

Updated: February 7, 2020

RE: Utility Services Overview & Construction Requirements at Sun Peaks Resort

Welcome to Sun Peaks! Sun Peaks Mountain Resort Municipality has developed this package to assist you during the construction of your project at Sun Peaks. Please find attached a brief outline of the utility services available, the terms of service, contact information and inspection requirements for Gas Services (Propane), Water Services, Wastewater (Sewer) Services, Electrical Services, Telephone, Internet & TV Services and other useful information.

Significant Items to Note

- ✓ *Mandatory protection of all Water Curb Stops and Sanitary/Storm Inspection Chambers.*
- ✓ *No perimeter drains or other storm drainable may be connected to the wastewater (sewer) collection system.*
- ✓ *Revised Bylaws for Water & Wastewater rates & connection fees have been adopted & are in place (pg. 5)*
- ✓ *Toilets must meet Water & Wastewater Services Bylaws conditions of dual flush @ 6.0/3.0 l/f or single flush 4.0 l/f as well as meeting the MaP Testing Criteria by flushing a minimum of 600 grams/flush.*
- ✓ *All Wastewater (sewer) service lines (on residential property) must be at least SDR 35 with joints glued or on steep properties where joints must also be restrained prior to backfilling. All inspection chamber must be wrapped. For all Commercial/Multi-family properties, contact the Utility to discuss specific requirements.*
- ✓ *An assessment is now required for the requirement of Backflow Prevention Devices. These devices must be installed and be in compliance with the BC Plumbing Code and Sun Peaks Municipality' Water Services Bylaw. A successful test permit must be supplied to the Utility prior to receiving final inspection certificate from the Utility. Please note that all backflow devices must be tested once a year and a testing report must be filed with the Utility at a cost of \$20 per device.*
- ✓ ***Proof of compliance** with Sun Peaks Municipality' requirements and inspections must be met prior to receiving final approval for occupancy by Sun Peaks Mountain Resort Municipality.*
- ✓ *Utility Location Services – Sun Peaks Municipality is a member of BC 1 CALL – Remember, a request must be placed with BC 1 Call a min. of three (3) working days prior to any excavation starting.*
- ✓ *48 Hours' notice for all utility inspections (water, sewer or gas) – **Notice of less than 48 hours (2 working days) for utility inspections may be subject to a charge billed directly to the property owner.** Exceptions to this are granted upon verbal application to the Director of Public Works. **NOTE: that should any service connection(s) be buried when Sun Peaks Municipality' Utilities' Inspector arrives on site, the services must be re-exposed at the customer's costs & inspected prior to being approved.***
- ✓ ***Gas Main Excavation Permit Required** – A permit must be applied for and issued by Sun Peaks Municipality when any site work or activities involving working within two meters or crossing over/under a 75 mm (3") or 100 mm (4") gas main operating at 70 kPa (10 PSI) or more.*
- ✓ ***Compost** (non-screened) will be available on a limited basis, contact 250-578-2020 to make pick up arrangements.*

This information is based on details available at the time of printing, and may be subject to change. Please confirm the details, pricing & connection requirements prior to proceeding with your project.

If you wish to review the appropriate Sun Peaks Municipality's Bylaws and related Conditions & Terms of Service for Water, Wastewater (Sewer) or Resort Gas Ltd.'s Gas Tariff, please contact us at 250-578-2020. We can contact us info@sunpeaksutilities.com or at the web site at www.sunpeaksutilities.com.

Sincerely,

Sun Peaks Municipality
Public Works – Utility Division

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Application Form for Utility Services

(send completed copy of this form to Finance@sunpeaksmunicipality.ca)

Date of Application:	Current Account No.	
Sun Peaks Property Lot / Address		
Property Sale Information		
Info provided by:	<input type="checkbox"/> Seller <input type="checkbox"/> Purchaser	
	<input type="checkbox"/> Lawyer for Seller <input type="checkbox"/> Lawyer for Purchaser	
Please print name	Closing Date:	
Contact Phone #:	Possession Date: (if different)	
New Owner's Information		
Owner's (legal) Name		<input type="checkbox"/> notes on back
Owner's Mailing address (invoice)		
Owner's Contact Phone #		<input type="checkbox"/> Home <input type="checkbox"/> Work <input type="checkbox"/> Cell
Owner's Contact Alternative #		<input type="checkbox"/> Home <input type="checkbox"/> Work <input type="checkbox"/> Cell
Owner's Emergency Contact Name & #		
Owner's E-mail address		
Expected use of Property <i>(Required information)</i>	<input type="checkbox"/> Residential (long term or monthly rental) <input type="checkbox"/> Residential (nightly rental) – Note if have <input type="checkbox"/> TUP or <input type="checkbox"/> T1A Zoning <input type="checkbox"/> Suite Info _____ number of Suites in house – <i>Required Info</i> <input type="checkbox"/> Commercial <input type="checkbox"/> Other (specify) _____	
Rental Property Manager (if applicable)		
Additional Notes:		
Office Use Only	Date (Set up in billing system)	
Contacted via <input type="checkbox"/> Tel <input type="checkbox"/> E-mail <input type="checkbox"/> In person	New construction involved – See <i>Customer Service Inspection Form</i>	
Application taken by:	New account number assigned	
Billing Services Set up	Additional Notes:	
<input type="checkbox"/> Gas <input type="checkbox"/> Carbon Tax <input type="checkbox"/> ICE	<input type="checkbox"/> Water <input type="checkbox"/> Water Suite <input type="checkbox"/> Sewer	

An application for Utility Services can also be completed by telephone by contacting the Utility's office at 250-578-2020. The applicable Bylaws &/or Tariffs (Rates, Terms and Conditions) covering the services offered by Sun Peaks Mountain Resort Municipality are subject to change from time to time as approved by the appropriate regulators. Copies of the Bylaws & Tariffs are available at the Municipality's Offices for review.

Overview of Utility Approvals and Inspections Required

The following is an overview for Sun Peaks Municipality's requirements. Please note that rates, terms and conditions for service are subject to change from time to time. For more specific information, please contact the Utilities Offices at 250-578-2020. Remember that we require a **minimum of 3 WORKING days' notice** prior to scheduling any site meeting. **Inspections required with less than 3 working days' notice may be subject to an inspection charge.**

1. **Utility Services Plan Approval:** As part of the plan approval process, the location of service connections, protection, meter set installations and remote reading devices needs to be approved by the Utility prior to a building permit being issued. The Utility will provide a letter confirming all conditions of the various Conditions of Services in the Municipality's Bylaws have been met. A copy of the approval will be provided to the Municipality's building department as well as note the approval on the building plan.
2. **Pre-Site Meeting:** ***Prior to the start of any site clearing or site excavation*** Please arrange for a pre-construction meeting. This is to ensure that all utility services are marked & any deficiencies identified. *A pre-site meeting with the Sun Peaks Resort LLP is required* to review the Environmental Responsibilities with the site contractor as under Sun Peaks Municipality's Bylaws. Sun Peaks Municipality's Utility Staff should also attend to identify services.
3. **Services Site Inspection:** Inspections for water, sewer and gas connections must be completed by Sun Peaks Municipality's field staff prior to any back filling. Water must not be turned on at the Curb Stop prior to the inspection being performed and approved.
4. **Plumbing Fixture Final Inspection:** A final inspection will be required to ensure compliance with ultra-low water use fixture requirements. **NOTE:** all toilets installed **MUST** flush 3.0/6.0 liter dual flush or 4.0 litre single flush or less **AND** must meet or exceed 600 grams per flush as confirmed via MaP testing criteria. A list of approved toilets can be found at www.map-testing.com. Click on the link "All MaP" button under "Toilet Search" **tab** for the most current test results.
- 5) **Other Points to Note:**
 - a) **Use of Fire Hydrants for Construction or Compaction:** Should you need use of water from a fire hydrant during construction, ***ADVANCE ARRANGEMENTS must be made*** with the Utilities' Office. Sun Peaks Municipality's staff will connect a backflow preventor, a low flow gate valve & hydrant water meter then turn on the hydrant. You must provide the fire hose sized to 1 1/2". The fire hydrant must be protected at all times from damage & cold temperatures. Depending on the status of conservation measures, access may be denied.
Please be aware that the charge to use water from a fire hydrant has a minimum charge of \$1,000 per day and that water is a scarce commodity in an alpine environment. Help us conserve this valuable resource.
 - b) **Construction Access:** During the construction process, it is your responsibility to keep all public roads clear and accessible. If it is necessary to close the road temporarily due to heavy equipment requirements or other reasons, please coordinate this with both Sun Peaks Municipality and the Sun Peaks Municipality.
 - c) **Construction Site:** Please ensure that all materials are stored safely on your site. Please make sure your sub-contractors do not use the adjacent properties for storage of your materials without proper authorization. You must also control all material run off from the site in line with MoE standards.
 - d) **Damages:** Please note that you are responsible for any damages and repairs to existing utilities and road ways as well as any damages caused to adjacent properties including any damages caused by your contractor or sub-contractors and/or employees. Should any damages occur, it is your responsibility to inform Sun Peaks Municipality and the relevant party as soon as possible. If the Utility finds damage at a later date, the property owner will be billed for repairs.

We look forward to working with you and providing any assistance required. Should you have any further questions, comments or wish to arrange a meeting or inspection, please contact us during office hours Monday to Friday, 8:30 am to 4:00 pm at 250-578-2020. In an emergency, the on-call Field Technician at 250-319-0629 or 9-1-1.

Overview of Service Connection & Usage Fees Schedule as of February 1, 2020

The following is a general guideline for Sun Peaks' List of Service Fees and are based on current posted rates and tariffs. Please note that the rates, terms & conditions for service are subject to change from time to time. For more detailed information, please contact the Utilities Offices at 250-578-2020 or visit the Utilities' office at 106 – 3270 Village Way, Sun Peaks, BC, V0E 5N0.

Please note that all utility services must be applied for and approved prior to any connections being performed.

		Account Activation and Connection Fee Schedule ¹	Monthly Rates
Inspections	Pre-construction Meeting	No charge for initial meeting	N/A
	Underground utilities location services	Please contact BC One Call by going to www.bc1c.ca (24 hrs per day) or calling 800-474-6886 (3 workdays' notice req'd)	No charge to caller for maps. Please arrange to have a on-site location company mark out you utilities to avoid any damages.
Water (metered) (rates effective Feb 1, 2020)	Temporary Fire Hydrant use	Unmetered Rate - \$1,500.00 /day Metered Rate - \$1,000 /day for 1 st – 5 days plus usage at \$2.42/cu meter	N/A
	Vacant Lot (undeveloped properties only)	N/A <i>SFEU=Single Family Equivalent Unit</i>	\$453.00/year (single family) \$70.50/bed unit/year (multi)
	Residential, Lodging & Commercial (see Tariff for details)	Administration Fee \$25.00 Inspection Fee \$50.00 Connection Fee ³ for a single-family home \$300.00 for a multi-family or others ... \$50.00 per bed unit (<i>for all others</i>)	Basic Monthly Charge of \$24.90 per SFEU ² or \$24.90 per Single Family Main Dwelling & \$12.45 per Suite Plus Monthly Usage³ @ Tier 1-\$2.42/m ³ up to 21 m ³ water used. Tier 2-\$3.15/m ³ from 22 to 27 m ³ & Tier 3-\$4.10/m ³ 27 m ³ +
Wastewater (Sewer) (rates effective Feb 1, 2020)	Residential, Lodging & Commercial	Administration Fee \$25.00 Turn On Fee \$50.00 Connection fee ⁴ for a single-family home \$300.00 for a multi-family or others... \$50.00 per bed unit (<i>for all others</i>)	Basic Monthly Charge of \$19.54 per SFEU ² or \$19.54 per Single Family Main Dwelling & \$10.75 per Suite Plus Monthly Usage³ @ Tier 1-\$3.54/m ³ up to 21 m ³ water used. Tier 2-\$4.60/m ³ from 22 to 27 m ³ & Tier 3-\$5.98/m ³ 27 m ³ +
	Vacant Lot (undeveloped properties only)	N/A	\$376.75/year (single family) \$62.79/bed unit/year (multi)
Gas (rates effective Jan 1, 2020)	Residential & Multi-Family- <i>Contact the office for multi-meter quote</i>	New Account Fee \$85.00 Single Service Line Tie In & Single Meter Set is \$2,508.00	Basic Charge: \$18/month Delivery: \$2.8175/gigajoule Commodity: \$23.94/gigajoule
	Small Commercial	Account Activation Fee \$85.00 Quoted individually, depending gas supply demand	Basic Charge: \$30/month Delivery: \$2.8175/gigajoule Commodity: \$23.94/gigajoule
	Large Commercial	Account Activation Fee \$85.00 Quoted individually, depending gas supply demand	Basic Charge: \$120/month Delivery: \$3.3175/gigajoule Commodity: \$23.94/gigajoule
Backflow Prevention Report	Required prior to receiving a Final Inspection Certificate	No charge for Assessment. \$25.00 per device tested and report filed. Charged annually. ⁵	No charge for Assessment. \$25.00 per device tested and report filed. Charged annually. ⁵

¹ All prices quoted are subject to change and applicable taxes. Please note that the bylaws covering rates, terms & conditions for service are subject to change from time to time and will be considered to override any information or prices quoted in this document.

² SFEU = Single Family Equivalent Unit to equate to 6 Bed Units, each bed unit equivalent is 25 square meters

³ Tier Rates usage is calculated based on a single family or SFEU using no more than 21 cubic meters of water per month.

⁴ Connection fees collected at the time of building permit and will be used to provide funding for replacement reserves for the water and wastewater systems and would be in addition to Direct Cost Charges that may also be applicable.

⁵ Residential units may only require filing an annual Backflow Prevention Report if the property is connected to an irrigation or non-potable in-floor heating system. Other non-potable devices may also require a backflow prevention device.

Sun Peaks Municipality’ Services Overview

Please note that it is **mandatory** that prior to any excavation or landscaping, that a site meeting with Utilities’ Staff take place. We will document the condition of the services. There are no charges for the Utility to attend on-site meetings or provide locate information (maps) for any of our maintained utilities located within your property or Highways’ rights-of-way, *but there is a charge to repair damaged utilities.*

BC One Call must also be contacted a minimum of three working days prior to starting any excavation for locate information for all registered utility services (non-registered utilities must be contacted directly).

WATER AND WASTEWATER (SEWER) SERVICES

Water and Wastewater services are provided by Sun Peaks Mountain Resort Municipality (SPMRM or Municipality). A copy of the Water and Wastewater Bylaws (*Terms & Conditions of Service*) are available for viewing at the Municipal offices located at 106–3270 Village Way during regular office hours or on our website at www.sunpeaksutilities.com.

The Municipality’s Building Bylaws as wells the Water & Wastewater Bylaws require that water plumbing fixtures must meet the water conservation standards.

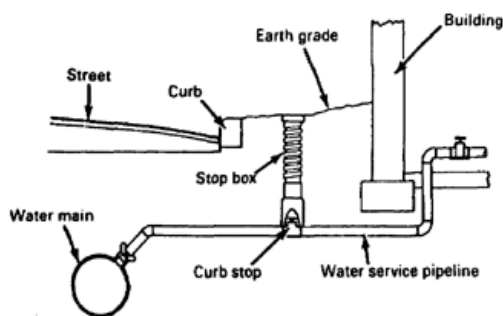
WATER SERVICE LINE – Note that the soils found at Sun Peaks are slightly corrosive and will dissolve metals found in metal including copper pipes over a short period of time. Please use Municipal Polyethylene (PE) piping complete with a minimum 160/200 PSI rating. Other inert metals should be used for fittings, etc. for all underground service lines to avoid premature infrastructure failure. If you do not use PE piping, please ensure cathodic protection is installed.

MANDATORY PLUMBING FIXTURES

Toilets - all toilets installed **MUST** be either 3.0/6.0 L dual flush or 4.0 single flush toilets **AND MUST** meet the Maximum Performance (MaP) testing criteria of being able to flush 600 mg or more in a single flush. A list of approved toilets can be found at <http://www.map-testing.com> and click on the link for “MaP Search” under “Toilet Search” or visit the Utility’s web site at www.sunpeaksutilities.com.

Curb Stop Protection

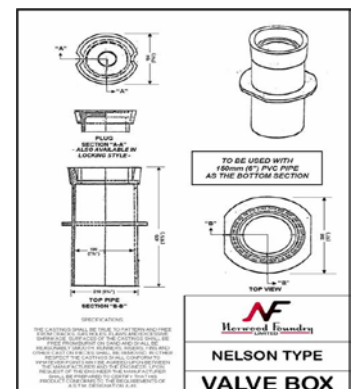
Since 1973, the Municipality has required that all curb stops and inspection chambers be protected from damage. The Municipality requires that all new water (curb stops) and sewer (Inspection Chambers) installations be protected from damage by the use of a metal valve box or manhole with a metal lid installed at or below the finished grade.



This metal valve box (sometimes called a “Nelson Box”) will not only protect the curb stop or sewer inspection chamber from damage, but make it much easier to find in the snow when you may need the Utility to turn off of your property’s water in an emergency.

If the infrastructure protection box is located within a driveway or other area where it is likely that

vehicles will drive over the box, the metal valve box or other structure must be rated to support the weight without damage to the water curb stop.



WATER SERVICE

Plumbing Fixtures

Water closet (toilet)

Allowed Maximum Flow

Dual Flush (3.0/6.0 liters per flush (0.79/1.58 USG) or Single Flush (4.0 liters per flush (1.05 USG)). **Please note that these ultra-low flow toilets are now required as a Condition of Service under the Water Services Bylaw**

Urinals

3.8 litres per cycle (1 US gallons per cycle) **Note: Water free urinals are available and are not subject to water or wastewater usage charges.**

Shower heads

6.0 litres per minute (1.5 US gallons per minute)

Lavatory faucets

3.8 litres per minute (1.0 US gallons per minute)

Kitchen faucets

8.4 Litres per minute (2.0 US gallons per minute)

Please note that use of garburators (food macerator) ARE NOT permitted within the resort.

Water-conserving fixtures are now readily available at the Kamloops wholesalers. It is your responsibility as the property owner or contractor to ensure that fixtures installed are acceptable to the Utility and the Municipality. The proper installation of a water meter including remote reader must also be installed prior to the final utility inspection and approvals given.

NOTE: Sun Peaks Mountain Resort Municipality’s Building Inspector requires that the Utility Division issue a “*Utility Inspection Certificate*” prior to final occupancy being granted. Arrangements for an inspection can be arranged by contacting the office at 250-578-2020.

Water Meters

The registered Building Scheme Covenants and the Municipality’s Water Bylaw’s Terms and Conditions for Service requires that you install a Municipality approved water meter with a touch reader unit. The Touch Reader unit must be attached to the outside of the main building and meet the following conditions:



- within 2 meters but not closer than 1.5 meters of the gas meter set
- installed approximately 1.5 meters (5 feet) above finished grade
- The ground grading below both the Gas Meter Set and the Water Touch Reader must be level and access must allow the Utility’s meter reader access to *record the usage in a safe manner*.
- Neither the Gas Meter Set nor Water Touch Reader may be enclosed in any structure until permission is granted in writing PRIOR to installation.
- **All wiring from the Water Meter to the Water Touch Reader must be 3 pair for future upgrades.**

Currently, the only approved meter manufacturer is Sensus. All water meters and touch readers are supplied by the Municipality and the costs will be billed to the property owner. The residential water meter and touch reader can be installed by your plumber providing proper installation procedures are followed (*horizontal plane with meter face pointing up*). Most sizes of residential water meter sets are stocked in the Municipal Offices at 106 – 3270 Village Way. *Please call ahead to ensure we have what you require.*

Water meters for lines larger than 1" or commercial applications are sized specific to each application and will be supplied by the Municipality and the cost for the unit will be billed to the property owner. If you do require a larger meter, please contact the Utility for sizing and pricing information.

See the attached Sensus informational sheets for further information or visit www.sensus.com and then click on Products, than Water for the most current information.

Residential Applications & Installation Information

- The water meter and touch reader must be installed and inspected prior to water being turned on by the Utility Division’s staff and **must be the first device installed** on the main water supply (after the primary water shut off) within the property (*prior to ANY other outlet devices* with the sole exception of fire suppression equipment).



- All properties are **required to have shut off valves** installed on either side of the meter set to allow for easy removal in the case of future service requirements. **It is strongly recommended that an Anode is installed at time of installation to protect the brass curb stop due to semi-aggressive soils at Sun Peaks.**

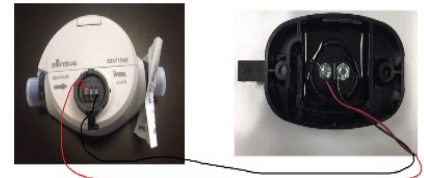
- For residential applications, the water meter must be installed with the water meter mounted horizontally or vertically, as it would sit on a table with the dial facing up using a meter horn (Fig # 1). Please contact the office if you require an installation variance such as vertical applications. Such variances must be **approved by the Municipality and are given in writing.**



Figure 1

- The water touch reader would then be connected from the top of the water meter to a location on the outside of the building near the front of the building so that the “Touch Pad” is within 2 meters of the gas meter set location but not closer than 1.5 meters.** You must have written permission from the Utility, if you would like the touch reader installed in a different location or within an enclosure. Please note that **3 pair wire installation** is now mandatory between the remote reader and the water meter.

- For wiring information from the water meter to the remote, install the red wire to the red meter terminal and the black meter terminal. The remote will take either wire on either terminal. See picture to the right.



- As wastewater (sewer) charges are based on the total water used, you may wish to consider installing a water meter for any irrigation or similar usage. Irrigation water usage is not subject to a wastewater usage charge.

Multi-Family and Commercial Applications & Installation Information

- Multi-family developers must have one main high/low flow water meter (Compound meter used to measure high and low flows accurately) near to the entrance to the complex (in an authorized above ground meter chamber). The touch reader must be located within 2 meters but not closer than 1.5 meters to one of the gas meter sets or other approved location. Should you wish to install individual water meters and have the utility invoice each customer directly rather than the Strata, then each customer must have his or her own individual shut off (curb stop) installed in a manner such that it remains assessable at all times to Sun Peaks Municipality. Contact the Utilities’ office at 250-578-2020 for all specific meter sizing, location requirements and installation details.
- Commercial developers must have one main high/low flow water meter near the entrance to the complex (in an authorized above ground meter chamber) or just inside the main building prior to any other devices (sole exception of fire suppression equipment) and the touch reader located within 2 meters but not closer than 1.5 meters of the main gas meter set or group of individual meters.
- All properties with a Fire Suppression System(s), must meet the Municipality’s Water Bylaw’s requirements for an authorized by-pass system that must be sealed off unless servicing is required (*at which time, the Utility staff will re-seal the by-pass piping*).

Additional Water Meter Installation Notes

- A minimum of a 3-wire conductor **MUST** connect the touch reader to the main water meter. This will allow us to implement new technology to reduce the cost of reading meters in the future.
- An approved irrigation water meter may be installed downstream of the main water meter to allow the Municipality to eliminate the requirement to charge Wastewater (Sewer) Rates on water used solely for irrigation and that doesn't enter the wastewater collection system.

NOTES:

- Irrigation or other installations do require the appropriate backflow devices to protect the potable water services against non-potable cross connection. All units are required to be testable by a qualified professional and a compliance report must be filed with Sun Peaks Municipality once a year.
- All meter reading devices must be safety accessible by the Municipality's meter reading staff and must be protected from ice and snow loads.

Contact the Municipality's office for all site-specific meter sizing, location requirements and installation details. Once the details and application have been confirmed, the Municipality will supply the appropriate meter(s) and touch reader(s).

Cross Connection Control / Back Flow Prevention Program Compliance

In the interest of maintaining safe drinking water and in compliance with the Interior Health Authority, Sun Peaks Municipality has begun a utility wide Cross Connection Control / Backflow Prevention Program. The Interior Health Authority monitors water distribution systems like the Sun Peaks Municipality' Waterworks through the use of operating permits, one of the conditions of this permit is maintaining a cross connection control program;

A **cross connection** is any actual or potential connection between drinking water and a non-potable substance (contaminant), **backflow** is the flow in reverse from normal within a piping system, when a **cross connection** and **backflow** are combined, often the result is a contaminant entering our drinking water.

The Sun Peaks Municipality' Water Bylaw has conditions of service regarding cross connection controls that include all properties. All properties must have a backflow preventer(s) suitable for the type of business or plumbing fixture in place. This is to ensure that NON-POTABLE water cannot be introduced into the public water mains due to backflow conditions and will also protect occupants inside the buildings from contamination of the drinking water from within the property.

Assessing new and existing facilities connected to the water distribution system is an integral part of the backflow prevention program and in view of this; the Sun Peaks Municipality has begun an assessment program of all commercial, institutional and industrial buildings. Our assessors look for cross connections within existing plumbing which could pose a threat to the water system in the event of backflow; this also identifies problems that could affect users of the building. The assessment is a non-chargeable service provided by the Sun Peaks Municipality.

On new installations, your facility must have its assessment completed prior to the final inspection being completed by the Municipality's staff. Once the assessment has been completed, an annual backflow prevention test must be successfully completed by a backflow tester certified in BC and the results filed with the Utility for a fee of \$25.00 per backflow device annually for commercial properties.

This program will assist the Utility in providing our customers the best possible protection in regards to the drinking water from contamination.

Water, Wastewater or Gas Service Line/Main Changes

Please be aware that should any grade changes or other construction issues cause the Municipal Water &/or Wastewater works to be moved/changed for any reason including should ground cover become not sufficient to provide protection for the various utility services, all associated work will be done at the customer's costs as per the Water & Wastewater Bylaws and Gas Tariff.

C

Temporary Water Service

Temporary Water Service can be arranged for with a minimum of 3 working days' notice for a number of different issues. Please plan ahead as the Municipality Staff have their own work planned out head of time.

- **Temporary Water Use for Plumbing Test** - If you require a temporary connection to pressure test your plumbing, arrangements can be made with the Municipality's office and least 3 working days' notice is required. Water will be turned on for the day of the test only.
- **Water Service without a Meter** – If you require water service during the construction process, a meter must be installed. If this is not possible, then written permission must be given by the Utilities' manager and the non-metered rate will be applied. The customer is responsible to ensure that the water service is protected from freezing conditions.
- **Compaction Services** - If you require water for compacting service via the service connection, a water meter and remote reader must be in place on the water service line. If you require water for compacting via a hydrant, we will supply a hydrant gate valve, hydrant water meter and backflow protection device.



The Utility only has two hydrant meters for non-fire suppression use. Arrangements can be made with the Utility's office for a hydrant meter and backflow protection device **at least 3 working days** in advance for the day of the test only.

WASTEWATER (Sewer) SERVICE

Wastewater (Sanitary/Service) Inspection Chamber/Manhole

Residential Service

In addition to the water meter installation, a sewer inspection chamber must be installed at or near the property line for all new residential construction (some properties may already have these installed). A residential inspection chamber can be purchased from one of the local suppliers or Sun Peaks Municipality. We can deliver it to site for installation during the wastewater hook-up by a plumber.

All Sewer service lines (on customer's property) must be at least SDR 35 with joints glued or on steep properties, all joints must be restrained prior to backfilling. This is to avoid future failure due to steep slopes or ground movement. An inspection of the installation the sewer collection line and Inspection Chamber must be completed by Sun Peaks Municipality' staff prior to back filling. Commercial or Multi-Family Sewer service and mains are preferred to be C900 as a minimum.

R

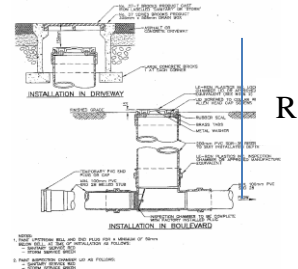
Please be aware that a sanitary plug in the Inspection Chamber may be installed to stop construction materials from flowing into the wastewater main lines during construction and must be removed by Sun Peaks Municipality' field staff prior to service turned on to avoid wastewater backup within the building.



Inspection Chamber Protection – The Utility requires that all water curb stop and sewer inspection chambers be protected from damage by the use of a metal box (sometimes called a ‘Nelson Box’) or sewer manhole with a metal lid installed at or below the finished grade. Other boxes may be acceptable as long as the lid contains enough ‘ferrous’ material to be able to be detected by a metal finding device. In an emergency, this makes it much easier for Utility staff to find under winter snow.

Sanitary Inspection Chamber

A standard Inspection Chamber (IC) installation drawing has been attached for your review. **Note, the IC must be wrapped with appropriate materials to stop ground water intrusion and reduce the chance of pipe separation. Please ensure that *no roof or perimeter drainage* is connected to the sewer collection system.**



Please note that an inspection must be performed prior to you or your plumber connecting to the water, sewer and storm grid and the cost for this inspection is included in your service hookup fees. For specific supply or installation requirements including protection, please review the "Service Connection Requirements" of the Wastewater Bylaw.

Multi-Family or Commercial Service

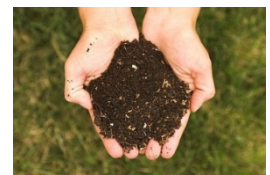
Multi-family or Commercial projects must have a properly equipped sanitary manhole installed at property line. If the manhole is installed within a roadway or drainage course, then it cannot be installed in the swale of the roadway and must be protected from surface and groundwater intrusion. A final Municipal inspection of the installation which must include the results of a leak test by a qualified inspector (to ensure the manhole is leak proof) & provided to Sun Peaks Municipality’ staff.

Water & Wastewater (Sanitary/Sewer) Service Lines

At Sun Peaks Resort, winter temperatures can drop below -30° Celsius for several days at a time. To protect your water and wastewater services from freezing, Sun Peaks Municipality requires that all customer water service lines be installed at a minimum depth of 2.5 meters. If this is not possible, then the service line must be insulated and heat taped to prevent freezing to stop any frost from reaching the service lines. For further clarification, please review Section 7.3 of the Water & Wastewater Bylaws’ terms and conditions.

Composting at Sun Peaks

The Municipality has a limited amount of compost that can be utilized for landscaping. The Sun Peaks In-Vessel compost process produces Class A compost that meets the Ministry of the Environment’s Organic Matter Recycling Regulations (OMRR) under the Ministry of the Environment’s Waste Management website. Links to various related links regarding regulations and ‘Compost Quality Requirements’ are listed on the website at <http://www.sunpeaksutilities.com> and click on the ‘Composting’ tab. Additional links are shown at the bottom of the web page.



Information on mineral and nutrient contents is available on our website as well as during pick up. At this point in time, the compost is not screened and will have a number of various sizes of wood chips in the mix (pine wood chips/hog fuel is used as the carbon source during the composting process)

To confirm availability and to make arrangements for bulk pick up the compost, please contact the Municipal offices at 250-578-2020 at least 3 days prior to your requirement to pick up the compost. Note: that customers are responsible for all resources needed to pick up the compost (bags, shovels, loading, etc.).

Compost Charges:	\$5.00 per Garbage Bag
(Subject to availability)	\$40.00 per Tonne (less than 5 Tonnes)
(charged if Municipal staff load)	\$25.00 per Tonne (5 or more Tonnes)

To encourage compost use, there is an area to pick up compost just south of the TNRD Transfer Station. Compost is available for all residences at no cost to them from this site only and only if they load the material themselves.

For more information on Sun Peaks Municipality’s compost project, please contact the Municipality at 250-578-2020 or visit our website at <http://www.sunpeaksutilities.com> and click on the ‘Composting’ tab.

GAS SERVICE

Sun Peaks Municipality maintains and operates the Gas Distribution Grid (Propane) which is owned by Resort Gas Ltd. and is located throughout the resort and is supplied by the bulk gas storage facilities located west of the Burfield Chairlift and Burfield Lodge.

A copy of the approved Gas Tariff and current rates as approved by the British Columbia Utilities Commission is available for viewing at the Municipality’s offices during regular office hours. A copy of the Tariff is also posted at www.sunpeaksutilities.com under the ‘Gas’ tab.

Excavation Gas Permit Requirements – Working around Gas Main (3” or larger)

A permit is required from Sun Peaks Municipality when site work or activity involves working within two meters or crossing over/under 3” or 4” gas main operating at 10 psi or more. A permit is not required when work or activity takes place in the area of gas mains less than 2” or service lines. For permit information and/or an application, visit contact the Municipal office at 250-578-2020.

You can make arrangements for the installation of a residential gas meter set including basic in-ground service line and trenching by contacting the Municipal office. (See ‘Installing Gas Lines’ handout).

When ordering your meter, you should know what gas delivery pressure you need and the total Gigajoule (or BTU) load for your property (just add up the fuel ratings listed on all your gas appliances). We will also require a valid gas permit number from you or your gas fitter prior to the gas meter being unlocked by the Sun Peaks Municipality’ field technicians.

Gas Meter Set Protection

In addition to the standard protection required by the BC Safety Authority, Sun Peaks Municipality requires that the gas meter set be protected from the heavy snow loads that Sun Peaks receives each winter. This can take the form of a small roof to protect the meter from ice and snow falling off roofs or being shoveled off decks or walkways. Contact the Utility’s staff to ensure there is enough room and clearance to safely read the meters and allow for replacement as required in the future.



Frozen Meters & Regulators due to water from upper deck

Configuration of Gas Appliances (for propane)

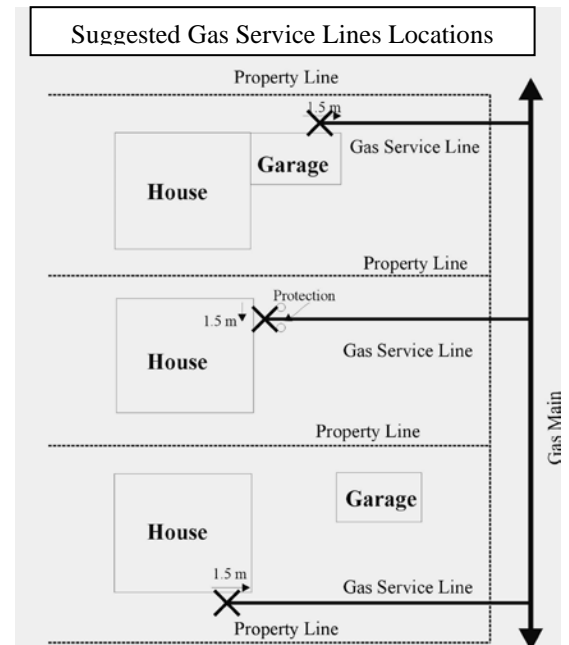
Most of your appliances will come from the factory and be set up for natural gas use. The grid system at Sun Peaks currently operates on Propane, which requires an inexpensive conversion kit. For most residential gas installations, you may not require a 2nd regulator on your gas BBQ. Check with your supplier or gas fitter. Don’t forget to keep the original natural gas components as we hope to convert the propane gas system to natural gas within the next 10 years, depending on the growth of the Resort.

Installation of Gas Meter Set & Service Line

All gas lines in the street and crossing your property up to and including the gas meter set are the property of Sun Peaks Municipality/Resort Gas Ltd. Plan for your gas meter location by following the site requirements. Meter locations must confirm to the National Standard CAN/SA Z662 (current addition), Installation Code (CAN/CGA-B149.1 (current addition) BC Gas Safety Code and to Sun Peaks Municipality standards.

The standard meter location is on the front wall of the building facing the gas main, or either side of the building no more than 1 ½ meters back from the corner of building facing the gas main.

- The standard running line of the gas service is a direct line from meter location to gas main, or to the existing service stub connection at the property line.
- This running line is to be **kept PERMANENTLY clear** of any above or below ground structures or obstructions (building debris, etc.) and **MUST** allow at least 1-meter clearance between the property line and buildings. No vegetation or other objects are allowed within 1 meter of the Gas Meter Set.
- The finished grade must be a minimum of 15 cm below the shut off valve (grease cock). If the gas riser is going to be placed within a permanent structure, then the riser **MUST** have a sleeve to allow for expansion of the surrounding materials. *Deviation from these standards may result in extra charges and require written permission.*



Information Flyer: Installing propane gas lines at Sun Peaks

Need a gas service line installed for your residence or business? In most cases, we can quickly and easily install a line for you. This guide covers what you need to know in advance and what you can expect when you need to have your propane gas lines installed.

What we need to know from you

- Are grade changes likely to occur? We need to know so the line can be buried at the appropriate depth. Please advise us before construction begins.
- The location of vents, sources of ignition and building openings (to allow for proper clearance).
- The gas appliances you'll be installing, as well as their rated BTU's and pressure requirements (please contact your gas contractor to obtain this information).
- The legal description of your property including the lot number. This is the description provided by the Land Title Office.
- The property's civic address. This is the address provided by the local city or municipal government to identify a property or site and the building(s) situated on it.
- Location of any underground facilities on the property, including septic systems, water lines or other buried lines.
- Location of trees, retaining walls, buildings or any other barriers to excavation.

What you can expect

Once you have gathered the required information, contact us to request an installation. If necessary, we'll obtain a permit for our work.

We'll also notify you of any additional requirements that may be needed along the way. Depending on the time of year, frost, ice and snow could result in delays. Please provide us with ample lead time by applying at least six weeks before you require service.

Site requirements

For prompt completion of your installation, please ensure the following site conditions are met prior to our crew arriving:

1. There is an approximately 3 metre (10 feet) wide running line for the gas service, free and clear of all debris, spoil and building materials.
2. Site is within 15 cm (6 inches) of final grade, and all other utilities are installed.
3. Building is at lock up: windows/doors in, roof on, siding on at meter locations.

4. All privately owned utilities within property boundaries are located and marked. The location of the gas meter is clearly marked on the building and meets gas code requirements.

What is a standard installation?

A standard installation means installing the service in the easiest and most direct route possible to avoid extra costs for you and to minimize future maintenance.

Service

Standard service means installing the line perpendicular to the gas main and running it straight to your meter location.

Meter

A standard meter location is defined as any point along your building wall nearest the gas main or up to 1.5 metres (5 feet) past the corner of the building that is nearest the gas main. If you exceed 1.5 metres past the corner, the location may not be approved or there may be excess footage charges applied. Code-required clearance from vents, sources of ignition and building openings may limit suitable meter locations (see diagram).

What charges to expect

Where possible, Sun Peaks Municipality works to ensure that your natural gas installation follows the most direct route possible. We complete most standard installations for a basic charge of \$2,508 and this includes the gas meter set, service line and excavation work.

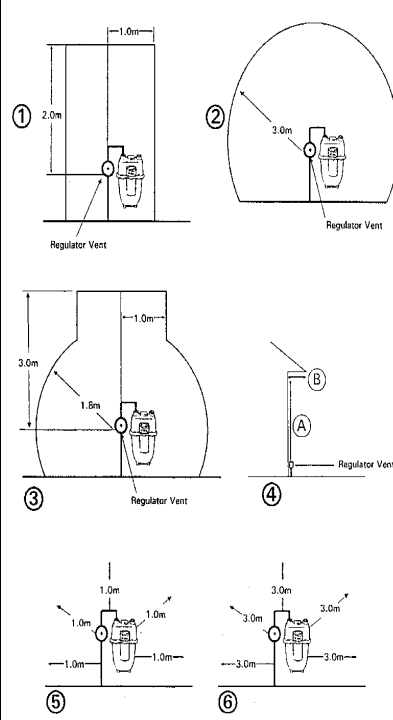
However, if your property requires a non-standard routing or meter location, extra charges may apply. Exact pricing for your installation will depend on the details of your project and will be discussed when you contact us to apply for service.

Our normal installation fee includes items such as trenching and backfilling. If road or pavement repairs are required, you may complete some of the work yourself to avoid additional charges.

Please note that you will be responsible for any costs associated with protecting the meter from falling ice or snow, vandalism, and vehicle traffic.

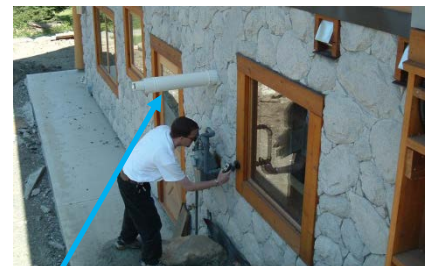
Tips to Builders for Gas

The following clearances are required between the gas meter set and other fixtures.

Fixture	Minimum Clearance (See attached drawing)	Sample Clearance Requirements for Gas Meter Sets
Building Opening: (Doors, Opening Windows, Cold Air Furnace Inlet, etc.) <i>Figure # 1</i>	1 meter horizontally or 2 meters vertically, from regulator vent	
Source of Ignition and Mechanically Powered Air Intake: (Generators, pool heaters, air conditioners or make up air unit fan inlet or fresh air furnace inlet connected to cold air return, etc.) <i>Figure # 2</i>	3 meters from regulator vent	
Flue Gas Duct: (direct vent fire place, etc.) <i>Figure # 3</i>	1.8 meters radially from regulator vent or 3 meters vertically if the horizontal clearance is less than 1 meter.	
Overhang: <i>Figure # 4</i>	The wall height from the ground to the ceiling above the regulator vent must be greater than the depth of the overhang.	
Electrical meter, clothes dryer, arc producing equipment, electrical switches & outlets: <i>Figure # 5</i>	1 meter radially from any part of the meter set.	
Swimming pool, hot tubs: <i>Figure # 6</i>	3 meters radially from any part of the meter set.	
Other flammable liquids and gases, electrical kiosks or transformers:	Consult Federal, Provincial and local regulations.	

This clearance information is provided for reference only. Please consult with Federal, Provincial or Local Regulations for the most current regulations, standards and practices.

Keep in mind, that the gas meter set must be placed so that it is high enough off the ground to allow for easy meter reading. This height is usually 24 to 48 inches (0.75 to 1.25 meters) off the final grade of the ground.



Installation example: Non-opening window, vent from furnace extended, meter protected from snow load by roof and easy access for meter reader.

Maintaining Your Gas Meter In Snow Country



Our meter readers do their best to provide our customers with accurate meter readings. You can help us serve you even better by keeping a few things in mind regarding the care of and access to your gas meter.

Quick Tips:

- Make sure that you and your family know where your gas meter's shut off valve is (normally located at your meter) and how to turn your gas supply off.
- Do not tie your pets to your meter or gas piping.
- Do not attach or chain objects (such as barbecues or bicycles) to your meter or gas piping.

Yard and Landscaping:

- Make sure your meter is visible and accessible at all times for maintenance and emergency responders (Sun Peaks' work crews, meter readers, and firefighters).
- Keep your meter clear of vegetation or other debris. *Don't plant trees or shrubs within 1 meter of your gas meter or Utility staff will remove the vegetation.*
- Keep the meter free of other obstacles, such as stacked firewood, bicycles or toys, etc.
- Never let children climb or play on the gas meter or pipes.
- Dig by hand when landscaping near your gas meter, if you damage a gas line, you may be responsible for the costs of repairs.
- If you have any doubts about where gas line or mains are located, please BC One Call at 1-800-474-6886. For after-hours emergencies, call 911.

Buildings:

- Your gas meter must not be enclosed in any way (i.e., additions to your home, a sundeck, railings, etc.).
- Similarly, home additions may not be built over a gas line.
- For detailed information or clearances of the gas meter from building openings, please contact Sun Peaks or your local Gas Safety Branch.

Winter-wise meter safety tips:

Your outdoor gas meter and piping are designed to withstand winter weather conditions, but heavy or hard-packed snow and ice, icicles falling from your eaves, and water dripping from your roof or hot tub and freezing on your meter can present a safety hazard.

To avoid problems:

- To keep your gas meter free from snow and ice buildup, don't allow snow to completely cover your gas meter or regulator. – Use a broom to remove soft snow build-up. Take care in using a snow blower or plow near your meter.
- When shoveling or using a snow blower, don't pile snow against or near your gas meter or gas pipes. Don't allow snow shoveled from decks to fall onto your gas meter.
- Make sure eaves troughs or roof overhangs don't allow melting snow to fall onto your meter. Icicles hanging from your eaves trough, water dripping from your roof, or freezing rain can create an icy build-up on your gas meter and connections.
- NEVER kick or hit your gas meter or its piping to remove built-up ice – Call Sun Peaks Municipality and we'll be happy to help you remove it!
- Keep the air supply ducts and vents clear. Gas equipment requires air for safe combustion and venting of appliances. Know where your air supply ducts are and keep them free of snow and ice. Check that your chimney or roof vent is clear. Some direct vent and high efficiency appliances have side wall vents and air intakes - ensure these vents are unobstructed.
- Why is it so important to keep your meter clear? Accumulated snow places stress on your meter piping and can cause damage to the piping resulting with a gas leak. In case of emergency; emergency response crews need clear access to your meter. Blocked regulator vents may result in abnormal pressure, affect appliance operation, and interrupt service.

BC One Call's Utility Location Services

Click/Check <http://www.bc1cl.ca> available 24 hours / day
or Dial 1-800-474-6886

THERE IS DANGER BELOW!

Every time you dig in the ground, wherever it may be, you run the risk of loss of life or damage to property if you hit any of the many buried cables, conduits, gas or oil pipelines and/or other underground facilities that serve our cities, towns, and rural areas.

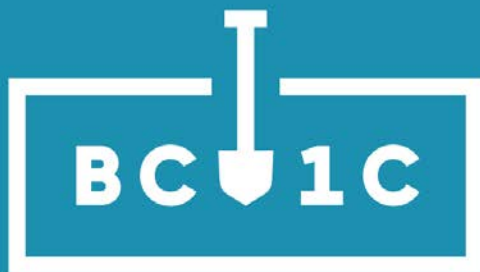
Knowing what underground facilities are buried in or near your dig jobsite is essential if deadly, dangerous, or destructive accidents are to be avoided. One phone call to BC One Call is the best way to find out what is buried on your dig site and which areas you must avoid when digging. BC One Call is a central agency where you can call to find out what is buried on your site and where not to dig.

It is the objective of BC One Call to eliminate the risk of accidents where digging or excavation work strikes buried facilities such as pipelines, telecommunication cables, water and sewage lines, and electrical wires. BC One Call is here to make your excavation activity safe and trouble-free.

It takes only one telephone call to BC One Call and within three days our members will tell you if, and where, their underground facilities are buried on your excavation site. To help you identify where the underground facilities are, the members of BC One Call will send you a site plan showing the exact location of their buried facilities or a technician will visit your site and provide physical markings.

And all this at no cost to you!

Even the telephone call you make to BC One Call is toll free from anywhere in BC when using either your landline or cell telephone.



NEW LOOK

You've always been able to call or click before you dig, but the popularity of mobile devices has made it easier than ever to submit your tickets any time and check for underground utilities.

In addition to our online system upgrade, our brand was well overdue for an upgrade as well. Our new look and ticket software reflect how people like you engage with and seek out information - making the entire process easy and quick. So whether you call, click or check before you dig, remember the 1st step is BC 1 Call.

Remember you still need to locate or higher a utility location firm to ensure you know where the underground utilities are.

British Columbia Common Ground Alliance (BCCGA) is a non-profit organization established to lead development of consistent practices and coordination of activities to ensure the highest possible standards of public safety, worker safety and damage prevention in connection with underground infrastructure. Visit the web site at www.commongroundbc.ca for a list of **Best Practices, Sec 4.0** when digging around underground facilities.



Guidelines for Temporary Markings of Buried Facilities

Attention Excavators:

- Owners of buried facilities who are not members of BC One-Call must be contacted directly by excavators' requiring locates.
- The hand expose zone for high pressure pipelines is 5m. For all other facilities the hand expose zone is 1m.
- Backfill inspections are required for exposed facilities, unless locate slip indicates otherwise.

Proposed Excavation

- Mark boundaries of the proposed excavation in white. Surface marks on roadways should not exceed 40mm by 450mm.

Use of Markings

- If your work is going to disturb the marks, it is your responsibility to provide more permanent marks, or references that will not be disturbed during your work.

Interpretation of Marks

- The marks you will find on your worksite show the type of facility, the direction the facility runs and its approximate location.

Hand Expose Zone

- Any excavation within the hand expose zone must be performed with non-powered hand tools or non-destructive techniques until the buried facilities are exposed and visible.

Depth of Facility

- Depth of facility cannot be given









Locate Flags and Wooden Stakes

- For environment & safety reasons, please remove locate flags & stakes upon completion of excavation activities.

Thank you for requesting that the locations of facilities be marked. Your respect for these facilities, for the safety of your workers and the public, is very much appreciated.

USE EXTREME CAUTION TO AVOID CONTACT WITH THE FACILITIES. ANY DAMAGE, NO MATTER HOW SLIGHT MUST BE REPORTED TO THE FACILITY OWNER.

INTERNATIONAL COLOUR CODE FOR MARKING BURIED FACILITIES

	WHITE - Proposed Excavation
	PINK - Temporary Survey Markings
	RED - Electric Power Lines, Cable Conduit and Lighting Cables
	YELLOW - Gas, Oil, Petroleum and Gaseous Materials
	ORANGE - Telephone, Cable TV, Communication, Alarm and Signal Lines
	BLUE - Potable Water
	GREEN - Sanitary Sewers, Storm Sewers and Drain Lines
	PURPLE - Reclaimed Water, Irrigation and Slurry Lines



FACILITIES MUST BE HAND EXPOSED AND VISIBLE BEFORE MECHANICAL EQUIPMENT IS USED WITHIN THE HAND EXPOSE ZONE.

Other Utility Services at Sun Peaks

Remember to make arrangements for service as soon as possible. Winter comes early at Sun Peaks.

Electrical Service

Electrical service is provided by BC Hydro. For permit, installation and cost details please contact BC Hydro at 1-877-520-1355 or visit them on the Internet at www.bchydro.com.

Telephone, Internet & TV Services

Telephone and High-Speed Internet Access are provided by TELUS. For installation and cost details, please contact TELUS at 310-2255 (out of province – 1-888-811-2323) for residential customers and 310-3100 or 1-888-811-2828. You can visit them on the Internet at <http://www.TELUS.net>.

TELUS has delivered a telecommunication system at Sun Peaks that supports advanced telecommunication, multi-media and Internet services. To ensure that your property has the ability to utilize these services when you want them, please refer to the attached “Wiring Your New Home” guide. Commercial properties may want to consult a telecommunication wiring specialist.

Hot Spot Internet Service

A number of areas within the resort offer “Hot Spot” or wireless Internet Access. Look for the symbol for wireless access displayed or check your device for available wireless networks.



Cellular Services

Cellular service is available at Sun Peaks through TELUS Mobility (www.telusmobility.com) and Rogers Wireless (www.rogers.com) and other cellular suppliers.

Please check either supplier for service details or your own cellular supplier for compatibility, roaming information and local access numbers.

Trouble Reporting -- Many of the numbers at Sun Peaks to report troubles are new. Please find attached a list of reference numbers for your convenience. Additional copies are available at the Sun Peaks' office.

Sun Peaks Emergency & General Contact Telephone Numbers

Emergency Services		Emergency Phone or Cellular Number	Office & General Inquiry Numbers	
Ambulance		911	250-374-4411	
BC One Call – Underground Service Info		1-800-474-6886	Cellular #6886	
Cellular Service		See www.TELUS.com or www.Rogers.ca for details		
Electricity Outage		1-888-224-9376 or *HYDRO (*49376) on your mobile		
Electricity (BC Hydro) www.bchydro.com	1-800-224-9376	Customer Service Power Smart Programs	1-800-224-9376	
Fire – Sun Peaks Fire & Rescue		9-1-1	Sun Peaks Fire Hall 250-578-8985	
Medical – First Responders (BC Ambulance Service)		9-1-1	Non-Emergency 250-374-4411	
Gas Service (<i>gas odours, gas system damage</i>) (Sun Peaks only)		Emergency/After Hrs 250-319-0629 or 9-1-1	250-578-2020	
General Information	Installation	General Office Phone Numbers	Contact Name	Emergency Phone or Cellular #s
Internet Access		See TELUS (or Mascon) for service details		
Ministry of Highways http://www.gov.bc.ca/tran		250-828-4200		250-828-4672
Police (RCMP's Rural Detachment)		9-1-1	Non-Emergency – 250-828-3062 or 828-3000	
Sun Peaks Mountain Resort Municipality http://www.sunpeaks municipality.ca		T: 250-578-2020 F: 250-578-2023	Municipal Services	9-1-1
Telephone – Commercial www.TELUS.com		310-3100	Customer Service	611 - Repair Service
Telephone – Residential (TELUS) www.TELUS.com		310-2255	Customer Service	611 - Repair Service
Telephone Services		See www.TELUS.com for service details		
Water & Wastewater (Sun Peaks)		250-578-2020	Utility Division	After Hours 250-319-0629
Emergency • Water or Sewer • Gas Emergency or Gas Odour			250-319-0629 or 9-1-1	250-578-2020

Appendix I – Sensus Water Meter Supply & Installation



iPERL™ Water Management System Installation Guidelines

To ensure proper performance, the following factors should be considered when installing an iPERL system:

- Suitable shutoff valves should be installed adjacent to the inlet and outlet of the iPERL system so that the service may be shutoff if it is necessary to remove the iPERL system.
- Clean and flush the service line thoroughly on the inlet side before installing the iPERL system.
- Make sure that metallic water service plumbing is properly grounded as per local electrical codes. If installing indoors, install an electrical grounding strap for safety.
- The water lines must be coaxially aligned within 3 degrees (0.4 inches) to ensure a proper seal.
- It is recommended that old gaskets be completely removed and discarded and new 3/32" thick rubber gaskets be used with every installation.

To install an iPERL system:

1. Unpack the iPERL system from the packaging and remove the spud thread protectors.
2. Inspect the iPERL system for any parts that may have been damaged during shipping.
3. If a new install, thoroughly flush new water service plumbing before installing the iPERL system.
4. Turn off the water supply valves.



Insure the metallic water service plumbing is properly grounded per electrical codes.
If installing indoors, install an electrical grounding strap for safety.

5. If an existing install, pull the current meter out of the pit or disassemble current meter.
6. Orientate the iPERL system so that the direction of the flow arrow on the system body is aligned with the direction of the flow arrow in the plumbing system.
7. Install new iPERL system connection gaskets in both meter couplings.
8. Align the threads and hand-tighten the coupling nuts.
9. Using a wrench, tighten an extra 1/4 to 1/2 turn on each coupling nut.

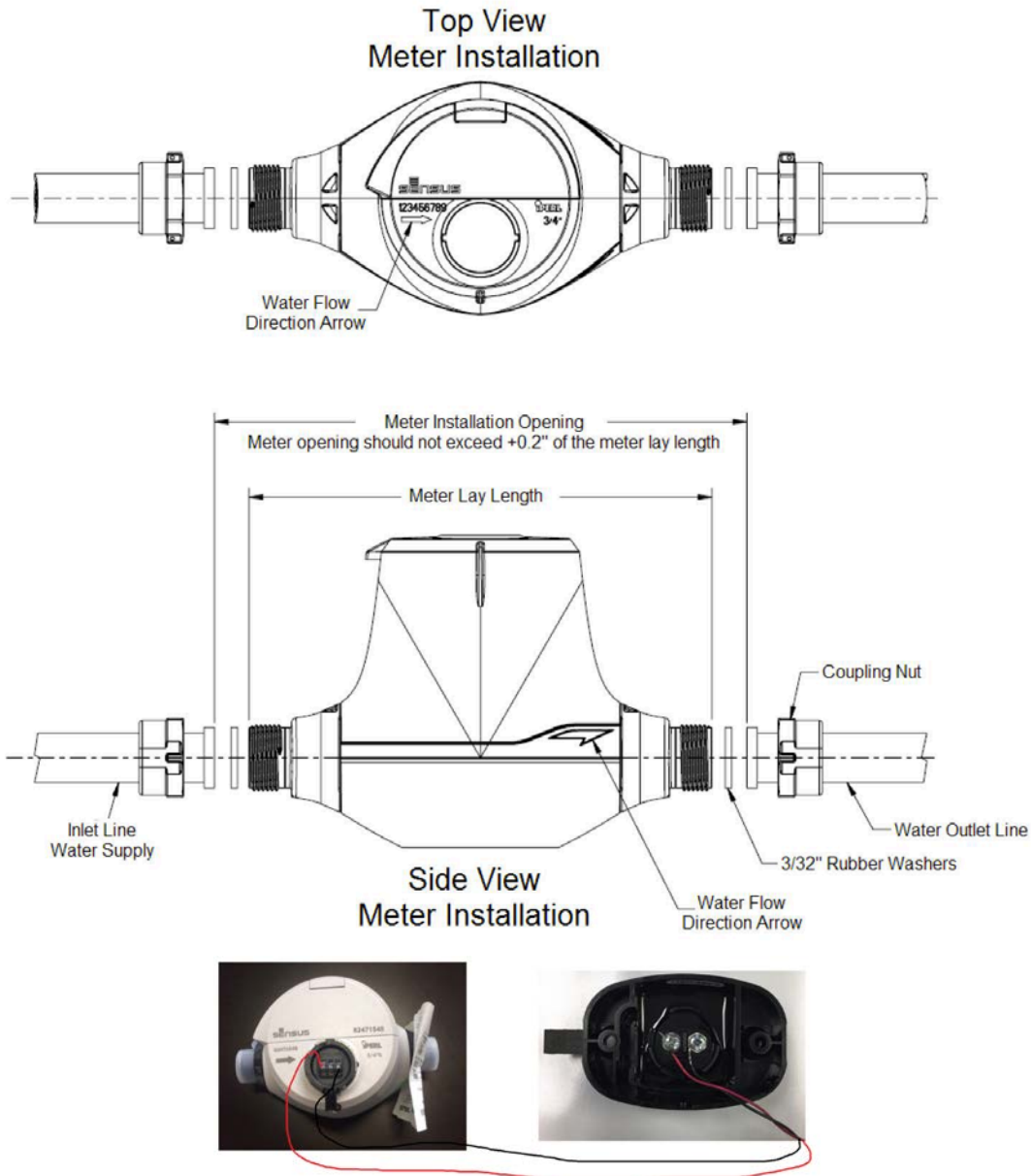


Do not over-tighten. You may tighten after turning on the water (if leaks are present).

10. After the iPERL system is installed, shut-off the outlet shut-off valve.
11. Open the inlet shut-off valve slowly until the iPERL system is full of water and ensure that there are no leaks.
12. Open the outlet valve slowly until air is out of the meter and service line.
13. Open a valve downstream of the iPERL system to ensure that no foreign debris in the water obstructs the operations of the system.
14. Check the read on the iPERL system to make sure it is registering a positive number. If it is not, make sure the iPERL system is installed in the correct direction.
15. Attach an endpoint to the iPERL system via a coupler cable, if required.
16. Record read information as required by the utility.



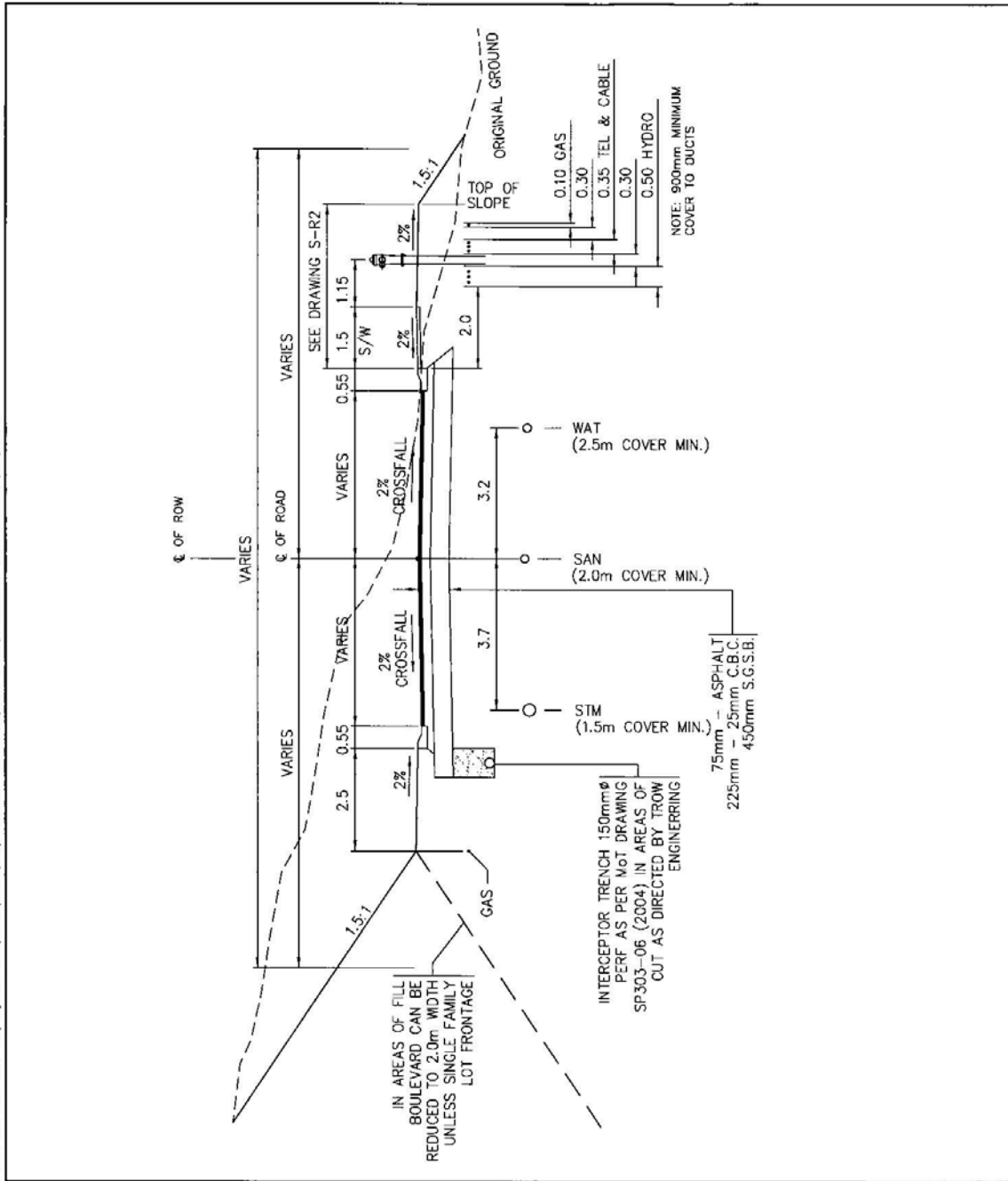
iPERL™ Water Management System Installation Guidelines




Remote Touch Sensor Wiring – Red to Red & Black to Black (*remote wiring connections doesn't matter*)

Appendix II – Typical Utility Road Layout Cross Section

PROJ. CAD FILE No.: U:\Projects_KAM\1413\0103\03\1-Tenders-Contracts\2005 Draft\S-R2.DWG PLOT DATE: 05/04/28 DF



 <p>SUN PEAKS RESORT</p>	SCALE: NOT TO SCALE		TITLE: STANDARD ROAD SECTION	
	DATE DRAWN: April 28, 2005	LATEST REVISION DATE:		
	APPROVED BY:		REVISION No. 0	DWG.No. S-R2

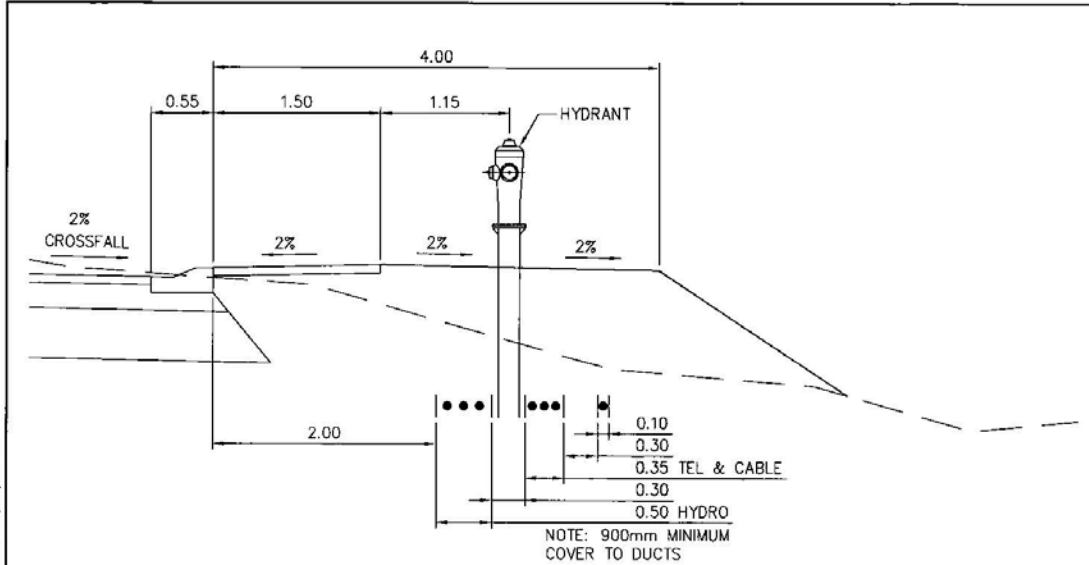
Sun Peaks Mountain Resort Municipality (Utilities).

106 – 3270 Village Way, Sun Peaks, British Columbia, V0E 5N0

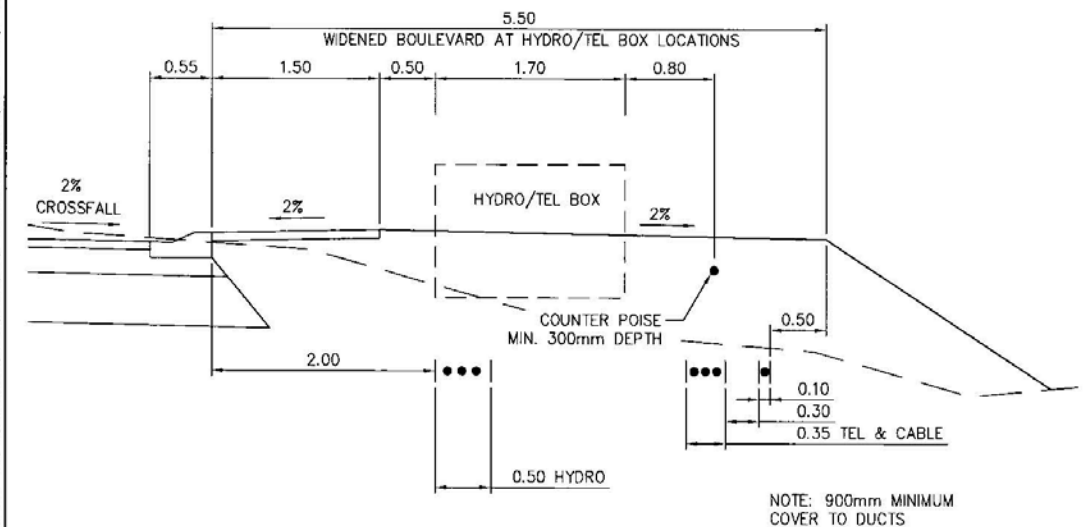
Telephone: 250-578-2020 – Facsimile: 250-578-2023

Web Site: www.sunpeaksmunicipality.ca www.sunpeaksutilities.com – General Email: info@sunpeaksutilities.com


PROJ. CAD FILE No.: U:\Projects_KAM\1413\0103\03\T-Tenders-Contracts\2005 Draft\S-R3.dwg PLOT DATE: 05/04/28 DF



TYPICAL HYDRANT & UTILITY SECTION



TYPICAL HYDRO/TEL BOX & UTILITY SECTION

 <p>SUN PEAKS RESORT</p>	SCALE: NOT TO SCALE		TITLE: UTILITY BOULEVARD SECTION	
	DATE DRAWN: April. 28, 2005	LATEST REVISION DATE:		
	APPROVED BY:		REVISION No. 0	DWG.No. S-R3

Appendix III – TELUS Installation Information

TELUS Planning Multimedia Outlet Locations and Cable Routing

Introduction

To enable your home for enhanced systems, TELUS Fibre Optic multimedia services, or as a smart home, all installed runs of CAT5e and coax must be terminated at a centralized location which is a cross-connect location between incoming service wire and in dwelling runs. TELUS will install various active devices (switch/routers and termination devices) at this location. This centralized location is identified by the Multi-media Enclosure in most diagrams (see Diagrams 1, 2, and 4, Figure 1) and is to be in a heated environment where there is no risk of the ambient air temperature falling below 0° (zero) Celsius and is accessible for servicing and takes into consideration all other factors that could limit or degrade the services provided on the cabling, see Table 1 for recommended clearances from other electrical interferers.

It is important to place a non-metallic “Flexible or Rigid conduit” (complete with string) pathway in the stud wall or concrete slab from the Network Interface Box (NIB) on the outside of the house to the inside wire Star Configuration or Multi-media Enclosure inside the home. This has to be done for all suites that may be within the same property or structure. Plan this (these) routes to be as short as possible, with the least amount of bends (sweeping 90), four 90 or a total of 360 degrees of bends allowed in one section without an extra pull box location.

When selecting Multimedia Outlet (MO) locations, select those that suit both your present and future needs. TELUS suggests you consider a minimum of two (2) outlets in each of the areas shown here in Diagram 4. A separate cable run will be required for each service or device at each outlet. For example, if the outlet contains two jacks, one for telephone and one for Internet service, then two sets of four-pair cable will need to be run to this outlet. For rooms designated as likely candidates for the location of entertainment or multimedia equipment (e.g. living room, family room, home office, home theatre room or den), additional wall outlets should be allocated, and the MO should contain both Cat5e and RG 6 coaxial cable. In considering the future, be aware that there are smart appliances and entertainment equipment that will be using the internet and in-home networking.

It is not necessary to have a communications and data device connected at every prewired location, however, by planning ahead it reduces future costs and creates flexibility for the Home Owner. Unsightly surface wire, additional installation time and inflexibility of device arrangements are consequences of not planning. Adequate wiring will give customers flexibility in arranging their telephone, second line, FAX lines, and multimedia services such as TELUS TV or Computers networked and other devices that utilize the internet or the home network.

Please refer to Form P546 (BC) or P630 & P730 (AB) for connection to TELUS service and owner / developer’s support and housing requirements. ([See the Additional information section](#))

At this stage of planning, Security wiring, in home theatre, intercom and any other conveniences should be considered so that their wiring can be installed while the home is in the construction stage.

TELUS must be contacted when the pathway is in place to install the service entrance wire and the demarcation block.