



Consumers have rights and responsibilities under the **Consumer Protection Act (CPA)**, such as the final price of a home renovation cannot be more than 10% over the original estimate included in the contract.

# **5** Precautions to Take Before Signing a Contract

#### **ESTIMATES**

- **1** Get written estimates for the work. Generally, three estimates will provide enough information but get as many as you need to feel comfortable making a final decision.
- 2 Ensure estimates contain everything you ask for.

#### CONTRACTS

- 3 Ensure the contract covers all discussed terms. A "hand shake" promise may not be enforceable if it's not included in the written contract.
- Before signing the contract, ensure you fully understand what you are signing and what is included.

# DON'T GET SCAMMED Avoid 'tax-free' deals. This can be a significant because of the second because of the se

Avoid 'tax-free' deals. This can be a sign that a business is avoiding important customer and worker protection responsibilities. A 'tax-free' deal without receipts provides no legal recourse over goods and services purchased.



# Visit Ontario.ca/HomeRenos to find out more.

Call Consumer Protection Ontario at **1-800-889-9768** if you have a complaint about a contractor not fulfilling a written contract. **Ontario.ca/ConsumerProtection** 

# What Else Should I Consider?

#### **ASK ABOUT THEIR BUSINESS**

- List of references
- Contract includes scope of work and terms of payment
- Do they provide warranties
- Are they registered with WSIB
- Work related Insurance coverage

#### **ASK ABOUT HEALTH AND SAFETY**

- Does the contract cover assurance they will comply with legislation from MOL?
- Has the contractor trained workers with the hazards associated with the work (i.e. working over 3m)

#### PROTECT YOURSELF

 Ensure the contractor gives you a written contract before work begins that includes the specific work to be performed, terms of payment and warranties

For additional information from the Ministry of Labour visit **Ontario.ca/beforeyoubuyaroof**. General inquiries about workplace health and safety or reporting health and safety incident call **1-877-202-0008**.



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Safe At Work Ontario

435 James St. South, Suite 222, Thunder Bay ON 807-475-1691 <a href="https://hsthunderbaydistrict@ontario.ca">hsthunderbaydistrict@ontario.ca</a>

## **Health and Safety Law for Construction Projects**

#### Role on a Construction Project

The Occupational Health and Safety Act defines a **constructor** (aka general contractor) as a person who undertakes a construction project for an **owner**. In some cases, the **owner** of the project is the **constructor** as well. When an **owner** undertakes all or part of a project, either by himself or herself, or by contracting work out to more than one **contractor or employer**, the **owner** becomes the **constructor**.

If the **owner** hires only one **contractor** to do all the work, then that contractor may be the **constructor**, depending on the contractual arrangements with the **owner**. The contractor may, in turn, subcontract work to other people, but he or she remains the **constructor** for the project, as long as he or she is the only party the owner had contracted to do the work.

Under the Occupational Health and Safety Act, a "constructor" (aka general contractor) is a party (a person or company) who oversees the construction of a project and who is ultimately responsible for the health and safety of all workers.

The **constructor** must ensure that all the **employers** (aka subcontractors) and **workers** on the project comply with the Act and Regulations. For further details on the constructor see our Constructor Guideline <a href="https://www.labour.gov.on.ca/english/hs/pubs/constructor/index.php">https://www.labour.gov.on.ca/english/hs/pubs/constructor/index.php</a>

#### What are the key duties of a constructor?

Constructors have the following key responsibilities, on the projects that they undertake:

- ensure that the measures and procedures prescribed by the Occupational Health and Safety Act and its regulations are carried out on the project,
- ensure that every employer and every worker performing work on the project complies with the Occupational Health and Safety Act and its regulations,
- ensure that the health and safety of workers on the project is protected,
- ensure that a health and safety representative or a joint health and safety committee is selected or established, when and as required,
- · ensure that the Ministry of Labour is notified of a project, when and as required,
- ensure that the Ministry of Labour is notified of an accident or occurrence, when and as required,
- ensure that every contractor or subcontractor receives a list of all designated substances present at the
  project before the prospective contractor or subcontractor enters into a binding contract for the
  supply of work on the project,
- ensure that written emergency procedures are established for the project and posted, and
- appoint a supervisor for every project at which five or more workers will work at the same time.

#### **Notice of Project**

Constructors are required to notify the Ministry of Labour before construction begins of any project meeting any of the requirements listed in the Construction Regulations. Not filing a notice when required is a chargeable offence. This form has nothing to do with the Building permit or Building Department. The purpose of the notice is to identify to everyone who the Constructor is, in turn identifying who is in charge of the project and responsible to ensure that all health and safety regulations under The Occupational Health and Safety Act are being followed on the job site. A signed copy of the completed form must be posted in a conspicuous place at the project or be available at the project for review by an Inspector.

#### Requirements to file a Notice with the Ministry of Labour include:

- all renovations and construction where the materials & labour combined are \$50,000 or more, even for personal residences
- erection or structural alteration of a building more than two storeys or more than 7.5 meters (25 feet)
   high
- demolition of a building four meters (13 feet) high and higher with a floor area of 30 sq meters (300 sq feet) and larger
- construction of an ice road for vehicles, machinery or equipment over frozen water, slush or wetlands

The form is FREE and can be found and filed at https://www.labour.gov.on.ca/english/hs/forms/index.php



Safe At Work Ontario
Enforcement > Compliance > Partnership >

435 James St. South, Suite 222, Thunder Bay ON 807-475-1691 <a href="https://hsthunderbaydistrict@ontario.ca">hsthunderbaydistrict@ontario.ca</a>

#### **Designated substances**

Before beginning any work, the **owner** must first determine if there are any designated substances (asbestos, lead, etc.) present at the project site. If there are, the **owner** must prepare a complete list, to complete the list testing may be required for positive identification. This list must be included as part of any tendering information on a project.

Before the **owner** can enter into a binding contract with a **constructor** to work on a site where there are designated substances, the owner must ensure that the constructor has a copy of the list.

An **owner** is liable to a **constructor** and **every contractor and subcontractor** who suffers any loss or damages as a result of the presence of designated substances that were not on the list.

If designated substances are present they need to be handled and abated by qualified workers and disposed of in a proper manner in a designated facility that accepts that type of substance.

#### Working at heights

The regulatory requirements regarding fall protection on a construction project are set out in Sections 26 to 26.9 of the Regulation for Construction Projects (O. Reg. 213/91).

Some control methods include guardrail systems which must be used to prevent falls, unless it is not reasonably possible to install one. Constructors and employers must install guardrails (or take other protective measures), if workers are at risk of falling:

- more than three metres
- more than 1.2 metres if the work area is used as a path for a wheelbarrow or similar equipment
- into operating machinery
- into water or other liquids
- into or onto a hazardous substance or object
- · through an opening on a work surface

A guardrail system must also be used if a worker is exposed to a fall of 2.4 metres or more and has access to the open side of a:

- floor, including a mezzanine or balcony floor
- bridge surface
- roof while formwork is in place
- scaffold platform or other work platform, runway or ramp

Employers must ensure that workers on construction projects who use any of the following methods of fall protection: travel restraint systems, fall restricting systems, fall arrest systems, safety nets and work belts or safety belts, have valid Ontario Working at Heights training.

It is in a homeowner's best interest to make sure workers at their home are safe. This can be as simple as asking contractors if their workers have been trained, and how they plan to keep workers safe on site, before signing a contract. In the case of projects where workers will be at heights, such as repairing a roof, homeowners should ask contractors if their workers have been trained to do the work safely.

Depending on the circumstances, homeowners may be considered constructors and subject to obligations under Occupational Health and Safety Act if they hire multiple contractors to work at the same time.

Health and Safety - Ministry of Labour <a href="https://www.ontario.ca/page/ministry-labour">https://www.ontario.ca/page/ministry-labour</a>

Ministry of Labour Health & Safety Contact Centre 1-877-202-0008



# Residential Building Permit Application Checklist

Customer Name:	Telephone No.	Project A	Address or Legal Description		
oustomer Name.	releptione No.	r iojeci A	duress of Legal Description		
IN ORDER TO COMPLETE A REVIEW, THIS FORM AND THE FOLLOWING INFORMATION MUST BE SUBMITTED. PLEASE BE ADVISED THAT UPON ACCEPTANCE, AND DURING THE PERMIT REVIEW PROCESS, THE APPLICANT MAY BE REQUIRED TO PRODUCE ADDITIONAL INFORMATION TO INSURE COMPLIANCE WITH APPLICABLE PROVINCIAL AND MUNICIPAL REGULATIONS.					
	plication Form, including Schedule 1* v various project designers and must accor				
Proof of Ownership (provide eit	her a Property Deed, or an Offer	to Purchase	e (Deed to follow))		
Authorization from Owner (if a)	oplicant other than owner).				
Three (3) sets of working draw	ings, including:				
☐ Site Plan ☐ Site Drainag	ie Plan		Floor Plan(s) Roof Plan		
	Plan - a P.Eng is required if using a slab or other non-standard	Ē	Building Section(s) Elevations		
_	construction		Elevations		
Heating Duc	et Layout ( Two Storey Dwellings Only)		Hydronic Heating Information (Infloor/Underfloor/Geothermal)		
Roof Truss Layout and Certific	ate		<ul> <li>Heat Loss Calculations</li> <li>Loop/Piping Layouts</li> <li>Boiler Information</li> <li>Baseboard Radiation</li> </ul>		
Floor Truss Layout and Certifi	cate		Air Handler / Coil locations	را ـــ	
Engineered Beam Details (i.e. I	Parallam, Micro-lam)		Heat Exchanger     Type of Hot Water Tar	ΠK	
Engineered Guard Rail Design	Required				
Fireplace/Woodstove/Chimney	Details (provide manufacturer's install	ation instru	uctions)		
	(HRV and dedicated systems will requi		·		
Energy Efficiency Design Revi			<i>5</i> ,		
	on Sheet, including Two (2) sets of iso	metric Plum	nbing Drawings		
Permit Fee \$			9		
			☐ Yes ☐ No		
Proof of adequate water supply     applicable if you are on a week	•		☐ Yes ☐ No ☐ Enclosed ☐ N/A		
2. Septic Field Approval from Min - applicable if you require a pr	-		☐ Yes ☐ No ☐ Enclosed ☐ N/A		
3. Ministry of Transportation App - applicable if within 395m of I - applicable within 46 metres i - other MTO approvals may a	nighway intersections from King's highway		Yes No No Enclosed N/A		
4. Lakehead Regional Conservati  - is your property in a flood plate in the 'EF		rlay)?	☐ Yes ☐ No ☐ Enclosed ☐ N/A		
5. Local Heritage Advisory Comm - are you in a designated herit - is it a designated heritage but	tage area? <b>Or</b>		☐ Yes ☐ No ☐ Enclosed ☐ N/A		
<ul> <li>Noise Exposure Forecast Repo</li> <li>- Transport Canada – See Air</li> <li>- Close proximity to Airport ma</li> </ul>	port Authority		☐ Yes ☐ No ☐ Enclosed ☐ N/A		
7. Demolition Permit Provided?			Yes No Enclosed N/A		
• • •	submitted to Engineering for review and nit is required to be submitted for new a Iding permit can be issued		Yes No No N/A		
Applicable Law Checklist Attact     Applicable Law Checklist to be			☐ Yes ☐ No		
	By completing this form and signing below		provided affects the processing time involved in (and the stand it is your responsibility to provide this information		
As per OBC Div.C, sentence 1.3.1.3, the sub shall be issue or refused.	mission of an incomplete permit application	n package wi	ill void the prescribed time period within which a pern	nit	
CUSTOMER'S SIGNATURE:					

DATE: \_\_\_\_\_

APPLICATION RECEIVED / RETURNED BY: \_\_\_\_\_\_



#### **Applicable Law Checklist**

This form is used to confirm approvals from other agencies that are required before a building permit can be issued.

Application No:	Address:	Date:
1		

The Building Code Act prohibits the issuance of a building permit if the proposed construction or demolition will contravene an applicable law as defined by the building code. The questions below will help you to determine if an applicable law applies to your project. No timeframe for building permit review can be established until all required applicable law approvals are completed and the approval documents are submitted to the Building Services Department.

If the answer is YES to any question, the relevant approval documents must be submitted with this permit application. Where any required approval has not been obtained, the agencies listed on the back of this form must be contacted to obtain approval and the declaration on the bottom of this form must state accordingly.

			Office
Zoning By-Laws • Planning Services	Yes	No	Use Only
Is/was relief required to permit a minor zoning variance in your proposal?			
Is/was rezoning required to permit the proposed building or land use? Is a land division or subdivision required and not yet fully completed?	$\vdash$	$\vdash$	
Are municipal services required but not yet completed or available?			
Planning Approval • Planning Services			•
Does this development require site plan approval from the Planning Division?			
Heritage ● Planning Services			1
Are you demolishing a building that is listed on the Township's heritage			
inventory? Is the building designated or in the process of being designated? Is the property located in a heritage district or study area?			
Construction & Fill Permits • Lakehead Region Conservation Authority	_	<u> </u>	
Does the property abut a ravine, watercourse, wetland or shoreline?			
Building & Land Use Permits ● Ontario Ministry of Transportation			
Is the property within 45m of a highway or 180m from any highway intersection?			
Is the property within 395m of a controlled highway intersection? Is this a major traffic generating project located within 800m of a highway?			
Environmental Approvals • Ontario Ministry of Environment			
Is a Record of Site Condition required to be filed because of a change to more sensitive land use? Is the property a former waste disposal site?			
Is this project a major industrial, commercial or government project?			
Is this a renewable energy project?			
Electrical Conductor Clearances • Electrical Safety Authority			
Are there any overhead electrical conductor wires within 5.5m of the proposed building?			
Clean Water Act ● Lakehead Region Conservation Authority			
Does a water source protection plan restrict the land use you are proposing?			
Agriculture & Farms ● Ontario Ministry of Agriculture and Food			1
Is this a farm building that will house animals or manure? Is this a milk processing plant?			
Child Care Centres • Ontario Ministry of Education			
Is a daycare proposed in any part of the building?			
Seniors Centres • Ontario Ministry of Community and Social Services			
Is this a seniors project where Ontario Government funding is being sought?			
Cemeteries • Ontario Ministry of Consumer Services			
Is work being carried out within a Cemetery?			
Public Lands Act • Ontario Ministry of Natural Resources			
Is work being carried out on public land?			
Education Act • Ontario Ministry of Education			
Is this project being carried out on the property of an educational facility? If so, is any or all buildings on the property being fully or partially demolished?			
Fortification of Land • Licensing and Enforcement			
Does this project include fortification of land, or any structure on the property?			
Easements • Township of Gillies and Other Utilities	_		
Does your property contain easements used by or under the control of local utilities? (If unsure, contact the Land Registry Office at (807)343-7436 to confirm)			

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I have considered the list of applicable laws in the Ontario Building Code and as described above, and do hereby declare that:

- None of these applicable law approvals apply to this project.
  - Applicable laws checked with a 'yes' apply to this project, and approval documents are submitted with this application. Applicable laws check with a 'yes' apply to this project, however all approval documents have not yet been obtained. 2. 3.

The information provided on this form is true to the best of my knowledge. I have authority to act on behalf of the owner, corporation or partnership with respect to this application (if applicable). Date:

Name: Signature:

#### **Applicable Laws & Building Permits**

Approvals from other agencies are required in many instances before a building permit can be processed and issued. These approvals are **not** administered by the Building Services Division. The fastest way to obtain a building permit is to ensure all of these other approvals are completed (or do not apply) before applying for a building permit. The Building Services Division is required by law to prioritize applications that are fully complete in terms of applicable law approvals and document submissions. Building permit documents must be consistent with applicable law approvals.

#### Zoning, Planning & Heritage

Contact: Township of Gillies, Planning Services at 807-475-3185

Planning Act, s. 34 or 38, 46, 47

Zoning by-laws restrict such things as land use, lot size, building size and setbacks. If your project does not comply with any part of the zoning by-law, a minor variance or rezoning must be obtained before any building permit can be issued. Zoning by-laws also restrict the issuance of permits until any associated land division, subdivision or municipal servicing is complete.

Planning Act, s. 41

Site Plan Control Approval is required for some new buildings and additions other than houses and accessory structures. The site plan agreement must be registered before site plans will be approved.

Ontario Heritage Act, s. 27(3), 30(2), 33, 34, 34.5, 34.7(2), 40.1 &42

Thunder Bay has designated certain heritage buildings and maintains a listing of buildings of heritage interest. Specific areas have also been established as Heritage Conservation Districts. Planning and/or City Council approval for demolition, alteration and construction is required if your property is affected. Contact City Clerk's Office (625-2897) for more information.

#### Conservation Authority Permits

Contact: Lakehead Region Conservation Authority at 807-344-5857

Conservation Authorities Act, s.28(1)(c)

Development within certain conservation regulated area requires a construction and fill permit from the conservation authority before any building permit can be issued. LRCA will confirm if your property falls within their jurisdiction.

#### Highway Corridor Building & Land Use Permits

Contact: Ministry of Transportation at 807-473-2000 or 1-800-465-5034

Public Transportation and Highway Improvement Act, s.34 or 38

Ministry authorization is required for construction of all buildings within certain distances of a highway or intersection. The requirement for Ministry authorization extends to 800m from a highway where development will generate major traffic, such as a shopping centre.

#### **Environmental Approvals**

Contact: Ministry of Environment and Climate Change at 807-475-1205 or 1-800-875-7772

For **Record of Site Condition** inquiries please contact 1-800-461-6290 or 1-416-314-8001

Environmental Protection Act, s.46,47,168.3,138.6(1)

Ministry of Environment approvals are required when any of the following apply: (A) A property of Industrial, Community or Commercial use is changed to more sensitive Residential, Institutional, Agricultural, or Parkland use; (B) for major government, industrial and commercial projects where defined by regulation; (C) property was formerly used for landfill or waste disposal; and (D) renewable energy projects.

#### **Source Water Protection**

Contact: Lakehead Region Conservation Authority at 807-344-5857

Clean Water Act, s.59

Special land use restrictions may apply if a water source protection plan is in effect in the area where the building is located. Uses affected by these restrictions require the approval of the designated risk management official.

#### Agriculture & Farms

Contact: Ministry of Agriculture, Food and Rural Affairs at 1-877-424-1300

Nutrient Management Act 2002, s.11.1, Milk Act s.14

Buildings or structures that house animals or store manure may trigger a requirement for a nutrient management strategy approved by the Ministry. The Ministry must determine that a milk processing plant is necessary and authorize it before building permit can be issued.

#### Child Care Centres

Contact: Ministry of Education at 807-474-2890 or 1-800-465-5020

Day Nurseries Act, s.5 of reg 262

Ministry plan approval is required if a new building is proposed to be used as a day nursery, an existing building is proposed to be used, altered or renovated for a day nursery, or if an existing day nursery is altered or renovated.

#### Seniors Centres

Contact: Ontario Ministry of Community and Social Services 1-888-789-4199

Elderly Persons Centres Act, s. 6 of reg 314

Reports must be submitted to the Minister and approval obtained for all seniors centres to which government funding applies.

#### Cemeteries

Contact: Cemeteries Regulation Unit 1-800-889-9768

Cemeteries Act, S. 2 of R.S.O 1990, Chapter C.4

Approval is required for the establishment, alteration of, or increase of capacity of the cemetery or crematorium.

#### **Public Land**

Contact: Ontario Ministry of Natural Resources

Public Lands Act, S.2 Ontario Regulation 453/96

It is illegal to construct or place a building, trail, water crossing or road, fill shore lands, remove aquatic vegetation, or construct or place a structure or combinations of structures on public land without authority and a proper work permit.

#### **Educational Facilities**

Contact: Ontario Ministry of Education

Education Act, S. 194

Approval from the Minister is required for a school board to sell, lease or otherwise dispose of a school site, part of a school site or property or demolish a building on a school site.

#### Fortification of Land

Contact: City of Thunder Bay By-Law Enforcement Division 1-807-625-2710

Municipal Act, 2001 s.133(4)

Excessive fortification of land (barriers to prevent or hinder access to land or buildings) or excessive protective elements (ie. video surveillance or electrical fencing) applied to the land is prohibited.



# Application for a Permit to Construct or Demolish This form is authorized under subsection 8(1.1) of the Building Code Act.

		For use b	y Principa	I Authority				
Application number:			Permit r	number (if differ	ent):			
Date received:			Roll nur	mber:				
Application submitted to:	(Name of municipalit	ty, upper-tier n	nunicipality, bo	pard of health or o	conservatio	n authority)		
A. Project information								
Building number, street nan	ne					Unit number		Lot/con.
Municipality		Postal code	Э	Plan number/	other desc	cription		
Project value est. \$				Area of work	(m <sup>2</sup> )			
B. Purpose of applicat	tion							
☐ New construction	<ul><li>Addition to existing but</li></ul>	uilding		ation/repair		Demolition		Conditional Permit
Proposed use of building		Cı	urrent use of building					
Description of proposed wo								
C. Applicant	Applicant is:		or [	Authorized agent of owner     Corporation or partnership				
Last name		First name		Corporation of	or partners	•		
Street address						Unit number		Lot/con.
Municipality		Postal code	Э	Province E-mail				
Telephone number ( )		Fax ( )				Cell number		
D. Owner (if different f	rom applicant)							
Last name First nam				Corporation or partner		nership		
Street address				<u>I</u>		Unit number		Lot/con.
Municipality		Postal code	Э	Province		E-mail		
Telephone number ( )		Fax ( )				Cell number		

E. Builder (optional)						
Last name	First name	Corporation or partnersh	hip (if applicable)			
Street address			Unit number	Lot/con.		
Municipality	Postal code	Province	E-mail			
Walliopality	1 ootal oodo	1 10411100	L man			
Telephone number	Fax		Cell number			
( )	( )		( )			
F. Tarion Warranty Corporation (Ontario New Home Warranty Program)						
i. Is proposed construction for a new home as defined in the <i>Ontario New Home Warranties</i> — Yes  — Plan Act? If no, go to section G.					No	
ii. Is registration required under the Ontario	o New Home Warranties	s Plan Act?		Yes 📮	No	
iii. If yes to (ii) provide registration number(	(s):					
G. Required Schedules						
i) Attach Schedule 1 for each individual who revi	iews and takes responsi	bility for design activities.				
ii) Attach Schedule 2 where application is to cons	struct on-site, install or re	epair a sewage system.				
H. Completeness and compliance with a	applicable law					
This application meets all the requirements of clauses 1.3.1.3 (5) (a) to (d) of Division C of the Building Code (the application is made in the correct form and by the owner or authorized agent, all applicable fields have been completed on the application and required schedules, and all required schedules are submitted).					No	
Payment has been made of all fees that are regulation made under clause 7(1)(c) of the <i>B</i> is made.				Yes 🗖	No	
ii) This application is accompanied by the plans a resolution or regulation made under clause 7(			-law,	Yes 🗖	No	
iii) This application is accompanied by the informal law, resolution or regulation made under claus the chief building official to determine whether contravene any applicable law.	se 7(1)(b) of the <i>Building</i>	g Code Act, 1992 which en	nable	Yes 🗖	No	
iv) The proposed building, construction or demoli	tion will not contravene	any applicable law.		Yes 🗖	No	
I. Declaration of applicant						
200iaiation of approvant						
I(print name)			d	eclare that:		
(print name)						
<ol> <li>The information contained in this application documentation is true to the best of my</li> <li>If the owner is a corporation or partnership.</li> </ol>	knowledge.			ther attached		
Date	Signature of	applicant				

Personal information contained in this form and schedules is collected under the authority of subsection 8(1.1) of the *Building Code Act, 1992*, and will be used in the administration and enforcement of the *Building Code Act, 1992*. Questions about the collection of personal information may be addressed to: a) the Chief Building Official of the municipality or upper-tier municipality to which this application is being made, or, b) the inspector having the powers and duties of a chief building official in relation to sewage systems or plumbing for an upper-tier municipality, board of health or conservation authority to whom this application is made, or, c) Director, Building and Development Branch, Ministry of Municipal Affairs and Housing 777 Bay St., 2nd Floor. Toronto, M5G 2E5 (416) 585-6666.

#### **Schedule 1: Designer Information**

Use one form for each individual who reviews and takes responsibility for design activities with respect to the project.

A. Project Information				
Building number, street name			Unit no.	Lot/con.
Municipality	Postal code	Plan number/ other descrip	tion	
B. Individual who reviews and takes	responsibili	ty for design activities		
Name	•	Firm		
Street address		,	Unit no.	Lot/con.
Municipality	Postal code	Province	E-mail	
Telephone number ( )	Fax number ( )		Cell number	
C. Design activities undertaken by i Division C]	ndividual ide	ntified in Section B. [Bu	ilding Code Table	3.5.2.1. of
☐ House ☐ Small Buildings ☐ Large Buildings ☐ Complex Buildings Description of designer's work		g Services on, Lighting and Power	□ Building Stru □ Plumbing − I □ Plumbing − I □ On-site Sew	House
D. Declaration of Designer				
1		de	clare that (choose o	ne as appropriate):
(print name	e)		(1	
I review and take responsibility C, of the Building Code. I am of Individual BCIN:  Firm BCIN:	qualified, and the	e firm is registered, in the app	oropriate classes/cat	egories.
☐ I review and take responsibility under subsection 3.2.5.of Divi	sion C, of the Bu	uilding Code.	. •	n other designer
☐ The design work is exempt from	m the registration	on and qualification requireme	ents of the Building (	
I certify that:		and the characters of the char		
<ol> <li>The information contained in this s</li> <li>I have submitted this application w</li> </ol>		-		
Date		Signature of Designer		

#### NOTE:

- 1. For the purposes of this form, "individual" means the "person" referred to in Clause 3.2.4.7(1) d).of Division C, Article 3.2.5.1. of Division C, and all other persons who are exempt from qualification under Subsections 3.2.4. and 3.2.5. of Division C.
- 2. Schedule 1 is not required to be completed by a holder of a license, temporary license, or a certificate of authorization, issued by the Ontario Association of Architects. Schedule 1 is also not required to be completed by a holder of a license to practise, a limited license to practise, or a certificate of authorization, issued by the Association of Professional Engineers of Ontario.

## **Schedule 2: Sewage System Installer Information**

A. Project Information						
Building number, street name			Unit number	Lot/con.		
Municipality	Postal code	Plan number/ other descr	ription			
B. Sewage system installer						
Is the installer of the sewage system engagemptying sewage systems, in accordance  Yes (Continue to Section C)		C? ☐ Installer u	ervicing, cleaning or nknown at time of n (Continue to Section E)			
C. Registered installer information	n (where answ	ver to B is "Yes")				
Name	-	-	BCIN			
Street address			Unit number	Lot/con.		
Municipality	Postal code Province		E-mail			
Telephone number	Fax ( )		Cell number			
D. Qualified supervisor information	on (where ans	wer to section B is "Yes	")			
Name of qualified supervisor(s)		Building Code Identification	Number (BCIN)			
E. Declaration of Applicant:						
I(print name)				declare that:		
I am the applicant for the permit submit a new Schedule 2 prior to			er is unknown at time	e of application, I shall		
<u>OR</u>						
I am the holder of the permit to o known.	construct the sew	age system, and am submitt	ing a new Schedule 2	2, now that the installer is		
I certify that:						
The information contained in this	s schedule is true	to the best of my knowledge	<b>)</b> .			
2. If the owner is a corporation or p	artnership, I have	e the authority to bind the co	rporation or partnersl	hip.		
Date		Signature of applicant				



### Application for a Permit to Construct Detached Garage / Shed

For use by Principal Authority						
Permit number: Roll number:						
A. Project Location						
Building number, street name Legal Description						
	licant is:		horized agent			
Last name	First name	Corpora	tion or partners	hip		
Street address		L		Unit number	Lot/con.	
Municipality	Postal code	Province	Э	E-mail		
Telephone number	Fax ( )	,		Cell number		
C. Building Information	D	. Construction	Information			
☐ Gable Roof	☐ Hip Roof W	Valls:	2"x	" @	" Centres	
	E	ngineered Truss	es:	@	" Centres	
	R	afters:	2"x	" @	" Centres	
		oists:	2"x	" @	" Centres	
		oof Sheeting:	"	Plywood	" O.S.B.	
			☐ Shingles	□ Roll Ro		
MC III		Vall Sheeting:		Plywood " @	О.З.В.	
	· ·	Vall Strapping: exterior Finish:	2"x	" @	" Centres	
Height: Roc  E. Foundation Information		xterior Finish:	F.	Lintel Size	9	
M	140 x 140 mm (6 x 6) or 140 x 190 mm (6 x 8)	4-10M Reinford	ing bur cont.	verhead Door		
	or 140 x 190 mm (6 x 8) preservative treated lumber sill	10M Stirrups A	WOODS THE DESCRIPTION	Engineered I		
Wood mud sill		6"x6"x6/6 Weld			able End Truss	
7				( )	) – 2" x"	
12 mm (1/2") corrosion resistant rods 2400 mm (8") intervals  Concrete ground anchor "Dead man" (buried	- 0	- Man Doors:				
200 mm (8") square				(	) – 2" x"	
be 1.2 m (4') vertical or 1 m (3'4") on angle		'-0" Comparted	\A\ \A\ \A\ \A\	indows:		
Figure 16.5 Small Garage Support and Anchorage		Compacted	Granolar (III		\ O" \ "	
☐ Pressured Treated Mud Sill	☐ Reinfor	ced Concrete Slab-		( ) ( )		
Garage / Shed Plan	Recommended Scale – On					
Garage / Gried Fian	Recommended Scale - On	le Square = 2 -0 - Silo	JW DOOI & WIIIGOV	V Sizes and Local	10115	
			<del>                                      </del>			
			ļ ļ			
			<del>                                     </del>			

A review of this application information did not include a review of minimum separation clearances from overhead electrical distribution wires (conductors) and transformers or other matters for which specific information was not provided. The owner / applicant are required to seek and obtain such other approvals as may be necessary. In all cases, the most restrictive condition applies. Where other restrictions cause any change to the location or construction of this project, such changes must be reviewed and approved by the Building Division prior to construction. Personal information contained in this form and schedules is collected under the authority of subsection 8(1.1) of the *Building Code Act, 1992*, and will be used in the administration and enforcement of the *Building Code Act, 1992*. Questions about the collection of personal information may be addressed to: a) the Chief Building Official of the municipality or upper-tier municipality to which this application is being made, or, b) the inspector having the powers and duties of a chief building official in relation to sewage systems or plumbing for an upper-tier municipality, board of health or conservation authority to whom this application is made, or, c) Director, Building and Development Branch, Ministry of Municipal Affairs and Housing 777 Bay St., 2nd Floor. Toronto, M5G 2E5 (416) 585-6666.



Application #			
$\pi$			

# **Application for Permission to Construct a Driveway**

Owner Name:		Phone No:				
Address of Owner:		Postal Code:				
Applicant (if different than owner):		Phone No:				
Address of Applicant:		Postal Code:				
The personal information on this form	is collected u	nder the authority of the Municipal Act, as				
•		process the driveway permit. Questions about the				
collection of this information should b						
		e proposed driveway will service:				
Address:						
Legal Description (if municipal addre	ss not vot assi	(gned)				
Legal Description (ii municipal addres	ss flot yet assi	gned)				
Land use of property to be accesse	ad.					
Dwelling		f driveways servicing this lot:				
Uses other than Dwelling	carrene ii c					
Type of installation:						
○ New	<ul><li>Existing</li></ul>	(with construction)				
○ Existing (resurface only)	Existing	(no construction)				
Specifications of driveway: Applica	nts must subr	nit a detailed plan drawing the proposed driveway.				
Dimensions and orientation:	Locatio	n: Distance measured along the road (lot line)				
A) Width at road edge or curb:		rest other driveway on subject property (min 6m):				
B) Width at road line (lot line):	,	Nearest side of lot line (confirm whether it is the left or				
	Dimens	t line if you are facing the lot)				
	Side:	ion.				
Is this a corner lot?	7 0.0.0.					
Is the angle of the driveway perpend	icular to the r	oad?				
The driveway has:						
○ Curb ○ Ditches ○ Gravel surf	face 🔘	Other (sidewalk, etc)				
Are any of the following located a	t or near the	location of the driveway?				
○ Hydro poles ○ Light poles ○ Otl	her poles 🔘	Telecommunications box Other:				
Construction to be done by:						
	Part of Eng. Co	ontract #				
Contractor information		7				
Contractor:		Address:				
		Phone No.				
Engineer/Architect:		Phone No: Address:				
Ligineer/Architect.		Addiess.				
		Phone No:				

Submission checklist:
O Plan drawing attached
Insurance attached (if entrance not installed by municipality)
Applicant will mark the location with visible markers by:
In consideration of being granted approval for the work set forth in this application, I hereby agree:
a) That no work will commence until the application and plans are approved by the Chief Building

Application #\_

- Official and an approved permit has been issued;
- b) To construct and maintain the driveway in accordance with all municipal By-laws and permit conditions and/or instructions;
- c) To accept all costs associated with the construction and the maintenance of the driveway;
- d) To pay for all fees associated with the municipality installing a driveway;
- e) To acknowledge that the privilege conferred by the granting of this application for a driveway and/or driveway carries with it all legal liability, including but not limited to third party liability (i.e. for damages or injured other persons);
- f) To adhere to all other By-laws of the Township of Gillies pertaining to this application, including the Zoning By-law. The undersigned acknowledges that the issuance of a permit under this application is not confirmation that the proposed driveway conforms with the Zoning By-law and that the Township of Gillies reserves its right tot enforce the Zoning By-law notwithstanding the issuance of a permit under this application. It shall be the sole responsibility of the undersigned to ensure compliance with the Zoning By-law and the Township of Gillies shall have no liability in respect of or arising out of any violation thereof or any steps taken with respect to the permit issued under this application.

#### **Declaration:**

I, the undersigned					
authorized owner of the subject prope outlined above.	erty noted in this application and agree to	items (a) through (f)			
outilited above.					
Owners Signature	 Date				
Witness Signature	 				
Mail out permit     Call for pickup					

# Applying for a Sewage Treatment System Permit

Please complete the following steps. More details on each step can be found in the attached package:

- 1. Design the sewage treatment system.
- 2. Complete the application form.
- 3. Dig the test pits.
- 4. Submit the completed application form and applicable fees.
- 5. Receive the initial inspection.
- 6. Receive the permit.
- 7. Start work on the system.
- 8. Request the final inspection.
- 9. Submit the Completion Notice.
- 10. Receive authorization to use the system.



# Applying for a Sewage Treatment System Permit

Please read the following information carefully. This should help you to complete the permit application required by the Ontario Building Code (OBC) and the Thunder Bay District Health Unit.

This information package is provided for guidance only.

You should always refer to the current requirements of the Ontario Building Code (OBC) and the Building Code Act (BCA).

The OBC and the BCA are available online; links to both can be found on page 30.

#### **CONTENTS:**

PART I - General Information	pages 2-4
<ul> <li>PART II - Guidelines for Completing the Application</li> <li>Sections A to K—Development Specifics</li> <li>Section L—Site Evaluation &amp; Percolation Rates</li> <li>Section M—System Type</li> <li>Section N—Lot Diagram and Site Plan</li> <li>Section O—Cross Section/Side Profile</li> </ul>	page 5-7 page 7-8 page 9-12 page 12 page 13
Appendices A-J	page 14-28
Sample of a Completion Notice  Maintaining a System  Further Information	page 29 page 30 page 30

Reviewed: June, 2016



#### PART I—GENERAL INFORMATION

#### Design the Sewage Treatment System

The Ontario Building Code (OBC) Regulations outline the minimum legal requirements for the design, construction, operation and maintenance of sewage treatment systems. However, there are many factors that may affect the sewage treatment system (i.e. water use, soils, location, topography, etc.).

Anyone unable to design a sewage treatment system meeting the requirements of the OBC and BCA should hire the services of a licensed sewage treatment system contractor or qualified consultant.

The Health Unit is **not permitted to design sewage treatment systems.** It is the responsibility of the property owner to design a system that meets the requirements of the Ontario Building Code (OBC) and the Building Code Act (BCA).

When a sewage treatment system is installed, this area must be remain as green space. No other buildings are allowed in the area. To protect the sewage treatment system, pick an area where there will be no vehicle traffic, storage, buildings, gardening or winter traffic. If you have problems finding a suitable area for your sewage treatment system, contact a licensed contractor or qualified consultant.

#### Complete the Application Form

Information needed to complete the permit application includes, but is not limited to:

- size of the home/building
- number of bedrooms/rooms/employees
- total number of fixtures (including future rough-ins)
- exact location of proposed sewage treatment system in relation to the building
- exact location of proposed sewage treatment system in relation to the well, either existing or proposed
- exact location of proposed sewage treatment system in relation to the well of any other property if less than 46 meters (150 feet) away

#### Dig Test Pits

At least two test pits must be dug to a minimum depth of 1.67 meters (66 inches) and a minimum width of 1 meter (36 inches) wide in the designated area of the leaching bed. These pits are needed to determine if the soil can accept and provide treatment of the wastewater.

If the excavation shows any of the above at a depth of less than 1.67 meters (66 inches) below original grade, you must record the depth in Section L(2) on the application. Test

pits must remain open so the Land Development Officer can confirm your observations during the initial inspection. Clean sand will need to be imported for the construction or installation of a partial or fully raised leaching bed.

The test pits should be dug with a backhoe so the Health Unit's land development officer can see the soil profile. Digging should stop if any of the following are seen:

- bedrock or large boulders
- clay or hardpan soil
- the groundwater table

#### Submit the Completed Application Form and Applicable Fees

Submit the completed permit application form and all applicable fees to the Health Unit. See Appendix A—Fee Schedule.

Some supporting documentation may be needed if you are submitting a permit application form for a sewage treatment system serving a business or restaurant.

If you have any questions, contact a licensed contractor or qualified consultant to help you interpret the requirements as listed in the OBC and BCA.

#### Receive the Initial Inspection

When the completed permit application and fees have been forward to the Health Unit, an initial inspection will be completed. This inspection will determine if the proposal complies with the minimum requirements of the OBC. During this first inspection, the land development officer may observe other factors that may affect the ability of the sewage treatment system to perform as required. This may result in an increase to the final size of the sewage treatment system or in relocation of the system.

Test pits must be excavated and accessible for inspection. If the home/building is not yet built, the location must be clearly marked. The location of the proposed septic tank and sewage treatment system must also be staked. This will allow the land development officer from the Health Unit to confirm all measurements.

#### Receive the Sewage Treatment System Permit

Once the completed application form is delivered to the Health Unit and the applicable fees are paid, the Health Unit has 10 working days to complete the permit.

The sewage treatment system permit is the legal authorization approving the construction and/or installation of the system.

If someone other than the specified registered owner of the property requests a copy of the permit (i.e. agent or installer,) the Health Unit must receive authorization or permission from the owner to release their permit.

#### Start Work on a Sewage Treatment System

No work can start on a sewage treatment system until a sewage treatment system permit has been issued.

If a sewage treatment system is constructed by anyone other than the owner, that person must be a licensed sewage treatment system contractor or qualified consultant under the OBC. The owner and contractor/consultant share the responsibility for making sure that all work is done as outlined on the permit and according to the OBC and BCA.

According to the OBC the work done on a sewage treatment system must be done as outlined on the application form. If changes to the approved permit are needed, then the Health Unit must review the changes. An additional fee may be applied.

#### Request the Final Inspection

Once the sewage treatment system has been constructed/installed, it cannot be backfilled until it is inspected to ensure it was constructed according to the approved design and the requirements of the OBC and BCA.

#### Submit the Completion Notice

When the sewage treatment system is approved for backfilling, measurements for the as-built diagram on the Completion Notice must be taken by the homeowner or contractor/consultant.

These measurements and diagram of the sewage treatment system are placed on the Completion Notice. Once the as-built diagram and applicable information are filled in on the Completion Notice, it must be forwarded to the Health Unit.

#### Receive Authorization to Use the Sewage Treatment System

When the Completion Notice is forwarded to the Health Unit, the Certification of Readiness to Use will be issued by the Health Unit's land development officer. This is the legal authorization for use of the sewage treatment system.

#### PART II — GUIDELINES FOR COMPLETING THE APPLICATION

#### **SECTION A: Personal Information**

Include the name of the registered owner(s) of the property.

#### SECTION B: Agent/Installer

Anyone who is in the business of constructing, installing or repairing sewage treatment systems must hold a valid license issued by the Ontario Ministry of Municipal Affairs and Housing. The installer's name and Building Code Identification Number (BCIN) must be included on the permit application form. If you don't know the name of the installer when you submit your permit application form, you must advise the Health Unit before the system is constructed/installed.

If you are constructing/installing the system yourself, please list yourself as the installer.

#### SECTION C: Intended Use and Class of Sewage Treatment System

Describe the intended use of the structure (i.e. single family dwelling). For commercial use (i.e. restaurant, motel or large systems), the services of a consulting engineer is likely required to design the sewage treatment system. Full knowledge of Part 8 of the Ontario Building Code (OBC) is essential for designing and installing sewage treatment systems.

#### Identify the right class for the intended purpose of the sewage treatment system.

- Class 1 System —a chemical toilet, an incinerating toilet, a recirculating toilet, a self-contained portable toilet and all forms of privy including a portable privy, an earth privy, a pail privy, a privy vault and a composting toilet system
- Class 2 System A leaching pit is used for the treatment and dispersal of greywater only.
- Class 3 System A cesspool is used for the treatment and dispersal of certain Class 1 systems.
- Class 4 System A septic tank and leaching bed/tertiary treatment unit; used for the treatment and dispersal of all wastewater.
- Class 5 System A holding tank is permitted only by exemption under the OBC.

#### **SECTION D: Property Information**

Provide the legal description of the property the sewage treatment system is to be constructed/installed on. Include the area in meters and or feet. For larger parcels of land, use hectares and/or acres.

#### **SECTION E: Building**

This section refers to the building that will be served by the proposed sewage treatment system. Include the total proposed finished floor area in square meters and/or in feet for residential dwellings. You do not have to include the basement and/or garage.

#### **SECTION F: Water Supply**

Indicate water source (i.e. dug/drilled well, municipal water, lake, other). Make sure you note whether the water supply is proposed or existing.

#### SECTION G: Specific Measurements Required — See Appendix B

Identify separation distances between the water supply and proposed location of septic tank and leaching bed/dispersal bed. Include distance to neighbor's well if less than 46 meters (150 feet) away from proposed sewage treatment system. Measurements will be verified during the initial and final inspection. Failure to provide accurate measurements may result in permit revocation.

#### SECTION H: Directions to Lot

Include simple directions (i.e. street address or fire number). Where these are not available the Lot Identification Card, included in the Application Information Package, must be visible (i.e. tree, fence post, end of driveway).

#### **SECTION I: Plumbing**

In this section, record the plumbing fixtures. Include all fixture units in basement, accessory buildings and future "rough-in" fixtures.

### SECTION J: Residential Occupancy — See Appendix C

### Daily Sewage Flow "Q":

- 1. For residential occupancies, the daily sewage flow (Q) is determined by using the volume (Litres) from page 2 of the application.
- 2. If there are several items in the additional flow list, (found in Appendix C) which apply, add the one item that adds the greatest flow.

#### SECTION K: Other Occupancies — See Appendix D

- 1. The daily sewage flow (Q) is determined by the number of rooms, staff, seats, etc. multiplied by the applicable litres/day.
- 2. Where a building contains more than one establishment, the total daily sewage flow (Q) is the sum of the daily sewage flow (Q) for each establishment.
- 3. When an occupancy is not listed in OBC Table 8.2.1.3.B Other Occupancies (see Appendix D), the highest of the metered flow data from at least 3 similar establishments will be acceptable for determining the daily sewage flow (Q). This will likely require the design from a certified engineer.

#### SECTION L: Site Evaluation and Percolation Rates (T-Time)

Please make note of the following:

#### 1. Describe existing soil type in sewage treatment system area

Test pits will allow you to see the subsoil profile and groundwater conditions below grade at the proposed location of the leaching bed.

The test pits should be dug within the proposed location of the leaching bed and be 1 meter (36 inches) wide and 1.67 meters (66 inches) deep. The test pits allow the Land Development Officer to verify soil conditions. Ensure the test pit(s) is covered for safety reasons.

2. Determine depth to bedrock, hardpan and/or groundwater table (if applicable) Please indicate the depth at which you observed bedrock, hardpan and/or the high groundwater table if applicable. If you do not observe any of the three items previously listed in the 1.67 meter deep test pits, indicate by completing this section with "1.67 meters (66 inches) PLUS". This will inform us that you can excavate greater than 1.67 meters (66 inches) before bedrock, hardpan and/or groundwater is encountered.

#### 3. Describe soils to be used for sewage treatment system

Indicate whether you are proposing to construct/install the sewage treatment system in the existing/native soil or if the leaching bed/dispersal bed will be constructed/installed in imported sand. While there are exceptions to the rule, generally, your lot either possesses 1.67 meters (66 inches) of native sand or you will be importing 1.67 meters (66 inches) of clean sand.

#### 4. Mantle - contact area beyond the leaching bed/area bed

The 15 meter (50 feet) mantle is the extended area beyond a sewage treatment system that absorbs excess effluent (e.g. wastewater) if there are peak flows on the system, or if there are poor soil conditions on your property. Without it, the water would lay on the surface of the ground, potentially creating a health and/or safety hazard.

If imported sand is needed for the construction of the leaching bed/dispersal bed, you will also need to import clean sand to establish the sand mantle.

The sand mantle must extended a minimum of 15 meters (50 feet) beyond the leaching bed/dispersal bed in the direction in which effluent (e.g. wastewater) will move across the soil. If your lot is level, the mantle must extend a minimum of 15 meters (50 feet) in all directions. If this is the case at your site, speak to a licensed contractor or qualified consultant.

#### 5. Determine percolation time of proposed soils — Appendix E

Percolation time (T-time) means the average time in minutes that is required for water to drop one centimeter into the soil as determined by a soil evaluation or analysis. If you are proposing to construct/install the system in the existing/native soil, a "bucket" size sample, taken at two locations from a depth of 0.76-0.9 meters (30-36 inches), must be submitted to an accredited soils agency for testing. See consultants listed in **Appendix E**.

If there is a significant range in the percolation time (T-time), the high end of the range will be used in conjunction with the daily sewage flow to calculate the size of leaching bed or area bed.

If you are constructing a "raised leaching bed" with imported clean sands,

confirmation of the T-time of the imported fill must be forwarded to the Health Unit.

#### **SECTION M: System Construction Details**

Class 2 Sewage Treatment System — Leaching Pit — See Appendix F
Leaching pits are used to treat and disperse grey water sewage only. They are NOT
to be used for the disposal of toilet waste. Since leaching pits treat and disperse
sewage, they must be inspected and approved under the OBC by the Health Unit.

This type of system can only be used to treat and disperse water wastes which come from plumbing fixtures such as sinks, showers and saunas. The maximum daily sewage flow into a leaching pit must not exceed 1000 litres per day. See Appendix F for sizing information.

#### Class 4 Sewage Treatment System — See Appendix G

The most common class of an on-site sewage treatment system is the Class 4 system. This class is commonly referred to as a "septic" or "leaching bed" system. Tertiary treatment units are growing in popularity; see page 10 for more information.

There are two main components of a Class 4 sewage treatment system: septic tank and leaching bed/dispersal bed.

#### Septic Tank

The septic tank is a buried, watertight container, which receives wastewater from a home/business. Septic tanks are made from concrete, polyethylene or fiberglass. The current minimum size of septic tank allowed in Ontario is 3600L (800 gallons).

The purpose of the septic tank is to separate liquids from solids and to provide some breakdown of organic matter in the wastewater. Solids settle to the bottom of the tank forming a sludge layer, and fats, oils and grease float to the top forming a scum layer. The tank should be pumped out every three to five years or when one-third (1/3) of the tank volume is filled with solids, as measured by a service provider such as a pumper. Naturally occurring bacteria from body waste, flushed into the septic tank, work to break down the sewage over time.

For residential occupancies, the size of a septic tank is determined in part by the size of the home, including the number of bedrooms and bathrooms. For non-residential occupancies, the number of employees is used in part to determine the tank size.

Additives such as "starters" which promote "cleanliness" of the septic tank are not recommended by the Health Unit.

#### Leaching Bed

The effluent (e.g. wastewater) exits from the second chamber of the septic tank and enters a series of distribution pipes below surface level. There, the wastewater is evenly distributed to the chambers, referred to as the leaching bed. Soils beneath the trench and/or chambers provide most of the aerobic treatment of the wastewater. Sand is ideal for treatment while clay soils are not. Poor draining soils may result in groundwater ponding. This has the potential to saturate soils in and around the leaching bed. Treatment will not occur in saturated soils as caused by a high or perched water table.

There are three types of treatment that occur in the soil: physical, chemical and biological. Physical treatment is the filtration of bacteria out of the percolating wastewater by the soil. Cation exchange capacity (CEC) is an example of a chemical treatment process that can bind nutrients such as phosphorous in the wastewater to the soil. Bacteria and other soil microorganisms are responsible for the biological treatment of the wastewater. These "bugs" eat any organic solids that make it from the septic tank to the leaching bed.

The Ontario Building Code (OBC) requires a minimum of 0.9 meters (36 inches) of unsaturated permeable soil separating the trench and/or chamber bottom and the seasonal high groundwater table, bedrock or clay soils. In situations where there is more than 1.67 meters (66 inches) of unsaturated native permeable soil above the groundwater, bedrock and/or clay soils, a *conventional system* may be constructed/installed. In situations where less than 1.67 meters of unsaturated native permeable soil exists above the groundwater, bedrock and/or clay soils, a *partial or fully raised leaching bed* must be constructed/installed. See **Appendix G** for sizing.

#### **Tertiary Treatment Units**

A Tertiary Treatment Unit (TTU) is defined as a sewage treatment system that complies with the Effluent Quality Criteria as regulated by the OBC table 8.6.2.2.A. Sewage that has passed through a TTS has been significantly reduced in strength from a normal residential strength waste count of 120-150mg/L BOD5 (organic waste) to roughly 15mg/L.

Wastewater exiting a TTS is reduced to about 1/10 the strength of normal residential strength wastewater. As a result, the leaching bed/dispersal bed is half the size of a conventional leaching bed.

Where additional treatment methods are used to treat the raw sewage, it can be done through aeration (oxygen) processes, filtration or chemical additive. These treatment units are classified by the level of treatment achieved, and manufacturers of approved systems are listed in the Supplementary Guidelines of the Ontario Building Code (OBC).

A TTU must be designed and installed by the authorized agents or employees. In addition, an agreement must be contracted for maintenance and service of this alternative method of sewage treatment and dispersal.

Class 5 Sewage System — Holding Tanks — See Appendix H

Holding tanks may be installed ONLY in the following circumstances:

- 1. When the proposed use of the sewage system is for a temporary operation, excluding seasonal recreation use, not exceeding 12 months in duration.
- 2. To permit the extension of an existing single-family dwelling provided that the extension will not increase the wastewater load and the building is already served by a holding tank.
- 3. To remedy an unsafe sewage system where the remediation of the unsafe condition by the installation of a Class 4 sewage system is impractical.
- 4. To upgrade a sewage system on a existing lot or parcel of land, where upgrading through the use of a Class 4 sewage system is not possible due to lot size or clearance limitations.

If approval is granted to install a holding tank, the following conditions must be completed to ensure compliance with the Ontario Building Code (OBC):

- 1. A written agreement for the disposal of the sanitary sewage from the sewage system shall be entered into with a hauled sewage system operator. This letter must be enclosed with the application at the time of the submission.
- 2. All holding tanks must be equipped with a device that produces an audible (e.g. sound) and visual warning alarm located in such a way as to warn that the sewage system is nearing capacity.

The final inspection will not be performed until the Health Unit is notified that the audible and visual alarm mechanisms are installed and operational.

### For any of the above systems, is a pump required?

If the total length of distribution pipe is greater than 150 meters, an effluent (wastewater) pump must distribute effluent throughout the leaching bed/dispersal bed. The pump must be designed to discharge a dose of at least 75% of the internal volume of the distribution pipe and/or chamber within a time period of fifteen minutes.

Indicate the elevation that the effluent (wastewater) must be pumped (head) and the distance between the pump chamber and the leaching bed/dispersal bed (run).

Please include the make, model and horsepower of the pump. Please indicate the volume of the effluent to be dosed to the distribution system in **Section M**.

See Appendix I for sizing.

#### SECTION N: Lot Diagram and Site Plan — See Appendix J

This section can be found on page 3 of the Application Form. In this section, you will illustrate all proposed development on the property.

Accurately measure and record all distances from the proposed sewage treatment system to:

- buildings,
- your well and/or neighbor's well (proposed or existing) if less than 46 meters (150 feet) from sewage treatment system

A detailed site plan showing location of septic tank and pump chamber is required. All dimensions of leaching bed/dispersal bed, including the SAND MANTLE, must be clearly marked on page 3 of the application.

Land marks such as property lines, water courses, bare rock and topography of the lot are just a few of the features that could affect the orientation/layout of the system. Any deviation from "normal" construction practices requires a fully detailed proposal in writing accompanied by an accurate diagram in this section.

#### SECTION O: Sewage System Cross Section/Side Profile — See Appendix J

This section can be found on page 3 of the Application Form.

The side profile of the house, tank and sewage system must be illustrated showing the proposed construction method.

If there is sufficient slope on the property to allow for a "bench/wedge system", a fully detailed diagram illustrating maximum excavation (0.9metres/36 inches) relative to original grade and all applicable horizontal measurements must be shown.

# Appendix A: Fee Schedule

Class	Description	Fee (HST exempt)
Class 1	Pit Privies	No charge
Class 2	Leaching Pit (Greywater)	\$225.00
Class 3	Cesspool (waste from Class 1 only)	\$225.00
Class 4	Residential septic tank and field	\$850.00
Class 4	Commercial septic tank and field	\$1000.00
Class 4	Residential tank (only) replacement	\$450.00
Class 4	Commercial tank (only) replacement	\$500.00
Class 4	Residential field (only) replacement	\$750.00
Class 4	Commercial field (only) replacement	\$900.00
Class 5	Residential holding tank (if approved)	\$750.00
Class 5	Commercial holding tank (if approved)	\$900.00

## Other Fees:

Service	Fee (HST Exempt)
Changes to application AFTER permit has been issued – letter only	\$75.00
Permit renewal	\$75.00
File search – 4 day notice	\$150.00
File search – less than 4 day notice	\$175.00

...continued next page

Service	Fee	With HST
Severance; per lot	\$225.00	Not applicable
Minor variance	\$225.00	Not applicable
Zoning by-law amendment	\$225.00	Not applicable
Sub-division	\$225.00	\$254.25
Lot inspections/ compliance; inspection and letter	\$225.00	\$254.25
Sewage Renovation Permit (extend, alter, repair, change of use, inspection required)	\$350.00	\$395.50
Performance level review; inspection and letter	\$225.00	\$254.25
Performance level review; letter only	\$75.00	\$84.75
Changes to application	\$75.00	\$84.74

### NOTE:

- Cash, cheque, VISA, MASTERCARD and Interact accepted.
  Please make cheque payable to "Thunder Bay District Health Unit".
  There is a \$25.00 per cheque fee for non-sufficient funds.

The tables below list the required clearance distances for components of sewage systems. The clearance distances are listed in meters (m).

If the leaching bed is raised, add 2 meters for every 1 meter rise.

### Class 2 Leaching Pit

Wells with 6 m casing	Wells without 6 m casing	Potable springs	Non- potable springs	Surface water (lakes, rivers, etc.)	Property lines	Structures
10m	30m	30m	15m	15m	3m	1.5m

### Class 4 Distribution Pipe

LEGEND: C= Conventional leaching bed; R=Raised leaching bed

Wells with 6 m casing	Wells without 6 m casing	Potable springs	Non- potable springs	Surface water (lakes, rivers, etc.)	Property lines	Structures
				C = 15m R = 18m	C = 3m R = 6m	C = 5m R = 8m

## Class 4 Septic Tank

Wells with 6 m casing	Wells without 6 m casing	Potable springs	Non- potable springs	Surface water (lakes, rivers, etc.)	Property lines	Structures
15m	15m	15m	15m	15m	3m	1.5m

... continued on next page

# Class 5 Holding Tank

Wells with 6 m casing	Wells without 6 m casing	Potable springs	Non- potable springs	Surface water (lakes, rivers, etc.)	Property lines	Structures
15m	15m	15m	15m	15m	3m	1.5m

# Appendix C: OBC Section 8.2.1.2.A – Residential Occupancy

Dwelling	Daily Sewage Flow: Volume (litres)
1 bedroom dwelling 2 bedroom dwelling 3 bedroom dwelling 4 bedroom dwelling 5 bedroom dwelling  Additional flow for:     each bedroom over 5 bedrooms     each 10m² (or part thereof) over 200 m² **     each fixture unit over 20 fixture units  **for buildings over 200m², refer to Building Code	750 1100 1600 2000 2500 add 500 add 100 add 50
Apartments (per person)	275
Condominiums (per person)	275
Other multi-family dwellings	275

# Appendix D: OBC Section 8.2.1.3.B – Other Occupancies

Occupancy	Daily Sewage Flow: Volume (litres)
Airports, Bus Terminals, Train Stations, Dock/Pot Facilities (food services excluded):  Per passenger	20
Assembly Hall per seat: No food service	8
Barber shop or Beauty Salon, per service chair:	650
Bowling Alley (food services not included), per lane	400
Churches per seat: No kitchen facilities	8
Country Club (excluding Food Services): Per Resident Per Employee per 8 hour shift	375 50
Day Care Facility, per person (staff and children)	75
Dentist Office: Per wet service chair	275
Factory (excluding process or cleaning waters), per employee per 8 hour shift:  No showers	75
Flea Markets (open 3 days or less per week): Per non-food service vendor space Per food service establishments/9.25 m of floor space	60 190

...continued next page

Occupancy	Daily Sewage Flow: Volume (litres)
Food Service Operations:	
a) Restaurant (not 24 hour), per seat	125
b) Restaurant (24 hour), per seat	200
c) Restaurant on controlled access highway, per seat	400
d) Paper service restaurant, per seat	60
e) Donut shop, per seat	400
f) Bar and cocktail lounge, per seat	125
g) Drive-in restaurant, per parking space	60
h) Take-out restaurant (no seating space):	
i) Per 9.25m of floor area	190
ii) Per employee per 8 hour shift	75
i) Cafeteria, per meal	12
j) Food outlet:	
i) excluding delicatessen, bakery and meat depart-	40
ment,	40
per 9.25m of floor space	190
ii) Per 9.25m of delicatessen floor space	190
iii) Per 9.25m of bakery floor space	380
iv) Per 9.25m of meat department floor space v) Per water closet (washroom)	950

# Appendix E : Soils Types and Estimated T-times

Soil Type	Description	"T-time" (Percolation time)
Sand	Loose, single grains, can see individual grains. When squeezed in the hand, the soils mass falls apart when touched.	5-10 minutes/cm
Sandy Loam	Faint velvety feeling but with continued rubbing the gritty feeling of the sand dominates.	10-12 minutes/cm
Loam	Feels velvety that becomes slightly gritty with continued rubbing. Holds a cast easily.	12-15 minutes/cm
Silty Loam	Holds a cast easily. Slight tendency to ribbon between thumb and forefinger. Rubbed surface has a broken or rippled look.	15-20 minutes/cm
Clay Loam	Holds a cast easily. Pinched between thumb and forefinger, it forms a ribbon. Soil is sticky and puddles easily.	20-50 minutes/cm
Clay	Casts can bear considerable handling without breaking. Forms a flexible ribbon with thumb and forefinger. Rubbed surface has smooth, satin feeling. Sticky when wet. Shiny surface when cut with a knife.	Greater than 50 minutes/cm; unacceptable, needs imported soil

### The following consultants provide testing services for determining "T-time":

TBT Engineering Ltd. exp Services Inc.
711 Harold Street 1142 Roland Street
624-5160 623-9495

DST Consulting Engineers Inc.

True Grit Consulting Ltd.

1263 Innovation Drive
623-2929

626-5640

## Appendix F:

## Class 2 — Leaching Pit Requirements

To determine the construction requirements for the leaching pit, follow these steps:

- A. To begin, determine the estimated time (T-Time) value of the soil to used from Appendix E of the application to determine how fast the greywater will drain into the surrounding soil.
- B. Next you will use the T-time to determine the soil's acceptance of the greywater; this is called the loading rate. To calculate the loading rate (LR), divide the T-time into 400.

$$LR = 400$$
  
T-time

- C. Next, you will need to determine the number of fixture units by referring to Section I (Plumbing).
- D. Next, determine how much greywater will drain into the system When there is pressurized water, the volume is 200 litres per fixture unit When there is no pressurized water, the volume is 125 litres per fixture
- E. Next, take the number of fixture units and multiply it by the how much greywater will drain into the system to determine the total quantity of greywater.
  - For example, if you have two fixture units and there is no pressurized water: Total quantity of greywater =  $2 \text{ fixtures } \times 125 \text{L} = 250 \text{ litres}$ .
- F. Next, to size the system, divide the total quantity of greywater by the loading rate to determine the value in meters squared.
- F. Finally, determine the size of the side walls by dividing the size of the system by 4 as there are four side walls.

See the next page (page 23) for an example.

... continued on next page

## Example:

The percolation time (T-time) is 4-12 minutes/cm; the higher number of 12 is used.

The loading rate is 
$$LR = \underline{400}$$
 —>  $LR = \underline{400}$  —>  $LR = 33$  T-time 12

The number of fixture units is 2.

There is no pressurized water so volume of greywater per fixture unit is 125 litres.

The total quantity of greywater is determined by multiplying the number of fixture units X volume per fixture; in this example,  $2 \times 125 = 250$  litres.

To size this system, divide the total quantity of greywater by the loading rate (LR); in this example, 250/33 = 7.5 meters square

To determine the size of each side wall, divide the size of the system by 4; in this example, 7.5/4 = 1.875 meters square

So, each side wall must be 1.875 meters square (20 square feet). The pit could be dug 1.3 meters (4 feet) deep and 1.5 meters (5 feet) wide.

## Appendix G:

## Class 4 Sewage Treatment System Requirements

## Class 4 – Septic Tank Size Requirements

For a Class 4 septic tank, 3600 litres is the minimum tank size allowed under the OBC.

For residential occupancies, the septic tank must be twice the daily design sanitary sewage flow or Q X 2. Q is calculated on page 2 of your application.

For non-residential occupancies, the septic tank must be three times the daily design sanitary sewage flow or  $Q \times 3$ .

If you are planning to install a garbage disposal unit, it is highly recommended to increase the septic tank capacity by 50%.

## Class 4 - Leaching Bed Requirements

Once you have the daily sewage flow (Q) and the percolation rate (T-time), you can calculate the field-size (L) by using the following formula:

L=<u>Q X T-time</u> = minimum length of required distribution pipe 200

## Example:

If Q is 1600 for a 3 bedroom home and the T-time is 10/cm for clean sand:

The field-size (L) is 80 metres OR 262 feet. For design purposes, 262 feet is rounded up to 275 feet as 275 can be divided evenly into 5 runs (or lengths) of distribution pipes, each 55 feet long

... continued on next page

## Ontario Building Code — Reference 8.7.3 — Leaching Bed Requirements

The Ontario Building Code also stipulates that absorption trenches must be installed:

- At approximately the same length, and not more than 30 m (100 feet) lengths.
- At least 500 mm (20 inches) and not more than 900 mm (36 inches) in depth from final grade; refer to code.
- Centered at least 1.6m (6 feet) apart
- At least 900 mm (3 feet) at all points on the bottom of trench, above groundwater table, rock, or soil; percolation rate greater than 50 minutes/cm
- With a distribution pipe that is sloped at 30 to 50 mm per 10 meter length, or ½ inch per 10 feet. With stone that is 19mm, clear, washed aggregate or between 19 and 53 mm screened aggregate.

Prior to backfilling, the stone covering the distribution pipe shall be covered with either geotextile fabric or untreated building paper.

Backfill, after the installation of the distribution pipe with leaching bed fill, in such a way as to ensure that after the leaching bed fill settles, the surface of the leaching bed will not form any depression.

The surface of the leaching pit shall be shaped to shed water and together with the side slopes of any raised portion, must be protected against erosion in such a manner as to not inhibit the evaporation and transpiration of waters from the soil or leaching bed fill, and to not cause plugging of the distribution pipe.

No part of the leaching bed can be sloped steeper than 25%, one units vertical to 4 units horizontal.

The leaching bed shall be designed and protected from compaction or stress or pressure that may;

- a) result in the impairment or destruction of any pipe in the leaching bed, OR
- b) may result in the smearing of soil or leaching bed fill.

EXAMPLE: An example of installation and construction practices in typical conditions is as follows:

- 1. Level the designated leaching bed area.
- 2. Dig in 0.76 meters (30 inches) to establish trenches. Place the system into the trench as follows: 150 mm (6 inches) crushed rock, the 100 mm (4 inches) pipe, an additional 50 mm (2 inches) rock over the pipe and a layer of untreated building paper or geotech cloth covering all the rock.
- 3. It is recommended to interconnect the ends of the distribution pipe with a solid pipe to ensure there is even distribution of effluent (e.g. wastewater).
- 4. A grass layer should be planted as soon as possible after the final inspection, to ensure that water is diverted from the septic filed and to lessen erosion.

# Appendix H: Class 5 Sewage System Requirements

## Holding Tank Sizing Requirements

The size of a holding tank is based on a holding capacity of 7 times the total daily sewage flow (Q), but not less than 9000 litres.

Q (from page 2 on application) X7 = litres

## **Holding Tank Construction Requirements**

Where a holding tank is approved, a written agreement for the disposal of the sanitary sewage from the sewage system must be entered into with a hauled sewage system operator.

All class 5 sewage systems shall be equipped with a devise that shall produce an audible and visual warning alarm that will notify when the holding tank is nearing capacity and requires pumping.

This alarm should provide sufficient warning to allow for the unpredictable response time of the hauled sewage system contractor.

Holding tanks must also be vented either by installing a vent pipe on the tank or connecting into the venting system of the building.

# Appendix I: Pump

To determine the amount of effluent pumped per cycle in litres to the pump (e.g. volume), use the following:

3 inch diameter pipe: V= 3.3 X L

4 inch diameter pipe:

V = 5.9 X L

## Where:

L = total length of distribution pipe in the leaching bed

# Appendix J: Completing Sections N & O of the Application

## **APPLICATION FOR SEWAGE SYSTEM PERMIT- PAGE 3**

APPLICATION NO.

**SECTION N** 

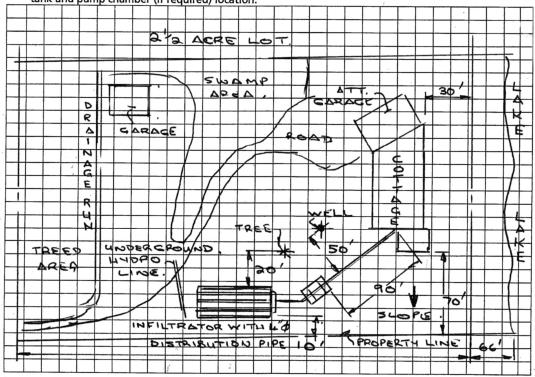
**LOT DIAGRAM AND SITE PLAN** 

126-2012

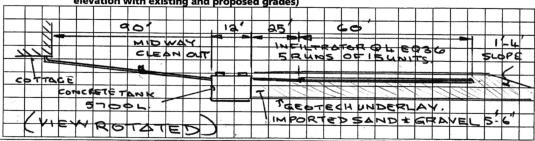
Include the following on the site plan:

- a) All buildings-proposed and/or existing, wells [include neighbours' if less than 46 m (150 ft.)] away, driveways, utility easements, etc.
- b) Property lines, water courses, swamps, cliffs, bare rock, slope, etc.

c) Provide detailed sewage system diagram, including dimensions of leaching bed, sand mantle, septic tank and pump chamber (if required) location.



<u>SECTION O</u> - SEWAGE SYSTEM CROSS SECTION/SIDE PROFILE (of house, tank and sewage system elevation with existing and proposed grades)





# **COMPLETION NOTICE**

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## Maintaining Your Sewage Treatment System

- The septic tank should be pumped every 3 to 5 years depending on use.
- Keep a maintenance record of your septic system.
- Common household habits that can create problems so please do not put these items down your septic system:
  - grease
  - coffee grounds
  - bones
  - cooking fats
  - cigarette butts
  - disposable diapers
  - paper towels
  - tissues
  - condoms
  - feminine hygiene products

## **Further Information**

Thunder Bay District Health Unit

• 625-7990 or toll-free at 1-888-294-6630, ext. 7990

Ministry of Municipal Affairs & Housing—Ontario Building Code

www.ontario.ca/buildingcode

Ontario Onsite Wastewater Association

www.oowa.org

**Ontario Rural Wastewater Centre** 

www.uoguelph.ca/orwc/

Ontario Ministry of the Environment and Climate Change

www.ontario.ca/ministry-environment-and-climate-change



# Energy Efficiency Design Summary: Prescriptive Method (Building Code Part 9, Residential)

This form is used by a designer to demonstrate that the energy efficiency design of a house complies with the building code using the prescriptive method described in Subsection 3.1.1. of SB-12. This form is applicable where the ratio of gross area of windows/sidelights/glazing in doors and sliding glass doors to the gross area of peripheral walls is not more than 22%.

			For use by F	Principal Au	uthority				
Application No:				Model/	Certification Number				
A Duning the form of the									
A. Project Informatio	n					Unit number	Lot/Con		
bulluling humber, street hame						Onit number	Lovoon		
Municipality		Postal o	code	Reg. PI	an number / other desc	ription			
, ,									
B. Prescriptive Co	mpliance	indicate the	building code c	ompliance	package being em	ployed in this house o	design]		
SB-12 Prescriptive (inp	ut design p	oackage): P	ackage:		Tal	ole:			
C. Project Design Co	nditions								
Climatic Zone (SB-1):			uipment Effi	ciency	Space Heating	Fuel Source			
□ Zone 1 (< 5000 degree day		□ ≥ 92% AF			□ Gas □ Oil	□ Propane	□ Solid Fuel		
□ Zone 2 (≥ 5000 degree day	-	□ ≥ 84% < 9					□ Earth Energy		
Ratio of Windows, Skylights	s & Glass	(W, S & G) to	o Wall Area			Characteristics			
Area of walls =m <sup>2</sup> or		,			□ Slab-on-grou □ Air Condition	nd □ Walkout Ba ing □ Combo Unit	t		
Area of W, S & G =m <sup>2</sup> o	rft²	Utilize window	averaging: □	Yes □No		Heat Pump (ASHP) ced Heat Pump (G			
	D. Building Specifications [provide values and ratings of the energy efficiency components proposed]								
Energy Efficiency Subs									
□ ICF (3.1.1.2.(5) & (6) / 3.1.1.3.(5) & (6)) □ Combined space heating and domestic water heating systems (3.1.1.2.(7) / 3.1.1.3.(7)) □ Airtightness substitution(s) □ Table 3.1.1.4.B Required: □ Permitted Substitution: □ Permitted Substitution: □ Permitted Substitution: □ Permitted Substitution:									
			quired:		Permitted Substitution:				
Building Compone	nt	Minimum R	SI / R values m U-Value <sup>(1)</sup>		Building Com	ponent	Efficiency Ratings		
Thermal Insulation		Nominal	Effective	Windo	ws & Doors Pr	ovide U-Value <sup>(1)</sup> or ER	rating		
Ceiling with Attic Space				Windo	ws/Sliding Glas	s Doors			
Ceiling without Attic Space	!			Skyligh	Skylights/Glazed Roofs				
Exposed Floor				Mecha	nicals				
Walls Above Grade				Heating	g Equip.(AFUE)				
Basement Walls				HRV E	fficiency (SRE%				
Slab (all >600mm below grade)				DHW H	Heater (EF)				
Slab (edge only ≤600mm below				DWHR	(CSA B55.1 (min.	# Showers			
Slab (all ≤600mm below grade,	o (all ≤600mm below grade, or heated)  Combined Heating System								
(1) U value to be provided in eith <b>E. Designer(s)</b> [name(s)	•	, ,	•		mation herein to su	ubstantiate that design	n meets the buildingcodel		
Qualified Designer Declarati							. 31		
Name	an or doorgi	to mayo lovi	und tano	BCIN	, is. the doorgil v	Signature			
F. Applicant [name of pe	rson applvir	ng for the buildi	ng permit	1		1			
Applicant Declaration of applic				provided b	by the BCIN design	er.			
Name				BCIN		Signature			

## **Guide to the Prescriptive Energy Efficiency Design Summary Form**

This form must accurately reflect the information contained on the drawings and specifications being submitted. Refer to Supplementary Standard SB-12 for details about building code compliance requirements. Further information about energy efficiency requirements for new buildings is available from the provincial building code website or the municipal building department.

The building code permits a house designer to use one of four energy efficiency compliance options:

- 1. Comply with the <u>SB-12 Prescriptive</u> design tables (this form is for this option (Option 1)),
- 2. Use the SB-12 Performance compliance method, and model the design against the prescriptive standards,
- 3. Design to Energy Star, or
- 4. Design to R2000 standards.

#### COMPLETING THE FORM

#### **B.** Compliance Options

Indicate the compliance option being used.

• <u>SB-12 Prescriptive</u> requires that the building conforms to a package of thermal insulation, window and mechanical system efficiency requirements set out in Subsection 3.1.1. of SB-12. Energy efficiency design modeling and testing of the building is not required under this option. Certain substitutions are permitted. In which case, the applicable airtightness targets in Table 3.1.1.4.A must be met.

#### C. Project Design Conditions

Climatic Zone: The number of degree days for Ontario cities is contained in Supplementary Standard SB-1 Windows, Skylights and Glass Doors: If the ratio of the total gross area of windows, sidelights, skylights, glazing in doors and sliding glass doors to the total gross area of walls is more than 17%, higher efficiency glazing is required. If the ratio is more than 22%, the SB-12 Prescriptive option may not be used. The total area is the sum of all the structural rough openings. Some exceptions apply. Refer to 3.1.1.1. of SB-12 for further details. Fuel Source and Heating Equipment Efficiency: The fuel source and efficiency of the proposed heating equipment must be specified in order to determine which SB-12 Prescriptive compliance package table applies. Other Building Conditions: These construction conditions affect SB-12 Prescriptive compliance requirements.

#### D. Building Specifications

Thermal Insulation: Indicate the RSI or R-value being proposed where they apply to the house design. Under the <u>SB-12 Prescriptive</u> option, alternative ICF wall insulation is permitted in certain conditions where other design elements meet higher standards. Refer to SB-12 for further details. Where effective insulation values are being used, the Authority Having Jurisdiction may require supporting documentation.

#### BUILDING CODE REQUIREMENTS FOR AIRTIGHTNESS IN NEW HOUSES

All houses must comply with increased air barrier requirements in the building code. Notice of air barrier completion must be provided and an inspection conducted prior to it being covered.

The air leakage rates in Table 3.1.1.4.A are not requirements. This provision is a voluntary provision for when credits for airtightness are claimed. Credit for air tightness allows the designer to substitute the requirements of compliance packages as set out in Table 3.1.1.4.B or 3.1.1.4.C. Neither the air leakage test nor compliance with airtightness targets given in Table 3.1.1.4.A are required, unless credit for airtightness is claimed. Table 3.1.1.4.A provides airtightness targets in three different metrics; ACH, NLA, NLR. Any one of them can be used. OBC Reference Default Air Leakage Rates (Table 3.1.1.4.A)

Duilding Tons	Airtightness Targets								
Building Type	ACH @ 50 Pa	NLA @	2 10 Pa	NLR @ 50 Pa					
Detached dwelling	2.5	1.26 cm <sup>2</sup> /m <sup>2</sup>	1.81 in <sup>2</sup> /100ft <sup>2</sup>	0.93 L/s/m <sup>2</sup>	0.18 cfm50/ft <sup>2</sup>				
Attached dwelling	3.0	2.12 cm <sup>2</sup> /m <sup>2</sup>	3.06 in <sup>2</sup> /100ft <sup>2</sup>	1.32 L/s/m <sup>2</sup>	0.26 cfm50/ft <sup>2</sup>				

The building code requires that a blower door test be conducted to verify the air tightness of the house during construction if the <u>SB-12 Prescriptive</u> option with airtightness credit being applied. Results of the airtightness test may need to be submitted to the Authority Having Jurisdiction. Airtightness of less than 2.5 ACH @ 50 Pa (or NLA or NLR equivalent) in the case of detached houses, or 3.0 ACH @ 50 Pa (or NLA or NLR equivalent) in the case of attached houses is necessary to meet the required energy efficiency standard.

#### E. House Designer

The building code requires designers providing information about whether a building complies with the building code to have a BCIN. Exemptions apply to architects, engineers and owners designing their own house.

# **Application for a Plumbing Permit**

For use by Principal Authority					
Application number:	Permit number (if different):				
Date received:	Roll number:				

Application submitted to: **Township of Gillies,** 1092 Highway 595, Kakabeka Falls, ON, P0T 1W0

A. Project information					T 1 1 24 1			
Building number, street name					Unit number	Lot/con.		
Municipality		Postal code	Plan nu	mber/other des	r description			
Proposed Use of Building:			· I					
B. Applicant	Applicant is:	Owner or	☐ Autho	orized agent o	f owner			
Last name		First name	Corpora	ation or partners	hip			
Street address					Unit number	Lot/con.		
Municipality		Postal code	Provinc	е	E-mail			
Telephone number		Fax	•		Cell number			
C. Owner (if different from	m applicant)	( )			( )			
Last name	лії арріїсані)	First name	Corpora	ation or partners	hin			
		T HOL HAMIO	Оогрого	anorr or pararore				
Street address					Unit number	Lot/con.		
Municipality	Postal code	Provinc	е	E-mail				
Telephone number	Fax			Cell number				
( )		( )			( )			
D. Contractor								
Last name		First name	Corpora	ation or partners	hip (if applicable)			
Street address			· I		Unit number	Lot/con.		
Municipality		Postal code Province			E-mail			
Telephone number		Fax		Cell number				
( )		( )			( )			
Fixtures				Stacks and V	ents			
Item	No. of Units	Item	No.	Diameter	Ma	nterial		
Water Closets		Soil Stacks						
Kitchen Sinks		Vent Stacks						
Wash Tubs		Rain Water Leader						
Basins		Waste Pipes						
Bathtubs		Hose Drain						
Urinals								
Hot Water Tank								
Others								

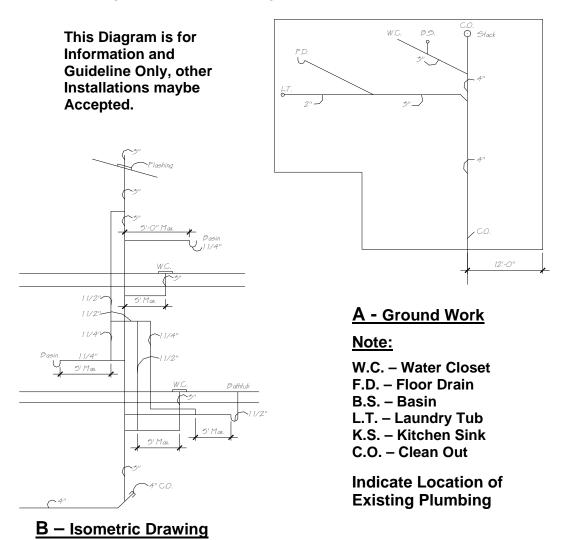
#### E. Attachments

- i. Attach documents establishing compliance with applicable law as set out in Article 1.1.3.3.
- ii. Attach Schedule 1 for each individual who reviews and takes responsibility for design activities.
- iii. Attach types and quantities of plans and specifications for the proposed construction or demolition that are prescribed by the by-law, resolution, or regulation of the municipality, upper-tier municipality, board of health or conservation authority to which this application is made.

		this application is made.	
F.	De	Declaration of applicant	
I		(print name)	certify that:
	1. 2.	<ol> <li>The information contained in this application, attached schedules, attached plans and specific documentation is true to the best of my knowledge.</li> <li>I have authority to bind the corporation or partnership (if applicable).</li> </ol>	cations, and other attached
		Date Signature of applicant	

Personal information contained in this form and schedules is collected under the authority of subsection 8(1.1) of the *Building Code Act, 1992*, and will be used in the administration and enforcement of the *Building Code Act, 1992*. Questions about the collection of personal information may be addressed to: a) the Chief Building Official of the municipality or upper-tier municipality to which this application is being made, or, b) the inspector having the powers and duties of a chief building official in relation to sewage systems or plumbing for an upper-tier municipality, board of health or conservation authority to whom this application is made, or, c) Director, Building and Development Branch, Ministry of Municipal Affairs and Housing 777 Bay St., 2nd Floor. Toronto, M5G 2E5 (416) 585-6666.

## **Diagram of Plumbing Installation**



Schedule 1: Designer Information
Use one form for each individual who reviews and takes responsibility for design activities with respect to the project

A. Project Information	vs and takes res	sponsibility for design a	detivities with respect to th	е ргојеск.		
Building number, street name			Unit no.	Lot/con.		
		I 5:				
Municipality	Postal code	Plan number/ other of	description			
B. Individual who reviews and takes	responsibili	ty for design activit	ties			
Name		Firm				
Street address			Unit no.	Lot/con.		
Municipality	Postal code	Province	E-mail	·		
Telephone number	Fax number	1	Cell number			
( )	( )		( )			
C. Design activities undertaken by i			<u>_</u>	_		
House		– House	☐ Building St			
☐ Small Buildings☐ Large Buildings		g Services	Plumbing -			
☐ Large Buildings☐ Complex Buildings	■ Detection ■ Fire Properties	on, Lighting and Powe		wage Systems		
Description of designer's work	<u> </u>	Diection	Un-site de	wage Systems		
Becomplien of designer a work						
D. Declaration of Designer						
1			declare that (choose	one as appropriate):		
(print name	e)		`	,		
"						
☐ I review and take responsibility Building Code. I am qualified, Individual BCIN:	and the firm is r	egistered, in the appro				
Firm BCIN:						
☐ I review and take responsibility designer" under subsection 2.  Individual BCIN:	17.5. of the Buil	ding Code.	in the appropriate catego	ry as an "other		
marviduai Bonv.						
Basis for exemption from	registration:					
☐ The design work is exempt fro	m the registration	on and qualification rea	suiromants of the Duilding	Codo		
The design work is exempt from the registration and qualification requirements of the Building Code. Basis for exemption from registration and qualification:						
I certify that:	. ogiotiation and	quaiiiouiioii				
The information contained in this s	chadula is truc t	to the heet of my know	ladaa			
I have authority to bind the corporations of the corporation of t		<del>-</del>	ioug <del>o</del> .			
2. Thave authority to bind the corpora	mon or parmers	ilip (ii applicable).				
Date		Signature of Designer		<del></del>		
Dato		Signature of Designer				

\*For the purposes of this form, "individual" means the "person" referred to in Clause 2.17.4.7.(1)(d), Article 2.17.5.1. and all other persons who are exempt from qualification under Subsections 2.17.4. and 2.17.5.

#### NOTE:

- Firm and Individual BCIN numbers are not required for building permit applications submitted prior to January 1, 2006
- Schedule 1 does not need to be completed by architects, or holders of a Certificate of Practice or a Temporary License under the Architects Act.



# Development Services Department Building Division

Office Use Only:	
Application #:	
Date received:	

Note: This form is to be accompanied by the following documentation:

- Ministry of Environment (MOE) Well Record permit copy\*
- Site plan showing well refer to Township of Gillies outline
- Township of Gillies Certificate of Water Quantity\* completed by a licenced Water Well Technician

(\* Note – where the Quantity pump test data/certificate (MOE record or Township of Gillies form) is more than 3 years old, it must be accompanied by a valid (updated) Township of Gillies Water Well Quantity Test form)

Please be advised the Township of Gillies does NOT REVIEW water quality results pertaining to water from private groundwater wells. Applicants for building permits are advised that educational material is available from various sources regarding the testing of water quality. Home builders and home-purchasers can use test results to pursue treatment and/or filtration options to determine what, if anything, needs to be implemented to make the well water suitable for domestic use and consumption.

implement	mplemented to make the well water suitable for domestic use and consumption.						
	<u>Declarati</u>	ion – Responsibility for Qual	ity of Well Water				
	please print only (as applicable) able to bi	, am the person, or authorized r ind the party causing the construction of a ent is provided in support of, as it applies	dwelling unit which is the subject of the				
Municip	al address or where none assigned	d, legal description – Note: must describe the specific piec	re of property on which the well exists ,				
and declare t	he following:						
• the att	eached MOE Well Record	d applies to t	he above-mentioned property,				
well w water	vater. It is understood the from this well by obtaining	aware the Township of Gillies is not involute at I/we must make the necessary determining and using test results from properly certain to provide a potable water supply to serve	ations about the feasibly of treating the rtified laboratories and investigating				
and, (choose o	only one of the following	)					
g g g	I am a Tarion Homebu I am the building perm	er and building permit applicant, all of the home served by this whit applicant that will become the property ater supply to the dwelling unit using the a	owner and have responsibility for				
	Print Name	Signature	Date				



## Development Services Department

Office Use Only: Application Type:	
Application #:	-
Date received:	_

## **GROUNDWATER WELL QUANTITY CERTIFICATE**

This form is intended for use in an application applying to a SINGLE FAMILY DWELLING UNIT ONLY. This information is considered valid for the purpose of obtaining a building permit for not more than 3 years from date of test.

This form is	s to be completed by th	ie Water V	Well Technicia	n resnonsih	le for testin	g to determ	ine the quantity of	water
	the groundwater well fo			-			-	
for a building	permit to construct a no	ew dwellin	g unit that will	be serviced	from this w	ell.		
Property Loc	Cation: Municipal address or	where none as	ssigned, legal descrip	tion – Note: mu	st describe the s	pecific piece o	f property on which the we	 Il exists
	ty Test Performed:			Month – Da				
Well Type:	Drilled	or	Dug					
MINIMUM I	PUMPING CAPACIT	Y in 1 <sup>st</sup> H	<u>our</u>					
	well was pumped at no l of 240 gallons (1,080 lit						hour for a minimum	m
RECOVERY	Y (SUSTAINED) YIEI	D immed	iately after 1st	<u><b>Hour</b></u> – Ch	oose the app	propriate b	ox below	
g g	For DUG OR DRILI recovered at an avera For DRILLED WEL (4.5 litres/ minute) in	age rate of LS ONLY	no less than 2 g	gallons/minuvered at an	ite (9 litres/	minute).		
Does the grou	undwater well meet or e	xceed the a	above criteria?	Ŋ	Yes	No		
Please report	minimum recommende	d pump rat	e.		gal/min	or	litres/min	
Please report	recovery rate on this da	te.			gal/min	or	litres/min	
		Licence	ed Well Techr	nician Dec	<u>laration</u>			
I,	Please Print Name							am a
Signati	ure of Licenced Well Technicia		Lic	cence Number			Date	



# Development Services Department

Office Use Only: Application Type:	
Application #:	
Date Received:	

## WELL LOCATION SITE PLAN

Sita 1	nlan	tο	incl	ahu	the	falla	wing:
one i	Dian	w	шсі	uue	uie	10110	յալը։

Site plan to ii	nclude the following:		
0	J 1		
0	1 1 2		
0	J		
0			
0	$\mathcal{E}$		
	<ul> <li>property lines</li> </ul>		
	<ul> <li>closest building/s on same property</li> </ul>		
Answer the fo			
0	Is there a driveway serving this property?	Yes	No
	If Yes show on sketch with dimensions		
0		Yes _	No
	If Yes show on sketch with dimensions		
Property Loc	Municipal address or where none assigned, legal description – Note: must describe the specific		
	Municipal address or where none assigned, legal description – Note: must describe the specific	piece of property on which	h the well exists

# **Mechanical Ventilation Design Review Form**

Heat Recovery Ventilator Systems

To Be Completed & Submitted With The Building Permit Application

Fo	or use by Prii	ncipal Author	rity		
Application No.:		Permit No. (if diffe	erent):		
Date Received:		Roll No.:			
Application submitted to: Township of Gillies, 1092 F	lighway 595, Kak	abeka Falls, ON,	P0T 1W0		
A. Project Information					
Building number, street name				Unit number	Lot/con.
Municipality	Postal Code		Plan number/othe	er description	
Purpose Use of Building:					
B. Applicant Applicant is:	Owner or	☐ Autho	rized agent of ov	wner	
Last name	First Name		Corporation or pa	rtnership	
Street addres				Unit number	Unit number
Municipality	Postal Code		Province	E-mail	•
Telephone number Fa	ax			Cell number	
C. Type of Building					
1.) Detached 2.) Row		3.) Multi-Re	esidential	4.) Other	
D. Type of Heating System(s)					
Forced Air Baseboard		Other		Solid Fue	I Appliances
Gas		Other			
Type II (1)		Type III (1	1)		
E. Hot Water Source					
Gas Other  Type I (1) Type II (1)		Type III (1	1)		
F. Combustion Air					
Provide Details					
G. Type of Equipment Applied H.R.V. (Certified to C.s Manufacturer	S.A C.22.2 No. 113 ar	nd Performance Tested	to CSA c439/H.V.I.)		
Brand Name			Model No.		
			Wodel No.		
H. Type of Controls					
Dehumidistat With					
1.) Interval Timers 2.) Manually Operated Switch				cent to "circulation fan" note control unit acceptab	ole
I. Type of Defrost					
1.) Detached 2.) Bypass	3.) Recircul	ation		4.) Other	
J. Distribution System					
1.) Separate/Dedicated (Duct Size and Layout Drawing Require	ed) <sup>(3)</sup>	2.) Integrated	I with Furnace (Direc	t Connection to R/A Syst	tem Required) (4)
Manufacturer			Model No.		
BTU/1000 Output			Design Static Pre	ssure Diff. of R/A Plenun	n (Pa)
Multi Speed Fan Yes No  Continuous Operation Yes No  Preheating Required Yes (Watts) No				e forced air heating/cc CIRCULATION FAN".)	

		A) 'Rooms'		9	<u>Or</u>	B) Exhaust \	Ventilation C	ontinuous		
			L/s	cfm				L	_/s (	cfm
Bsmt. & Mas	ter Bdrm.	@ 10 L/s (20 cfm)			Kitchens		@ 30 L/s (60	cfm)		
Other Bedroo	oms	@ 5 L/s (10 cfm)			Bathrooms					
athrooms &	Kitchen	@ 5 L/s (10 cfm)						otal		
Other Habita	ble Rooms	@ 5 L/s (10 cfm)								
		Total			Minimu	m Supply Required	(5)			
						,				
Outs	ide Vented Mo	echanical Exhaust	System		•					
		L/s	cfm	1				L/s	cf	m
Clothes	Dryer (Default 160 o				Bathro	om (Default 50 cfm	)			
=	Vacuum	,			Other		,			
=	Range Hood (Defau	It 100 cfm)	_				Total			
_	3(		_							
I. Reli	ef/Makeup Air	Required Provide detail	s how Relief/Mak	keun Air is ac	hieved					
I. CSA	F326 House I	Pressure Limits								
For house	es with non-direct ve	nt combustion appliances.			2. For houses w	vith only direct vent	combustion appli	iances.		
_					•				_	
/	Not Allowed	Good	Not Allowe	ed	No lir	nit on intermittent	Goo	d No	ot Allowed	>
7					<u> </u>					
	5 Da or limit	defined by	) Pa		7	10 Pa Continuo	NIE.	10 Pa		
		r of heating equipment	) Pa		7	-10 Pa Continuo	ous	10 Pa		
		r of heating equipment	) Pa		7	-10 Pa Continuo	ous	10 Pa		
	maunufacture (not more tha	r of heating equipment			7	-10 Pa Continuo	ous	10 Pa		
	maunufacture (not more tha	er of heating equipment n -10 Pa)	ı test.	t fan for inte	ermitten (Reference Ex			10 Pa		
	maunufacture (not more tha	r of heating equipment n -10 Pa) Include all ventilation fans ir Also include the dryer and t	ı test.	t fan for inte	ermitten (Reference Ex			10 Pa		
D. Add	maunufacture (not more tha	r of heating equipment n -10 Pa) Include all ventilation fans ir Also include the dryer and t	ı test.	t fan for inte	ermitten (Reference Ex			10 Pa		
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	maunufacture (not more tha  Note: endum To Ap  Combustion A	r of heating equipment n -10 Pa) Include all ventilation fans ir Also include the dryer and toplication  pplication	ı test.	t fan for inte	ermitten (Reference Ex			10 Pa		
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lote (1)	maunufacture (not more that Note:	r of heating equipment n -10 Pa)  Include all ventilation fans in Also include the dryer and topication  pplication  ppliance Category al Draft Type and Draft Type and Unit or Non-Fuel Burn	n test. ne next largest	es	ermitten (Reference Ex			10 Pa		
lote (1)	maunufacture (not more that Note:	r of heating equipment n -10 Pa)  Include all ventilation fans in Also include the dryer and topication  pplication  ppliance Category  al Draft Type  sed Draft Type	n test. ne next largest	es	ermitten (Reference Ex			10 Pa		
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O. Add Note (1) Note (2) Note (3)	maunufacture (not more that Note:	r of heating equipment n -10 Pa)  Include all ventilation fans in Also include the dryer and topication  pplication  ppliance Category al Draft Type and Draft Type and Unit or Non-Fuel Burn	n test. ne next largest ing Appliance	es stion air.		thaust) pressure me		10 Pa		
Note (1) Note (2)	maunufacture (not more that Note:	Include all ventilation fans in Also include the dryer and the plication  pplication  ppliance Category  al Draft Type  and Unit or Non-Fuel Burn  iance must have provision  ontario Building Code has  ent assumes that all furna	in test. The next largest ing Appliance ins for combu	es stion air. provisions	for dedicated syster	thaust) pressure me	easurement.		the	
Note (1)	maunufacture (not more that Note:	Include all ventilation fans in Also include the dryer and the plication  pplication  ppliance Category  al Draft Type  and Unit or Non-Fuel Burn  iance must have provision  ontario Building Code has  ent assumes that all furna	in test. The next largest ing Appliance ins for combu	es stion air. provisions	for dedicated syster	thaust) pressure me	easurement.		the	
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BUILDING PERMITS MUST BE OBTAINED BEFORE YOU START WORK ON A NEW HOUSE, OR AN ADDITION, OR ANY ALTERATIONS TO AN EXISTING HOUSE WHICH ARE SIGNIFICANT IN NATURE, PERMITS ARE GEARED TO THOSE PROJECTS WHERE HEALTH & SAFETY MATTERS ARE INVOLVED, AND EXIST TO PROTECT YOU OTHER HOMEOWNERS BUILDING OCCUPANTS FUTURE OWNERS AND THE COMMUNITY

#### WHEN DO I NEED A PERMIT?

CONTACT YOUR LOCAL MUNICIPAL OFFICES FOR SPECIFIC PERMIT REQUIREMENTS FOR ANY PARTICULAR PROJECT.

PERMITS ARE NORMALLY REQUIRED FOR:

Building any detached structure larger than 108 ft. 2 Building any addition to your home Raised porches or decks Carports or garages

Structural alterations Moving or lifting your house Installing a wood stove or fireplace Partitioning a basement or adding a basement entrance

Creating an apartment in your house Altering or adding any plumbing Demolishing a house

PERMITS ARE NOT NORMALLY REQUIRED FOR: Detached structures 108 ft. <sup>2</sup> or less in area

Decks which are at or close to grade Replacement of windows, doors, roofing or siding New interior wall, floor or ceiling finishes Repairs to chimneys, porches, decks or roofs Waterproofing repairs to a basement Replacement of plumbing fixtures

Replacement of a furnace

#### HOW DO LIGET A PERMIT?

- 1. Prepare drawings which accurately and to scale describe the construction you propose. Standard technical details are available at your local municipal offices to assist in the preparation of your plans. The attached sample plans are an example of the scope of drawings usually required for an addition to a house. THESE DRAWINGS ARE NOT INTENDED FOR USE IN YOUR PERMIT APPLICATION. It is usually advisable to verify with your local municipal offices that your proposed site plan will meet local zoning standards before you prepare the complete construction plans.
- 2. Visit your local municipal offices, and complete a building permit application.
- 3. Provide the required number of copies (usually 2 or 3) of the construction drawings, including a site plan.
- 4. Pay the permit fee.

#### WHEN WILL I GET THE PERMIT?

Your permit will usually be issued promptly if your drawings are complete and the proposed construction meets local zoning standards, the Ontario Building Code and the the requirements of other agencies such as the Conservation Authority.

#### WHAT DO I HAVE TO DO AFTER I GET THE PERMIT?

Review your approved permit drawings before you start work, and keep them on the project site You can The permit must be posted in a conspicuous place on your property prior to starting work. commence construction any time after obtaining the permit and your permit will remain valid for a minimum of six months. Local utilities such as hydro, gas and telephone operate independently from your municipality and should be contacted regarding their specific approval and inspection requirements. All utilities must be contacted prior to commencing any excavation to determine the location of any nearby underground services.

Inspection requirements are normally noted on your permit drawings or the permit itself and must be arranged by calling the municipal building inspection offices prior to covering the work. For a house addition, an inspection is usually required for footings & foundations, structural framing, plumbing, insulation and vapour barriers and a final inspection before using the new space. Smaller projects such as decks, garages and minor alterations will usually involve fewer inspections.

If changes to the approved work are anticipated, speak with the inspector to determine if a revision to your permit is required. PLEASE REMEMBER TO WORK SAFELY!



A GUIDE TO BUILDING PERMITS

DWG NO A01 07-08

#### CONSTRUCTION SPECIFICATIONS

#### (1) BRICK VENEER WALL

4" FACE BRICK, 1" AIR SPACE
0.03 THICK X 7/8" WIDE
GALVANIZED METAL TIES
INSTALLED W/ GALVANIZES
SPIRAL NAILS OR SCREWS
2" EATH HOLD STANDAY
1" OVERLAP AIR OF STANDAY
1" OVERLAP AIR OF STANDAY
2" AIR OF STANDAY
1" OVERLAP AIR OF STANDAY
1" AIR OF

#### 2 FOUNDATION WALL

BITUMINOUS DAMPPROOFING ON MINIMUM 1/4" PARGING ON CONCRETE BLOCK FDN. WALL TOP BLOCK COURSE FILLED W. MORTAR OR CONCRETE PROVIDE PARGING COVED OVER 18"X 6" POURED CONC. FOOTING TO BEAR ON UNDISTURBED SOIL PROVIDE DRAINAGE LAYER INSULATION W/ A DENSITY OF NOT LESS THAN 3.6 BL./FT. OR MIN. 4" OF FREE DRAINING GRANULAR MATERIAL OR - A B.M.E.C. APPROVED DRAINAGE LAYER MATERIAL

#### (3) BRICK VENEER @ FDN. WALL

20 MIL POLY FLASHING MINIMUM 6" UP BEHIND SHEATHING PAPER WEEP HOLES @ MIN. 2'-7" APART

#### ⟨₄⟩ GRADE

SLOPE GRADE AWAY FROM BUILDING FACE & PROVIDE SEMI-SOLID BLOCK COURSE AT OR BELOW GRADE LEVEL

#### 5 SILL PLATE

2"X6" SILL PLATE FASTENED TO FOUNDATION WALL WITH MIN. 1/2" DIA. ANCHOR BOLTS EMBEDDED MIN. 4" IN CONCRETE @ 7"-10" O/C. MAX. & PROVIDE CAULKING OR GASKET BETWEEN PLATE & FOUNDATION WALL

#### FLOOR INSULATION

CONTINUOUS HEADER JOIST WITH R 17 BATT INSULATION, EXTEND VAPOUR / AIR BARRIER & SEAL TO JOIST AND SUBFLOOR

#### **7** FOUNDATION INSULATION

1/2" INTERIOR DRYWALL FINISH 2"X3" WOOD STRAPPING @ 16" O/C. MIN. R8 INSULATION W/ 6 MIL POLY AIR / VAPOUR BARRIER FULL HEIGHT. MOISTURE BARRIER TO HEIGHT OF EXTERIOR GRADE BETWEEN FOUNDATION WALL & WOOD FRAMING

#### 8 BASEMENT SLAB

3" POURED CONCRETE SLAB (3600 PSI CONC. STRENGTH) 4" CRUSHED STONE BELOW

#### 9 DRAINAGE

4" DIA. WEEPING TILE W/ 6" CRUSHED STONE COVER

#### (10) ROOF CONSTRUCTION

20 YEAR ASPHALT SHINGLES ON MIN. 3/8" EXTERIOR PLYWOOD SHEATHING ON APPROVED ROOF TRUSSES OR CONVENTIONAL FRAMING (SEE PLANS) USE 'H' CLIPS IF 24" O.C. SPACING

#### (11) OVERHANG CONSTRUCTION

PREFINISHED ALUMINUM FASCIA, EAVESTROUGH & RAIN WATER LEADERS TO MATCH EXISTING FINISHES. PROVIDE DRIP EDGE AT FASCIA & VENTED SOFFIT EXTEND DOWNSPOUTS TO GRADE LEVEL

#### (12) ROOF VENTILATION

1:300 OF THE INSULATED CEILING AREA UNIFORMLY DISTRIBUTED.

#### (13) EAVES PROTECTION

EAVES PROTECTION MEMBRANE TO EXTEND FROM THE EDGE OF THE ROOF, 36" UP THE SLOPE BUT NOT LOSS THAN 12" BEYOND THE INTERIOR FACE OF THE EXTERIOR WALL

#### (14) CEILING CONSTRUCTION

5/8" INTERIOR DRYWALL FINISH CONTINUOUS AIR / VAPOUR BARRIER W/ MINIMUM R 31 BATT INSULATION

#### (15) WALL/CEILING INSULATION

CARRY MIN. R12 INSULATION TO COVER THE INTERIOR FACE OF THE EXTERIOR WALL

#### (16) FLOOR CONSTRUCTION

5/8" T&G PLYWOOD SUBFLOOR 2X8 FLOOR JOISTS @ 16" O/C. FLOOR JOISTS BRIDGED W/ CONTINUOUS 1"X3" STRAPPING OR 2 ROWS OF 2"X2" CROSS BRIDGING OR SOLID BLOCKING

#### (17) INTERIOR STUD PARTITION

1/2" DRYWALL FINISH BOTH SIDES OF 2"X4" WOOD STUDS @ 16" O/C 2 TOP PLATES & 1 BOTTOM PLATE PROVIDE SOUND ATTENUATION INSULATION IN BATHROOM WALLS & WHERE INDICATED ON PLAN

#### MECHANICAL VENTILATION

PROVIDE MIN. 1 AIR CHANGE PER HOUR IN ROOMS SPECIFIED TO BE MECHANICALLY VENTED 80 CFM FOR BATH PRIMARY VENTS

#### (19) STAIRS INTERIOR/EXTERIOR

MAXIMUM RISE = 7 7/8\*
MINIMUM RISE = 4 7/8\*
MINIMUM RISE = 8 1/4\*
MAXIMUM RUN = 8 1/4\*
MAXIMUM RUN = 14\*
MAXIMUM TREAD = 9 1/4\*
MAXIMUM TREAD = 14\*
MAXIMUM NOSING = 1\*
MINIMUM WIDTH = 2\*-10\*
MINIMUM WIDTH = 2\*-10\*

#### (20) GUARDS

3'-6"

DECK TO GRADE IS:
GREATER THAN 5'-11" =
5'-11" OR LESS
NO MEMBER OR ATTACHMENT
BETWEEN 4" & 2'-11" HIGH
SHALL FACILITATE CLIMBING

#### (21) ATTIC ACCESS

PROVIDE ATTIC ACCESS MIN. 20"X 28" W/ INSULATION & WEATHER STRIPPING

#### (22) PIERS

PROVIDE 8" DIA. SONO TUBE FOR POURED CONCRETE PIERS MINIMUM 4'-0" BELOW GRADE

- 23 EXISTING SOLID MASONRY EXTERIOR WALLTO REMAIN.
- 3 1/2" DIA. PIPE COLUMN W/ 6X6X3/8" TOP & BOTTOM PLATE 38"X38"X16" CONCRETE FOOTING
- 25 EXISTING FLOOR STRUCTURE

TO REMAIN.

- 26 EXISTING CEILING STRUCTURE TO REMAIN.
- 27) REMOVE EXISTING EXTERIOR WALL AS SHOWN DOTTED
  28) REMOVE EXISTING INTERIOR STUD
- PARTITIONS AS SHOWN DOTTED

  PARTITIONS AS SHOWN DOTTED

  REMOVE EXISTING ROOF OVERHANG AS SHOWN DOTTED
- (30) REMOVE EXISTING FOUNDATION WALL
- (31) REMOVE EXISTING WINDOW & FRAME MAKE GOOD OPENING W/ BRICK TO MATCH EXISTING ON THE EXTERIOR
- 32 INSTALL A CARBON MONOXIDE DETECTOR CONFORMING TO CAN/CGA-6.19 OR UL 2034



A GUIDE TO BUILDING PERMITS
SAMPLE DRAWINGS: Construction Specifications

A small housing addition will usually require the submission of the following drawings. All drawings must be accurately drawn to scale, in ink.

#### SITE PLAN

A SITE PLAN is a drawing showing the complete property and identifying all structures in relation to the property boundaries. It should include:

- Scale
- North arrow
- . Lot lines & dimensions
- \* Existing & proposed construction & dimensions
- Setbacks & lot lines
  - Proposed changes to existing grade

#### FLOOR PLANS

A FLOOR PLAN is a drawing of the structure as seen as if it is cut horizontally a few feet above the floor lines. One floor plan is required for every floor of the house which is affects which is affect when construction. Each plan shows the interior layout of the level in question as well as providing the structural framing information for the floor or rord above. Floor plans should include:

- Scale
- Use of rooms & spaces
- Dimensions
- \* Extent of new construction including new work within existing building
- . Size, type and location of exterior and interior walls and partitions
- . Widths, locations and lintel sizes of all openings
- · Location, dimensions and direction of stairs
- Sectional arrows
- · References to detailed drawings
- Material specifications or notes
- · Heating details and calculations

#### **ELEVATIONS**

ELEVATIONS show the exterior view of each side of the house. Each elevation is identified by the direction it is facing, and should include:

- Scale
- \* Extent of new & existing construction
- · Vertical dimensions of walls, windows & doors
- . . . . .
  - Exterior wall cladding, finishes & flashing
- Overhang dimensions
- · Roof shape, slope & finish
- Rain water leader & eavestrough

#### SECTIONS and DETAILS

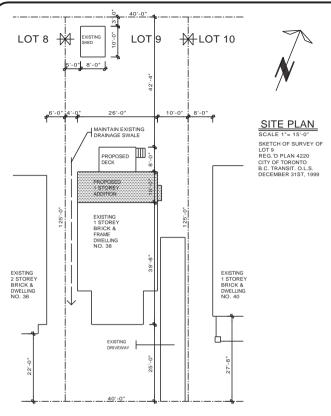
A SECTION represents a view of the house along an imaginary line at a particular location, & illustrates construction details. The extent of the sections should correspond with the sectional arrows shown on the plans. Sections should indicate the following:

- Scale
- Details of footings, foundations, walls, floors & the roof
- . Distance from grade to floor & underside of footing
- Attic & crawl space ventilation

At times a specific aspect of the project may require specific details. An inventory of standard construction details is available from your local municipal offices, which can be used to augment your plans.



A GUIDE TO BUILDING PERMITS DRAWING REQUIREMENTS FOR A RESIDENTIAL ADDITION A02



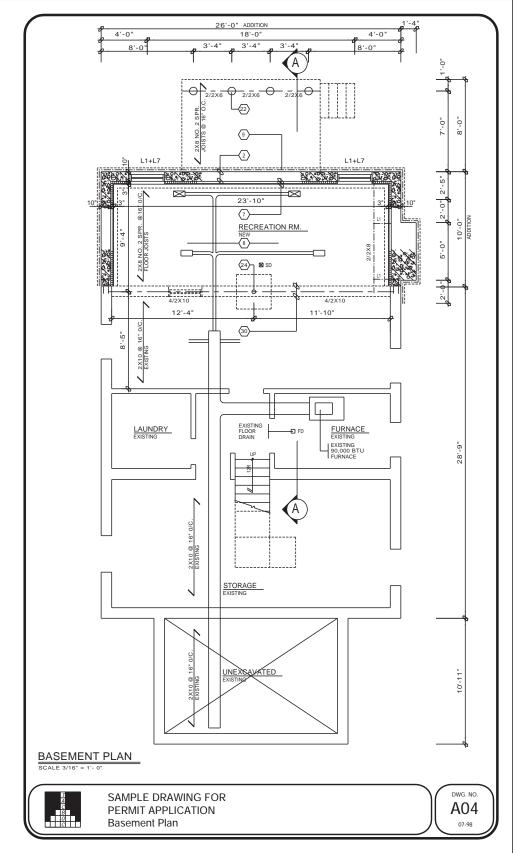
#### KHALMUR CRESCENT

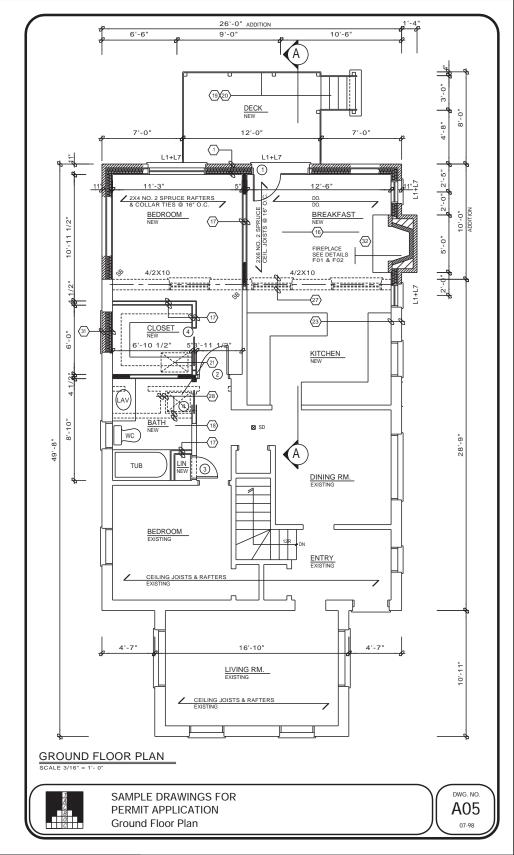
ZONING R2 Z0.6		LOT NO: LOT 9		PLAN NO: LOT AREA LOT FRONTAGE 4220 6250.00 S.F. (580.64) 50.00' (15.24)			LOT DEPTH 125.00' (38.10)					
DESCRIPTION	Eλ	ISTING	ADDITION		TOTAL	%	ALLOWED	%	SETBACKS	EXIST	ING	PROPOSEL
LOT COVERAGE		.26 S.F. .52)	260.00 S.F. (24.15)		1191.00 S.F. (110.65)	19.0		-	FRONT YARD	25'-0" (7.62)		25'-0" (7.62)
GROSS FLOOR AREA		.26 S.F. .52)	260.00 S.F. (24.15)		1191.00 S.F. (110.65)	19.0	3750.00 S.F. (348.39)	60.0	REAR	60'-4"		42'-4"
LANDSCAPED AREA					<b>-</b>			-	YARD (18.3			(12.90)
NO. OF STORIES HEIGHT		STOREY 11" (4.55)	1 STOREY 14'-11" (4.55	i)	1 STOREY 14'-11" (4.55)		32'-10" (10	0.00)	INTERIOR SIDE (east)	10'-0" (3.50)		10'-0" (3.50)
WIDTH	26' (7.9	-	26'-0" (7.93)		26'-0" (7.93)				INTERIOR SIDE (west)	4'-0"		4'-0"
DEPTH	39'	-8" .09)	10'-0" (3.50)		49'-8" (15.14)		55'-9" (17.00)		EXTERIOR	(1.20)		(1.20)
PARKING							(17.00)		EXTENSOR			

NOTE: ZONING RESTRICTIONS VARY IN EVERY MUNICIPALITY. CONTACT YOUR LOCAL MUNICIPAL OFFICE FOR SPECIFIC SETBACKS AND OTHER LIMITATIONS IN YOUR AREA.



A SAMPLE DRAWING FOR PERMIT APPLICATION Site Plan & Zoning Information DWG. NO.
A03







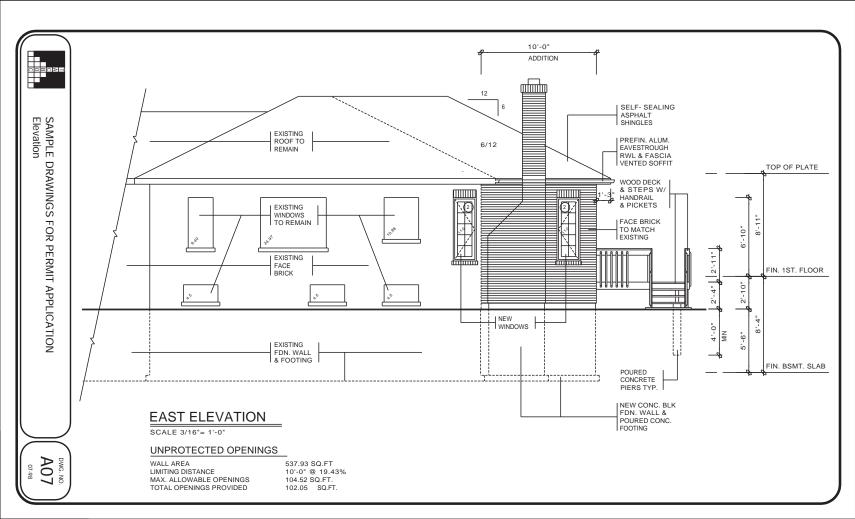
SAMPLE DRAWINGS FOR PERMIT APPLICATION Elevation

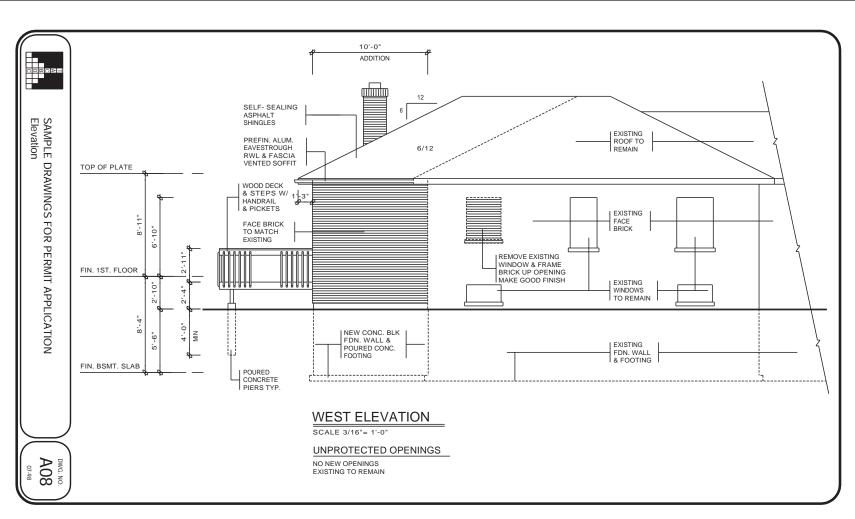
A06

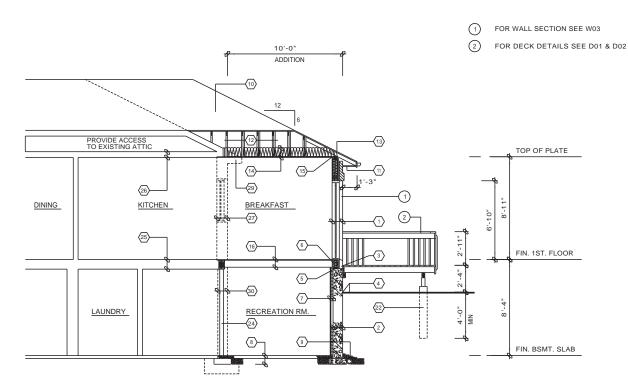
SELF- SEALING ASPHALT SHINGLES 12 ROOF SADDLE BRICK METAL SOLDIER FLASHING COURSE 1" PROJ. TOP OF PLATE PREFIN. ALUM. EAVESTROUGH RWL & FASCIA VENTED SOFFIT 8'-11" WOOD DECK 6'-10" & STEPS W/ HANDRAIL & PICKETS FACE BRICK FIN. 1ST. FLOOR TO MATCH **EXISTING** 4'-0" MIN NEW CONC. BLK 9-.9 FDN. WALL & POURED CONC. FOOTING FIN. BSMT. SLAB NEW POURED CONCRETE PIERS

## NORTH ELEVATION

SCALE 3/16"= 1'-0"







SECTION 'A-A'

SCALE 3/16"= 1'-0"

A09

RO	OM FINISH :	SCHEDU	LE								
RM.	ROOM	FLOOR		BASE		WALLS		CEILING			REMARKS
NO.	NAME	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	MATERIAL	FINISH	HEIGHT	
	FIRST FLOOR										
1	KITCHEN	CERAMIC TILE		WOOD	PAINT	DRYWALL	PAINT	DRYWALL	PAINT	8'-11"	
2	BREAKFAST	WOOD	STAIN	WOOD	PAINT	DRYWALL	PAINT	DRYWALL	PAINT	8'-11"	MAPLE TO MATCH EXISTING
3.	BEDROOM	WOOD	STAIN	WOOD	PAINT	DRYWALL	PAINT	DRYWALL	PAINT	8'-11"	MAPLE TO MATCH EXISTING
4.	CLOSET	WOOD	STAIN	WOOD	PAINT	DRYWALL	PAINT	DRYWALL	PAINT	8'-11"	MAPLE TO MATCH EXISTING
5.	BATH	CERAMIC TILE		WOOD	PAINT	DRYWALL	PAINT	DRYWALL	PAINT	8'-11"	
	BASEMENT										
(9)	REC. ROOM	CONC.	CERAMIC TILE	WOOD	PAINT	DRYWALL	PAINT			7'-8"	

_									
DC	DOOR SCHEDULE								
NO.	TYPE	SIZE	QTY.	REMARKS					
1	EXTERIOR	5'-0"X 6'-8"	1.	FRENCH DOOR					
2	SLAB	2'-6"X 6'-8"	1.	800 SERIES					
3.	SLAB	2'-0"X 6'-8"	1.	800 SERIES					
4.	POCKET DOOR	2'-0"X 6'-8"	2.						

L1	NTEL SCHEDULE	LEGE	<u>ND</u>
NO.	DESCRIPTION	WD	
(1)	2-2X8 SPRUCE	€WP	DUPLEX OUTLET ( WEATHERP
12	3-2X8 SPRUCE	⊕-∞	DUPLEX OUTLET ( HGT. ABOVE DUPLEX OUTLET ( 12" ABOVE
(3)	2-2X10 SPRUCE	•	EXHAUST FAN
(4)	3-2X10 SPRUCE	<del>-01</del>	SWITCH
(L5)	2-2X12 SPRUCE	₩ <sup>HB</sup>	HOSE BIB
(L6)	3-2X12 SPRUCE		SMOKE DETECTOR
(7)	3 1/2"X 3 1/2"X 1/4" L	•	HEAVY DUTY OUTLET
(18)	3 1/2"X 3 1/2"X 5/16" L	ф-	LIGHT FIXTURE ( WALL MOUN
(B)	4"X 3 1/2"X 1/4" L	¤	LIGHT FIXTURE ( CEILING MOU
$\vdash$		Ø	POT LIGHT FIXTURE
$\vdash$		®	LIGHT FIXTURE ( WATER RESI
$\vdash$		0	LIGHT FIXTURE ( CAPPED )
		FL	FLUORESCENT LIGHT FIXTURE

WI	ONE WINDOW PER FLOOR TO HAVE AN UNOBSTRUCTED OPEN PORTION W/ A MIN. AREA OF 0.35m2 W/ NO DIMENSION LESS THAN 380mm & MAXIMUM SILL HEIGHT OF 1M ABOVE FLOOR								
NO.	TYPE	SIZE	QTY.	REMARKS					
1	CASEMENT	5'-0"X 5'-0"	1.						
2	CASEMENT	2'-0"X 5'-0"	2.						
3.	SLIDER	3'-0"X 1'-6"	2.						
4.									
(5.)									
6.)									

#### LEGEND

DUPLEX OUTLET ( WEATHERPROOF ) ● DUPLEX OUTLET ( HGT. ABOVE FLR. ) DUPLEX OUTLET ( 12" ABOVE FLR. )  $\rightleftharpoons$ lacksquareEXHAUST FAN SWITCH ₩HB HOSE BIB SMOKE DETECTOR HEAVY DUTY OUTLET Ď-LIGHT FIXTURE ( WALL MOUNTED ) LIGHT FIXTURE ( CEILING MOUNTED ) ® POT LIGHT FIXTURE ® LIGHT FIXTURE ( WATER RESISTANT ) 0 LIGHT FIXTURE ( CAPPED )

**8**60 SOLID WOOD BEARING ☐ FD FLOOR DRAIN ◀ TV CABLE OUTLET ◁ TELEPHONE OUTLET O

COMPUTER OUTLET DE DRYER EXHAUST



# Letter of Authorization

Date:	
Owner(s) Name(s):	
Address:	
Phone Number:	
Attention: Chief Building Official	
Subject: Letter of Authorization	
Re: Lot:	
Plan:	
Township of Gillies	
Dear Sir:	
Please be advised that h	nas the authority
to apply for a Building Permit on the above-mentioned lot.	
Do not hesitate to contact me personally if there are any fu	rther questions.
	and questions
Yours truly,	
Owner(s) Name(s)	