

## WATER & SEWER REGULATIONS

### PUBLISHED BY AUTHORITY

Pursuant to the powers vested in it under and by virtue of Sections 413, 414 of the *Municipalities Act, 1999*, Chapter M-24, SN 1999, the Town of Conception Bay South in regular session on this 3<sup>rd</sup> day of November, A.D. 2009, hereby passes the following Regulations:



WOODROW FRENCH  
MAYOR

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#### 1. TITLE

These Regulations shall be cited as the "Town of Conception Bay South Water and Sewer Regulations, 2008".

#### 2. INTERPRETATIONS

In these Regulations, unless the context otherwise requires:

- a. "Act" shall mean, "*The Municipalities Act, 1999*"
- b. "Town" shall mean the Town of Conception Bay South as defined by Order in Council dated the 21<sup>st</sup> day of August A.D., 1973.
- c. "Council" shall mean the Town Council of the Town of Conception Bay South.
- d. "System" shall mean the public water supply and sewerage system of the Town Council of Conception Bay South as the owner and operator of plant and equipment for the procurement, transmission or delivery of water to the public and for the collection, conveyance, and disposal of sewage.
- e. "Customer" shall mean any person, firm, or corporation who is supplied with water or uses the Town's sewer system for the disposal of sewage.
- f. "Domestic Service" shall mean the type of service supplied to the owner, occupant or tenant of a space or area occupied for the distinct purpose of a dwelling house, rooming house, apartment, or other residence.
- g. "Commercial Service" shall mean any services other than domestic as herein defined.
- h. "Inspector" shall mean any person appointed as such by the Council.

- i. "Service Stub" shall mean a service pipe connected to the system and extending to the property line of the customer.

### **3. APPLICATION**

These Regulations shall apply only in the area or areas of the Town in which water and/or sewage service is provided by the Council.

### **4. LOSS OR DAMAGE**

Council shall not be responsible for any loss or damage from flooding water occasioned by rain storms, thaws, or breakage, or blockages of any water main or sewer or from any cause over which Council has no control.

### **5. CONNECTION CRITERIA AND REQUIREMENTS**

- a. The owner of a building or other premises which is within two hundred (200) feet of the system (measured from the property boundary along the street which contains water and/or sewer to the side/end of the house closest to the street) shall, within six (6) months of the installation of the mains in the area, have such building or other premises connected to the Water and Sewer System provided that such connection is feasible and sewer can be provided via the use of gravity without mechanical devices such as lift stations, pumps, etc.

In the event a sewer system is unable to connect via a gravity flow system the owner shall not be required to connect, however, in the case where he/she chooses to connect via the use of a domestic lift station, the lift station system shall be inspected by the Town and confirmed to be installed and operating properly.

In the event the owner chooses not to connect due to the unavailability of gravity flow, he/she shall not be charged the sewer tax or Connection Fee (past practice).

- b. No water and/or sewage service shall be provided by the Town's System until the prospective customer has submitted and signed a regular application form at the Town office, and received a permit for the work. Fees for permits are set annually in the operating budget.
- c. No building or other premises which is more than five hundred (500) feet from the System shall be connected to the System by individual service pipes unless such pipes are designed by a qualified designer and approved by the Town's Engineering Department.

- d. Any prospective customer who is in arrears of Municipal Service Fees or other taxes shall not have their premises connected to the System.
- e. Residents/ property owners of existing homes who are capable of connecting to the system in accordance with regulations and who fail to do so shall be required to pay the Connection Fee and water and sewer tax from date of connection or six (6) months after services are available, whichever is first.

## **6. WATER AND SEWER CHARGES**

- a. Customers shall be assessed an annual fee for water and sewer services, the amount of which is set in the annual operating budget.
- b. Bills for water and sewage rates shall be rendered annually. Customers in arrears of water and sewage taxes or assessments may have their services discontinued, as per conditions outlined in these Regulations.

## **7. CARE AND PROTECTION OF SYSTEM**

- a. Water service connections to the municipal water system will not be permitted in any manner which creates or may result in a cross connection with another water supply.
- b. No customer shall permit the improper use or waste of water, nor allow the discharge of material harmful to the system into the sewers. Water may not be sold to others and may be given away only under conditions and for such purposes as may be approved by the Town in writing.
- c. No person except an authorized employee of the Town, while in the performance of their duties, shall open, enter, injure, alter, or disturb any manhole, chamber, control panel, or any other component of the system, nor shall any unauthorized person open, close, make connection to, nor draw water from or in any way disturb or damage any valve, pipe, meter, curb stop, valve box, fire hydrant, or any other component of the system.
- d. Any contractor or individual who, in the process of erecting a building, making land alterations, installing services lines, or for any reason whatsoever, cuts, breaks, obstructs, or otherwise interferes with any manhole, valve, control, hydrant, or any other component of the System without the permission of the Town shall be liable for the cost of repairs to the system, unless some prior written contract has been made in reference to the particular work. All repairs shall be made by the Town using Town forces or other, as they deem necessary, and the costs shall be borne by the contractor, individual, etc., who, in the Town's opinion,

has caused the damage(s). All rates for equipment, manpower, etc., shall be charged so as to totally reimburse the Town for all costs incurred.

## **8. PROCEDURE FOR CONNECTION TO MAIN LINES**

The work of connecting a building or other premises to the system shall be performed as follows:

- (i) The connection of sewage and water supply pipes to the system shall be done by employees of the Town, or by a contractor or person engaged and approved by the Town for that purpose.
- (ii) Service stubs shall be installed by an approved contractor of the Town from the mains to a point on the boundary between the customer's property and the road right-of-way. The location of this point along the property owner's boundary shall be specified by the owner on his application for service, so that the service stub is brought to the location most convenient for his purpose. The Town reserves the right however to change the recommended location if service to that point is found to be technically unfeasible or costs in excess of the cost to service at another location.
- (iii) The work of extending the service stub into the property owner's premises and connecting to the internal plumbing system shall be done by the customer, but shall be subject to the specifications and inspection procedures as provided hereafter.
- (iv) When the complete service is fully operable and all provisions of these Regulations have been met, the water service will be turned on by an employee of the Town.

## **9. COST OF CONNECTION**

The cost of connecting to the system shall be borne by the customer as per the current schedule of rates and fees.

## **10. ADDITIONAL REQUIRED SERVICES**

- a. Customers requesting services to new buildings or premises constructed after the installation of the mains to which they will connect or existing buildings in which a larger or additional service is desired shall pay the full cost of installing the service stub. Work shall be carried out only by an individual or contractor approved by the Town and must comply with all Regulations in effect at time of installation.

- b. A security deposit will be held for a period of up to one year but not less than three months for the surety against damages to the Town's infrastructure, maintenance and replacement of asphalt and gravel crosscuts respectively. The amount of the deposit shall be as per the current schedule of rates and fees.

## **11. REQUIREMENTS OF EXTENDING SERVICE STUB**

- a. In all cases, the customer must bear the full cost of the work in extending the service stub to the building and connecting thereto.
- b. All work done by the customer in extending the service stub onto the premises and making connections thereto shall be done in accordance with these Regulations and the Town's Engineering Standards, and shall be subject to inspection by the Town as outlined in the following:
  - (i) After all pipe and fittings have been installed, connected and bedded up to the mid-diameter as hereinafter specified, but before backfilling is commenced, an inspection of the work shall be made by Town forces.
- c. If backfilling is done before the inspection is performed, the Town will require the customer to uncover the work at his own expense for inspection before the service is activated.
- d. It shall be the duty of the customer to notify the Town when the work is ready for inspection.
- e. The inspection shall be done on a first come first served basis as manpower becomes available.
- f. Backfilling operations may not commence until the customer has received written approval of the work from the Inspector, which approval shall be given at the time of inspection, or within one (1) working day of inspection provided that the work is satisfactory.
- g. If the work is not found to be satisfactory, it shall be the customer's responsibility to have the work completed to a standard acceptable to the Town, in accordance with a Deficiency List that the Inspector will give to the customer. The work will then be re-inspected when the deficiencies have been made good and the procedures outlined above repeated.
- h. The service will not be activated until the customer has received approval of the work, and the excavation has been backfilled.
- i. At all reasonable times during the period of the customer's receipt of water and/or sewage service from the Town, the Inspector may, upon request

made to the owner or occupant, enter and have free access to all parts of any building or premises to which service is provided.

**12. MATERIAL SPECIFICATIONS**

a. Materials used in the extension of water service stubs to a building shall comply with the following specifications:

(i) Pipe shall be Type "K" copper. The pipe size for domestic services shall be determined from the following table:

Avg. main pressure in vicinity	Length of service pipe including service stub					
	25'	50'	75'	100'	150'	200'
20-40 PSI	3/4"	3/4"	1"	1"	1"	1"
40-60 PSI	3/4"	3/4"	3/4"	3/4"	3/4"	1"
Over 60 PSI	3/4"	3/4"	3/4"	3/4"	3/4"	3/4"

This table is for single family units, or for residences with basement apartments and is based on a maximum demand of eight decimal thirty-one (8.31) IMP. GPM. Service pipes to multiple family units or to commercial customers must be sized on the basis of expected demand, pipe length, and water pressure and the system must be designed by a qualified individual or firm and approved by the Town's Engineering Department. Approximate water pressure for any area may be ascertained by contacting the office of the Town Engineer.

(ii) Joints and fitting connections in water service pipes shall be compression type or flared connections and completely water tight.

(iii) Each customer shall install inside the building or premises to be serviced, in an easy accessible place, any and all fittings required by the Town. These fittings are to have compression type or flared connections and shall be installed upstream of the point at which the service pipe connects to the building's internal plumbing system.

b. Customers shall install the following water fittings indicated:

(i) A shut-off valve of a type approved by the Town shall be installed by all customers.

- (ii) A pressure reducing valve of a type approved by the Town shall be installed by all customers serviced by water mains. The customer shall be responsible for the proper setting and maintenance of this valve, and for any damage caused by its improper setting or its failure.
  - (iii) A water meter with recording device of a type approved by the Town shall be installed by any commercial customer who is specifically requested to do so by the Town. The necessity for this device will be determined by the Town after a review of the expected water demand of the establishment.
  - (iv) A back flow prevention device of a type approved by the Town shall be installed by any commercial customer specifically requested to do so. The necessity for this device will be determined by the Town after a review of the internal plumbing system of the establishment with particular attention paid to cross-connections in the system, and the nature and volume of fluids which may back flow into the Town's system.
  - (v) A vacuum relief valve is to be installed on each and all water reservoirs (i.e. hot water heater) to prevent back siphonage into the Town's system.
- c. Materials used in the extension of sanitary and/or storm sewage service stubs to a building shall comply with the following specifications:
- (i) Pipe shall be of the following type unless special approval is given by the Town in writing for another type:
    - 1. Polyvinyl Chloride (PVC) plastic pipe with joints as specified hereafter and laid with bell end upstream. Pipe shall be type SDR 28 or better.
  - (ii) Joints used in sewage service pipes shall be water tight and of the following type:
    - 1. For PVC pipe, joints shall be made using pipes with bell and spigot ends and water tight gaskets as recommended by the manufacturer.
  - (iii) All storm sewer piping from the storm main to a minimum of 300mm inside the foundation wall of all new residential, commercial and industrial properties shall be a minimum of 150mm diameter and shall be a minimum SDR 35.

- d. Fittings on sanitary and/or storm sewer lines shall be of a type approved by the Town and designed specifically for connection to the particular type of pipe used. All fittings shall be water tight and as specified in the following:
- (i) Bends or elbows in the pipes will be permitted only in special cases, as outlined in 13c. of these Regulations and shall be of long radius design.
  - (ii) Cleanouts are required on each separate service connection. Section 12 (c) of these Regulations set forth the materials and configuration of each cleanout, which are to be located as follows:
    - 1. In an easily accessible place inside the building, giving straight-line access to the sections of sewer service pipe buried outside the building.
    - 2. At any and all horizontal bends in the service pipe.
    - 3. Such that no section of pipe, including the service stub is more than 75 feet down stream of a cleanout.
    - 4. A check valve (back water valve) approved for use on sewage lines shall be installed in an easily accessible place approved by the Town on every sewage service pipe. A cleanout is to be placed directly on the street side of the check valve.
    - 5. A check valve (back water valve) approved for use on storm water piping shall be installed in an easily accessible place approved by the Town on all storm water piping. A cleanout is to be placed directly on the street side of the check valve.

### **13. INSTALLATION SPECIFICATIONS**

- a. In planning for the installation of water and sewage service pipes, the following requirements for location and alignment of the pipes shall be followed.

Services shall only be installed subject to the following conditions:

- (i) No two premises supplied with water and/or sewage services shall be dependent on one service stub, provided always that a basement apartment may use the same service stub as the main residence unit only if the internal plumbing system of the building is



one integrated system and not separated into separate systems for each dwelling unit.

- (ii) No more than one service stub will be provided to each customer for any one building.
  - (iii) No service pipes will be permitted to run along any private road giving access to more than one dwelling unit or commercial establishment, nor across the private property of anyone other than the customer receiving the service unless an easement is obtained and all conditions of the Town's Temporary Servicing Policy are adhered to.
  - (iv) Location, alignment and configuration of service connections shall in all cases comply with these Regulations and the Provincial Government's Water and Sewer Municipal Master Specifications.
- b. The vertical alignment of the service pipes must be carefully controlled to conform to the following requirements:
- (i) The minimum depth of earth cover over the top of pipes must be five (5) feet in order to provide protection against freezing. In places where ground conditions make it impossible to obtain this depth of cover, special approval must be obtained from the Town. In such instances, the Town may require that insulation, heat tracing, or some other special protection be provided.
  - (ii) Sewage service lines must be laid at a uniform constant slope, with no vertical bends or deflections from the service stub to the inside of the building's foundation wall. A downward slope in the direction of flow of at least one-quarter (1/4) of an inch to the foot (approximately 2%) should be maintained if possible. A minimum slope of one-eighth (1/8) of an inch to the foot will be permitted where necessary if the slope is uniform, workmanship is satisfactory, and if there are no horizontal bends or deflections in the line.
- c. The horizontal alignment of the service pipes must conform to the following requirements:
- (i) If possible, no horizontal bends or deflections shall be installed on a sewer line anywhere between the service stub and the inside of the foundation wall of the building.
  - (ii) Horizontal bends will be permitted only if all of the following conditions are met:

1. The customer has received permission from the Town to have bends installed.
  2. The building or premises to be serviced was built prior to the installation of the water and sewer mains. Buildings constructed after that time should be designed and located such that a straight-line sewer run to the mains is possible.
  3. The bend or bends are necessary in order to properly align the service pipes and the service stub.
  4. Renovations to the internal plumbing system of the premises in order to change the entry point of the service lines would be impossible or very costly.
  5. A cleanout is installed at each bend as specified hereafter.
  6. No more than two (2) ninety degree or three (3) forty-five degree bends are permitted.
  7. The slope of the sewage service including bends is at least one-quarter (1/4) of an inch to the foot.
- d. The installation of cleanouts on the sewage service lines shall conform to the following requirements:
- (i) Cleanouts located inside a building shall be placed at the bottom on the soil stack provided that the service pipe between this location and the foundation wall contains no bends or deflections and provided the cleanout is located on the street side of the backwater valve.
  - (ii) Where a bend or deflection is located in the sewage line between the foundation wall and the soil stack, the cleanout shall be located either at the bend or immediately inside the foundation wall.
  - (iii) Cleanouts located inside a building or other premises shall be kept easily accessible at all times and shall be located so as to provide a minimum four (4) foot working space.
  - (iv) If possible, cleanouts shall be located so as to provide straight-line access to the sewer line. Otherwise, the cleanout shall form a maximum angle of forty-five (45) degrees with the sewage line.
  - (v) Cleanouts installed at bends in the pipes shall be extended to within three (3) to six (6) inches of finish grade, at an angle of forty-five (45) degrees to the pipe towards the direction of flow.

- (vi) The customer shall keep a permanent record of measurements from each buried cleanout to at least three (3) nearby permanent points for future location of the cleanout. The customer shall be responsible for location and uncovering any cleanouts should a blockage of the sewer pipe occur.
  - (vii) All cleanouts inside the building shall be capped with an approved threaded pipe cap. Cleanouts located outside the building shall be either threaded or push on but must be water tight design.
- e. All water and sewage service pipes are to be bedded and backfilled in accordance with normally accepted engineering practice.
- 1. All pipes shall be carefully supported along their entire length on a bed consisting of one of the following:
    - (i) Undisturbed earth.
    - (ii) Hand-tamped or mechanically compacted sand or road gravel.
    - (iii) Hand-tamped or mechanically compacted excavated material, hand selected and free from rocks or other unsuitable materials.
  - 2. Similar material to that used in the bed shall be placed and hand-tamped under and around the pipes up to the mid-diameter and left for inspection.
  - 3. After approval by the Inspector, the first twelve (12) inches of backfill shall be hand selected and placed over the pipes, taking care that no large rocks lie within twelve (12) inches of the pipes.
  - 4. The remaining backfill may then be placed either by hand or by machine.
- f. If any disturbance or damage is caused to any road, road shoulder, drainage ditch, culvert or other public property during the course of the work, it shall be the responsibility of the customer to repair and/or replace all disturbed property and clean-up to the satisfaction of the Town.

#### **14. MAINTENANCE OF SERVICES**

- a. No customer shall discharge, nor permit the discharge of any of the following materials into the sewage system.
  - (i) Corrosive, explosive or inflammable material.

- (ii) Non-biodegradable material such as plastic, glass, metal or cloth.
  - (iii) Large or bulky material that could promote the blockage of pipes or damage to pumping or treatment equipment.
  - (iv) Effluent from garage floor drains, storm sewers, rain gutters or weeping tiles.
- b. If a leak, blockage, freezing or other trouble occurs in a service pipe the customer shall provide written notification to the Town of every such occurrence and it shall be repaired as soon as possible in the following manner:
- (i) If the trouble occurs between the main and the property line within the Town's right-of-way it shall be repaired by the Town at its own expense.
  - (ii) If the trouble occurs elsewhere in the service pipe (i.e. on private property) it shall be repaired by the customer at the customer's expense and inspected by the Town. This work is to be performed in the same manner as new installation stated in these Regulations and a permit shall be required and obtained at no cost to the customer and shall be obtained prior to starting any work.
  - (iii) The Town may make the repairs for the customer when requested to do so and the customer shall pay the cost thereof within thirty (30) days of completion of the work.
  - (iv) If the repair work is done by anyone other than employees of the Town, the Town must be notified in order to activate any valves or inspect any backfill procedures. All installations repairs, etc., are required to be inspected by the Town and a permit shall be required from the Town prior to proceeding.
  - (v) If, in the opinion of the Town, the problem poses a hazard, undue water wastage, or other public concerns, and if the customer fails to repair, etc., in a specified time frame as specified by the Town, then the Town reserves the right to perform all such repairs and back-charge the customer for all related costs associated with the required works.

## **15. DISCONTINUATION OF SERVICE**

- a. The Town shall have the right to discontinue, refuse or suspend services from the system to customers for any one of the following conditions:

- (i) Non-payment of water and/or sewer rates within thirty (30) days of the date the bill is rendered.
  - (ii) Recurring discharge of unauthorized materials into the sewage system.
  - (iii) Recurring and unnecessary wastage or improper use of water supplied.
  - (iv) Refusal to have a service line leak repaired if, in the opinion of the Town, repair of the leak is necessary in order to prevent waste of water or contamination of the soil.
  - (v) In order to effect maintenance procedures or to tie in new services.
- b. The Town shall give the following notice to any customer whose service is to be permanently or temporarily discontinued:
- (i) Ten (10) days notice in writing if service is to be discontinued for non-payment of bills, unauthorized discharges or improper or wasteful use of water.
  - (ii) Forty-eight (48) hours notice verbally, with the notice later confirmed in writing if service is to be discontinued due to an un-repaired leak.
  - (iii) Twenty-four (24) hours notice verbally or by public radio broadcast if service is to be discontinued for maintenance of the system or to tie in a new service.
  - (iv) The Town is not required to give advance notice if service must be discontinued temporarily due to an emergency situation.
- c. A customer's service may be discontinued at any time upon the Town's receipt of the customer's written request to do so.
- d. Any service which is discontinued for any reason except immediate repairs to the system or service pipe shall not be reconnected unless and until:
- (i) Any arrears of water and sewer taxes are paid.
  - (ii) The customer, whether being the same customer as previously serviced or a new occupant of the premises being serviced, pays a

reconnection fee in accordance with the current Schedule of Rates and Fees, this amount being subject to renewal and review of the annual operating budget.

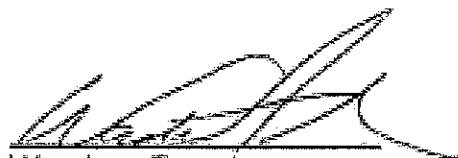
**16. CONTRAVENTION OF REGULATIONS**

- a. Any person who neglects or fails to comply with or acts in contravention of these Regulations shall be guilty of an offense and shall be liable on Summary conviction to a penalty as provided for in Section 420 of the Act.
- b. All previously adopted Water and Sewer Regulations for the Municipality are hereby repealed.

**17. EFFECTIVE DATE**

These Regulations shall come into force on the 4<sup>th</sup> day of November, 2009.

In witness whereof the Seal of the Town of Conception Bay South has been affixed hereto and these Regulations have been signed by the Mayor and the Chief Administrative Officer on behalf of Council on this 4<sup>th</sup> day of November, 2009.



Woodrow French  
Mayor



Keith Arns  
Chief Administrative Officer

**AMENDMENT – Approved May 19, 2009 – Resolution #09-195**

**(1) Acceptable Product - Water Services 50 mm and smaller**

Cross linked Polyethylene pipe: To CSA B 137.5, ASTM F877, PPI TR-4, NSF 14 and NSF 61, with co-extruded UV shield to allow exposure to natural sunlight for up to 1 year.

The minimum degree of cross-linking shall be 80%. Approved products:  
MUNICIPEX

**(2) Size of Water Services**

Specification of the diameter of a water service depends on such factors as length, building fixture units, allowance for future building expansion, internal building plumbing sizes and available street pressure. It is the responsibility of the Developer or his agent to properly specify water service sizes in order that the finished development will have a water service which is properly sized in accordance with the Canadian Plumbing Code.

The minimum water service size allowed by the Town of Conception Bay South using MUNICIPEX is 25 mm.

25 mm, 38 mm and 50 mm water services shall be one length with “no joints allowed” except where lengths of pipe required exceed length of pipe manufactured.

**(3) Minimum Water Service Size for Single Family Housing**

In the case of a single family residence the minimum water service when using MUNICIPEX shall be 25 mm, for a length, not to exceed 30 m and where the main floor elevation of the house is within 2 m of street elevation. For cases outside these parameters, the developer shall submit detailed calculations for review and approval of size of service.

The service length shall be measured from the watermain to the location where the service enters the building.

Provision of services to this minimum standard for single family residences does not constitute automatic compliance with the Canadian Plumbing Code, and the onus is on the Developer or his agents to ensure compliance with the Code.

**(4) Specification for MUNICIPEX  
PEXa Municipal Water Service Pipe**

**SCOPE**

- This specification is for flexible cross-linked polyethylene (PEX) municipal water service pipe up to 2" (50 mm) nominal size

**MATERIAL**

- Service pipe to be cross-linked polyethylene (PEXa) piping manufactured using the high-pressure peroxide (Engel) method of cross-linking, with an approved cell classification of 354400 in accordance with ASTM D 3350, and a minimum degree of cross-linking of 80% in accordance with ASTM d 2765, Method B.
- Pipe to have a co-extruded UV Shield made from UV resistant high-density polyethylene, color Blue. Pipe to have minimum recommended UV exposure time of one year.
- Pipe to be certified to standards ASTM F 876, ASTM F 877, ASTM F 2023, CSA B137.5, NSF 14, NSF 61 and PPI TR-4, by approved testing agencies.
- Pipe to be manufactured in accordance with AWWA C-904.
- Pipe to be manufactured in an ISO 9001 certified production facility.
- Approved temperature and pressure ratings to be from Table A.1 and A.2, based on PPI Hydrostatic Design Basis as certified by CSA and NSF.

**Table A.1: Minimum Burst Pressure Ratings:**

- 475 psi @ 73.4°F (3310kPa @ 23°C)
- 210 psi @ 180°F (1450 kPa @ 82.2°C)
- 180 psi @ 200°F (1240 kPa @ 93.3°C)

**Table A.2: Hydrostatic Pressure Ratings (continuous operation):**

- 160 psi @ 73.4°F (1105 kPa @ 23°C)
- 100 psi @ 180°F (690 kPa @ 82.2°C)
- 80 psi @ 200°F (550 kPa @ 93.3°C)

**MARKINGS**

- Piping to carry the following markings every three (3) feet (900 mm).



Manufacturer's name or trademark, nominal size, ASTM F 876, F 877, F 2023, CSA B137.5, NSF-pw, PEXa (material designation), SDR9 (standard dimension ratio), 160 psi @ 73.4°F, 100 psi @ 180°F, 80 psi @ 200°F, POTABLE TUBING, manufacturing date and machine number, and footage mark.

### **PACKAGING**

- Pipe to be shipped in protective cardboard boxes marked with size and product name.

### **INSTALLATION**

- Pipe to be installed according to manufacturer's instructions and engineer's specifications in accordance with AWWA C-904 and local codes.
- Pipe to connect to approved AWWA C-800 compression joint valves and fittings, suitable for buried applications, using stainless steel support liners inside pipe at each joint.
- Pipe must be completely buried or protected by opaque conduit unless installed indoors, out of sunlight.

### **WARRANTY**

- Pipe manufacturer shall warrant the cross-linked polyethylene service pipe to be free from defects in material and workmanship for a period of twenty-five (25) years.

### **REFERENCED SPECIFICATIONS:**

#### **ASTM F 876:**

Standard Specification for Cross-linked Polyethylene (PEX) Tubing

#### **ASTM F 877:**

Standard Specification for Cross-linked Polyethylene (PEX) Plastic Hot and Cold Water Distribution Systems

#### **ASTM F 2023:**

Standard Test Method for Evaluating the Oxidative Resistance of PEX Tubing and Systems to Hot Chlorinated Water

#### **AWWA C-904:**

Cross-linked Polyethylene (PEX) Pressure Pipe, ½ In. Through 3 In., for Water Service

**NSF/ANSI 14:**  
Plastic Piping System Components and Related Materials

**NSF/ANSI 61:**  
Drinking Water System Components – Health Effects

**CSA B137.5:**  
Cross-linked Polyethylene Tubing Systems for Pressure Applications

**PPI TR-4:**  
Hydrostatic Design Basis Listed Materials, 100 psi @ 180°F, 80 psi @  
200°F

## **ADDENDA TO TOWN'S WATER AND SEWER REGULATIONS**

Adopted March 1, 2011, Resolution #11-070

### **Subject:**

Use of a private lift station to service a residential dwelling or business (i.e. commercial building, etc.) that is unable to connect to the Town's sewer due to a lack of gravity flow.

### **Applications:**

An infill residential dwelling or commercial building which cannot be serviced via the Town's sewer system due to the elevation of the property which makes gravity flow to the Town's sewer impossible.

### **Specifications:**

The lift pump shall be designed by a Professional Engineer or Agency experienced in the use of such pumps.

The force main from the source to the Town's system shall be a minimum of SDR 26 pipe and sized by a Professional Engineer or Agency experienced in the use of such pumps.

Where the force main is located on private property it shall be buried a minimum of 1.5m (5 feet) or below the frost line if the frost line is greater than 1.5m (5 feet).

The location of the force main shall be marked using typical identification tape and located as per standard established for sewer lines where the use of marker tape is applicable.

The property owner shall be totally responsible for the installation, maintenance and repair, etc., of the force main and the repair and reinstatement of any Town properties affected by such repair, maintenance, etc.

All applicable fees for the hook up of the sewer line to the Town's system shall be applicable.

The owner shall be responsible to provide full disclosure to subsequent owners in the case of a sale of the property of the existence of the lift station, force main, etc., and their responsibility for its maintenance, etc.

In any case where the force main has to be installed under a Town road or other Town property all rules, regulations, inspections, etc., that apply to any other sewer line shall apply.

In the case where the system runs parallel with and under a Town road, a Professional Engineering Firm shall be responsible for the design and inspection of the force main

and its installation, including provision of as-built information to the Town upon completion of the works.

If any portion of the force main must be installed onto private property of anyone except the applicant, the Town shall request written confirmation of approval from that owner authorizing the proposed work.

The design of the proposed servicing system and route shall be subject to the approval of the Town's Engineering Department.