



CITY OF VANCOUVER

## CITY OF VANCOUVER

### ADMINISTRATIVE REPORT

# A11

Report Date: October 14, 2008  
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Meeting Date: October 28, 2008

TO: Vancouver City Council

FROM: Director, Licences & Inspections/Chief Building Official

SUBJECT: Relaxation By-law for Temporary Structures and Buildings Intended for Special Events During the 2010 Olympic and Paralympic Winter Games

#### RECOMMENDATION

- A. THAT Council approve in principle the proposed 2010 Olympic and Paralympic Winter Games Building By-law Relaxation By-law (the "2010 Temporary Structures By-law") intended for temporary buildings and structures used to host Special Events at Vancouver Organizing Committee for the 2010 Winter Games ("VANOC") and City controlled sites during the 2010 Olympic and Paralympic Winter Games ("2010 Winter Games") substantially as shown in Appendix A of this report.

AND THAT Council authorize the Director of Legal Services to bring forward the 2010 Temporary Structures By-law substantially as shown in Appendix A.

- B. THAT Council direct the Chief Building Official to report back on the results of the 2010 Temporary Structures By-law with a recommendation as to how the legacy of this By-law may be expanded to all future special events in the City after the 2010 Winter Games.

#### GENERAL MANAGER'S COMMENTS

The General Manager of Community Services RECOMMENDS approval of Recommendations A and B.

## COUNCIL POLICY

Under section 306 of the Vancouver Charter, Council may make by-laws to regulate the construction of buildings, and Council has done so by virtue of the Building By-law which applies to both permanent and temporary structures and buildings.

Under section 565A of the Vancouver Charter, Council may make by-laws to relax the requirements of the Building By-law where Council determines that the proposed development makes provision for public space or activities.

## SUMMARY

This report recommends the adoption of the new 2010 Temporary Structures By-law (See Appendix A) to regulate the design and construction of temporary structures and buildings used to host special events during the 2010 Winter Games specifically at VANOC and City controlled sites. This proposed By-law was developed in collaboration with the VANOC and the City's Olympic and Paralympic Office as well as other City Departments - Development Services, Fire Services and Engineering Services. The 2010 Temporary Structures By-law includes a comprehensive suite of fire and life safety, structural, and accessibility relaxations to technical Building By-law requirements. These relaxations better reflect the intended use and nature of temporary structures and buildings used to host special events while at the same time maintaining an appropriate level of safety.

In addition to the technical requirements, the 2010 Temporary Structures By-law also includes administrative requirements, which are intended to provide a simple, stream lined and fast track building permit and inspection processes for special events during the 2010 Winter Games. This new process is structured in a similar fashion to the City's Certified Professional Program where greater reliance is placed on the design professionals to provide assurance that the design and construction complies with by-laws and regulations. Since it is proposed that City involvement in the building permit approval and inspection process be greatly reduced, this report recommends a flat building permit fee of \$100.00 for these types of building permit applications.

Staff believe that the 2010 Temporary Structures By-law will greatly assist with the facilitation of the 2010 Winter Games and provide a legacy after the games should this By-law be expanded for all future special events held in the City.

## PURPOSE

The purpose of this report is to seek Council approval to adopt a comprehensive suite of regulations, which relax Building By-law requirements for temporary structures and buildings used to host special events during the 2010 Winter Games at VANOC and City controlled sites. In addition, this By-law recommends a simple, streamlined and fast track building permit and inspection process which will greatly facilitate City approvals for these types of buildings and structures.

## BACKGROUND

The 2010 Winter Games will provide the City the opportunity to host the world and showcase our city, culture, and country. The duration of this event is short, however the preparation for this event will have a tremendous impact on both permitting and inspection Staff in both the Development Services and Licences and Inspections Departments. This pressure will be especially demanding for Staff involved with the approval of temporary structures and buildings used for the 2010 Winter Games.

For many years special event organizers have expressed concerns related to the application of the Building By-law with respect to the design and construction of temporary structures and buildings associated with special events. Due to the temporary nature of these structures and buildings, many of the current requirements in the Building By-law are often considered onerous and not reasonable. It should be noted that these requirements were originally developed to address the design and construction of buildings that are more permanent in nature. As a result, organizers have had to engage the services of Building Code Consultants (Engineers and Architects) to develop alternative solutions to these requirements and then seek acceptance of these proposals from the Chief Building Official. This approach is costly for special event organizers and time consuming for both organizers as well as Staff who are responsible for permit issuance, inspection services and the acceptance of alternative Building By-law solutions.

In addition to the technical requirements, organizers have expressed concerns over the City's permitting and inspection processes associated with these types of events. Special event organizers often have difficulty in obtaining their permits and inspections in a timely manner. The reasons for this are varied, however often the problems relate to tight deadlines, difficulties meeting prescriptive requirements of the Building By-law and the ability for organizers to engage the services of building professionals to prepare alternative solutions to Building By-law requirements.

Staff realize that the upcoming 2010 Winter Games will apply increased pressure to the City Departments responsible for issuance of building permits and the delivery of inspection services. For many years now Building Policy Staff have worked with industry to accept alternative Building By-law requirements for these types of structures and buildings. Therefore, building on this experience and working with VANOC and other City Departments, Building Policy Staff developed this By-law to assist with the design and construction of temporary structures and buildings located at both VANOC and City controlled sites.

In addition to the review of the technical requirements of the Building By-law, Staff closely examined the current building permit and inspection processes associated with these types of permits. The objective of this review was to develop a simple, streamlined and efficient building permit approval and inspection process that would greatly assist special event organizers as well as, reduce workload for permitting and inspection Staff during the 2010 Winter Games.

## DISCUSSION

The proposed 2010 Temporary Structures By-law is comprised of technical requirements (relaxations to the current Building By-law requirements for special events) and

administrative requirements that will help to streamline and fast track the building permit approval and inspection processes related to temporary structures and buildings used for the 2010 Winter Games. The provisions of the 2010 Temporary Structures By-law apply to all City controlled and VANOC sponsored live sites during the games period. Should Council accept this proposed By-law, it is recommended that the relaxations in it be effective from the date of enactment to March 31, 2010.

#### Technical Requirements of Proposed 2010 Temporary Structures By-law

The objective of the technical requirements in the Building By-law relate to fire and life safety, structural design and accessibility. As stated in the background section of this report, many of the current Building By-law requirements are considered to be overly onerous and often not suitable for temporary structures and buildings associated with special events. When these requirements were originally developed they were intended for the design and construction of more permanent types of structures.

As a result, Staff reviewed the technical requirements of the Building By-law to determine which ones would be problematic for the construction of temporary structures and buildings intended for special events during the 2010 Winter Games. Staff developed relaxations to many of these requirements based on accepted alternative solutions for previous special events held in the City as well as the review of other model codes and regulations used at previous Olympic Games. The relaxations were developed in collaboration with VANOC, the City's Olympic and Paralympic Office, and Fire Services. Staff believe that these relaxations provide a level of safety that is more appropriate for temporary structures and buildings used to host special events. Should Council accept this new 2010 Temporary Structures By-law, Special Event Organizers will have a much easier time meeting the requirements of the Building By-law and therefore reduce the need to engage the services of Building Code Consultants (Engineers and Architects).

#### Administrative Requirements of the Proposed 2010 Temporary Structures By-law

Staff believe that it will be extremely difficult with our current Staff complement and existing administrative requirements in the Building By-law to facilitate the building permit and inspection approval processes for temporary structures and buildings at VANOC and City controlled sites in a timely manner. Therefore, Staff developed a more streamlined and simple building permit and inspection process that will facilitate City approvals. This process is similar to that of the current Certified Professional Program, but in a more simplistic form with even greater reliance on the design professionals.

Under this new process, all special event building permit applications for VANOC controlled sites will be reviewed by a Registered Professional having a Certified Professional designation who is under contract by VANOC. This Registered Professional will be required to provide assurance to the City that he or she has reviewed the application package for compliance with our Building By-law and this proposed 2010 Temporary Structures By-law through the appropriate Letters of Assurance and code compliance drawings. Once this Registered Professional has obtained all required clearances from other departments and submitted the documents to building processing Staff, the appropriate building permit will be issued. Once the building permit is obtained, the Registered Professional will provide inspection services and provide assurance once again to the City, through letters of assurance to demonstrate

that the design and construction is in compliance with the Building By-law and this proposed 2010 Temporary Structures By-law. Once this documentation is complete, Staff will grant occupancy for the particular structure or building.

A similar streamlined and fast tracked building permit and inspection process has been developed for the City controlled sites. In the case of City controlled sites where a Building By-law Coordinator is provided by the City, each special event sponsor must engage the services of a Certified Professional (CP). The role of this CP is to provide assurance to the City, through a single Building By-law Coordinator, reporting to the City's Olympic and Paralympic Office, for each site, that the design and construction of the temporary structures and buildings meet the requirements of the Building By-law and this proposed 2010 Temporary Structures By-law. Once again, the CP will do this through the appropriate documents (letters of assurance and code compliance drawings). The Building By-law Coordinator's responsibility is to collect this information, ensure that it is complete, review the impact of the specific application with adjacent sponsor structures and buildings and make a recommendation to the Chief Building Official as to whether or not the building permit is acceptable for issuance. Like VANOC sponsored sites, the CP will provide the appropriate inspections services and provide assurance to the City, through letters of assurance, to demonstrate that the construction is in compliance with both the Building By-law and this proposed 2010 Temporary Structures By-law. Once this process is complete, the Chief Building Official will grant occupancy approval for the particular structure or building. Where the City controlled site is not provided with a Building By-law Coordinator, the CP will provide all of the above documentation to the Chief Building Official or his designate.

Since the City's role in the building permit and inspection processes for these special events is only administrative in nature, Staff recommend that a flat rate building permit fee of \$100.00 be established for all of these applications. It should be noted that Certified Professionals and in the case of the VANOC sponsored sites, a Registered Professional are providing the level of service that is typically provided by the City and therefore the impact of City resources will be greatly reduced.

It should be noted that while this proposed By-law will only apply to VANOC sponsored and City controlled sites, the By-law will still greatly assist other special event sites during the 2010 Winter Games. In the case of these venues, registered professionals may use the basis of this By-law for justification for alternative solutions that they may require. This will help these organizers in obtaining building permit approvals.

#### Future of Proposed 2010 Temporary Structures By-law

Should Council approve this proposed 2010 Temporary Structures By-law, Staff will use the 2010 Winter Games as an opportunity to pilot the By-law. After the 2010 Winter Games, Staff will review the results of the 2010 Temporary Structures By-law and bring forward a recommendation to Council as to how it may be expanded in its application for future special events in the City.

#### **PUBLIC CONSULTATION**

Since Staff worked directly with VANOC and the City Olympic and Paralympic Office to develop this By-law and the scope of the By-law is limited to VANOC and City controlled sites,

public consultation was only carried out with these stake holders. VANOC Staff have reviewed the proposed By-law and think that, should Council approve this By-law, it will greatly assist with the delivery of the special events related to the 2010 Winter Games. It should also be noted that the Province is in the process of developing a similar regulation for VANOC sponsored live sites outside of the City. The basis for this By-law is being used to form a similar regulation under the British Columbia Building Code.

#### **IMPLEMENTATION PLAN**

Should Council approve the 2010 Temporary Structures By-law, Staff recommend that it be implemented as soon as possible. Since event organizers are currently carrying out plans and designs for VANOC and City controlled sites, it is best that they are quickly made aware of these requirements.

#### **CONCLUSION**

Should Council approve the proposed 2010 Temporary Structures By-law, Staff believe that it will add greatly to the quality of the event, by making it as easy as possible for event organizers to meet our requirements through a seamless, streamlined and simple building permit and inspection process. In addition to facilitating the appropriate approvals for the games, this By-law will form a legacy after the games should it be expanded for future special events in the City.

\* \* \* \* \*

**CITY OF VANCOUVER  
BRITISH COLUMBIA**



**2010 WINTER GAMES BUILDING BY-LAW  
RELAXATION BY-LAW NO. \_\_\_\_\_**

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BY-LAW NO. \_\_\_\_\_

A By-law to relax Building By-law No. 9419  
regarding the regulation of special event facilities for  
the Vancouver 2010 Olympic and Paralympic Winter Games

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

SECTION 1  
INTERPRETATION

Name of By-law

1.1 The name of this By-law, for citation, is the "2010 Winter Games Building By-law Relaxation By-law".

Definitions

1.2 The definitions set out in Sentence 1.4.1.2.(1) of Division A of the Building By-law apply to this By-law, and, in this By-law:

*"special event facility"* means a temporary *building*, tent, interior fitout, or other structure for the 2010 Winter Games;

*"2010 Winter Games"* means the Vancouver 2010 Olympic and Paralympic Winter Games;

*"VANOC"* means the Vancouver Organizing Committee for the 2010 Winter Games established on September 30, 2003; and

*"venue or site"* means any:

- (a) venue established, owned, or controlled by *VANOC*, for competition, non-competition, training, or support for the 2010 Winter Games, described in Schedule A to this By-law;
- (b) site established, owned, or controlled by the city:
  - (i) for live celebration of the 2010 Winter Games, or
  - (ii) for administrative, cultural, or governmental protocol pavilions, facilities, or centres,

described in Schedule B to this By-law; and

- (c) other such venue or site authorized from time to time by the *Chief Building Official*.

### Numbering system

1.3 The numbering system used in section 3.2 is the same as that used in the Building By-law for articles, sentences, clauses, and subclauses.

### Table of contents

1.4 The table of contents for this By-law is for convenient reference only, and is not for use in interpreting or enforcing this By-law.

### Schedules

1.5 Schedules attached to this By-law form part of this By-law.

### Severability

1.6 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.

## SECTION 2 RELAXATION OF THE BUILDING BY-LAW

### Provision for public space or activities

2.1 Council hereby determines that the proposed development, by way of the *construction* or installation of each *special event facility*, and the use of certain *existing buildings* or structures, at each *venue or site* in connection with competition, non-competition, training, or support for the 2010 Winter Games, makes provision for public space or activities.

### Relaxation of Building By-law

2.2 Subject to the time limits and conditions set out in this Section 2, and to the extent and subject to the conditions set out in Section 3, Council hereby relaxes the provisions of the Building By-law referred to in Section 3 in respect of each *special event facility*, and certain *existing buildings* or structures, at each *venue or site*.

### Compliance with Building By-law

2.3 Except only to the extent that this By-law expressly authorizes a relaxation, a person who constructs or installs a *special event facility*, or who uses an *existing building* or structure, must comply with the Building By-law.

## Time limit

2.4 Council hereby limits the relaxations granted in section 2.2 and set out in Section 3 in time so that they are to expire and have no further force or effect from and after March 31, 2010.

## Removal of special event facilities

2.5 Each of:

- (a) *VANOC*, in the case of any *special event facility* or *existing building* at a *venue*;
- (b) the city, in the case of any *special event facility* or *existing building* at a *site*;
- (c) any person who has an obligation to *VANOC* or the city to remove any *special event facility* from a *venue or site* or to restore an *existing building* at a *venue or site* to comply with the Building By-law; and
- (d) the *permit* holder for the *construction* or installation of a *special event facility*, or *alteration* of an *existing building*, at a *venue or site*;

must remove each *special event facility* that does not comply with the Building By-law, or cause the *special event facility* or *existing building* to comply with the Building By-law, to the satisfaction of the *Chief Building Official*, within 60 days after expiry of the time limit referred to in section 2.4.

## SECTION 3 RELAXATION OF SPECIFIC PROVISIONS OF THE BUILDING BY-LAW AND CONDITIONS OF RELAXATION

### Definitions regarding relaxations

3.1 For the purpose of interpreting the relaxation provisions set out in section 3.2, the definitions set out in section 1.2 apply, and:

*By-law consultant* means a *certified professional* appointed, in the case of:

- (a) a *special event facility* at a *venue*, by *VANOC*; or
- (b) a *special event facility* at a *site*, by the person to whom the city has given permission, by lease or otherwise, to construct the *special event facility*;

*Clustered modular building* means 2 or more *modular buildings* with an aggregate

*building* area not more than 1000 m<sup>2</sup> installed side-by-side or back to back, with zero *limiting distance* between *modular buildings*, at a *venue or site*;

*Metal sea container* means a metal transportable structure designed for the storage and transport of goods, the typical dimensions of which are 2.44 m in width, 2.59 m in height, and 6.1 m, 12.19 m, or 18.29 m in length;

*Modular building* means a temporary *building* consisting of *combustible construction* or *noncombustible construction* with *combustible* or *noncombustible* cladding, with typical maximum dimensions measuring 4.27 m wide, 18.29 m long, and 2.44 m floor to ceiling height, in respect of which the exterior walls, floor, and roof need not be constructed as a fire separation, at a *venue or site*; and

*Tent* means a temporary tent installed at a *venue or site*.

## Relaxation provisions

3.2 Council hereby relaxes each of the following specific sentences, clauses, and subclauses of the following articles of each of Divisions A, B, and C of the Building By-law, to the extent and subject to the conditions set out in each relaxation or added to each specific article, sentence, clause, or subclause:

### DIVISION A

#### Article 1.2.2.2. Storage on the Building Site

- 2) If a *metal sea container* is used for temporary storage of materials and equipment on a *building site*, the *metal sea container* shall
  - a) be equipped with lighting under both normal and emergency power,
  - b) include padlocks to lock the latching mechanism in the open position to prevent the door latch from closing when doors are in open position,
  - c) include signage, to avoid persons being locked inside the container, posted on the exterior of the swing door and outlining the procedure set out in clause (b), and
  - d) if the *metal storage container* is used for the storage of *flammable liquids*, *combustible liquids*, or hazardous chemicals, include a placard posted on the entrance door that sets out the size and orientation requirements contained in the Transport Dangerous Goods Regulation, Part 4, under the Transportation of Dangerous Goods Act of Canada.

#### Article 1.3.3.7. Energy Use

1) Except as permitted in Sentence (2) and for *special event facilities*, all *buildings* referred to in Sentences 1.3.3.2.(1) and 9.25.1.1.(3) of Division B shall comply with the energy efficient design requirements of ANSI/ASHRAE/IESNA 90.1, "Energy Standard for Building Except Low-Rise Residential Buildings".

## DIVISION B

### Article 3.1.5.8. Combustible Flooring Elements

2) Wood members more than 50 mm but not more than 1000 mm high applied directly above a *noncombustible* floor slab are permitted for the construction of a temporary raised platform in a *building* required to be of *noncombustible construction* provided the concealed spaces are fire stopped in conformance with Sentence 3.1.11.3.(2).

5) Combustible floor assemblies supported on noncombustible scaffolding are permitted for *special event facility* platforms for cameras, lighting, and similar support services.

### Article 3.1.5.12. Combustible Insulation and its Protection

7) A factory-assembled non-loadbearing interior or exterior wall or ceiling panel containing foamed plastic insulation having a *flame-spread* rating of not more than 25 is permitted to be used in a *building* required to be of *noncombustible construction* provided

a) the panel contains metal facing on both side that is adhered to a foamed plastic insulation core,

b) the exposed edges of the panels are covered with metal caps,

c) the *flame spread rating* of the foamed plastic insulation shall be determined on the basis of not less than three tests conducted in accordance with CAN/ULC-S102, "Test for Surface Burning Characteristics of Building Materials and Assemblies", and

d) the panel does not contain an air space.

### Article 3.1.6.3. Clearance to Other Structures

5) Sentence (2) does not apply to *tents*.

### Article 3.1.6.5. Flame Resistance

2) Despite Sentence (1), *tent* fabrics may conform to

- 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.

#### **Article 3.1.11.3. Fire Stopping between Nailing and Supporting Elements**

2) In a *building* required to be of *noncombustible construction*, fire stops conforming to Article 3.1.11.7. shall be provided in the concealed spaces created by the wood members permitted by Sentence 3.1.5.8.(2) so that the maximum area of a concealed space is not more than 100 m<sup>2</sup>.

#### **Article 3.2.2.53. Group D, up to 3 Storeys**

- 3) Despite Sentence (2)
  - a) floor assemblies of up to 3 vertically stacked *modular buildings* need not be constructed as *fire separations*, and
  - b) *loadbearing* walls of *modular buildings* need not have a *fire-resistance rating*.
- 4) up to 3 vertically stacked *modular buildings* shall have the following features
  - a) each *modular building*, and each *modular building* in a stack, shall be equipped with minimum 2 hard wired *smoke alarms*,
  - b) the *smoke alarms* shall be interconnected so that, if one alarm is activated, it will cause all alarms within stacked or *clustered modular buildings* to sound an *alarm signal*,
  - c) two fire extinguishers shall be provided within each *modular building*, and
  - d) liquid or gas fuel-fired appliances shall not be used in elevated or stacked *modular buildings*.

#### **Article 3.2.2.55. Group D, up to 2 Storeys**

- 3) Despite Sentence (2)
  - a) floor assemblies of up to 2 vertically stacked *modular buildings* need not be constructed as *fire separations*, and
  - b) *loadbearing* walls of *modular buildings* need not have a *fire-resistance rating*.
- 4) up to 2 vertically stacked *modular building* shall have the following features

- a) each *modular building*, and each *modular building* in a stack, shall be equipped with at least 2 hard wired *smoke alarms*,
- b) the *smoke alarms* shall be interconnected so that, if one alarm is activated, it will cause all alarms within stacked or *clustered modular buildings* to sound an *alarm signal*,
- c) two fire extinguishers shall be provided within each *modular building*, and
- d) liquid or gas fuel-fired appliances shall not be used in an elevated or stacked *modular building*.

#### **Article 3.2.3.1. Limiting Distance and Area of Unprotected Openings**

- 2) The area of the *unprotected openings* in an *exposing building face* shall be the aggregate area of *unprotected openings* expressed as a percentage of the area of the *exposing building face* in Table 3.2.3.1.A, Table 3.2.3.1.B, Table 3.2.3.1.C or Table 3.2.3.1.D, except that *modular buildings*, *clustered modular building*, or stacked *modular buildings* may have 100 % *unprotected openings* with a minimum of 3 m separation between the exposing *building face* of *buildings*.

#### **Article 3.2.4.1. Determination of Requirement for a Fire Alarm System**

- 6) Despite Sentence (2), fire alarm systems need not be provided for *tents*.



#### Article 3.2.5.1. Access to Above Grade Storeys

1) Except for *storeys* below the *first storey*, *modular buildings*, *clustered modular building*, *stacked modular buildings*, or *tents*, direct access for firefighting shall be provided from the outdoors to every *storey* that is not *sprinklered* throughout and whose floor level is less than 25 m above *grade*, by at least one unobstructed window or access panel for each 15 m of wall in each wall required to face a *street* by Subsection 3.2.2.

4) Except for *modular buildings*, *clustered modular building*, *stacked modular buildings*, or *tents*, where locking devices to prevent access to *floor areas* are installed on *exit* doors either

a) a master key to operate the locking devices shall be provided in an *acceptable* location accessible to fire fighters, or

b) the *exit* door shall be provided with a wired glass panel not less than 0.0645 m<sup>2</sup> in area, and be located not more than 300 mm from the door opening hardware.

#### Article 3.2.5.5. Location of Access Routes and Paths of Travel

2) Except as provided by Sentence (3), access routes required by Article 3.2.5.4. shall be located so that

a) the *building* face facing the access route is located not less than 3 m from the closest portion of the access route required for fire department use, measured horizontally to the face of the *building*, and

b) the principal entrance is located not more than 45 m from the closest portion of the access route required for fire department use, measured horizontally along the path of travel from the access route to the principal entrance of each *special event facility* provided

i) each *modular building*, *tent*, or *metal sea container* shall have a designated number posted on or above the entrance door,

ii) each *venue* shall have a graphic site plan indicating the location and numbering of each *special event facility*, which graphic site plan shall be provided to the *venue* incident officer, security command centre, and the site's main operations centre, and

iii) specific operational requirements for fire fighting access shall be established by the Vancouver 2010 Fire and Rescue Advisory Board.

#### Article 3.2.5.13. Automatic Sprinkler Systems

11) Despite Sentence 1), areas beneath the bleacher seating need not be sprinklered provided

- a) signage shall be posted in the unoccupied space beneath the bleacher seating that reads "No Storage Permitted in This Area" ,
- b) only staff and cleanup crews shall be permitted in the unoccupied space beneath the bleacher seating,
- c) cleanup crews shall clean up debris from the unoccupied space beneath the bleacher seating at the end of each day, and
- d) the only occupied space beneath the bleacher seating is used as a pedestrian walkway for access to the bleacher seating.

12) Despite Sentence (1), additional sprinkler heads need not be installed beneath the temporary ceilings that are installed in existing sprinklered *buildings* provided

- a) installations of ceilings shall be limited to concentrated areas of not more than 50% of the sprinkler design area as determined by NFPA 13 for the relevant hazard classification,
- b) concentrated areas of temporary ceilings shall be separated from adjacent temporary ceilings by a minimum horizontal distance of 3 m,
- c) space beneath the temporary ceiling shall not contain any hazardous materials, and
- d) trained personnel for fire watch shall be provided for each such *building*.

13) Despite Sentence (1), if temporary partition walls are installed in sprinklered *buildings*, additional sprinkler heads need not be provided to accommodate the temporary partition walls provided

- (a) temporary partition walls are installed not less than 300 mm horizontally from any existing sprinkler heads, and
- (b) trained personnel for fire watch is provided for each such *building*.

#### **Article 3.2.7.1. Minimum Lighting Requirements**

4) Despite Sentence (1), all newly constructed temporary non-public stairs as described in Sentence 3.4.6.7.(7) shall be equipped to provide illumination to an average level not less than 100 Lx at stair landing or tread.

#### **Article 3.3.2.2. Fire Separations**

3) If usable space exists under tiers of seats in arena-type *buildings* or *tents*, *fire separation* between the space and the seats is not required, and the space need not be

*sprinklered.*

#### **Article 3.3.2.5. Aisles**

- 6) The length of travel from a *building* to an *exit* door of a *tent*, which is installed adjacent to such *building*, by any aisle shall be not more than 70 m provided
  - a) trained personnel shall be available at all times to assist occupants to evacuate, and the path of travel from the exterior *exit* doors of the *building* to the exterior *exit* doors of the adjacent *tent* shall be kept clear,
  - b) trained personnel shall be provided at a minimum ratio of 1 per 500 spectators,
  - c) training procedures for the trained personnel shall include fire drill training,
  - d) trained personnel shall be equipped with voice communication devices to notify occupants of the emergency evacuation routes and procedures,
  - e) each *building* and associated *special event facility* shall have a fire and emergency evacuation plan, and
  - f) fire watch procedures shall be based on NFPA 101, "Life Safety Code, 2006 Edition".

#### **Article 3.4.5.1. Exit Signs**

- 7) *Despite Sentences (2) and (3), self-illuminated exit signs may be used for special event facilities provided*
  - a) the *exit* sign complies with the requirements of ULC/ORD C924-02 "Photoluminescent and Self-luminous Exit Signs", and
  - b) the exit sign has been evaluated by Canadian Construction Materials Centre, and is currently listed in the Registry of Product Evaluations.

#### **Article 3.4.6.4. Handrails**

- 7) Except for non-public stairs that serve a *special event facility* where work functions cannot reasonably be expected to be performed by persons with disabilities, at least one handrail at the side of a stairway or ramp shall extend horizontally not less than 300 mm beyond the top and bottom of the stairway or ramp.

#### **Article 3.4.6.5. Guards**

- 5) Except for guards on stairs that are used only by staff or work force volunteers,

there shall be no opening that permits the passage of a sphere whose diameter is more than 100 mm through a *guard* for an *exit*.

7) Except for guards on stairs that are used only by staff or work force volunteers, a *guard* shall be designed so that no member, attachment, or opening located between 140 mm and 900 mm above the level being protected by the *guard* will facilitate climbing.

#### Article 3.4.6.7. Treads, Risers and Tactile Warning

7) Despite Sentence (1), all newly constructed temporary non-public stairs where work functions cannot reasonably be expected to be performed by persons with disabilities may have open risers; existing rental stairs that do not serve the general public may have

- a) a run of not less than 250 mm between successive steps,
- b) a rise between successive treads not less than 125 mm and not more than 190 mm, and
- c) open risers.

#### Article 3.4.6.11. Direction of Door Swing

1) Except for doors serving a single *dwelling unit* and except as permitted by Sentences (2), (3), or (4) or Article 3.4.6.13., every *exit* door shall

- a) open in the direction of *exit* travel, and
- b) swing on its vertical axis.

3) *Exit* doors for *tents* 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 shall be provided for each *tent*, and
- b) the *occupant load* of the *tent* shall not exceed 60.

4) Temporary sliding gates may be installed in the *exit* path instead of an *exit* door opening in the direction of *exit* travel and swinging on its vertical axis provided

- a) gates shall be opened during normal operating hours, and manned with security personnel,

- b) gates shall be closed during non-operating hours, and locked with chains and padlock,
- c) operational procedures shall be in place to ensure that the chains and padlock are removed during operating hours, and
- d) security personnel shall be trained for emergency evacuation procedures, and shall remain in the vicinity of the *exit* gates.

#### Article 3.4.6.15. Door Release Hardware

- 1) Locking, latching and other fastening devices on a principal entrance door to a *building* as well as on every *exit* door shall permit the door to be readily opened from the inside with not more than one releasing operation and without requiring keys, special devices or specialized knowledge of the door opening mechanism, except
  - a) for devices on doors serving a *contained use area* or an *impeded egress zone* designed to be remotely released in conformance with Article 3.3.1.13.,
  - b) as permitted by Sentence (4) and Article 3.4.6.16.,
  - c) that *exit* doors for *tents* may be equipped with fabric flaps, tie straps, zippers, or VELCRO brand or equivalent hook and loop fasteners in lieu of swing doors provided
    - i) a minimum of two *exit* door shall be provided for each *tent*, and
    - ii) the *occupant load* of the tent shall not exceed 60, and
  - d) temporary sliding gates may be installed in the *exit* path in lieu of an *exit* door opening in the direction of exit travel and swinging on its vertical axis provided
    - i) gates shall be opened during normal operating hours, and manned with security personnel,
    - ii) gates shall be closed during non-operating hours, and locked with chains and padlock,
    - iii) operational procedures shall be in place to ensure that the chains and padlock are removed during operating hours, and
    - iv) security personnel shall be trained for emergency evacuation procedures, and shall remain in the vicinity of the *exit* gates.

#### Article 4.1.1.3. Design Requirements

- 6) Single *storey modular buildings* need not be designed for earthquake load and effects, or wind load.
- 7) Stacked *modular buildings* or *modular buildings* that are supported on scaffolding shall be designed for wind load but need not be designed for earthquake load and effects.
- 8) *Tents*, scaffolding, and platforms need not be designed for earthquake load and effects.

#### Article 4.1.6.1. Specified Load Due to Rain or to Snow and Associated Rain

- 2) Despite Sentence (1), a *tent* may be designed for a minimum specified snow load (S) of 0.48 kPa provided
  - a) snow removal shall commence when the depth of roof snow exceeds 50 mm and shall be removed before the accumulation reaches 100 mm,
  - b) electric heaters shall be provided for all enclosed *tents* to assist in melting the roof snow, and shall be used and located as recommended by the manufacturer to avoid any fire hazard,
  - c) redundant electrical power supplies for heaters shall be provided, and electricians shall be available, to ensure that any power outage does not extend beyond one hour during occupied periods, and
  - d) electric heaters shall start up immediately after initial erection of the *tent*, and shall be continuously running until the removal of the *tent*.

#### Article 4.2.2.1. Subsurface Investigation

- 1) Except for a special event facility, a *subsurface investigation*, including *groundwater* conditions, shall be carried out by or under the direction of a professional engineer having knowledge and experience in planning and executing such investigations to a degree appropriate for the *building* and its use, the ground, and the surrounding site conditions.
- 2) *Foundation* design for a *special event facility* shall be designed based on a maximum 96 kPa allowable bearing pressure for soil.

#### Article 4.2.4.1. Design Basis

- 7) Tie down anchors are not required for single *storey modular buildings* or single *storey clustered modular buildings* when the floor level is less than 1.5 meters above adjacent ground level.

#### **Article 4.2.4.4. Depth of Foundations**

- 2) The *bearing surface* of a *foundation* need not be below the level of potential damage from frost where the *foundation*
  - a) is designed against *frost action*,
  - b) overlies material not susceptible to *frost action*, or
  - c) is for a special event facility.

#### **Article 5.1.2.1. Exposure to Exterior Space or the Ground and Separation of Dissimilar Environments**

- 3) Article 5.1.2.2. does not apply to *special event facilities*.

#### **Article 5.6.1.1. Required Protection from Precipitation**

- 1) Except as provided in Sentence (3), where a *building* component or assembly is exposed to precipitation, the component or assembly shall
  - a) minimize ingress of precipitation into the component or assembly,
  - b) prevent ingress of precipitation into interior space, and
  - c) be designed to drain any accumulated water to the exterior.
- 3) Clause 5.6.1.1.(1)(c) does not apply to *special event facilities*.

#### **Article 5.6.1.3. Installation of Protective Materials**

- 5) Sentences (3) and (4) do not apply to *special event facilities*.

#### **Article 6.2.2.1. Natural Ventilation**

- 1) Except as provided in Sentence (3) and for *tents*, all *buildings* shall be ventilated in accordance with this Part.

#### Article 7.4.2.1. Connections to Sanitary Drainage Systems

f) Portable water closets that are part of a *special event facility* need not be connected to the *sanitary drainage system*.

#### Article 7.4.2.4. Connections to Storm Drainage Systems

1) Except as provided in Sentences (2) and (3), all roof and paved areas shall drain to a *storm drainage system*.

3) Roofs and paved areas of a *special event facility* need not comply with Sentence (1).

### DIVISION C

#### Article 1A.3.4.2. Assure Compliance

2) Despite Sentence (1), for a *special event facility*, *VANOC*, in the case of a *venue*, and the applicant *owner*, in the case of a *site*, shall cause its *by-law consultant* to collect all letters referred to in Sentence (1), and *VANOC* or the applicant *owner*, as the case may be, shall retain those letters.

#### Article 1A.7.2.2. Application Form

2) In addition to the requirements of Sentence (1), for a *special event facility*, *VANOC*, in the case of a *venue*, and the applicant *owner*, in the case of a *site*, shall submit, with the application a:

a) 2010 Winter Games Special Event Facility Building Permit Application Confirmation in the form attached as Schedule C to this By-law, and

b) 2010 Winter Games Special Event Facility Confirmation of Commitment By Applicant Owner and By-law Consultant in the form attached as Schedule D to this By-law,

signed, as required therein, by *VANOC* or the applicant *owner*, as the case may be, and signed and professionally sealed by the appropriate *by-law consultant*.

3) Despite Clause (1)(c), for a *special event facility*, *VANOC*, in the case of a *venue*, and the applicant *owner*, in the case of a *site*, shall cause its *by-law consultant* to collect all plans and specifications referred to in Clause (1)(c), and *VANOC* or the applicant *owner*, as the case may be, shall retain those plans and specifications.

#### Article 1A.7.2.5. Fee Schedule

1) *Permit* fees shall be calculated in accordance with the Fee Schedule to this By-law,



except that the *permit* fee for a *special event facility* is to be \$100.00, and the fees for *construction* without a *permit* are as outlined in Article 1A.7.9.1.

#### Article 1A.8.2.1. Occupancy Permit Required

3) Despite Sentence (1), for a *special event facility*, *VANOC*, in the case of a *venue*, and the applicant *owner*, in the case of a *site*, instead of obtaining an *occupancy permit*, shall cause its *by-law consultant* to deliver to the *Chief Building Official* a:

a) 2010 Winter Games Special Event Facility Design and Inspection Checklist in the form attached as Schedule E to this By-law, and

b) 2010 Winter Games Special Event Facility Final Inspection and Occupancy Checklist in the form attached as Schedule F to this By-law,

signed and professionally sealed by the *by-law consultant*.

### SECTION 4 OFFENCES AND PENALTIES AND ENFORCEMENT

#### Offences under By-law

4.1 A person who:

- (a) violates any provision of this By-law, or does any act or thing which violates any provision of this By-law, or suffers or allows any other person to do any act or thing which violates any provision of this By-law;
- (b) neglects to do or refrains from doing anything required to be done by any provision of this By-law;
- (c) fails to comply, or suffers or allows any other person to fail to comply, with an order, direction, or notice given under any provision of this By-law; or
- (d) fails to comply with any term or condition of any relaxation authorized under this By-law;

is guilty of an offence against this By-law, and liable to the penalties imposed under this Section 4.

#### Notice or order regarding violation

4.2 An inspector or official of the city, or a by-law enforcement officer, may give notice or an order to any person ordering or directing that person to:

- (a) discontinue or refrain from proceeding with any work or doing anything that contravenes this By-law; or
- (b) carry out any work or do anything to bring a *special event facility* or an *existing building* to which this By-law applies into conformity with this By-law;

within the time specified in such notice.

#### **Service of notice or order**

- 4.3 An inspector or official of the city, or a by-law enforcement officer, may serve a notice or order under this By-law by one or more of the following methods:
- (a) in the case of a *venue*, by mailing it by registered post to *VANOC* or to *VANOC's by-law consultant*, or by handing it to an officer or director of *VANOC* or to such *by-law consultant*;
  - (b) in the case of a *site*, by mailing it by registered post to the *special event facility owner* or to the *special event facility's owner's by-law consultant*, or by handing it to an officer or director of the *special event facility owner* or to such *by-law consultant*; or
  - (c) by posting it at the *venue* or the *special event facility* at a *site*.

#### **Fine for offence**

4.4 Every person who commits an offence against this By-law is punishable on conviction by a fine of not less than \$500.00 and not more than \$2,000.00 for each offence.

#### **Fine for continuing offence**

4.5 Every person who commits an offence of a continuing nature against this By-law is liable to a fine not exceeding \$50.00 for each day such offence continues.



## SCHEDULE A

### DESCRIPTION OF VENUES

#### Competition Venues

General Motors Place	800 Griffiths Way	Lot 221, False Creek, Plan LMP12038 Lot 90, except Part in Plan 13045, Town of
Pacific Coliseum	100 North Renfrew Street	Hastings Suburban Lands, Plan 100 Parcel A, Block 805, District Lot 526, Group
Hillcrest Park Nat Bailey Stadium	4601 Ontario Street	1, New Westminster District, Plan LMP40757 Block 806, District Lot 526, Plan 19380

#### Training Venues

Killarney Ice Rink	6260 Killarney Street	Lot 17, except Part in Explanatory Plan 19208, Block A, District Lot 337, Plan 11401 Block 1, District Lots 195, 264A and 752, Plan 17318
Trout Lake Ice Rink	3350 Victoria Drive	

#### Non-Competition Venues

Westin Bayshore Hotel	1601 Bayshore Drive	Lot J of the Public Harbour of Burrard Inlet, Plan LMP12980
BC Place Stadium	777 Pacific Boulevard	Lot 153, False Creek, Plan 20421
Vancouver Convention and Exhibition Centre	999 Canada Place	Lot 13 of the Public Harbour of Burrard Inlet, Plan 20247
Vancouver Convention Centre Expansion Project	1055 Canada Place	Parcel 1 of the Public Harbour Burrard Inlet Plan BCP30843
Olympic Village Vancouver	Southeast False Creek	Lot 307, except Part on Plan BCP20721, False Creek, Plan BCP20720 Lot 312, False Creek, New Westminster District, Plan BCP24394 Lot 329, False Creek, Plan BCP24394 Lot 326, False Creek, Plan BCP28523 Lot 324, False Creek, Plan BCP27368 Lot 325, False Creek, Plan BCP28523 Lot 318, False Creek, New Westminster District, Plan BCP24394
	1661 Ontario Street	
	1633 Ontario Street	
	1 Athletes Way	
	1650 Manitoba Street	
	85 West 1st Avenue	

151 West 1st Avenue	Lot A, False Creek, New Westminster District, Plan BCP31615
150 Athletes Way	Lot 315, False Creek, New Westminster District, Plan BCP24394
151 Athletes Way	Lot 323, False Creek, Plan BCP27367
215 West 1st Avenue	Lot 327, False Creek, Plan BCP28525
215 West 1st Avenue	Lot 328, False Creek, Plan BCP28525
1850 Spyglass Place	Lot 308, except Part on Plan BCP29724, False Creek, Plan BCP20723
1890 Spyglass Place	Lot 306, except Part on Plan BCP20179, False Creek, Plan BCP20178

**Support Facilities**

Volunteer, Uniform  
and Accreditation  
Centre - Vancouver  
Transport Hub -  
Hastings Park

Hastings Park  
NE Corner of Hastings  
Park

Lot 90, except Part in Plan 13045, Town of  
Hastings Suburban Lands, Plan 100  
Lot 90, except Part in Plan 13045, Town of  
Hastings Suburban Lands, Plan 100  
Lot A of Lot 6, Town of Hastings Suburban  
Lands, Plan 17749  
Lot A of Lot 13, Town of Hastings Suburban  
Lands, Plan 17798  
Lot A of Lot 31, Town of Hastings Suburban  
Lands, Plan 17805  
Lot B of Lot 31, Town of Hastings Suburban  
Lands, Plan 17805  
Lot C of Lot 31, Town of Hastings Suburban  
Lands, Plan 17805  
Lot A of Lot 42, Town of Hastings Suburban  
Lands, Plan 17804  
Lot B of Lot 42, Town of Hastings Suburban  
Lands, Plan 17804  
Lot C of Lot 42, Town of Hastings Suburban  
Lands, Plan 17804  
Lot A of Lot 49, Town of Hastings Suburban  
Lands, Plan 17803

**Affiliated Facilities -  
Cultural Olympiad**

Orpheum Theatre  
Vancouver Playhouse  
Theatre  
Queen Elizabeth  
Theatre  
Vancouver Art Gallery  
Vancouver East  
Cultural Centre  
  
Vancouver Library -  
Main Branch

884 Granville Street  
601 Cambie Street  
649 Cambie Street  
750 Hornby Street  
1895 Venables Street  
  
350 West Georgia Street

Lots 20 to 28 inclusive, All of Block 63,  
District Lot 541, Plan 210  
  
Block 47, District Lot 541, Plan 21824  
  
Block 47, District Lot 541, Plan 21824  
Block 51, District Lot 541, Plan 14423  
Lot F, Block E, District Lot 183, Group 1,  
New Westminster District, Plan BCP19154  
Lot A, except Part in Air Space Plan LMP  
22595, Block 56, District lot 541, New  
Westminster District, Plan LMP19600

## SCHEDULE B

### DESCRIPTION OF SITES

Live City Vancouver @ Georgia Street	688 Cambie Street	PID: 009-860-991 Block 48 Plan 8970 District Lot 541 New Westminster
Live City Vancouver @ David Lam Park	1300 Pacific Boulevard	PID: 018-368-972 Lot 215 Plan LMP10733 District Lot FC New Westminster Ref Plan of Easement Lot 215 LMP27555 & LMP27556
Roundhouse Community Centre	181 Roundhouse Mews	PID: 018-368-883 Lot 207 False Creek Plan LMP10733
Coal Harbour Community Centre	480 Jervis Street	PID: 023-656-956 Lot 13 of the Public Harbour of Burrard Inlet, Plan LMP29891

SCHEDULE C

2010 WINTER GAMES FACILITY  
BUILDING PERMIT APPLICATION CONFIRMATION

Project Name: \_\_\_\_\_

Project Address: \_\_\_\_\_

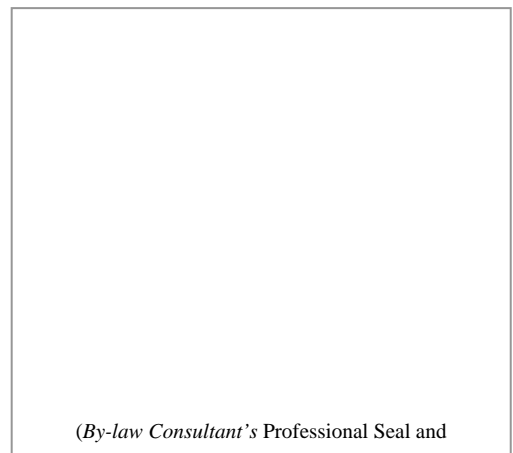
Building Permit No. \_\_\_\_\_

I, \_\_\_\_\_ hereby confirm that the documents and drawings that have been submitted for the above noted building permit substantially comply with the 2010 Winter Games Building By-law Relaxation By-law.

Signed by: \_\_\_\_\_  
*By-law Consultant*

Firm: \_\_\_\_\_

Date: \_\_\_\_\_  
(YY MM DD)





SCHEDULE D

2010 WINTER GAMES FACILITY  
CONFIRMATION OF COMMITMENT BY APPLICANT OWNER  
AND BY-LAW CONSULTANT

To: The Chief Building Official

DATE: \_\_\_\_\_  
(YY MM DD)

RE: Project Name: \_\_\_\_\_

Project Address: \_\_\_\_\_

Building Permit No. \_\_\_\_\_

The undersigned has authorized as the *By-law Consultant*, \_\_\_\_\_, to provide overall responsibility and authority for "by-law coordination" of design and "field reviews" required for this Project. It is understood that this *By-law Consultant* will take all such steps as regulated under the Provincial Statute for their profession and by the definitions of "by-law coordination" and "field reviews" hereinafter set forth, to ascertain that the design will substantially comply and construction of the Project will substantially conform in all material respects with the 2010 Winter Games Building By-law Relaxation By-law, and other applicable safety enactments. This *By-law Consultant* will ascertain that only qualified personnel are retained to carry out tests, inspect or carry out design work, detailing or "field reviews".

As used herein, "by-law coordination" shall mean the activities necessary to ascertain that the Registered Professionals of record for the various components of the project,

- have reasonably interpreted the applicable code requirements governing the design of such components,
- have incorporated such applicable code requirements in their designs,
- have interfaced the design of such by-law requirements so that they are compatible with the by-law requirements of other disciplines, and
- shall provide "field reviews" of by-law related aspects.

As used herein, "field reviews" shall mean such reviews of the work at the project site and at fabrication locations, where applicable, as the *Registered Professional* in his or her professional discretion considers to be necessary in order to ascertain that the work substantially conforms in all material respects to the plans and supporting documents prepared by the *Registered Professional* for which the building permit is issued. This includes keeping records of all site visits and any corrective action taken as a result thereof.

The *By-law Consultant* is mandated to review reports of other testing and inspection agencies and disciplines where necessary, comment on their acceptability, determine the corrective action to take if unacceptable, and maintain a detailed record of every such report and comments.

RE: Project Name: \_\_\_\_\_

Project Address: \_\_\_\_\_

Building Permit No. \_\_\_\_\_

**NOTE:** The *owner* will notify the City Building Inspector in writing prior to any intended termination of or by the *By-law Consultant*. 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 City.

**OWNER INFORMATION**

**OR**

**AGENT FOR OWNER OR CORPORATION INFORMATION**

\_\_\_\_\_  
Name (Print)

\_\_\_\_\_  
Name (Print)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Address (Print)

\_\_\_\_\_  
Title (Print)

\_\_\_\_\_  
City (Print)                      Postal Code

\_\_\_\_\_  
Address (Print)

Telephone \_\_\_\_\_

\_\_\_\_\_  
City (Print)                      Postal Code

Telephone \_\_\_\_\_

**BY-LAW CONSULTANT INFORMATION**

\_\_\_\_\_  
*By-law Consultant's Name (Print)*

\_\_\_\_\_  
*By-law Consultant's Signature*

\_\_\_\_\_  
Date

\_\_\_\_\_  
Address (Print)

\_\_\_\_\_

\_\_\_\_\_  
Postal Code

\_\_\_\_\_  
Telephone

\_\_\_\_\_  
FAX

(By-law Consultant's Professional Seal and Signature)

RE: Project Name: \_\_\_\_\_

Project Address: \_\_\_\_\_

Building Permit No. \_\_\_\_\_

If the *By-law Consultant* is a member of a firm, complete the following.

I am a member of the firm

\_\_\_\_\_  
Name of Firm (Print)

\_\_\_\_\_  
Address (Print)

\_\_\_\_\_  
City (Print)

\_\_\_\_\_  
Postal Code

and I sign this letter on behalf of myself and the firm.

**NOTE:** This letter must be signed by the *owner* or the *owner's* appointed agent and by the *By-law Consultant* who is a *registered professional*. 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.

**SCHEDULE E**

**2010 WINTER GAMES FACILITY  
DESIGN AND FIELD REVIEW CHECKLIST**

Note: Applicable Building Permit Documents listed in this checklist to be collected and retained by *VANOC*, in the case of *venues*; or the city, in the case of *sites*.

Project Address: \_\_\_\_\_ Building Permit No. \_\_\_\_\_

Name of Venue or Site: \_\_\_\_\_

<b>A. Outdoor Seating</b>	<b>Received and Retained(Date)</b>	<b>Not Applicable</b>
Schedules B1 & B2 - Structural		
Foundations		
Scaffolding Systems & Platforms		
Outdoor Seating Structural Systems		
Stairs & Ramps to Elevated Platforms		
Guards & Handrails		
Structural Concept Review Letter		
Schedules B1 & B2 - Electrical		
Shop Drawings - 5 sets		
Signed & sealed for structural		
Signed & sealed for electrical		

<b>B. Indoor Seating</b>	<b>Received and Retained(Date)</b>	<b>Not Applicable</b>
Schedules B1 & B2 - Structural		
Scaffolding Systems & Platforms		
Indoor Seating Structural Systems		
Stairs & Ramps to Elevated Platforms		
Guards & Handrails		
Structural Concept Review		
Schedules B1 & B2 - Electrical		
Shop Drawings - 5 sets		
Signed & sealed for structural		
Signed & sealed for electrical		

Project Address: \_\_\_\_\_ Building Permit No. \_\_\_\_\_

Name of Venue or Site: \_\_\_\_\_

C. Portable Modular Buildings	Received and Retained(Date)	Not Applicable
Schedules B1 & B2 - Structural		
Foundations		
Scaffolding Systems & Platforms		
Outdoor Seating Structural Systems		
Stairs & Ramps to Elevated Platforms		
Guards & Handrails		
Structural Concept Review Letter		
CSA Certificate		
Modular building		
Electrical		
Plumbing		
Shop Drawings - 5 sets		
Signed & sealed for structural		

D. Tents	Received and Retained(Date)	Not Applicable
Construction Drawings		
Schedules B1 & B2 - Structural		
Foundations		
Scaffolding Systems & Platforms		
Indoor Seating Structural Systems		
Stairs & Ramps to Elevated Platforms		
Guards & Handrails		
Structural Concept Review Letter		
Schedules B1 & B2 - Electrical		
Electrical Systems & Wiring		
Certificate for Flame Spread Rating		
CAN/ULC S109 or		
NFPA 701/California State Fire Marshall		
Shop Drawings - 5 sets		
Signed & sealed for structural		
Signed & sealed for electrical		

Project Address: \_\_\_\_\_ Building Permit No. \_\_\_\_\_

Name of Venue or Site: \_\_\_\_\_

E. Interior Fit-out within Existing Buildings	Received and Retained(Date)	Not Applicable
Schedules B1 & B2 (where applicable)		
Architectural		
Structural		
Mechanical		
Plumbing		
Fire Suppression Systems		
Electrical		
Commercial kitchen exhaust system		
Shop Drawings - 5 sets - signed & sealed		
Architectural		
Structural		
Mechanical		
Plumbing		
Fire Suppression Systems		
Electrical		
Commercial kitchen exhaust system		

I, \_\_\_\_\_ hereby confirm that I have received all the applicable documents and drawings as set forth above for the above noted building permit and that these documents and drawings are substantially comply with the 2010 Winter Games Building By-law Relaxation By-law.

Signed by: \_\_\_\_\_  
*By-law Consultant*

Firm: \_\_\_\_\_

Date: \_\_\_\_\_  
 (YY MM DD)



**SCHEDULE F**

**2010 WINTER GAMES FACILITY  
FINAL INSPECTION AND OCCUPANCY CHECKLIST**

Note: Applicable Building Permit Documents listed in this checklist to be collected and retained by *VANOC*, in the case of *venues*; or the city, in the case of *sites*.

Project Address: \_\_\_\_\_ Building Permit No. \_\_\_\_\_

Name of Venue or Site: \_\_\_\_\_

A. Outdoor Seating	Received and Retained(Date)	Not Applicable
Final Construction Drawings		
Schedules C-B - Structural		
Foundations		
Scaffolding Systems & Platforms		
Outdoor Seating Structural Systems		
Stairs & Ramps to Elevated Platforms		
Guards & Handrails		
Schedule C-B - Electrical		

B. Indoor Seating	Received and Retained(Date)	Not Applicable
Final Construction Drawings		
Schedules C-B - Structural		
Scaffolding Systems & Platforms		
Indoor Seating Structural Systems		
Stairs & Ramps to Elevated Platforms		
Guards & Handrails		
Schedule C-B - Electrical		

C. Portable Modular Buildings	Received and Retained(Date)	Not Applicable
Final Construction Drawings		
Schedules C-B - Structural		
Foundations		
Scaffolding Systems & Platforms		
Stairs & Ramps to Elevated Platforms		
Guards & Handrails		



Project Address: \_\_\_\_\_ Building Permit No. \_\_\_\_\_

Name of Venue or Site: \_\_\_\_\_

D. Tents	Received and Retained(Date)	Not Applicable
Final Construction Drawings		
Schedules C-B - Structural		
Foundations		
Scaffolding Systems & Platforms		
Indoor Seating Structural Systems		
Stairs & Ramps to Elevated Platforms		
Guards & Handrails		
Schedules C-B - Electrical		
Electrical Systems & Wiring		

E. Interior Fit-out within Existing Buildings	Received and Retained(Date)	Not Applicable
Final Construction Drawings		
Schedules C-B		
Architectural		
Structural		
Mechanical		
Plumbing		
Fire Suppression Systems		
Electrical		

I, \_\_\_\_\_ hereby confirm that I have received all the applicable documents and drawings as set forth above for the above noted building permit and that these documents and drawings are substantially comply with the 2010 Winter Games Building By-law Relaxation By-law.

Signed by: \_\_\_\_\_  
*By-law Consultant*

Firm: \_\_\_\_\_

Date: \_\_\_\_\_  
(YY MM DD)

