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## Plan Review Checklist – BASEMENT DEVELOPMENT

Home Owner/Builders: The following information is required when submitting an application for a residential building permit and before a building permit is issued. The plan review will not begin until all required information is provided.

APPLYING FOR A BUILDING PERMIT DOES NOT EQUATE TO PERMISSION TO START CONSTRUCTION – BUILDING PERMITS WILL BE ISSUED BY THE MUNICIPALITY ONCE ALL ZONING AND BUILDING APPROVALS ARE COMPLETE.

#### Required Information:

2 complete sets of basement development plans are required to be submitted along with the **Building Permit Application** for review and record. The plans shall include:

- Basement Layout Drawings with the following information:
  - Exterior and Interior wall locations / room sizes and overall dimensions
  - Stair locations and dimensions (cross sections)
  - Window sizes, locations, and type
  - o Door sizes, locations and swing direction
  - o HVAC unit/system location
- Basement Development Checklist properly filled out.

### **Basement Suite Development:**

- A basement suite is a type of *secondary suite* and has specific requirements, specifically to providing a sound and fire separation between the suite and main house.
- For development of a BASEMENT SUITE, complete the information outlined in this checklist and show specific details of how the requirements for a secondary suite are to be constructed; see "Guidelines for Secondary Suites".

Required On-Site Inspections: (inspection requirements may change depending on the project type and size)

- Pre-Drywall; first inspection is inspection of framing, insulation, and poly.
- Final: development is ready for occupancy with all health and life-safety systems operating.
- A drywall inspection may be required for a basement suite development to inspection fire and sound separation.
- NOTE: electrical permits and inspections are regulated through SaskPower and are the owner's responsibility, BuildTECH
  does not perform electrical inspections.

# **BASEMENT DEVELOPMENT CHECKLIST**

Provide the following information, and submit with permit application for a residential basement development.

(See reverse side for applicable code requirements)

Name:	
Address:	
Municipality:	

# **FLOOR PLAN:**

Along with the information to be provided with this form, a floor plan 'sketch' is required to be provided. The sketch can be hand-drawn and not-to-scale. The floor plan should include the following information:

- Overall dimensions of basement
- Room sizes
- Window sizes and type (bedroom egress)
- Location of smoke alarm(s) / carbon-monoxide alarm(s)
- Plumbing facilities
- Fireplace (note gas, wood burning, or other)

BASEMENT INSULATION DETAILS		RIM JOIST DETAILS: ( EXISTING)
CHECK ALL APPROPRIATE BOXES		☐ BATT INSUL W/ POLY
FILL IN ANY REQUIRED BLANKS	==:	☐ INSULATED RIM JOIST PANEL
	===	☐ SPRAY FOAM
FOUNDATION TYPE:  CONCRETE FULL HEIGHT  CONCRETE WALL W/ WOOD FRAME PONY WALL  INSULATED CONCRETE FORM (ICF)  PRESERVED WOOD (PWF)  OTHER:  PROTECTION FROM DAMPNESS:  PT BOTTOM PLATE  SEPARATED BY POLY / SILL GASKET		OTHER:  FOUNDATION INSULATION DETAILS: ( EXISTING)  2x, R(FIBERGLASS / MINERAL WOOL)  G-mil CGSB POLY AIR / VAPOUR BARRIER (WARM SIDE)  RIGID INSULATION APPLIED TO FOUNDATION WALLS  (MUST HAVE VAPOUR PERMEANCE GREATER THAN 170 ng / (Pa * s * m2) WHERE APPLIED ABOVE GRADE)  ICF INSULATED FORM  SPRAY FOAM OTHER:  FINISH DETAILS: ( EXISTING)  TORYWALL TOSB / PLYWOOD OTHER:  DAMPPROOFING REQUIRED ON CONCRETE TO GRADE HEIGHT ONLY, IF WOOD FRAMING MEMBERS IN CONTACT WITH CONCRETE
(□EXISTING) SOIL GAS BARRIER:  FLEXIBLE SEALANT INSTALLED AT  PERIMITER OF SLAB AND  PENETRATIONS		DAMPPROOFING DETAILS: (☐ EXISTING) ☐ EMULSIFIED ASPHALT / TAR ☐ 6 mil CGSB POLY (SLIT OPENINGS IF INSTALLED ABOVE GRADE ☐ OTHER:
OTHER CHECK ITEMS:		INTERIOR WALL FRAMING:
		□ 2x @inch o.c.
☐ Handrail provided at stairs to basement. ☐ Stairs protected by walls or guard rail.		
☐ Stairs protected by waits of guard rail. ☐ Bathroom exhausted by:		☐ PT bottom plate, or
☐ Fan (w/switch) vented directly	to outdoors	☐ Poly / sill gasket concrete separation
Connection to existing house ve system (w/ switch)		☐ Steel stud framing
		Prepared by <b>BuildTECH</b> Consulting & Inspections Inc.

BASEMENT DEVELOPMENT CHECKLIST, PAGE 2								
CODE ARTICLES								
NBCC	Description							
2010	NBCC 2010 code article.							
9.9.10.1.	<ul> <li>The bedroom windows must comply with the requirements of Section 9.9.10.1., including the following:</li> <li>Openable without the use of keys, tools, or special knowledge, and without the removal of sashes or hardware, and</li> <li>Have an unobstructed opening of not less than 0.35 m² (3.8 f²) with no dimension less than 380 mm (15 inches), and maintain the required opening during an emergency without the need for additional support.</li> </ul>							
9.8.7.1.	A handrail is required at interior stairs with more than 2 risers.							
9.8.8.1.	Flights of steps and landings shall be protected by a guard on each side that is not protected by a wall for the length where there is a difference in elevation of more than 600 mm (24") between the walking surface and the adjacent surface.							
9.10.19.1.	A hardwired smoke alarm is required on all floor levels. On floor levels where bedrooms are located, they shall be installed <i>in each bedroom</i> , plus one in the hallway or living space on that same level. All smoke alarms in the dwelling shall be interconnected.							
9.13.2.6.	Where wood framing members are in contact with the concrete foundation walls, the concrete wall is required to have damproofing installed starting at the basement floor and terminating at ground level.							
9.13.4.7.	The perimeter of the basement floor slab, and all penetrations shall be sealed with a flexible sealant to prevent soil gas leakage.							
9.23.2.3.	The wall bottom plates are required to be pressure-treated, or separated from the concrete with .05 mm polyethylene sheet.							
9.25.2.1.	Exterior basement walls shall be insulated sufficiently enough to prevent moisture condensation on their room side during the winter.							
9.25.3.1.	Insulated walls shall be constructed with an air / vapour barrier system to provide a continuous barrier to air and vapour leakage. Polyethylene sheet air / vapour barrier shall be 6 mil CGSB polyethylene sheet made continuous at all joints and penetrations.							
9.32.3.7.	The bathroom requires an exhaust fan that is exhausted directly to the outdoors, or be exhausted by the house ventilation system.							
9.32.3.9.	A carbon monoxide detector is required in each bedroom, or within 5m of each bedroom door. A properly located combination smoke / CO alarm will satisfy this requirement. Plug-in style carbon monoxide detectors do not meet this requirement.							

# BuildTECH Consulting & Inspections Inc. Building Code Enforcement, Inspection & Consulting Services

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## Residential Ventilation System Design & Install Certification

		<u> </u>								
Project A	ddress:		Mun	icipality:						
	Owner:									
	Ventilation HRAI #: Contractor: (If Applicable)									
A Building Permit has been issued for the installation of a residential ventilation system for this project under the requirements of the <i>Uniform Building Accessibility Standards Act and Regulations</i> , which includes the National Building Code of Canada, 2010.										
Part 1 - Ventilation System Design (Submit Prior to Installation)  Required to be submitted prior to Framing Inspection										
The ventila	tion syste	em will be designed and constructed in accorda	ance with:							
	Section 9.32, National Building Code of Canada, 2010.  CAN / CSA – F326 (HRAI certification number must be provided above)									
The ventilat	ion syste	em will be installed:								
	In conjur	action with a Forced Air Heating System.								
	Not in co	njunction with a Forced Air Heating System; fr	esh air supp	ly to bedr	ooms and	d other spaces as per 9.32.3.5.				
The ventilat	ion syste	m will be comprised of (check ALL that apply):								
		nation of a Heat Recovery Ventilator and Suppl 3.12. (2010 NBCC), or in conformance with the								
		e Principal Ventilation Fan and Supplemental I r in conformance with the requirements of CAI			ribed in A	Articles 9.32.3.3. to 9.32.3.7. (2010				
	leating a	ppliances (furnaces, water heaters, fireplaces,	etc) <i>are</i> dir	ect vent o	r mechan	ically vented.				
Heating appliances (furnaces, water heaters, fireplaces, etc) <i>are not</i> direct vent or mechanically vented, and Protection Against Depressurization will be achieved:										
	In accordance with Article 9.32.3.8 (NBCC 2010)									
Through the test method described in CAN/CGSB-51.71, "The Spillage Test: Method to Determine the Potential for Pressure-Induced Spillage from Vented, Fuel-Fired, Space Heating Appliances, Water Heaters, and Fireplaces.										
***************************************		Part 2 – Install Certification	(Submit A							
The installer	's signati	are is declaration that the ventilation system in	nstallation n	<del>-</del>	· · · · · · · · · · · · · · · · · · ·	e submitted prior to <i>Final Inspection</i>				
The installer's signature is declaration that the ventilation system installation meets the submitted system design, and all applicable requirements of The National Building Code of Canada, 2010. The contractor is responsible for balancing the system to the design air										
flows, as well as balancing the Heat Recovery Ventilator (if applicable).										
Signature Date										
Duint #1	n 200 =	-								
Print Name Company										