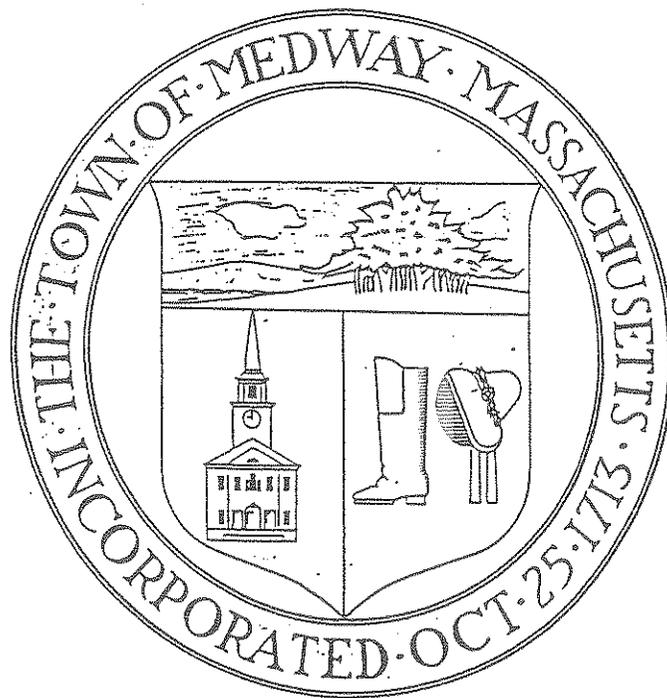


TOWN OF MEDWAY  
WATER/SEWER DEPARTMENT  
RULES & REGULATIONS

CHARLES RIVER POLLUTION CONTROL DISTRICT  
WASTEWATER TREATMENT FACILITY REGULATIONS



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Board of Water/Sewer Commissioners

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Gardner M. Rice, Chairman

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Robert J. Heavey

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Ronald Wilson

December 12, 1994  
Amended: \_\_\_\_\_  
Amended: \_\_\_\_\_  
Amended: \_\_\_\_\_

Water/Sewer Department - Rules and Regulations

The following regulations are a part of the contract with every person who takes water and govern the relations between the Water/Sewer Department and its customers. Every person taking water or discharging to the municipal sewer system shall be considered to express consent to be bound thereby.

ARTICLE I - DEFINITIONS

1. The term DEPARTMENT as used in these regulations shall mean the Water/Sewer Department of the Town of Medway.
2. The term TOWN or MUNICIPAL(ITY) as used in these regulations shall mean the Town of Medway.
3. SHALL is mandatory; MAY is permissive.
4. The term CUSTOMER or PERSON shall mean the individual owner, the corporation or association managing the property being serviced by the Department. The owner of the property is ultimately responsible for any outstanding water charges.
5. The term COMMISSIONER shall mean the members of the Medway Water/Sewer Commission.
6. A MAIN is the supply pipe laid in the street or easement to which water connections are made; or the discharge pipe laid in the street or easement to which individual sewer connections are made.
7. SEWER shall mean a pipe or conduit for carrying wastewater.
8. PUBLIC SEWER shall mean a sewer in which all owners of abutting properties have equal rights and is controlled by municipal authority.
9. A TOWN SERVICE pipe is the water pipe running from the main to the curb stop.
10. A PRIVATE SERVICE is the water service pipe from the curb stop to the meter in the building.
11. A LICENSED DRAINLAYER is a contractor approved by the Department to install water and/or sewer mains and water and/or sewer service connections in the Town.
12. PREMISES shall refer to:
  - a. A building under one roof owned by a customer and occupied as a residence or place of business;
  - b. A combination of buildings owned by a customer, in one common enclosure, or occupied by one family, or one corporation or firm as a residence or place of business;
  - c. A building owned by a customer having a number of apartments, offices or lofts which are rented to tenants, and using in common one hall and one or more means of entrance, or;
  - d. A condominium association serving one or a combination of buildings in one common enclosure.
13. APPLICANT shall mean any person requesting approval to connect to the Town water supply or to discharge wastewaters into municipal facilities.
14. BOARD'S AGENT shall mean the appointed representative of the Board of Water/Sewer Commissioners of the Town of Medway

for matters concerning the municipal water supply and the Medway sanitary sewerage system or his authorized deputy.

15. BUILDING DRAIN shall mean that part of the lowest horizontal piping of a drainage system which receives the discharge from soil, waste, and other drainage pipes inside the walls of the building and conveys it to the building sewer, beginning ten (10) feet (3.1 meters) outside the inner face of the building wall.

16. BUILDING SEWER shall mean the extension from the building drain to the public sewer or other place of disposal.

17. SANITARY SEWER shall mean a sewer which carries domestic and/or industrial wastewaters and to which surface runoff from storms and groundwater is not intentionally admitted.

18. COMBINED SEWER shall mean a sewer receiving both wastewater and surface runoff from storms.

19. CRPCD shall mean the Charles River Pollution Control District.

20. WASTES shall mean substances in liquid, solid or gaseous form that can be carried in water.

21. WASTEWATER shall mean the spent water of the municipality and may be a combination of the liquid and water-carried wastes from residences, commercial buildings, industrial plants, and institutions together with such ground, surface and stormwaters as may be present.

22. DOMESTIC WASTEWATER shall mean the liquid wastes discharged from sanitary conveniences such as toilets, washrooms, sinks, urinals, showers, drinking fountains, small laundries, and from kitchens, cafeterias, and floor drains essentially free of industrial wastes or toxic materials.

23. INDUSTRIAL WASTEWATER shall mean the liquid wastes from industrial manufacturing processes, laboratories, trades or businesses which predominate as distinct from domestic wastewaters. INDUSTRY shall mean an establishment with facilities for mechanical, testing, trade or manufacturing purposes.

24. WASTEWATER TREATMENT PLANT shall mean any arrangement of devices and structures used for treating wastewater.

25. WASTEWATER WORKS shall mean all structures equipment and processes for collecting, pumping, treating and disposing of wastewater.

26. FACILITIES shall include structures, conduits, pumping stations, treatment and disposal works, and other appurtenances for the purpose of collecting, treating and disposal of domestic and/or industrial wastewater.

27. EXCESSIVE shall mean amounts or concentrations of a constituent of a wastewater which in the judgment of the municipality:

- a. will cause damage to any facility;
- b. will be harmful to a wastewater treatment process;
- c. cannot be removed in the treatment works to the degree required in the limiting stream classification standards of the Charles River;
- d. can otherwise endanger life or property, or;
- e. can constitute a nuisance.

28. SEPTAGE shall mean the waste from a septic tank or cesspool.
29. STORM DRAIN shall mean a pipe or conduit for conveying rainwater, groundwater, subsurface water, condensate, cooling water or other similar discharge to a storm drain or combined sewer but excludes wastewater and industrial wastes, other than unpolluted cooling water.
30. WATERCOURSE shall mean a channel in which the flow of water occurs, either continuously or intermittently.
31. RECEIVING WATERS shall mean any watercourse, river, pond, ditch, lake, aquifer, or other body of surface or groundwater receiving discharge of wastewaters.
32. NATURAL OUTLET shall mean any outlet into a watercourse, pond, ditch, lake or other body of surface or groundwater.
33. CHLORINE DEMAND shall mean the amount of milligrams per liter of chlorine required to be added to water, wastewater, or other liquid to achieve a combined chlorine residual after fifteen (15) minutes contact of one (1.0) milligram per liter.
34. SUSPENDED SOLIDS (abbreviation SS) shall mean solids that either float on the surface of or are in suspension in water, wastewater, or other liquids, and which are removable by laboratory filtering and are referred to as nonfilterable residue in the laboratory test prescribed in "Standard Methods for the Examination of Water and Wastewater".
35. GARBAGE shall mean the wastes resulting from the handling, preparation, cooking and serving of food. It is composed largely of putrescible organic matter and its natural moisture content.
36. PROPERLY SHREDDED GARBAGE shall mean garbage that has been shredded to such a degree that all particles will be carried freely under the flow conditions normally prevailing in public sewers, with no particle greater than one-half (1/2) inch (1.27 centimeters) in any dimension.
37. PH shall mean the negative logarithm to the base ten of the hydrogen ion activity in gram moles per liter of solution.
38. BOD (BIOCHEMICAL OXYGEN DEMAND) shall mean the quantity of dissolved oxygen, expressed in milligrams per liter by weight used in the biochemical oxidation of wastewater in five (5) days at 20 deg. C. (68 deg. F) under standard laboratory procedures.

## ARTICLE II - APPLICATION FOR SERVICE

1. All applications for water and/or sewer service must be made in writing by completing a form provided by the Department. The application for service must be made by or on behalf of the property owner. The application shall state fully the purpose for which the service is intended to be used, and shall be delivered to the Department Superintendent.
2. No agreement will be entered into by the Department with any applicant until all arrears and charges due by the applicant at any premises now or heretofore occupied by the applicant shall have been paid.

3. When accepted by the Department, the application shall constitute a contract between the Department and the applicant obligating both parties to comply with these Rules and Regulations.

4. Applications for a water and/or sewer service installation will be accepted subject to there being an existing main with sufficient capacity and/or pressure in a street or right-of-way abutting on the premises to be served. The contract in no way obligates the Department to extend its mains to service the premises under construction.

5. When a prospective customer has made application for a new service, or has applied for the reinstatement of an existing service, damage caused by any deficiency in the plumbing which the service will supply shall be at the risk of the customer.

6. Subdivision review forms shall be completed and fees paid with two (2) copies of plans supplied to the Department for review and approval. Any revisions after approval shall be resubmitted for approval. No work shall begin until plans are approved and fee paid.

7. A System Development Charge for a new water service connection to commercial or industrial premises or to residential premises shall be charged by the Department at the time of application.

8. An Entrance Fee shall be charged on any sewer connection made to a property from Town installed sewer if a betterment was not assessed on the lot or portion of the lot.

9. Street Opening Permits shall be obtained from the Board of Selectmen's office prior to excavation in any public way.

#### ARTICLE III - LICENSING DRAIN LAYERS

1. All work related to the installation of water and/or sewer in the Town of Medway shall be performed by persons licensed by the Board of Water/Sewer Commissioners. The licensed contractor or licensed designee must perform the work and be on site during construction. All licensees are required to give personal attention to all installations and shall employ only competent workers.

2. Plumbers and drain layers of established reputation and experience will be licensed by the Board as Drain Layers authorized to perform work, subject to compliance with the following requirements:

a. Applicants for licenses are required to pay a filing fee as Drain Layer, payable to the Town of Medway.

b. Insurance requirements to be submitted with application are as follows:

- ~ Public Liability Insurance Certificate with XCU \$110-300,000.
- ~ Property Damage Insurance Certificate \$ 50-100,000.
- ~ Auto Insurance per State Statute.
- ~ Workmen's Compensation per State Statute.
- ~ Performance Bond \$5,000.

Said Insurance shall indemnify the Board and the Town of Medway against any and all claims, liability or actions for damages, incurred in or in any way connected with, the performance of work by a Drain Layer in the performance of

his work. All insurances shall remain in full force and effect for the full term of the license issued by the Board.

c. Applications for licenses will be approved or disapproved within a period of thirty-one (31) days after filing the application.

3. All licenses expire on December 31st of each year and no licenses are transferable. The fee for renewal thereof shall be due and payable on or before January 1st of each year as well as the insurances stated in Section 2. No permits will be issued to a contractor who has not renewed their license.

4. Contractor's shall comply with O.S.H.A. and Division of Labor and Industry regulations. Work site shall be safe.

5. Work shall be performed during the Department's standard work week and working hours. No holiday or weekend construction shall be allowed except by permission of the Superintendent.

6. Water and/or sewer permits shall be obtained before commencing work or installation will not be inspected and Drain Layers License may be suspended.

7. As-Builts for service connections shall be completed on forms provided by the department and ready when an inspection is requested. Failure to provide as-builts will require reinspection with fees and is cause for suspension of Drain Layer's License. No new permits will be issued unless as-builts on prior installations were submitted to department at the time of inspection.

8. The Board's Agent or duly authorized deputy shall be notified at least twenty-four (24) hours prior to the beginning of any work on water and/or sewer mains or house connections.

9. No person, firm or corporation except a duly licensed Drain Layer shall make connections to any municipal water line or sewer.

10. The Board reserves the right to revoke any license if any provision of said license is violated.

11. Any variation from these Rules and Regulations shall receive prior approval of the Board before implementation.

#### GENERAL

#### ARTICLE IV - WATER

1. Subject to prior approval by the Department, water service may be discontinued upon reasonable notice for any one of the following reasons:

- a. willful waste of water;
- b. tampering with meter or meter seal;
- c. property vacant, furnishings removed, and whereabouts of owner unknown;
- d. cross-connecting Department service with any other supply source; or
- e. refusal of reasonable access to premises or to meter.

2. When water has been turned off for any of the above reasons or because of an unpaid bill, or upon written order of the customer, a fee will be charged to restore service.

3. The Department will not permit its mains or Town service pipes to be connected with any other source of supply not approved by the Department nor will the Department permit its mains or service pipes to be connected in any way to any pipes, tanks, vats, or other pollution which can flow back into the Department mains. Shall conform to State Regulations covered under 310 C.M. R. 22.22, M.G. L. Chap. 111, Sect. 160A or as amended.

4. Any authorized agent of the Department shall have the right of access at all reasonable hours to the premises supplied with water for the purpose of reading meters, examining fixtures and pipes, observing the manner of using water or for any other purpose which is necessary in the conduct of Department business. No person shall be deemed to be an authorized agent of the Department entitled to such access unless the person displays proper identification.

5. The Department shall have the right to cut off the water supply to make repairs, changes or connections to its mains or other equipment. Reasonable efforts will be made to notify the customer in advance of any discontinuance of service, but, in time of emergency, the Department may not be able to do so. The Department shall not be responsible for any loss or damage incurred by said shut off, or while making repairs.

6. The Department shall not be liable for any damage or inconvenience suffered by the customer as a result of any cause beyond Departmental control. The Department shall have the right to reserve a sufficient supply of water at all times in its storage facilities to provide for fires or any other emergencies, and may restrict or regulate the use of water by customers in case of scarcity, or whenever required to protect the public welfare.

7. Water from hydrants or other fire protection systems shall be used only for fire protection purposes, except that water from public fire hydrants may be used in a reasonable amount and at such times as the Department may permit, for the purpose of testing hydrants and fire fighting apparatus. Such tests shall be conducted only by the properly authorized agents or employees of the Town and after the consent of the Department has been obtained. Without specific permission from the Department, no pumps will be permitted to be connected with water pipes so as to draw water except for fire purposes.

8. The Town and its Fire Department shall use fire hydrants with reasonable care and will compensate the Department for damage to hydrants which may result from carelessness or negligence on the part of personnel or agents of the Fire Department.

9. No person will be permitted to insert or cause to be inserted any faucet or piping into any water pipe, or connect any service pipe for conveying water from any of the mains or distributor pipes to any house, building or manufacturing, or for any other purpose without written permission of the Commissioners.

10. No water user shall supply water to parties not entitled to use of the water or resell water without written permission of the Commissioners.

11. All persons or firms having private fire connection for sprinklers or fire hydrants on the premises or in buildings are forbidden to use the water for any purpose except fires.

12. Any water used for cooling purposes must be recycled and not allowed to run to waste. Safeguards shall be taken to eliminate all unprotected cross-connections.

13. The Commissioners shall set charges and hourly rates for all work performed by the Department that is not the direct responsibility of the Department.

14. All apparatus and places supplied with water must be accessible at all times for inspection by the Department and all pipes and fixtures shall be subject to rejection by the Department if considered unsuitable for the purpose.

15. The Commissioners shall not be responsible for damages caused by discolored or dirty water resulting from the use of any hydrant, the breaking of any pipe or any other disturbance of the water system.

16. The Commissioners reserve the right to establish such further rules and regulations from time to time as they deem necessary.

17. Winter Hazards

a. In the event of an interrupted water supply due to a frozen pipe, the Department will determine the location and cause of the stoppage. If the stoppage is in the private service and is due to improper installation or breakage after the Department curb stop, all costs of repair shall be the responsibility of the customer.

b. All customers using water must furnish all internal piping, connections, fixtures, and keep them in good repair and protected from frost at their own expense. The Town will not be liable for any damage resulting from failure by the customer to adhere to the above conditions.

c. The water must in no case be left running to prevent freezing or for other purposes, without the permission of the Commissioners.

18. No allowance on meter readings will be made for loss of water due to leakage, failure of piping or fixtures or consequent damage.

19. Any emergency call responded to and found not to be department related shall be charged an hourly labor rate.

CONSTRUCTION METHODS AND MATERIALS  
ARTICLE V - WATER MAINS

1. A plan shall be required showing location of proposed main and all gate valves and hydrants, profile of road and lot lines. At completion of work, owner shall provide the Department with "As-Built Drawings" showing ties to and location of valves, service connections and boxes.

2. Contractors or developers shall design a water system for possible future developments and construct water mains to interconnect with existing or future water system at their own expense.

3. Only Licensed Contractors shall make any connections or perform work on any part of the water distribution system. Seventy-two hours notice shall be given to the Department.

4. The Department shall approve all materials used in making a Town Service connection and shall inspect the actual water tap. All pipes fittings, and appurtenances shall meet AWWA and Department standards.

5. There shall be three (3) valves at every roadway intersection.

6. Hydrants shall be located at property lines when possible and shall not be spaced more than five hundred (500) feet apart. There shall also be a gate valve for every hydrant. All hydrants shall be backed with 1/4 yard of concrete against trench wall. Hydrants shall also be surrounded with 1/4 yard of 3/4 inch stone for drainage.

7. Hydrants on private property shall be owned and maintained by the owner at their expense. If owner fails to maintain or repair inoperable hydrants after notification the department reserves the right for public safety to inspect and repair any hydrant at the owners expense of material and labor. The Department does not, by this regulation, take responsibility for the condition of private hydrants or any possible court action which may result from fire or accident.

8. All mains shall be at least eight (8) inches at a depth of 4.5 feet and shall be either cement lined ductile iron or with special permission C-900 P.V.C. pipe.

9. The standard size main shall have an inside diameter of eight inches minimum, but the Department may require a larger size at owner expense if necessary by reason of the distance involved or the size of the subdivision to be served. However, the Department may, itself, pay for the difference in cost between standard and extra sized mains where the department determines that the extra size is needed to augment service to persons other than the owner.

10. Minimum size water main may be reduced from eight (8) inch to six (6) inch if the main is no more than two hundred fifty (250) linear feet, and if there is no more than three (3) one (1) inch service connections, if the parcel of land is landlocked with no possibility of extensions of road or main and if no additional lots or services can be made through the Planning Board or Zoning Board or of servicing abutting lot(s) not serviced by Town water, the main may be reduced to six (6) inch with termination at a hydrant.

11. All pipe work shall remain open for inspection by the Department. The work shall be backfilled by hand for the first foot using clean sand and "marking tape" in case where non-metallic pipe is used.

12. Trenches shall be compacted by the approved method designated by the Department.

13. All job sites are to be left in a neat and orderly fashion and work will be performed in a professional manner. All sites shall be returned to their original condition at the conclusion of the project.

14. All mains or services shall be installed no closer than three (3) feet (laterally) minimum from any electrical or gas service.

15. All mains shall be pressure and leak tested as per AWWA specifications at 50 PSI over static pressure, but shall not drop below 150 PSI for a period of two (2) hour. All mains shall be chlorinated to a level of 25 PPM after 24 hours. The main shall be flushed of all sediment and chlorine and have a residual chlorine of no higher than 3 PPM before it is accepted for use. A coliform test sample will be taken and

sent to a DEP Certified Lab and the test results sent to the department.

16. The contractor or developer shall, at their cost, make all necessary arrangements with the proper departments for the safety of all traffic, health protection, and safe travel of the general public on all traveled ways, by barriers, police supervision or other means as directed by said departments.

17. The contractor or developer shall maintain safe conditions of all roadways and passageways over excavations and shall promptly fill in all depressions caused by the settling of work.

18. The contractor or developer shall guarantee all work performed and material installed to be free from defects, and shall keep same in repair or replace any defective material for a period of one (1) year at no cost to the Town.

19. Only approved lubricants shall be used on pipe installations. No petroleum products, grease, or fats shall be permitted.

20. PVC or PE Pipe shall not be installed in the winter months when the temperature is below 30 degrees. No frozen material shall be used for backfill.

21. Pipe shall be laid in dry trenches; groundwater shall be pumped out and a stone bed put in place if the trench is not stable.

22. All bends and tees shall be rodded and backed with a stone 2' X 1.5' X 1.5' or larger.

23. The road box and service box shall be centered over the gate and to grade and accessible at all times.

24. The end of the water pipe shall be protected during installation to prevent groundwater, dirt, or animals from entering pipe.

25. DIG SAFE shall be called before beginning work. The department shall also be notified.

26. Damage to services or mains shall be repaired by the contractor under the supervision of the department. If unable, the department will repair at an hourly rate for equipment and personnel. A service charge of \$200. for services and \$500. for mains will be assessed in cases of negligence.

27. Saddles shall be used in making taps on PVC pipe or CLDI Class 50 or less.

28. Water and/or sewer mains and appurtenances in subdivisions shall be completed in their entirety. Partial work shall only be permitted with written approval from the Board and with a bond posted for utility remaining to be completed.

#### CONSTRUCTION METHODS AND MATERIALS ARTICLE VI - SEWER MAINS

1. Six-inch (6") P.V.C. A.S.T.M. D3034SD-R35 pipe must be used to within 10 feet of the building, at which point standard 4" cast iron or schedule 40 sewer pipe is to be used. Two 4 to 6 inch rubber donut adaptors are to be used in joining the P.V.C. to cast iron. When clay or A.C. Pipe

is found coming out of the building, it shall be replaced with cast iron or P.V.C. schedule 40.

2. At any bend greater than 30 degrees, a "y" clean out shall be provided downstream from the bend. P.V.C. or cast iron may be used except where clean out falls in a driveway, then cast iron shall be required. A "y" branch shall be used within a section of pipe coming up to within 6" of ground surface surrounded by stone.

3. Three-quarter inch crushed stone shall be used 6" over and below the sewer pipe at full width of the trench and around the clean out.

4. The first foot over the pipe shall be filled by hand, taking care not to drop any stone larger than 4" on the pipe.

5. The abandonment of the septic system shall be in conformance with the State Sanitary Code (Title 5). The septic tank, distribution box, leaching pit, cesspool(s) and leaching gallery, as the case may be, will be pumped clean by a licensed septage hauler. All structures, after pumping will be destroyed and collapsed. Clean gravel will be used for backfilling the structures and said material properly compacted. The Board of Health is to be provided at least 48 hours written notice of a system abandonment (tie-in). If available, the Health Agent will perform a site visit during the abandonment process.

6. Service is to be 10 feet off building if pipe runs parallel. If less than 10 feet, pipe is to be cast iron or P.V.C. schedule 40 to a point 10 feet beyond building.

7. Sewer shall service the complete building, the pipe shall be laid at level so as to come one foot below the cellar floor when possible. The minimum slope on any pipe shall be 1/4 " per foot.

8. All sewer mains shall be installed using a laser to insure correct grade and line.

9. The private installation of a sewer which is intended to become a public sewer shall be installed only upon obtaining a permit from the Board. Prior to the issuance of any such permit the Board shall require the applicant to submit for its consideration, recommendation and approval, design drawings and specifications of the proposed sewer. The Board may, in its sole discretion, submit the said design information to its independent professional engineering firm for review and recommendation. The applicant shall be required to pay the full cost of any such engineering review without any surcharges or add-ons by the Board. The said payment shall be made by the applicant to the Town of Medway. The Board shall not approve, disapprove or otherwise act on said application until said payment has actually been made.

10. No public sewer, or sewer located in or on a public way or public property, or sewer which is intended to become a public sewer, shall incorporate any mechanical, hydraulic or other means to lift sewage or wastewater in order to provide for its flow and all such sewers shall provide for gravity flow of all such sewage or wastewater.

11. The Board, upon appropriate request to do so and after notice to any interested parties, the Board of Health and the Planning Board of the Town of Medway, and after a public hearing and in appropriate circumstances, may grant an exception of requirements of the prior section. In acting on

any such request the Board shall consider the number of potential buildings to be serviced, the topography of the area involved, any alternative means of sewage disposal, and any claimed extenuating circumstances advanced by the applicant. In granting any such exception the Board shall impose as a condition of such grant that any costs and expenses of operation, maintenance and replacement shall be paid for solely by the owners of the real property serviced by the sewer.

12. The interpretation that all tanks, cesspools, septic tanks etc. are considered part of the building and should be hooked up in entirety except upon special determination of the Board, or unless otherwise allowed by the Board.

13. P.V.C. or PE Pipe shall not be installed in the winter months when the temperature is below 30 degrees. No frozen material shall be used for backfill.

14. End of pipe shall be protected during installation to prevent groundwater, dirt, or animals from entering the pipe.

15. DIG SAFE shall be called before beginning work. The department will also be notified.

16. Sewer services to buildings where water is supplied by a private well shall install a meter after the holding tank but before any spigot or feed line. The meter shall be purchased and installed by the property owner but maintained by the department.

17. S.M.H. structures shall be installed to grade with a course of bricks and standard C.I. cover, Lebaron Foundry No. #1t-102, M & E style. No more than 12" of red sewer brick with all joints filled with mortar shall be permitted under casting. The S.M.H. shall be accessible at all times and care shall be taken to prevent gravel or debris from entering the system.

18. All sewer line shall be cleaned before acceptance for use. Care shall be taken to prevent any material from entering the Town system when cleaning mains. Use of vacuum trucks may be required if it is in the opinion of the superintendent that the volume or type of material warrants same.

19. Care shall be taken with service connections that no stones or gravel enter the system.

20. All inverts in S.M.H.'s shall be solid red sewer brick with a brick table to the top of the pipe.

21. Sewer mains shall be tested by air (4 p.s.i) for 5 minutes or infiltration test if groundwater is 3' over top of pipe. All lines will be visually sighted for grade and line. No vertical deflection or standing water will be permitted. Any deflection in the pipe will require 4 degree mandrel be pulled through. No visual inspection will be made until the pipe is cleaned and the invert built.

22. A S.M.H. will be required at a maximum distance of 300' on a main or service.

23. A sewer main shall be designed to service the maximum area at a depth sufficient to provide full basement service. The minimum allowable cover on a sewer main is 5' without approval of the Board and having to change class of pipe or encase in cement.

24. As-built inverts, slopes and stations shall conform to the approved definitive plan. Any changes shall be explained in writing prior to the sewer being accepted for use.

25. When a connection to the Town's sewer system will involve a pumping system, the following additional requirements shall apply:

~The Board of Health will be provided with three (3) copies of a plan & specifications for the pumping system, force main, terminal manhole and overflow structure stamped by a Professional Engineer. This plan will have to be approved by the Health Agent prior to the construction of the system.

~The pumping equipment must be suitable for handling raw sanitary wastewater (pass 2" solids) and be provided with on/off & high water alarm controls. Standby power or a 1,000 gallon emergency storage capacity will be required.

~The force main shall terminate in a manhole structure which will be located on the property adjacent to the Town sewer. The force main end at the manhole will be provided with two 45 degree bends to seal the force main.

~The gravity sewer connection from the manhole to the Town sewer will be installed in accordance with the normal requirements.

#### ARTICLE VII - WATER SERVICES AND METERING

1. Original service pipe and connections from the main to the curb stop at the property line will be installed by the Department, or under its direction, at the expense of the customer at the prevailing rate for said installation. All service pipe shall have a minimum cover of five (5) feet and a nominal outside diameter of one (1") inch. To the extent not prescribed by State and Municipal Regulations, materials and methods of construction shall be approved by the Department, and if the service has not been installed in accordance with the Department's reasonable requirements, water will not be turned on until all defects have been remedied.

2. The Town Service pipe from main to curb stop in the traveled way shall be maintained or replaced as necessary by the Department at the Department's expense. The Private Service Pipe from the curb stop to the customer premises will be maintained by the customer at the expense of the customer and in a manner satisfactory to the Department.

3. Curb stops will not be used by the customer or his agent for turning on or shutting off the water supply. The customer control of water supply shall be by means of a separate valve, located usually just inside the building wall. Curb stops are for the exclusive use of the Department.

4. On future installations or reinstallations of service lines, only one premises will be supplied by one service pipe, unless otherwise determined by the Department.

5. The owner shall be responsible for street excavation and all other costs of installation of the water service from curb stop to meter. The meter shall be purchased by the owner and installed by and maintained by the Department.

6. All water services shall be installed no closer than ten (10') feet from a septic or sewer line.

7. Permits are to be issued by the Department and the Department shall be notified prior to any work being performed on the water system.

8. Valves shall be required before and after all meters, and back flow devices shall be installed if, in the opinion of the Department, that a hazard to public water supply exists. All valves and devices shall be at the owners expense.

9. K Copper shall be required ten (10) feet out from a building when plastic pipes are used. A meter shall be connected to copper pipe or iron pipe only.

10. All services, except fire hydrants, shall be metered. An individual meter shall be required for each premises and each separate service connection.

11. Each new meter shall be purchased and installed by the Department at customer expense. The meter shall be of such size and design as reasonably necessary to serve the customer involved. Ownership of the meter shall be at all times in the Department and subject to the provisions of Section 14 hereof. The Department shall be responsible for maintenance of each meter at Department expense, except to the extent that the meter is damaged by a willful act or negligence of the customer, wherein, the customer shall be liable for damages. All meters over one (1) inch shall be maintained by the Department at customer expense.

12. Water meters shall be installed at a minimum of twelve inches above the floor (maximum of 48"), twelve inches away from walls, with sufficient clearance for maintaining meter.

13. No water service shall be installed under cement floors to a distant portion of the building. The meter shall be installed at the nearest point of entry into the building.

14. If any meter is required within a premises in addition to the Department entrance meter, it will be installed and maintained by the Department at the expense of the customer. Any such meter shall be read and billed separately to the customer and a fee will be charged to cover the Department expense.

15. On any second meter for irrigation systems there shall be a tee in the service line before the house meter to be read independently. Two meters will be read and two bills generated, one water and sewer for the residence and the second bill for water usage plus a billing charge. Any other arrangement shall be approved only by the Commissioners on an individual basis.

16. The quantity of water recorded by the meter shall be accepted as conclusive by both the customer and the Department except when the meter has been found to be registering inaccurately, or has ceased to register. In any such case, the quantity may be determined by the average registration of the meter in a corresponding past period, or by the average registration of the new meter, whichever method is more representative of the conditions existing during the period in question.

17. The Department reserves the right to remove and test any meter at any time and to substitute another meter in its

place. In the case of a disputed account involving a question as to the accuracy of the meter, such meter will be tested by the Department upon request of the applicant. A fee will be charged for testing such meters. In the event that the meter so tested is found to have an error to the detriment of the customer in excess of two percent (2%) at any rate of flow within normal test flow limits, the fee will not be charged and the current bill rendered based on the last reading of such meter shall be corrected accordingly.

18. Subject to Section 14 hereof, the customer shall permit no one other than an agent of the Department to remove, inspect, or tamper with the meter. The customer shall notify the Department of any injury to or malfunction of the meter immediately.

19. Any materials used in repairs made at the meter shall be billed to the property owner.

20. Requests for additional meter readings shall be subject to a service charge. The charge covers labor reading the meter and calculation of the statement from the reading. If a property is to be refinanced but with no change of ownership, and the department is not notified in writing, a service charge shall be billed if the work is performed. Charges will not be waived after the work has been performed.

#### ARTICLE VIII - MATERIAL SPECIFICATION

1. All pipe shall be C-900 P.V.C. or Cement Lined Ductile Iron (CLDI) 150 PSI Class 52 tar coated bell and spigot with push-on joints no smaller than eight (8) inches.

2. Fittings shall be AWWA Standard Cast Iron Cement Lined (CLDI), tar coated 150 PSI Class D or ductile.

3. Valves - Resilient Seal, open left.

4. Hydrants - Mueller, Darling or Smith open left.

5. Gate box - Cast iron road box.

6. All Brass - Compression fitting without drains.

7. Pipe - (A) Type K Copper  
(B) Type 3406 160 PSI PE Pipe  
(C) C-900 P.V.C.  
(D) ASTM D3034 SDR 35 sewer  
(E) Extra heavy cast iron soil pipe ASTM A 74-72  
(F) Soil pipe ASTM 17 85 SC 40

8. Meters - Rockwell remote recorders in cubic feet.

9. C.I. frame & cover - Lebaron #LT-102 M & E style

#### ARTICLE IX - PAYMENT FOR SERVICE

1. Bills for service will be rendered periodically in accordance with the Term of Payment noted on the applicable Rate Schedules and are payable at the office of the Town Treasurer/Collector upon presentation.

2. Each bill for service will be rendered to the customer of record except where a special agreement has been made. The owner of record will be held responsible for the payment of the bill.

3. Bills not paid within thirty (30) days of the date of issue shall be subject to demand and interest charges. Accounts outstanding as of December 31st of the prior year will be added to the real estate tax bill as a lien.

4. Requests for "Final Readings" shall be issued as a Billing Record and a fee of \$15.00 will be reflected on the next billing for the property. It is the property owners responsibility to notify the department in writing when refinancing a property or a final reading may be completed and charged to the next billing. Charges cannot be abated if the work has been performed.

5. Requests for abatements on water/sewer billings are accepted for thirty (30) days from the date of issue of the most current bill.

6. A charge will be made each time for the turning on or off of the service by the Department when requested by the owner or tenant. Whenever a customer desires to have the water service discontinued, the customer shall so notify the Department. Until such notice is received by the Department, the customer shall be responsible for payment for service rendered by the Department. A reasonable time after the receipt of such notice shall be allowed by the Department to take a final reading of the meter and to discontinue service.

#### ARTICLE X - FEES

System Development Charge:

all new services per tap or meter:

1"/\$500.; 2"/\$1,000.; 4"/\$2,000.; 6"/\$4,000.

New service in town way: \$525.00 plus applicable development charge. Fee does not include police detail if needed or any blasting of ledge or rock.

New service in private way: \$115.00 plus applicable development charge.

Additional taps: 50.00 each

Subdivision inspections: \$150.00 per 1,000 feet of utility, plus costs for engineering review.

Final and/or additional meter readings: \$15.00 each

Service calls: Days - \$20.00 per hour  
Overtime - \$30.00 per hour

Pool filling: Water @ regular rate plus \$20.00 per hour.

Flow tests: \$20.00 water plus labor; \$35.00 each

Back flow tests : \$15.00 each

Pipe testing: \$200.00 each

Frozen meter: \$20.00 each

Meter testing: (refunded if error found) \$10.00 each

Service breaks caused by negligence:  
Services: Material and labor plus \$200.00  
Mains: Material and labor plus \$500.00

Drain Layers License - \$50.00

NON-CRIMINAL DISPOSITION  
VIOLATIONS & FINES:

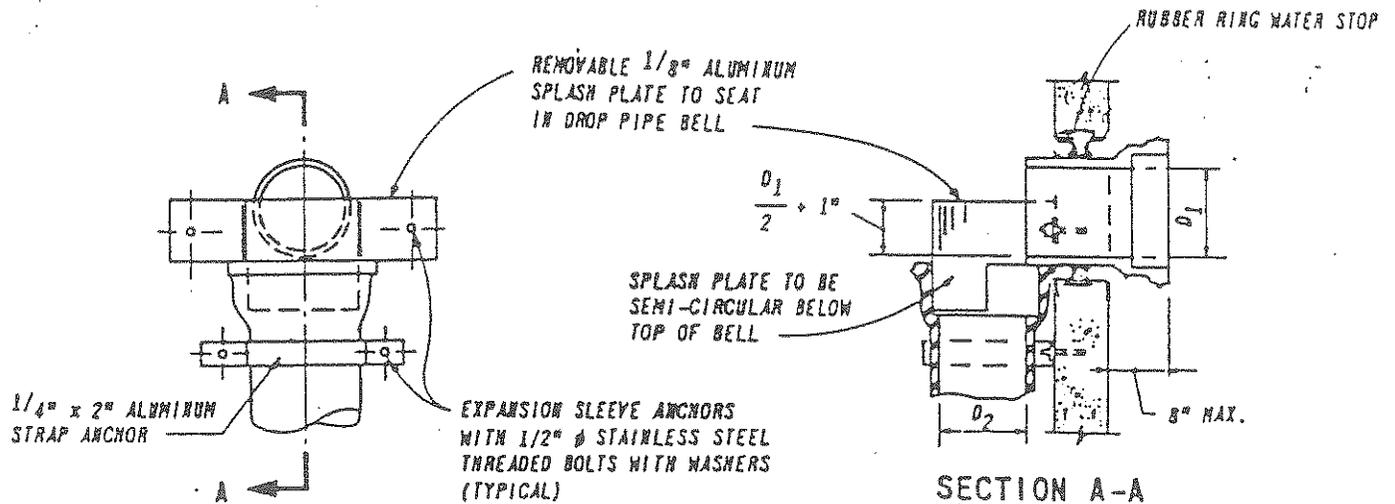
Unauthorized use of hydrants or sprinklers:  
1st offense - \$50.00  
2nd offense - \$100.00  
Each additional offense - \$100.

Utility installation or repair by unlicensed contractor:  
Each offense \$100.00

Meter tampering, breaking of meter seal:  
1st offense - \$25.00  
2nd offense - \$50.00  
3rd or add'l. offense - \$100.00

Violation of cross-connection control order:  
1st offense - \$25.00  
2nd offense - \$50.00  
3rd or add'l. offense - \$100.00

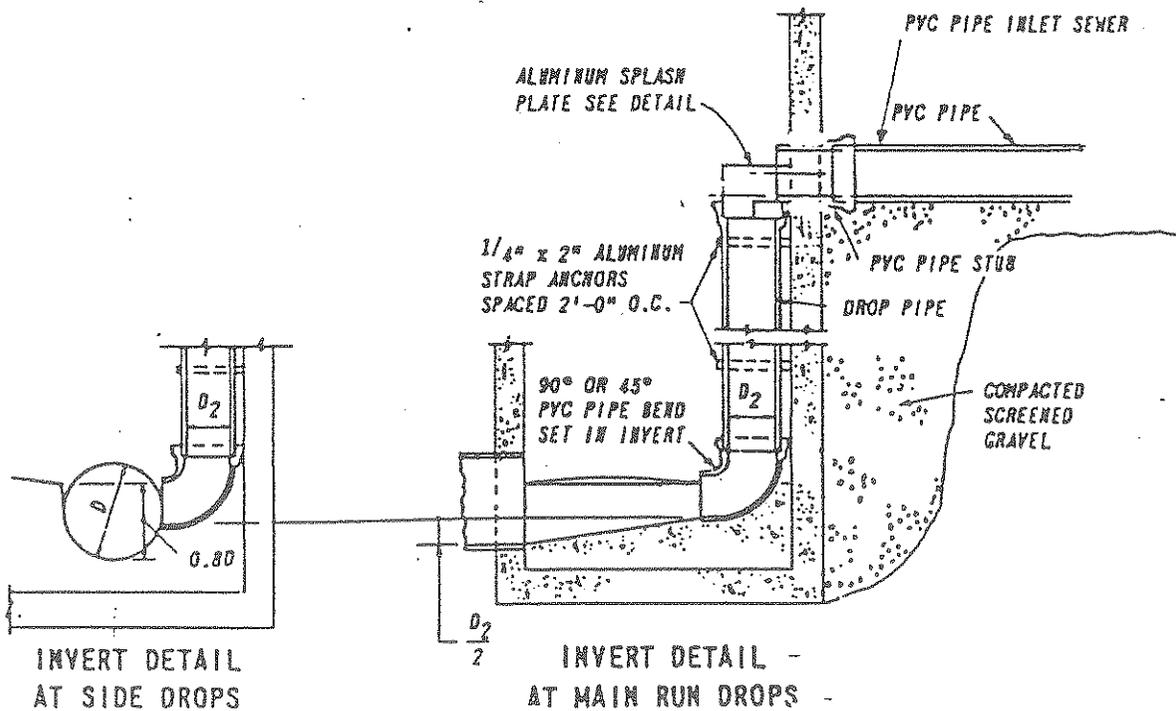
Connection of floor drain, sump pump to sewer system:  
1st offense - \$50.00  
2nd & each add'l offense - \$100.



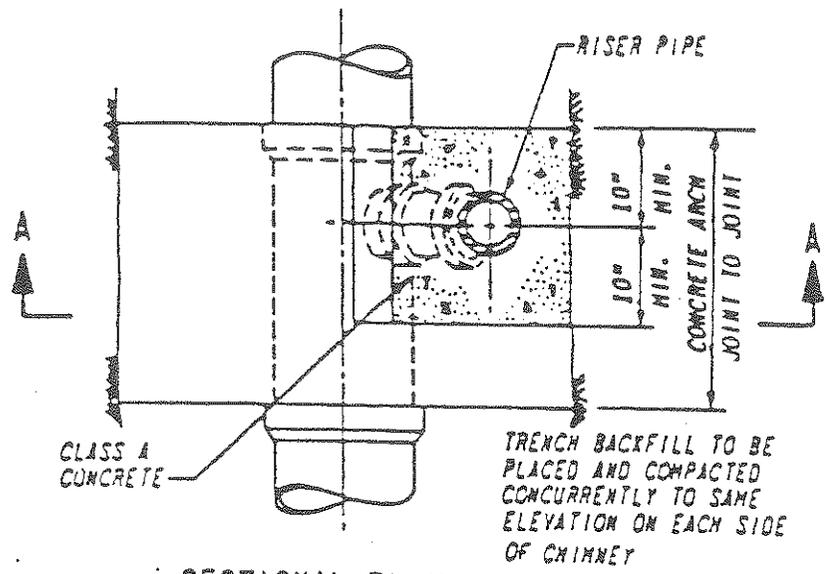
ALUMINUM SPLASH PLATE DETAIL

PIPE SIZE TABLE

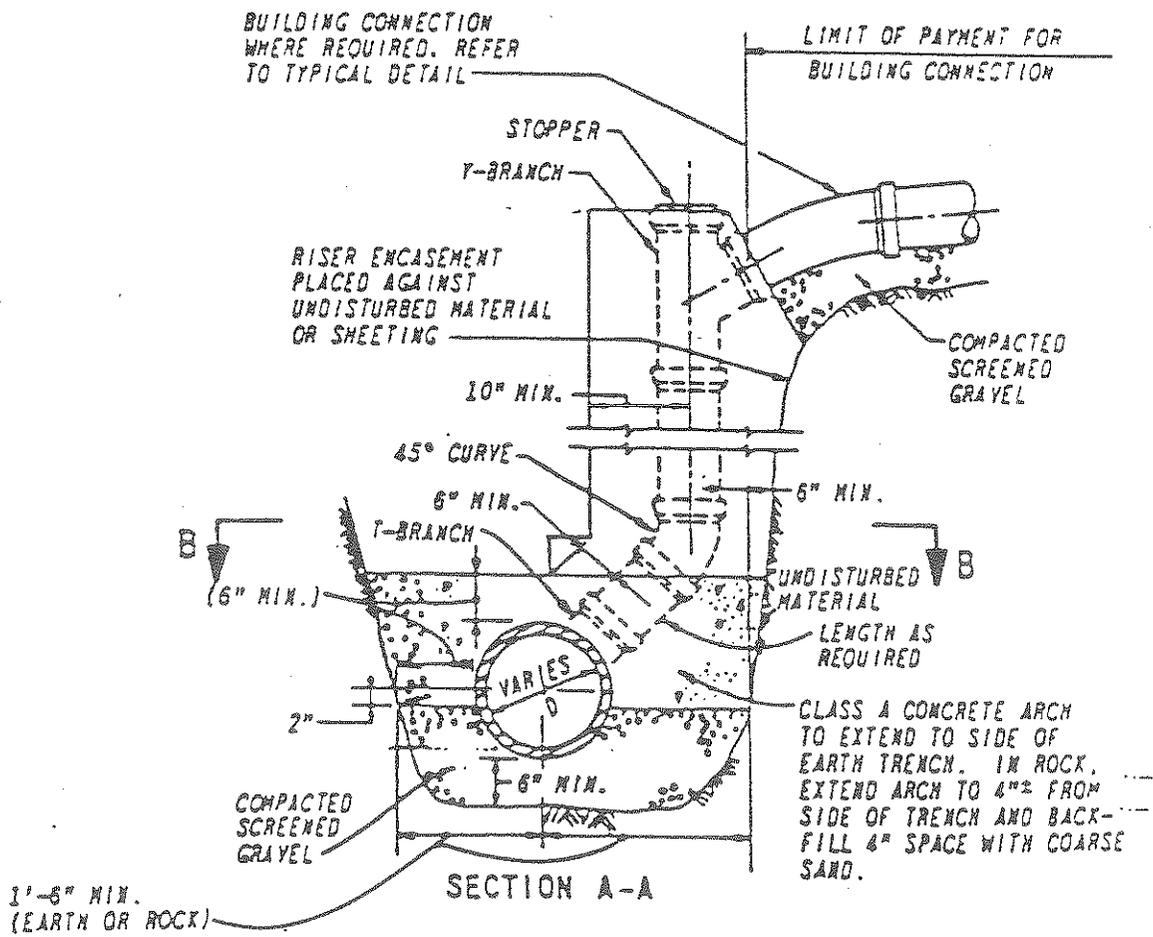
PIPE SIZES (IN.)	
INLET SEWER $D_1$	DROP PIPE $D_2$
12	10
10	8
8	8
6	6
5	5



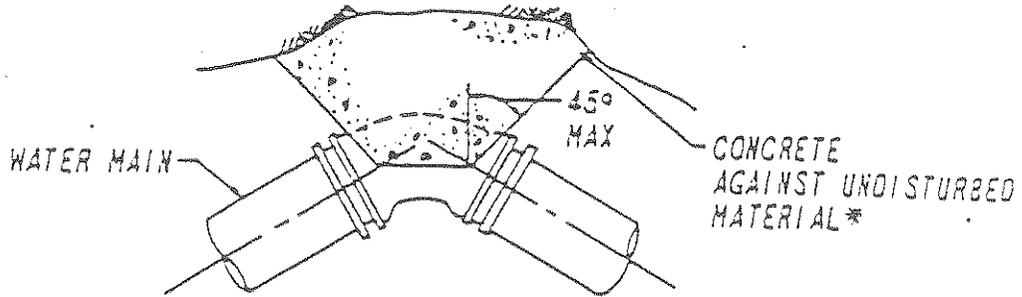
INSIDE DROP INLETS FOR  
PVC PIPE SEWERS  
12" DIAMETER AND SMALLER



SECTIONAL PLAN B-B



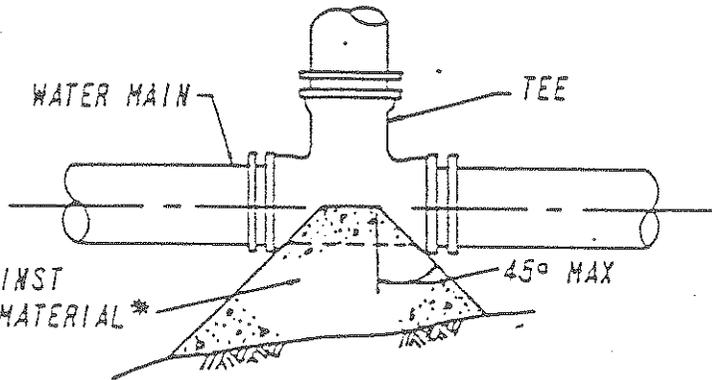
SEWER CHIMNEY (FOR PVC PIPE)



PLAN

TYPICAL BEND  
THRUST BLOCK DETAILS

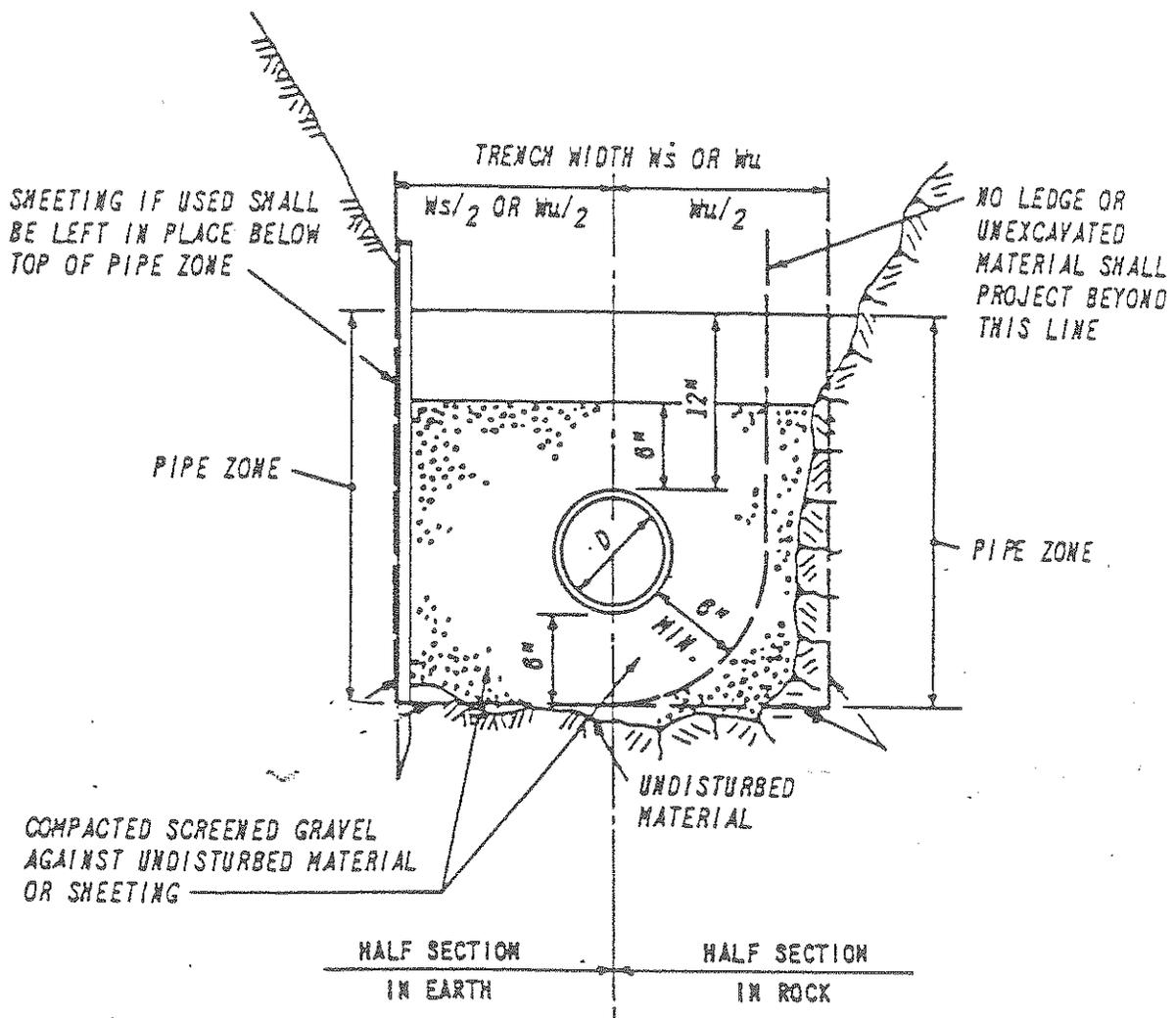
NO SCALE



PLAN

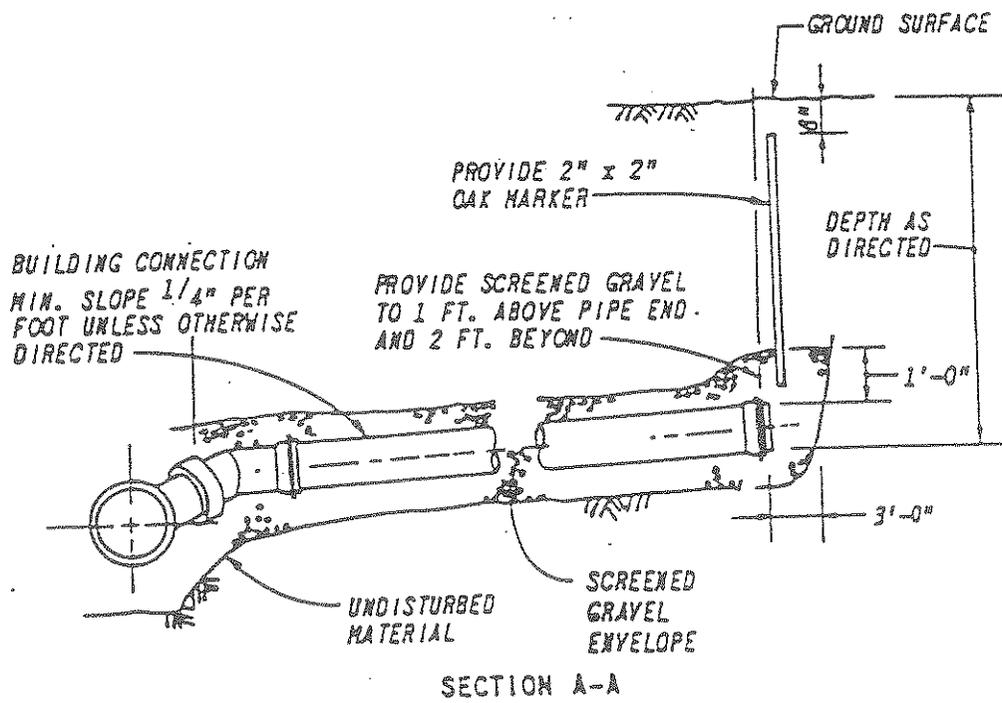
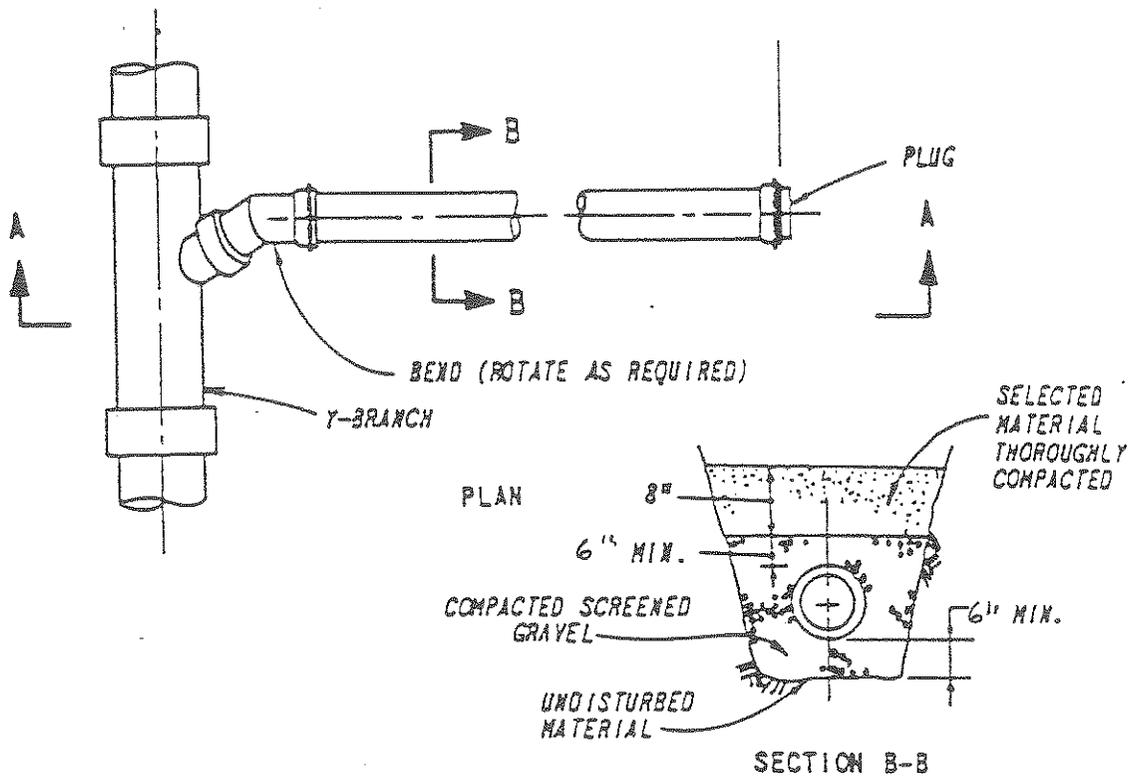
TYPICAL TEE  
THRUST BLOCK DETAILS

NO SCALE

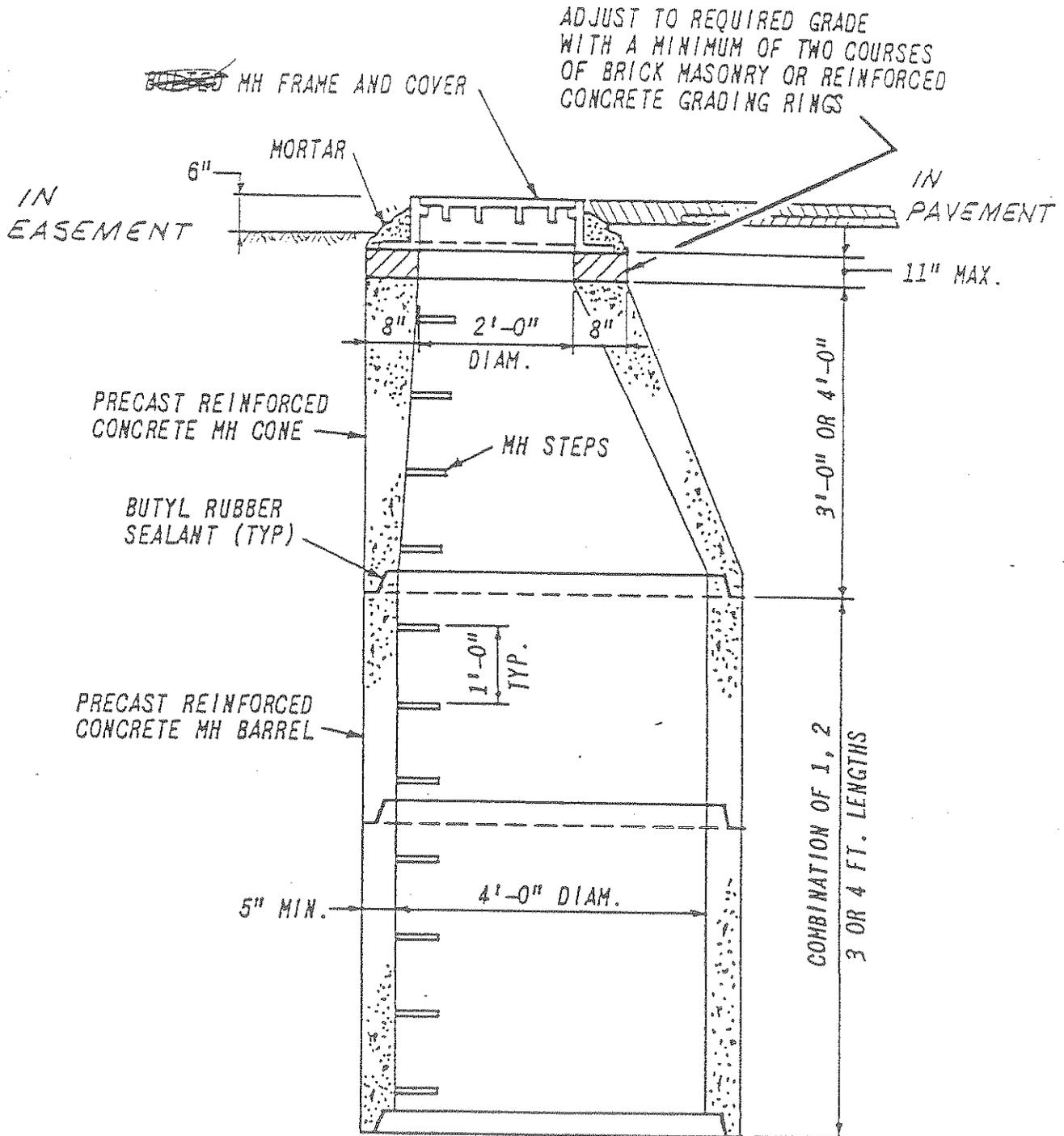


TRENCH WIDTH $W_s$ OR $W_u$		
DIAMETER OF PIPE D	$W_u$ UNSHEETED	$W_s$ SHEETED
12" AND SMALLER	3'-0"	4'-2"

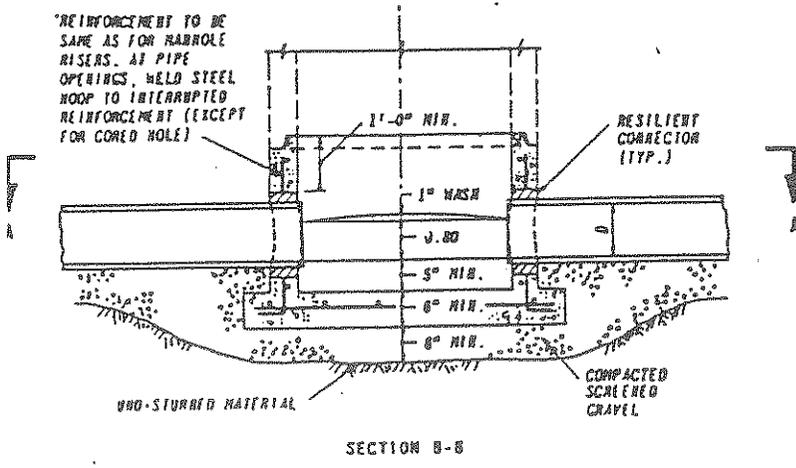
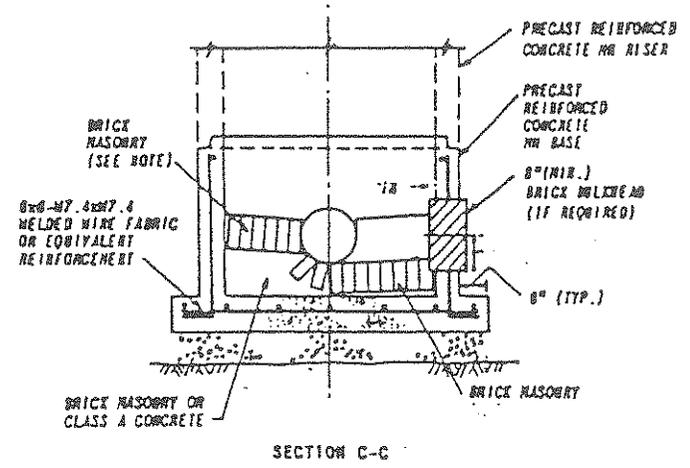
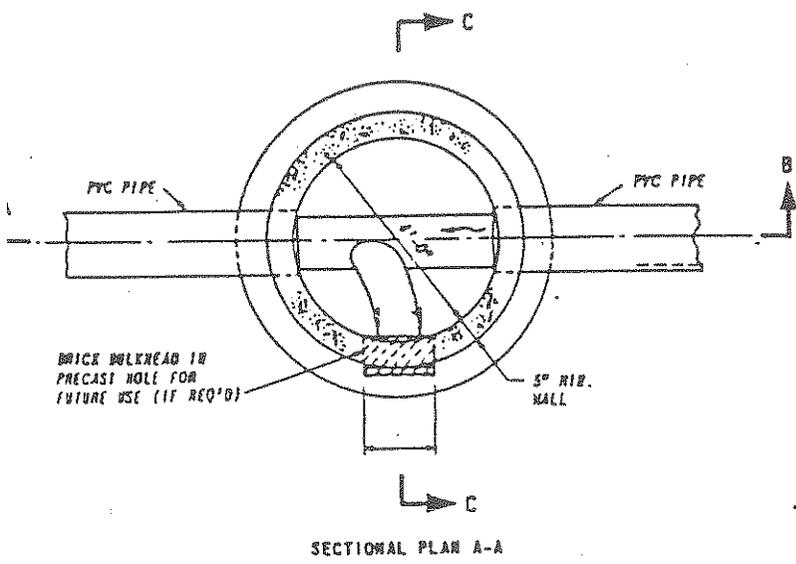
TRENCH SECTIONS  
FOR PVC PIPE  
18-IN. DIAMETER AND SMALLER



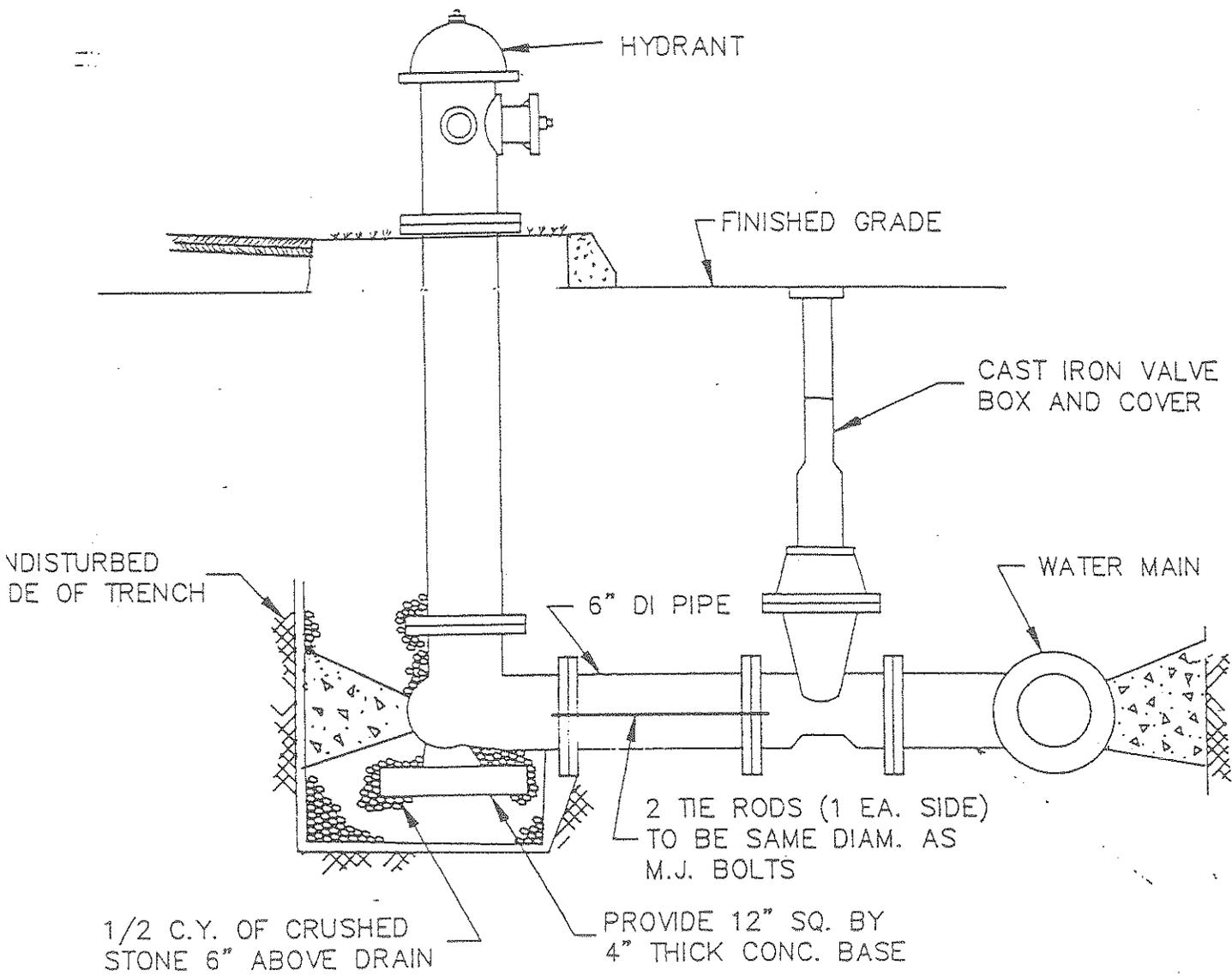
BUILDING CONNECTION  
(FOR PVC PIPE)



SEWER MANHOLE RISER AND  
ECCENTRIC CONE TOP



4'-0" PRECAST REINFORCED CONCRETE  
MANHOLE BASE FOR PVC SEWERS



# HYDRANT DETAIL

NOT TO SCALE



BOARD OF WATER/SEWER COMMISSIONERS

155 VILLAGE STREET  
MEDWAY, MASSACHUSETTS 02053

October 4, 1999

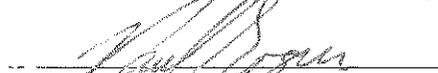
Added to Water/Sewer Department Rules & Regulations :

Article IV

#20. The owner of any premises having a private well or other private water source will not be allowed to run said system within the same structure as the public water supply system or to have a physical connection between the private well system and the public water supply system.

  
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Board of Water/Sewer Commissioners