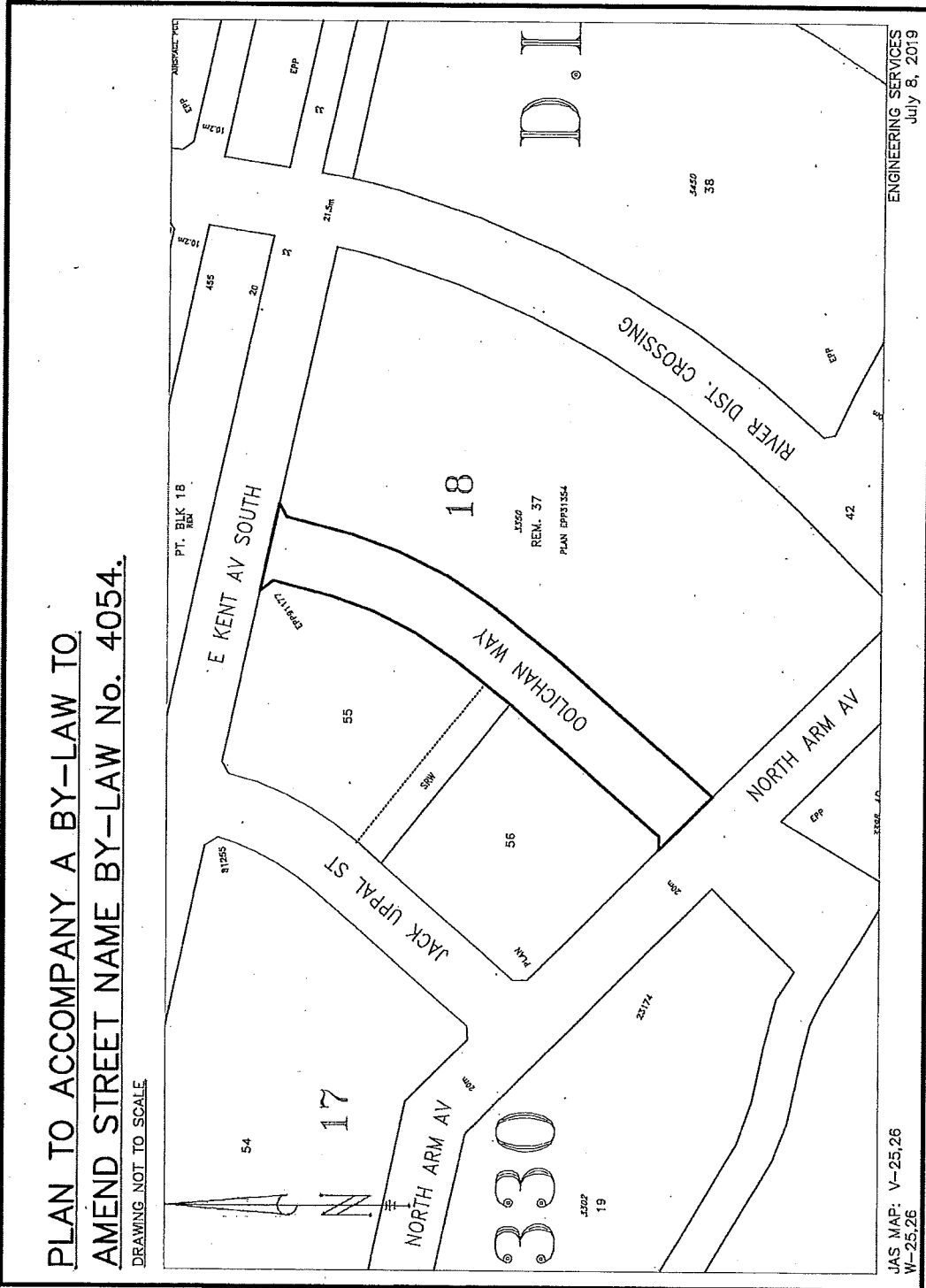
Mayor

City Clerk

LF12110

**PLAN TO ACCOMPANY A BY-LAW TO
AMEND STREET NAME BY-LAW No. 4054.**

DRAWING NOT TO SCALE



JAS MAP: V-25,26
W-25,26

ENGINEERING SERVICES
July 8, 2019

Y:\LAND_SURVEY\JAS\Street Name\dwg\EPL Colichan Way-July 8 2019.dwg

LF12110