



Lumsden Municipal Office
PO Box 160
300 James St N
Lumsden, SK S0G 3C0
Phone: (306) 731-2404
Fax: (306) 731-3572
Email: rm189@sasktel.net
Website: www.lumsden.ca

RESIDENTIAL DEVELOPMENT & BUILDING PERMIT PACKAGE

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DEVELOPMENT PERMIT

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TOWN OF LUMSDEN DEVELOPMENT INFORMATION

Lumsden Municipal Office
PO Box 160
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Development Permits

A Development Permit is a document issued by the Town of Lumsden to authorize development ¹.

A Development Permit does not include a Building Permit.

See Section 3 of the
Town of Lumsden
Zoning Bylaw for more
information.

When is a Development Permit required?

A Development Permit is required before starting any development or construction on a site, any landscaping within an environmentally sensitive area, or a public utility use.

A Development Permit is **not required** for:

1. Accessory buildings with a total area less than 10 m²
2. Fences
3. Moving an accessory building within the same site
4. A temporary building used while constructing another building that has a building permit
5. Temporary membrane covered structure for a maximum of seven (7) days
6. Internal alterations to a building, as long as:
 - the use of the building does not change,
 - there is no increase in the number of dwelling units within the building or site,
 - the intensity of the use of the building or site does not change, and
 - that alterations are not structural or have an impact on load bearing walls or beams.
7. Landscaping

To find out if your property is in within an environmentally sensitive area, please see the Environmentally Sensitive Area Maps on the Town of Lumsden website, Building and Development Page.

How do I obtain a Development Permit?

Development Permit applications may be found online at www.lumsden.ca, or at the Town of Lumsden office. Completed applications are submitted to the Development Officer at the office. The Development Officer will review and process the application, determining if the application is for a permitted or discretionary use.

If the application is for a **permitted use** (i.e., a use consistent with Town bylaws and policies), the Development Officer approves the Development Permit.

If the application is for a **discretionary use** (i.e., a use only permitted at Council's discretion), the application is submitted to Council by the Development Officer for approval or refusal of a Development Permit. Please see the Discretionary Use Permit brochure for more information.

If an application is refused, the applicant may submit their application to the Development Appeals Board. An applicant may appeal up to 30 days after the refusal of a development permit.

What should be included in a Development Permit application submission?

1. Development Application Form
2. Site Plan, showing existing and proposed information, with labels

For some applications, additional information may be required, such as:

- Building Plans showing elevations, floor plans, and perspective drawings
- Landscape Plan showing existing topography, vegetation to be retained or removed, etc.
- Vicinity Map to show location of proposed development in relation to surrounding features such as roadways, physical features, etc.
- Certificate of Title to show ownership
- Valid Interest such as proof of ownership, agreement for sale, etc.
- Photographic Information to show site in existing state

How much does a Development Permit Cost?

Development Permit application fees vary depending on the type of proposed development:

Application Type	Cost (\$CAD)
Permitted Principal ² Use	50.00
Permitted Accessory ³ Use	
Permitted Ancillary ⁴ Use	
Discretionary Principal ² Use	100.00
Discretionary Accessory ³ Use	
Discretionary Ancillary ⁴ Use	
Development Appeal Fee	up to 50.00

Please see the Discretionary Use Permit Brochure for more information about permitted and discretionary uses.

How long does a Development Permit last?

A Development Permit is valid for 12 months, unless otherwise stated by a Development Officer.

I've applied for a Development Permit. When should I apply for a Building Permit?

If a Building Permit is required, a Building Permit application may be made after a Development Permit application has been issued.

My Development Permit application was denied. What can I do now?

If a development permit application is denied, the applicant may apply for their application to be considered by the Development Appeals Board. Please see the brochure for the Development Appeals for more information.

Definitions

¹ Development is the carrying out of any building or operations in, on, or over land, or making of any material change in the use or intensity of use or any building, or land.

² Principal Use: the main use of a site

³ Accessory Use: A use secondary, lesser in size extent, and purpose to the principal use, exclusively devoted to, and located on the same site as a principal use.

⁴ Ancillary Use: A use secondary and lesser in size, extent, and purpose to the principal use



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Development Permit Process

See Section 3.4 of the **Town of Lumsden Zoning Bylaw** for more information.

Pre-Application
Schedule a pre-application appointment with a Planner from the Planning and Development Department. The Planner will discuss your proposal with you and inform you if the proposed use is permitted or discretionary.

Application
Complete and submit a Development Permit Application form and site plan to the Planning and Development Department for review and processing

PERMITTED USE

DISCRETIONARY USE

Review
A Planner will process and review the application, checking if the proposed development conforms to the Town of Lumsden Official Community Plan and Zoning Bylaw.

Review
A Planner will write a report to Council regarding the application for presentation to the RM Council.
You will receive notice of the date the report will be considered by Council.

Referrals
If applicable, the Planner may circulate the application to other government agencies for comment.

Notice
Public Notice will be sent out to assessed property owners within a 75 metres radius of the boundaries of the subject property where the development is proposed.

Planner Consideration
Once all necessary information is obtained, the Planner will issue a decision.

Council Consideration
Council will consider the prepared report and make a decision.
You will receive notice of Council's decision.

Approval

Approval with Conditions*

Denial*

* Decisions may be appealed in some instances. Please see the Development Appeals Board brochure for more information.



Residential Development Permit Checklist

Lumsden Municipal Office
 PO Box 160
 300 James St N
 Lumsden, SK S0G 3C0
 Phone: (306) 731-2404
 Fax: (306) 731-3572
 Email: townlumsden@sasktel.net
 Website: www.lumsden.ca

Please use the following checklist to ensure that your development permit application and site plan are complete.

Applications will not be processed unless a satisfactory site plan is submitted.

Completed by Applicant	Office Use Only	Application Requirements
		Copy of Certificate of Title (from ISC)
		Completed application form
		Signatures of all registered owners or completed Letter of Authorization from Registered Owner on Title
		Application fee
Basic site plan – Required for all permits (see sample site plan)		
		North arrow
		Property lines of entire parcel and all adjacent public rights-of way
		Legal land description and civic address, if assigned
		Lot dimension and total area
		Name of road(s) providing access to parcel, accesses, driveway and flare locations including setbacks to property lines and widths
		Location and dimension of existing buildings (labelled as existing)
		Location and dimensions of proposed building (labelled as proposed)
		Setbacks to property lines and between buildings
		Total building footprint and site coverage
		Location of outdoor storage
Hazard Lands		
		Show location of and label type of hazard (slope, wetland, waterbody)
		Show setbacks from any water body or water course measured from top of bank
		Location of and setbacks from steep embankments measured from the top of bank
Easements, Rights-of-Way, Utilities and Facilities		
		Show location of any known easements, rights-of-way, or public utility lines
		Location of and setbacks from pipelines
Building Elevations and Floor plans		
		Label plans with dimensions of building, including height
		Total number of units.
Documents that <u>may</u> be required with a Development Permit Application:		
		Site grading plan
		Landscaping plan
		Soil testing/Geotechnical Report
		Environmental Site Assessment
		Transportation/Traffic Study
		Confirmation of Roadside Development Permit from the Ministry of Highways
		Letter of Intent describing the nature of the application and the intended use may accompany all application
		Any other information deemed necessary to make a decision



Residential Development Permit Application

Lumsden Municipal Office
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CONTACT INFORMATION

Applicant

Name: _____

Phone Number: _____

Email Address: _____

Mailing Address: _____

Municipality: _____ Province: _____ Postal Code: _____

Property Owner Same as Applicant

Name: _____

Phone Number: _____

Email Address: _____

Mailing Address: _____

Municipality: _____ Province: _____ Postal Code: _____

Contractor/Designer

Name: _____

Phone Number: _____

Email Address: _____

Mailing Address: _____

Municipality: _____ Province: _____ Postal Code: _____

LEGAL LAND LOCATION FOR PROPOSED DEVELOPMENT

Quarter: _____ Section: _____ Township: _____ Range: _____

Lot: _____ Block: _____ Plan: _____ Extension: _____

Civic Address: _____

PROPOSAL

Current Land Use: _____

Description of Existing Structures and Features:

Proposed Land Use: _____

Estimated Value of Construction: \$ _____

Proposed Development Description:

Please check all associated work that applies:

- Land clearing Description: _____
- Excavation and/or fill Description: _____
- Leveling and/or grading Description: _____
- Landscaping Description: _____
- Drainage concerns Description: _____
- Other Description: _____

SERVICES

<p><u>Water Supply</u></p> <p><input type="checkbox"/> Existing <input type="checkbox"/> Proposed</p> <p>Type:</p> <p><input type="checkbox"/> Communal system <input type="checkbox"/> Cistern</p> <p><input type="checkbox"/> Lake/Waterbody <input type="checkbox"/> Private Well</p> <p><input type="checkbox"/> Other: _____</p> <p>Distance from dwelling: _____</p> <p>Distance from other features: _____</p>	<p><u>Sewage Disposal</u></p> <p><input type="checkbox"/> Existing <input type="checkbox"/> Proposed</p> <p>Type:</p> <p><input type="checkbox"/> Private on-site <input type="checkbox"/> Mound</p> <p><input type="checkbox"/> Chamber <input type="checkbox"/> Holding Tank</p> <p><input type="checkbox"/> Communal <input type="checkbox"/> Absorption Field</p> <p><input type="checkbox"/> Lagoon <input type="checkbox"/> Septic Tank</p> <p><input type="checkbox"/> Other: _____</p> <p>Distance from dwelling: _____</p> <p>Distance from other features: _____</p> <p>Distance from water supply: _____</p>
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ATTACHMENTS:

- Development Application Fee (non-refundable)
- Site Plan
- Land Title (If not provided, I give permission to the additional \$20.00 ISC title fee)

Development Application Fees:

\$50.00 for a permitted use

\$100.00 for a discretionary use

\$20.00 for ISC Title

DECLARATION BY APPLICANT

I _____ of _____ in the Province of Saskatchewan, solemnly declare that all the above statements in this application are true, and I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of *The Canada Evidence Act*.

Please note, the information on this form is being collected under the authority of section 28(a) of the Freedom of Information and Protection of Privacy Act to be used only for the purpose of this application.

 Applicant's Signature Date Property Owner's Signature Date

SUBMISSION

Please submit the completed application form and site plan by email to town.lumsden@sasktel.net, by mail to the Town of Lumsden (address is on the top right corner of the first page), or by drop-off at the Lumsden Municipal Office.



Letter of Authorization

Lumsden Municipal Office
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I, (We) _____ being the owner(s) of

Lot _____ Block _____ Plan _____ Ext _____

Legal:

NW/NE/SE/SW Section _____ Township _____ Range _____ W2 Meridian give

_____ permission to

act on by (our) behalf in applying for a Development Permit for the above subject property.

Signature

Date

Development Permit #



Residential Plan Review Checklist

Box 517 Stn. Main
White City, SK S4L5B1
Ph: 306-536-1799
Fax: 306-781-2112
office@pro-inspections.ca

Project Information

Municipality: _____	PBI Number: 26- _____
Job Site Address: _____	Project Type: _____
Owner's Name: _____	Cell Phone: _____

Residential Project Type

REQUIRED for a Plan Review	New Dwelling / Housing Unit	RTM / Modular / Post-Move	Mobile (Manufactured) Home	Addition / Living Space / Sec. Suite	Renovation (structural or egress)	Basement Development	Deck (not covered or enclosed)	* Attached Garage (unheated)	* Det Garage / Acc. Bldg. (unheated)	* Pole Building (unheated)	Retaining Wall (if collapse affects a structure)	Foundation Replacement	Solar Panels (PV or Hot Water)	Storage only - no living space & unheated
<p>Provide designs and required documents in PDF format as indicated by the unshaded boxes for the project (shaded box means not required).</p> <p>A plan review must be completed by PBI <u>before</u> a building permit is issued.</p> <p style="color: red;">E-mail plans and documents in PDF format to the <u>municipal office</u>.</p> <p><i>Requirements may vary for unique or larger projects. Please consult with PBI.</i></p>														
Site Plan (e.g. lot size & shape; indicate North; project size on lot, distance to all property lines, indicate what borders each property line, label streets, etc.)														
Building Plans (e.g. floor plans, exterior elevations, cross sections, structural details, window & door types, sizes & locations, stair configurations, material lists, specs, etc.)														
Energy Code Forms (applicable to compliance option, code edition & climate zone)														
Building Designs stamped by an engineer (project specific for <u>intended use</u> *)														
Foundation Designs stamped by a structural engineer (site specific)														
Geotechnical Report (if required by zoning bylaws or engineer recommendation)														
PBI Specifications sheet (<i>plus all information requested in the sheets</i>)														
Information Below is Required BEFORE THE FRAMING INSPECTION														
Engineer-stamped roof truss designs & layouts (NBC compliant)														
Engineer-stamped floor truss and/or LVL designs & layouts														
Fireplace or Wood Stove Manufacturer Specifications														
Residential Mechanical Ventilation Design Summary														

*** Pole Building** (Please detail intended use. Note if vehicles will be repaired in the building, if building is for personal or business use, etc.)

Signature: _____	Date: _____
<p>* I declare that I am the owner of this property, and I will notify PBI of any email changes if applicable.</p> <p>* Please note that failure to receive an emailed report or related documents does not release the property owner (s) from their responsibility to comply in all regards with the building standards (Saskatchewan Construction Code Act, Municipal Building Bylaws, and National Building Code of Canada).</p>	

Residential Permit Information Form (PIF)

Municipal Office Use Only

Municipality: _____ Date: _____

Development Approved: Yes No PBI Number: 26- _____

Geotech Required: Yes No Permit Expiry Date: _____

Municipal Official: _____ Signature: _____

Information Below To Be Completed By The Applicant

Contact & Email Consent

Building Owner: _____	Home Phone: _____
Mailing Address: _____	Cell Phone: _____
Email Address Owner: _____	
Contractor: _____	Business: _____
Contact Person: _____	Cell Phone: _____
Email Address Contractor: _____	
Owner's Signature: _____	Date: _____

* I declare that I am the owner of this property, and I will notify PBI of any email changes if applicable.
 * By signing above, I consent to email delivery to all named above of PBI reports and related documents pertaining to this building permit.
 * Please note that failure to receive an emailed report or related documents does not release the property owner(s) from their responsibility to comply in all regards with the building standards (Saskatchewan Construction Code Act, Municipal Building Bylaws, and National Building Code of Canada).
 * Note that owners should always include themselves on this form.

Jobsite Location

Civic Address: _____

Legal Land Location: _____

Lot(s) _____ Block _____ Plan No _____

or:

Quarter Section _____ Township _____ Range _____ Meridian _____

Description: _____

Subdivision / Landmark: _____

Project Details

1) **Value of Construction** (Total cost to owner for the work in its completed form. Includes cost of design, all building work, materials of construction, building systems, labour, overhead, and profit of the contractor and subcontractors)

Value of Construction: _____

*** Please fill in Sections 2a) plus 2b), or just Section 3)**

2a) **New Family Dwelling** (Select One Permit Type That Best Describes the Dwelling)

New Home RTM Post-Move Modular Home Duplex Unit
(Requires two Applications)

2b) **Select Below ALL that Pertain to this Permit AND are included with the plans submitted to PBI for Review:**

Basement Development Deck Attached Garage (Insulated) Attached Garage (Not Insulated)

3) **Residential Building Project** (Separate Permit is Required for Each Project Type)

Year the Existing Building was Constructed: _____

Addition Attached Garage Deck Basement Development

Renovation Roof Extension Sunroom Secondary Suite

Detached Garage Accessory Building Accessory Building w/Living Pole Building

Boat House New Foundation Retaining Wall Demolition

Tiered Performance Compliance

Section 9.36 of the National Building Code of Canada

This form is intended to clarify the compliance with Section 9.36, performance path.

Must be completed by a competent person who is knowledgeable, experienced and trained in building design under Section 9.36 of the NBC and acceptable to the Authority Having Jurisdiction.

Address:			
Occupancy Class:		Conditioned Space Volume (m³):	
Select Performance Tier:	<input type="checkbox"/> Tier 1 <input type="checkbox"/> Tier 2 <input type="checkbox"/> Tier 3 <input type="checkbox"/> Tier 4 <input type="checkbox"/> Tier 5		

Performance Compliance Path 9.36.5. & 9.36.7.

Available only to houses with or without secondary suites, buildings that contain only dwelling units and common spaces whose total floor area does not exceed 20% of the total floor area of the building.

Input parameters (not required for EnerGuide compliance)	Reference Model	Proposed Model
Airtightness Level (air exchanges per hour @ 50 Pa)		
Heat Loss/Heat Gain		
HRV efficiency		
Thermal mass (MJ/m ² ·°C)		
Ventilation rate (l/s)		
Fenestration and door to wall ratio (FDWR) – reference (%)		
Direction of front elevation	N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input type="checkbox"/> N <input type="checkbox"/> NE <input type="checkbox"/> E <input type="checkbox"/> SE <input type="checkbox"/> S <input type="checkbox"/> SW <input type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/> S <input type="checkbox"/> SW <input type="checkbox"/> W <input type="checkbox"/> NW <input type="checkbox"/>	
Area of windows and doors	Front elevation (m ²)	
	Rear elevation (m ²)	
	Left elevation (m ²)	
	Right elevation (m ²)	
	Total area of windows (m ²)	
	Total area of opaque doors (m ²)	
Energy use (GJ)		
Software Information		
Software title		Version
Is software Hot2000 or ANSI/ASHRAE 140 compliant? Modelling summary reports generated for both the reference and proposed houses are required to be attached.		Yes / No

Proposed House - Building Assembly Details:				
	Framing	Insulation	Furnace Size:	
Ceiling:	" o.c.	R -	Furnace Rating:	
Exterior Wall:	2" x @ " o.c.	R -	Water Heater:	
Tall Wall:	2" x @ " o.c.	R -	HRV:	<input type="checkbox"/> Yes <input type="checkbox"/> No
Foundation Wall:	2" x @ " o.c.	R -	Air Conditioner:	
Floor Headers:		R -	Air Barrier (NBC):	
Cantilever/Bonus Rm:	2" x @ " o.c.	R -	Attic Hatch:	
Slab:	<input type="checkbox"/> None <input type="checkbox"/> Int <input type="checkbox"/> Ext / (1.2m)	thick -	Doors (U-Values):	
Cladding Type:			Windows:	
Comments:			(List all U-Values)	

Compliance via Tiered Performance Results (9.36.7.)

Energy Performance Metrics (not Required for Energuide Compliance)	Reference Model	Proposed Model	Target Energy Performance
Total volume of conditioned space within the building or house > 300m³ and where volume is not determined			
Percent heat loss reduction (Required: ≥ 5%) (calculated by subtracting the annual gross space heat loss of the proposed house from the annual gross space heat loss of the reference house and dividing the result by annual gross space heat loss of the reference house)			Achieved:
Percent improvement (Required: ≥ 10%) (calculated by subtracting the annual energy consumption of the proposed house from the house energy target of the reference house and dividing the result by the house energy target of the reference house), or			Achieved: or
Percent house energy target (Required: ≤ 90%) (calculated by dividing the annual energy consumption of the proposed house by the house energy target of the reference house)			Achieved:
Peak cooling load (≤ reference house)			<input type="checkbox"/> Yes <input type="checkbox"/> No
Total volume of conditioned space within the building or house ≤ 300m³ and where volume is not determined			
Percent house energy target (Required: ≤ 100%) (calculated by dividing the annual energy consumption of the proposed house by the house energy target of the reference house)			Achieved:

Declaration			
Name		Company	
Email		Phone	
<p><i>I hereby certify that the design parameters and/or calculations submitted were prepared in full accordance with the operation procedures of the software and:</i></p> <p><input type="checkbox"/> Subsection 9.36.5 of the 2020 NBC.</p> <p><input type="checkbox"/> Alternative Solution (attach supporting documents)</p> <p><input type="checkbox"/> EnerGuide Rating System, v15. I am a qualified Energy Advisor and the submitted design achieves the minimum annual energy improvement target of 2020 NBC. (a compliance summary will be submitted prior to full occupancy)</p> <p>Signature: _____ Date: _____</p>			

Where the air-leakage rate is a value less than 3.2 ACH@50 Pa, an airtightness test is required to be conducted. Provide the Airtightness Certificate to office@pro-inspections.ca once complete (required prior to Occupancy inspection).

TIERED PRESCRIPTIVE COMPLIANCE

Section 9.36 of the National Building Code of Canada

This form is intended to clarify the compliance with Section 9.36, prescriptive path.

Must be completed by a competent person who is knowledgeable, experienced and trained in building design under Section 9.36 of the NBC and acceptable to the Authority Having Jurisdiction.

Address:			
Occupancy Class:		Conditioned Space Volume (m³):	
Select Performance Tier: <input type="checkbox"/> Tier 1 <input type="checkbox"/> Tier 2 <input type="checkbox"/> Tier 3 <input type="checkbox"/> Tier 4 <input type="checkbox"/> Tier 5			

Prescriptive Compliance Path (9.36.2. – 9.36.4.)

All calculations and specifications must be attached to this form to be considered complete and be accepted for review.

<u>Conversions:</u>	
R = 5.678 x RSI	U = 1 / RSI

HRV / ERV: Yes No **F280 Heat Gain/Loss Report must be Attached**

Effective Thermal Resistance of Above Ground Opaque Building Assemblies (RSI)			
Assembly	w/ HRV	w/o HRV	Proposed
Ceilings below attics	8.67	10.43	
Cathedral / Flat roofs	5.02	5.02	
Walls & Rim joists	2.97	3.08	
Floors over unheated spaces	5.02		
Floors within garage	4.86		
Thermal Characteristics of Fenestration, Doors and Skylights (U)			
Assembly	Efficiency		Proposed
Windows & Doors	Maximum U-Value 1.61 or Minimum Energy Rating \geq 25		
One door exception	Maximum U-Value 2.60		
Attic hatch	Minimum RSI _{nom} 2.60		
Skylights	Maximum U-Value 2.75		
Effective Thermal Resistance of Below-Grade or In-Contact-With-Ground Opaque Buildings Assemblies (RSI)			
Assembly	w/ HRV	w/o HRV	Proposed
Foundation Walls	2.98	3.46	
Slab On Grade With Integral Footing	2.84	3.72	
Unheated Floor Below Frost Line	uninsulated	uninsulated	
Unheated Floor Above Frost Line	1.96	1.96	
Heated Floors	2.84	2.84	

Trade Off (9.36.2.11.): Yes No

Should trade off be proposed, all calculations must be attached to this form to be considered complete and be accepted for review. The location and extent of assemblies used in the calculations shall be clearly identified on the drawings by hatch or note.

HVAC Equipment Performance Requirements				
Equipment	Capacity KW	Standard	Min. Efficiency	Proposed
Electric Heat Pump (split & single package)	≥ 19	See Tables 5.2.12.1.-A to -P of Division B of the NECB		
Gas Fired Furnace w or w/o A/C	≤ 66 using single-phase electric current	CAN/CSA-P.2	AFUE ≥ 95% and must be equipped with a high-efficiency constant torque or constant airflow fan motor	
	≤ 66, through the wall furnace		E _t ≥ 78.5% AFUE ≥ 90%	
	≤ 66 using three-phase electric current	ANSI Z21.47/CSA 2.3	AFUE ≥ 78% or E _t ≥ 80%	
	> 66 and ≤ 117.23		E _t ≥ 80%	
Electric Boiler	< 88	(1)		
Gas Fired Boiler	< 88	CAN/SCA-P.2	AFUE ≥ 90%	
	≥ 88 & < 733	ANSI/AHRI 1500 or DOE 10 CFR, Part 431, Subpart E, Appendix A	E _t ≥ 83%	
Other				
Heat Loss/Heat Gain Calculation	<input type="checkbox"/> Calculations were prepared in conformance with CSA F280-12			_____ BTU
Nomenclature	AFUE= annual fuel utilization efficiency, E _t = thermal efficiency			
Water Heaters Performance Requirements				
Equipment	Capacity KW	Standard	Min. Efficiency	Proposed
Tank Storage Electric	≤ 12 kW (>50 L to ≤ 270 L capacity)	CAN/CSA-C191	SL ≤ 35 + 0.20V (top inlet)	
			SL ≤ 40 + 0.20V (bottom inlet)	
	≤ 12 kW (>270 L to ≤ 454 L capacity)		SL ≤ (0.472V) - 38.5 (top inlet)	
			SL ≤ (0.472V) - 33.5 (bottom inlet)	
>12 kW	ANSI Z21.10.3/CSA 4.3 or DOE 10 CFR, Part 431, Subpart G App B	SL ≤ 0.30 + (102.2 V _s)		
Tank Storage Gas Fired	≤ 22 kW and first-hour rating < 68 L	CAN/CSA-P.3	UEF ≥ 0.3456 – (0.00053 V _s)	
	≤ 22 kW and first-hour rating ≥ 68 L but < 193 L		UEF ≥ 0.5982 – (0.00050 V _s)	
	≤ 22 kW and first-hour rating ≥ 193 L but < 284 L		UEF ≥ 0.6483 – (0.00045 V _s)	
	≤ 22 kW and first-hour rating > 284 L		UEF ≥ 0.6920 – (0.00034 V _s)	
	> 22 kW but ≤ 30.5kW and V _r ≤ 454 L		UEF ≥ 0.8107 – (0.00021 V _s)	
	> 22 kW	DOE 10 CFR, Part 431, Subpart G, Appendix A	E _t ≥ 90% and SL ≤ 0.84 [(1.25 Q) + (16.57 √V _r)]	

TIERED PRESCRIPTIVE COMPLIANCE

Section 9.36 of the National Building Code of Canada

Tankless Gas Fired	< 58.56 kW, $V_r \leq 7.6$ L and max. flow rate < 6.4 L/min	CAN/CSA-P.3	$UEF \geq 0.86$	
	< 58.56 kW, $V_r \leq 7.6$ L and max. flow rate ≥ 6.4 L/min		$UEF \geq 0.87$	
	≥ 58.56 kW, $V_r \leq 37.85$ L and input rate to V_r ratio ≥ 309 W/L	DOE 10 CFR, Part 431, Subpart G, Appendix C	$E_t \geq 94\%$	
Tankless, Electric	No standard addresses the performance efficiency; however, their efficiency typically approaches 100%			
Other				
Nomenclature	EF = energy factor Q = nameplate input rate, in kW V_r = rated nominal storage volume, in L E_t = thermal efficiency with a 38.9°C (70°F) water temp difference SL = standby loss, in W V_s = measured storage volume, in L			

(1) Must be equipped with automatic water temperature control. No standard addresses the performance efficiency; however their efficiency typically approaches 100%

Proposed House - Building Assembly Details:				
	Framing		Insulation	Furnace Size:
Ceiling:	" o.c.		R -	Furnace Rating:
Exterior Wall:	2" x	@ " o.c.	R -	Water Heater:
Tall Wall:	2" x	@ " o.c.	R -	HRV: <input type="checkbox"/> Yes <input type="checkbox"/> No
Foundation Wall:	2" x	@ " o.c.	R -	Air Conditioner:
Floor Headers:			R -	Air Barrier (NBC):
Cantilever/Bonus Rm:	2" x	@ " o.c.	R -	Attic Hatch:
Slab:	<input type="checkbox"/> None <input type="checkbox"/> Int <input type="checkbox"/> Ext / (1.2m)		thick -	Doors (U-Values):
Cladding Type:				Windows: (List all U-Values)
Comments:				

Compliance via Tiered Prescriptive Results (9.36.8.)

This option applies only to buildings of residential occupancy to which Part 9 applies.

Energy Performance Measures	Minimum Energy Conservation Points (Zone 7a)
Above-Ground Walls	
Fenestration and Doors	
Below-Grade or In Contact with Ground	
Airtightness	
Ventilation Systems	
Service Water Heating Equipment	
Building Volume	
Total Energy Conservation Points Achieved:	

Where points are achieved through Table 9.36.8.8., an airtightness test is required to be conducted. Provide the **Airtightness Certificate** to office@pro-inspections.ca once complete but required prior to Occupancy inspection.

Residential – Sample Site Plan



