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Water Sources

Littleton's drinking water comes from shallow sand and gravel deposits located within the Beaver Brook and Bennett's Brook watersheds. Four groundwater production wells withdraw over two and a half million gallons per day of drinking water. The sand and gravel act as an underground reservoir, which is continually replenished by rainfall and snowmelt.

Once the water is pumped from the ground, it enters the distribution system, composed of over forty-five miles of water main and three standpipes. The standpipes, located on Newtown Hill, Cedar Road and Oak Hill, store over three million gallons of water. This storage capacity helps maintain system-wide water pressure while at the same time providing sufficient amounts of water during periods of high demand.



Protection Plan

Littleton integrates land-use planning, environmental audits and groundwater monitoring in an aggressive and comprehensive aquifer and watershed protection program. Begun in 1981, much of the success of the program is due to a cooperative relationship between community planners and industrial and commercial developers.

Currently, more than 100 groundwater-monitoring stations are operating at 30 properties within the community, and are maintained and sampled by the water department. All compliance-monitoring costs are borne by the regulated bodies.

One important factor of the program's success has been the water department's effort to foster a cooperative partnership with the business community. Through communication, assistance, and nonadversarial monitoring, the program reflects a close environmental partnership between the department and local commerce.

Because of its effectiveness, the program has been recognized as a model for the development of wellhead protection strategies in many New England communities.

The Littleton Water Department is proud of its tradition of supplying drinking water of the highest quality at the greatest value and remains committed to delivering outstanding service.



General Requirements

Application for Service

For existing water service, an application may be obtained at our offices at 39 Ayer Road or by filling out the form online at www.lclwd.com. An application must be received at least two days in advance of the requested service date. Customers without an existing service are required to supply our office with a site plan showing the location of their proposed home, septic system and other utilities and a check for the appropriate connection fee charge (see page 6) made out to the Littleton Water Department.

- A. All applications for water service and requests to discontinue or restore service must be made in writing directly to this Department. No person shall connect, or cause to be connected, any pipes to mains or pipes to the Town except by order of the Water Department.
- B. The Department or designee shall furnish and install the service pipe (up to 1") from the street main to the property line. The owner(s) shall make the installation, at owner(s) own expense, from the property line into the building, under Water Department supervision.
- C. As of September 1, 2003, LWD will charge \$ 300.00 for a 3/4-inch and \$360.00 for a 1-inch meter set up for new installations. The

owner shall provide a shut-off valve and a pressure-regulating valve adjacent to and on the house side of the meter. Water must be shut off from the meter in cold weather, or the meter otherwise protected from frost. Persons allowing their meter to be damaged by frost or otherwise will be held responsible for the cost of making good the same. For meter sizes **one and one-half inch (1 ½") or greater**, it is the responsibility of the owner/customer to supply said meter and shut-off, in accordance with Water Department specifications.

- D. If the meter fails to properly register the full amount of water used, the consumer will be charged an estimated amount based upon the consumption previously recorded for comparable periods of time.
- E. No one, unless duly authorized by the Department, shall be permitted to remove, inspect or tamper with any meter or other appurtenances belonging to the Department; but such authorized persons, at reasonable hours, shall have free access to all premises for the purpose of examining, repairing or removing same.
- F. The Department reserves the right to restrict the use of water if it deems necessary.
- G. The Department shall not be held responsible for any failure of supply or for abnormal pressure of the supply if such failure or abnormal pressure is without willful default on its part.
- H. With the exception of fire personnel, in the case of fire, no one is permitted to open any hydrant for any purpose whatsoever, at any time. If water is needed for spraying or irrigation, persons planning such work should discuss the situation with the General Manager or designee and a metered connection and cross connection issues shall be provided, the cost to be borne by the applicant.
- I. If the Department is required to change or relocate any of its piping, mains, meters or hydrants for the convenience of the property owner and not as a necessity for the Department, the cost of the work shall be paid by the property owner.

Late Charges & Liens

Pursuant to Chapter 40, Section 42A-C, of the General Laws of the Commonwealth of Massachusetts, water bills and charges in arrears of 45 plus days shall be subject to 1.5% per month late charge. If such overdue water bills or water charges are placed to lien, an additional filing fee of \$25.00 shall be charged to the lien amount.

Termination of Water Service and Reconnection

The Board of Water Commissioners voted April 18, 1992, to allow termination of water service for nonpayment of water charges, disregard of rules, or for failure to allow access to the Water Department to change the water meter and test backflow devices. Water termination notices shall clearly state that reconnection will only occur during normal business hours, 7:00 AM to 3:30 PM, Monday through Friday. When possible, water termination will take place in the morning hours and only in extreme cases will termination take place in the afternoon. Water reconnection will take place after hours only in emergency situations and not before consultation with a supervisor. If shut off occurs for disregard of rules or nonpayment, a twenty-five dollar (\$25.00) charge during working hours and eighty-five dollar (\$85.00) charge after working hours will be made when service is restored.



Fees

Research and Service Fee

There is a \$100 user fee for file searches and copying of environmental assessments (21E), and use of our GIS Maps.

Flow Testing or Temporary Hydrant Connection

- A. Flow testing charge — \$100.00 per *test*. *Additional fees will be discussed upon scheduling of appointment. (Flow testing will be done between the hours of 10:00 p.m. and 11:00 p.m. only.) Hydrants will be operated by Water Department Personnel only.*
- B. Residential hydrant charge — \$25.00 plus water usage.
- C. Commercial/construction hydrant charge --- \$50.00 plus water usage and \$20.00 per consecutive additional day hydrant meter remains at location.

Sprinkler Demand Charge

Sprinkler demand charge is billed quarterly or monthly.

- A. Buildings up to 50,000 square feet - \$500.00 per year.
- B. Buildings 50,000 to 100,000 square feet - \$1,000.00 per year
- C. Building over 100,000 square feet - \$1,500.00 per year.

Connection Fee

The connection fee is a one-time charge for connecting to the Littleton water system. The fee is assessed according to the actual size of the service applied for and includes a one-inch meter. Anything other than a one-inch meter is the responsibility of the applicant and must meet the requirements of this Department.

<u>Pipe Size</u>	<u>Fee Charge</u>
1"	\$ 2,500.00
1 1/2"	\$ 3,750.00
2"	\$ 5,000.00
4"	\$ 15,000.00
6"	\$ 20,000.00
8"	\$ 25,000.00
12"	\$ 30,000.00

The connection fee must accompany the application for water service.

Tapping Fee

The tapping fee covers all costs associated with the material, labor and equipment, as well as heat sealing as required by the Highway Department, used for installing the necessary piping from the Littleton Water Department's distribution system (up to 1") to the applicant(s) property line at the prevailing rates. It is the responsibility of the applicant(s) or applicant(s) contractor to install the water service from the property line to applicant(s) structure according to the Littleton Water Department's specifications (see attachment A for installation.)

It is the responsibility of and at the cost of the applicant and/or his contractor to install water service mains greater than 1" from the existing main to the building. Road cut permit application and all costs associated with meeting Highway Department regulations are to be borne by the applicant.

The applicant(s) or applicant(s) representative must inform the Department forty-eight (48) hours before beginning installation procedures. A representative of the Littleton Water Department must approve the installation before backfilling and final connection. All materials used must meet American Water Works Association (AWWA) standards and be approved by the Water Department. All tapping services provided by the Littleton Water Department will be billed as follows: Material, labor and equipment will be charged at the prevailing rates. All service lines and meter locations are at the discretion of the Water Department. **Submittal of as-built plans are required at the time of final inspection and meter installation. Service will not be turned on without as-built plans of the installation.**

Due to the backlog of new service requests and the need to complete those projects before the ground freezes, the Water Department reserves the right to stop accepting new requests for water service on existing public roads. Dates will be printed in the newspaper and put on local cable. Generally, service applications are accepted until November 15th.

Bacteria Sampling Charge

If multiple bacteria sampling is required before approval of a new water main installation, a sample and analysis fee of \$30.00 per sample shall be charged.

Unlawful Use of Hydrant

Unlawful use of hydrants shall incur a \$500.00 fine and the cost of employee time to remedy water quality situations that may occur.

Water Main Flushing

LWD has the right to charge for time and materials for the flushing of new water mains at the prevailing rate and time.

Backflow Testing Charge

Application and Review Fee: \$25.00

\$40.00 per device. For a failed device that requires repair or replacement, the owner/customer has 14 days from the date specified on the notification form to have the device retested without an additional charge. Failure to meet this requirement will result in termination of water service and an additional charge of \$40.00 and notification to the Department of Environmental Protection for a device not being in compliance pursuant to 310 CMR 22.22. It is the responsibility of the owner/customer to have the device repaired or replaced and to call for a retest.

Cross Connection Survey Fee

\$25.00

Miscellaneous Service Repair

Material, labor and equipment will be charged at the prevailing rates at the time of installation.

Frozen Water Service and Meter Repairs

- A. First Call: Material, labor and equipment charged at the prevailing rates.
- B. Second Call: \$25.00 surcharge plus material, labor and equipment charged at the prevailing rates.
- C. Third Call: \$50.00 surcharge plus material, labor and equipment charged at the prevailing rates.

Installation of Water Mains in Public Ways (Betterment)

- A. Application for the installation of water main shall be submitted in writing to the General Manager not less than ninety (90) days prior to the date of the Town Meeting at which action is to be requested thereon. The application shall state the names and addresses of applicants, the location and length of the extension requested, the names and addresses of the owners of all lands abutting the proposed extension and other information as may reasonably be required by said General Manager.
- B. The General Manager shall thereupon determine specifications for the required installation and prepare an estimate of the cost thereof. No less than fourteen (14) days before the closing of the warrant for such Town Meeting, the General Manager shall furnish the applicants with such estimates, together with an article properly drafted for insertion in the warrant. The General Manager shall also notify the Finance Committee and the Planning Board of the proposed extension and the estimated cost thereof, for their consideration and recommendation.
- C. If the proposed extension is voted by the Town, special assessments shall be levied to meet the whole of the cost thereof proportionately upon the owners of land abutting said installation in accordance to Chapter 40, Section 42G, 42H, and 42I of the General Laws.
- D. The assessment for such cost shall be made upon the several parcels of land receiving benefit from such installation on a fixed uniform rate based upon the estimated average cost apportioned equitably according to the frontage of such land upon the way in which such installation is made or other equitable method, except those parcels approximately equal in area with 275 feet or greater on such way, shall be assessed equally. In no case shall the amount assessed be in excess of the benefit to the land assessed.



Installation of Water Main Extensions on Private Property

- A. Plans and specification for the installation of water mains and pipes that are to be connected to the Town's system shall be submitted in advance to the Department for approval. All labor, materials and testing of water main, except meter, required for the installation shall be furnished by the owner of the property at no cost to the Town.
- B. All mains along proposed streets and ways shall meet the standards of the American Water Works Association's (AWWA) specification covering pipes for public water supply systems, and be approved by the Littleton Water Department prior to installation.
- C. House service to the meter shall be Class 200 p.e. tubing or equivalent. Service lines shall be installed with a metallic tape or wire tracer using the following criteria:
 - 1.) In new construction, the tracer should be placed through the foundation into the basement. Tracer tape shall be three feet (3') above service pipe from curb stop to foundation. (See Attachment A).
- D. All water lines shall be left exposed until inspected by Department.
- E. At least a forty-eight (48) hour notice before installation must be given for inspection and final hookup. An as-built plan must be submitted and approved before the meter is set. (See Attachment B). Any inspection that is not ready when return inspection subject to a \$25.00 service fee.
- F. All hydrants, gates, fittings, corporation cocks, curb cocks, meter horns, and house shut-off valves shall conform to AWWA specifications and be of the same make and type as presently used by the Littleton Water Department. All one-inch ball valve style curb stops and corporations must be full bore with full-through flow.
 - 1.) Painting of all hydrants installed on public or private ways shall be the responsibility of the contractor and should be painted with the following materials
 - 2.) Tru-test, X-O Rust enamel int./Ext. X0-4 yellow, Federal safety color and lally columns, Tru-test enamel int/ext. X0-10 aluminum or Rustoelum protective enamel

aluminum #7715 or equivalent.

- G. All installations shall have at least five feet (5') of cover between the top of the pipe to the level of the finished surface.
- H. All installations shall be completed in a neat working manner and be subject to the inspection and approval of the Water Department before backfilling is commenced. All bends in the pipeline and all hydrants shall be backed with rock and cement to a solid unbroken trench wall and rodded where needed. Where fill is used or at the discretion of the Department, rodding of the bend and backing shall be employed. When laying pipe on soft or swampy ground or through ledge, at least twelve inches (12") of gravel shall be placed under the pipe. When, in the opinion of the Department, the excavated material is not suitable for backfilling, it shall be removed and clean gravel substituted.
- I. The Department shall not approve installations between December 1, and April 1, or when frost is in the ground.
- J. All gates and valves must be readily accessible and in good working order before final acceptance of the installation is made by the Department. As-built drawings indicating gates and curb box locations, in relation to nearby structures, must be furnished to the Department upon completion of the project. (See Attachment C).
- K. All water main and appurtenance installations shall be pressure tested for leaks at 200 psi for a two (2) hour duration and must meet tolerance standards as approved by American Water Works Association (AWWA) for potable water mains. The General Manager, or his designee, will witness the test and will have the final say as to the contractor chosen for the test. Under no circumstance shall the contractor responsible for installation perform the leak detection test. If a given piece of water main fails after the first attempt, all subsequent inspections by the Water Department will be charged at the prevailing rates.
- M. As-built plans of utilities, roadways, buildings, etc. with appropriate measurements in appropriate Auto Cad format must be received and approved prior to final acceptance of the roadway and subdivision by the Town of Littleton.

Cross Connection Regulations

A. Cross Connection Control Authority

Under Public Law 93-523, the Safe Drinking Water Act of 1974, as amended in 1986 & 1993, and as promulgated by the Massachusetts Department of Environmental Protection (DEP) (reference 310 CMR 22.22) the water purveyor has the primary responsibility for preventing water from unapproved sources, or any other substances, from entering the public potable water system.

B. Cross Connection Control - General Policy

B.1 Purpose. The purpose of this regulation is:

B.1.1 To protect the public potable water supply of the area served by the Littleton Water Department from the possibility of contamination or pollution by isolating within its customer(s)' internal distribution system(s) or its customer(s)' private water system(s), such contaminants or pollutants which could backflow or back-siphon into the public water supply system; and

B.1.2 To promote the elimination or control of existing cross-connections, actual or potential, between its customer's in-plant potable water system(s) and nonpotable systems, plumbing fixtures and industrial piping systems; and

B.1.3 To provide for the maintenance of a continuing program of cross-connection control which will systematically and effectively prevent the contamination or pollution of all potable water systems by cross connection.

B.2 Responsibility. The Water Department shall be responsible for the protection of the public potable water distribution system from contamination or pollution due to the backflow or back-siphonage of contaminants or pollutants, through the water service connection. If, in the judgment of the Water Department, an approved backflow prevention device is required, at the Town's water service connection to any customer's premises, for the safety of the water system, the General Manager or his designated agent shall give notice in writing to said customer to install such an approved backflow prevention device at each service connection to the customer's premises. The customer shall, within thirty (30) days, install such approved device or devices at his/her own expense; failure, refusal or inability on the part of the customer to install said device or devices within thirty (30) days shall constitute a ground for discontinuing water service to the premises until such device or devices have been properly installed.

C. Policy

C.1 No water service connection to any premises shall be installed or maintained by the Water Department unless the water supply is protected as required by Massachusetts State Law and this regulation. Service of water to any premises will be disconnected by the Water Department if a backflow prevention device required by this regulation is not installed, tested and maintained, or if it is found that a backflow prevention device has been removed or by-passed, or if an unprotected cross connection exists on the premises. Service will not be restored until such conditions or defects are corrected.

C.2. The customer's system should be opened for inspection at all reasonable times to authorized representatives of the Water Department to determine whether cross connections or other structural or sanitary hazards, including violations of this regulation, exist. When such condition becomes known, the General Manager shall deny or immediately discontinue service to the premises by providing for a physical break in the service line until the customer has corrected the condition(s) in conformance with state and town statutes relating to plumbing and water supplies and the regulations adopted pursuant thereto. All expenses relating to the disconnection and reconnection shall be borne by the customer.

C.3. An approved backflow prevention device, where required, shall be installed on each service line to a customer's water system at or near the property line or immediately inside the building being served; but, in all cases, before the first branch line leading off the service line wherever the following conditions exist:

C.3A. In the case of premises having an auxiliary water supply which is not or may not be of safe bacteriological or chemical quality and which is not acceptable as an additional source by the Massachusetts Department of Environmental Protection (MDEP), the public water system shall be protected against backflow from the premises by installing a backflow prevention device in the service line appropriate to the degree of hazard.

C.3B In the case of premises on which any industrial fluids or any other objectionable substance is handled in such a fashion as to create an actual or potential hazard to the public water system, the public water system shall be protected against backflow from the premises by installing a backflow prevention device in the service line appropriate to the degree of hazard.

C.3C. In the case of premises having (1) internal cross connection that cannot be permanently corrected and controlled, or (2) intricate plumbing and piping arrangements or where entry to all portions of the premises is not readily accessible for the inspection purposes, making it impracticable or impossible to ascertain whether or not dangerous cross connections exist,

the public water system shall be protected against backflow from the premises by installing a backflow prevention device in the service line adjacent to the water meter.

C.4. The type of protective device required under subsections C.2, C.3, C.3A, C.3B, and C.3C, shall depend upon the degree of hazard which exists as follows:

C.4A. In the case of any premises where there is an auxiliary water supply as stated in subsection 4.2.3A of this section; or

C.4B. Where there are any materials dangerous to health which are handled in a fashion that creates an actual or potential hazard to the public water system; or

C.4C. Where there are “uncontrolled” cross connections, either actual or potential, the public water system shall be protected by an approved air-gap separation or an approved reduced pressure principle backflow prevention device at the service connector.

C.4D. In the case of any premises where there is water or substance that would be objectionable but not hazardous to health, if introduced into the public water system, the public water system shall be protected by an approved double-check valve assembly.

C.4E. In the case of any premises where, because of security requirements or other prohibitions or restrictions, it is impossible or impractical to make a complete in-plant cross connection survey, the public water system shall be protected against backflow or back-siphonage from the premises by the installation of a backflow prevention device in the service line. In this case, maximum protection will be required; that is, an approved air-gap separation or an approved reduced pressure principle backflow prevention device shall be installed in each service to the premises.

C.5. Any backflow prevention device required herein shall be of a model and size approved by the General Manager. The term “approved backflow prevention device” shall mean a device that is on the “approved list of backflow preventers and double check valves” as revised by the Massachusetts Department of Environmental Protection (MDEP). Said approval list has been adopted by the General Manager.

C.6. The Water Department will conduct testing on these devices twice a year. The owners of the device will be charged for these tests. The Water Department may have these tests performed by a designated representative. In those instances where the General Manager deems the hazard to be great enough he may require certified inspections at more frequent intervals. These inspections and tests shall be at the expense of the water user and shall be performed by the Water Department personnel or by a certified tester approved by the General Manager and approved by the State of Massachusetts. It shall be the duty of the General Manager to see that these timely tests are made. The General Manager shall notify the customer/user in advance when the tests are to be undertaken so that the customer and/or a

representative may witness the test if so desired. These devices shall be repaired or replaced at the expense of the customer/user whenever said devices are found to be defective. Records of such tests shall be kept by the General Manager.

C.7. All presently installed backflow prevention devices which do not meet the requirements of this section, but were approved devices for the purposes described herein at the time of installation, and which have been properly maintained, shall, except for the inspection and maintenance requirements under subsection C.6, be excluded from the requirements of these rules so long as the General Manager is assured that they will satisfactorily protect the utility system. Whenever the existing device is moved from the present location or requires more than minimum maintenance or when the General Manager finds that the maintenance constitutes a hazard to health, the unit shall be replaced by a backflow prevention device meeting the requirements of this section.

C.8. All industrial and commercial establishments attached to the Littleton Water System will be required to install, at the service entrance and immediately downstream of the meter, a reduced pressure (RP) backflow device or **double check valve assembly after an inspection by the water operations personnel depending on the degree of hazard.**

C.9. All decisions relating to determination of backflow devices will be made by the Littleton Water Department. Failure to comply with any directive from this office may result in termination of service.

In-ground Sprinkler Systems

In-ground sprinkler systems must have backflow devices installed on them. The Massachusetts DEP recommends inspecting in-ground sprinkler systems every year. Many are unaware of this recommendation, especially those customers who may have installed a system only recently. Please call our office for more details and to schedule a convenient time for our utility specialist to complete the inspection.



Water Use Restriction Regulation

Section 1 - Authority

This Regulation is adopted by the Town of Littleton Water Department under its police powers to protect public health and welfare and its powers under M.G.L. c. §§21 et seq., and implements the Water Department's authority to regulate water use pursuant to M.G.L. c. 41, §69B. This regulation also implements the Water Department's authority under M.G.L. c.40, §41A, conditioned upon a declaration of water supply issued by the Department of Environmental Protection.

Section 2 - Purpose

The purpose of this regulation is to protect, preserve and maintain the public health, safety and welfare whenever there is in force a State of Water Supply Conservation or State of Water Supply Emergency by providing for enforcement of any duly imposed restrictions, requirements, provisions or conditions imposed by the Town of Littleton Water Department or by the Department of Environmental Protection.

Section 3 - Definitions

Person shall mean any individual, corporation, trust, partnership or association, or other entity.

State of Water Supply Emergency shall mean a State of Water Supply Emergency declared by the Department of Environmental Protection under M.G.L. c.21G, §15-17.

State of Water Supply Conservation shall mean a State of Water Supply Conservation declared by the Littleton Water Department pursuant to section 4 of this regulation.

Users of Water Consumers shall mean all public and private users of the Town's public water system, irrespective of any person's responsibility for billing purposes for water usage at any particular facility.

Section 4 - Declaration of a State of Water Supply Conservation

The Town of Littleton through its Board of Water Commissioners may declare a State of Water Supply Conservation upon a determination by a

majority vote of the Board that a shortage of water exists and/or the demand for water is approaching the capacity of the system. In making this determination, the Board will consider if conservation measures are appropriate to ensure an adequate supply of water to all water consumers. Public notice of a State of Water Conservation shall be given under section 6 of this regulation before it may be enforced.

Section 5 - Restricted Water Uses

A declaration of a State of Water Supply Conservation may include one or more of the following restrictions, conditions or requirements limiting the use of water as necessary to protect the water supply. The applicable restriction, conditions or requirements shall be included in the public notice required under section 6.

- a. **Odd/Even Day Outdoor Watering**: Outdoor watering by water users with odd numbered addresses is restricted to odd number days. Outdoor watering by water users with even numbered addresses is restricted to even numbered days, excluding the watering of perishable vegetables and plants.
- b. **Outdoor Water Hours**: Outdoor watering is permitted only during daily periods of low demand, to be specified in the declaration of a State of Water Supply Conservation and public notice thereof. The Department may specify no outdoor watering between certain hours.
- c. **Weekend or Weekday Water Ban**: Outdoor watering on weekends or weekdays is prohibited.
- d. **Filling Swimming Pools Ban**: Filling of swimming pools is restricted to times posted.
- e. **Automatic Sprinkler Use Ban**: The use of automatic sprinkler systems is prohibited.
- f. **Outdoor Water Use Ban**: Outdoor water uses are controlled as follows: a) Watering with hand hose only; B) Watering with water can only; C) All outdoor watering shall be prohibited.

Section 6 - Public Notification of a State of Water Supply Conservation

Notification of DEP: Notification of any provision, restriction, requirement or condition imposed by the Board of Water Commissioners as part of a State of Water Supply Conservation shall be published in a newspaper of general circulation within the Town, or by such other means reasonably calculated to reach and inform all users of water. The State of Water Supply Conservation shall also be simultaneously provided to the Massachusetts Department of Environment Protection.

Section 7 - Termination of a State of Water Supply Conservation: Notice:

A State of Water Supply Conservation may be terminated by a majority vote of the Board of Water Commissioners, upon a determination that the water supply shortage or excess demand on the system no longer exists. Public notification of the termination of a State of Water Supply Conservation shall be given in the same manner required for its declaration.

Section 8 - State of Water Supply Emergency Compliance with DEP Orders.

Upon Notification to the public that a declaration of a State of Water Supply Emergency has been issued by the Department of Environmental Protection, no person shall violate any restriction, requirement, provisions or condition of any order approved or issued by the Department intended to bring about an end to the State of Emergency.

Section 9 - Penalties

Any person violating this regulation shall be liable to the Town of Littleton Water Department as follows: 1st Violation: Written Warning; 2nd Violation: \$50.00 fine; 3rd Violation, \$200.00 fine; 4th Violation: \$400.00 fine and reduction in water availability to allow for basic water use needs. Fines shall be recovered by indictment or on complaint before the District Court, or by non-criminal disposition in accordance with M.G.L. c40. S21D. Each day of violation shall constitute a separate offense.

Section 10 - Severability

The invalidity of any portion or provision of this regulation shall not invalidate any other portion or provision thereof¹

Conservation Measures

The single greatest contributing factor to increased water usage is excessive lawn watering, primarily via sprinkler systems. It is important to note that one inch of water per week is all that is necessary for proper lawn maintenance. We must remain cognizant of the fact that our water is not an unlimited resource and continue to use it wisely. The Department seeks your assistnace in promoting more naturally wooded lots, smaller lawns and

drought-resistant landscaping.

Please practice basic conservation measures to avoid stressing the system and continue to look for ways to use water wisely.

Water Conservation Tips

1. **Lawn watering** — Water in the early morning or evening when evaporation rates are lowest. Don't water the pavement! One inch of water per week is all that is generally necessary to maintain your lawn. Avoid overwatering by using a rain gauge or coffee can to measure the volume of water being applied.
2. **Lawn care** — allow your grass to grow taller in hot dry weather. Longer grass means less evaporation and will encourage roots to grow deeper leaving your lawn more drought-tolerant.
3. **Car washing** — use a bucket to wash. Keep a nozzle on your hose. Do not let water run when not in use.
4. **Pool** — use a pool cover to keep water clean and reduce evaporation.
5. **General Maintenance** — use a broom instead of a water hose to clear debris from patios, driveways, and sidewalks.
6. **Landscaping** — plant trees to provide shade. Decrease lawn area. Use drought-resistant shrubs. Increase areas of ground cover. Mulch.
7. **Valves and hoses** — check outdoor pipes, hoses, and faucets for leaks.

General Manager: Savas C. Danos

Board of Water Commissioners:

Joseph Cataldo, Chair

Craig Gruskowski, Vice-Chair

Thomas Rauker, Secretary/Clerk

Joseph McCumber

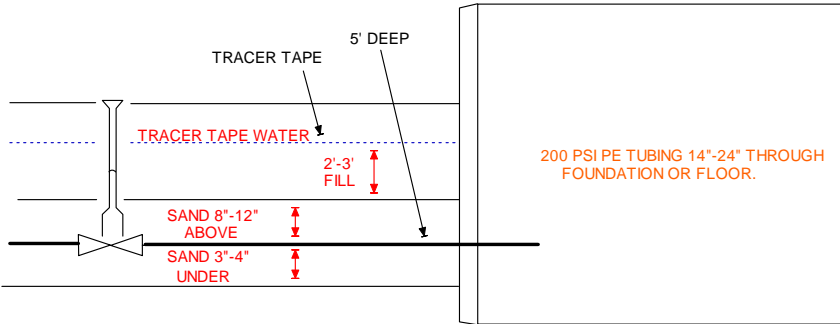
Bruce Trumbull

Revised and Approved by the LWD Commissioners: November 19, 2002

Amended by LWD Commissioners: August 26, 2003 (General Requirements, section C).

¹Board of Water Commissioners approval July 6, 1999

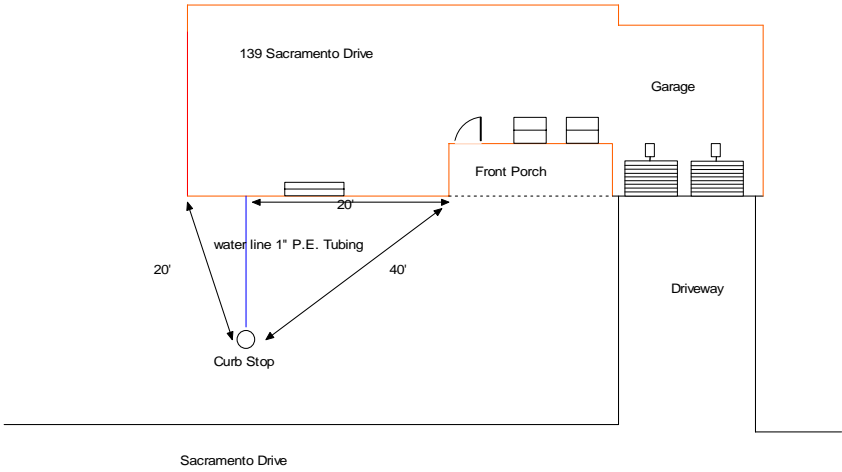
ATTACHMENT A



LITTLETON WATER DEPT.

SERVICE INSTALLATION:

ERIE SERVICE BOX W/PLUG
PE TUBING 200 PSI
STEEL INSERTS



Example of water service as-built.
Must be submitted before water meter is set.

ATTACHMENT B

