

ASHBURNHAM SEWER INSTALLATION RULES AND REGULATIONS

The Ashburnham Board of Water and Sewer Commissioners (WSC) has adopted the following rules and regulations for the installation of residential and commercial building sewer connections, and for the licensing of installers, inspection of work, and penalties for violations. In the event of any conflict of interpretation between this document and the rules and regulations agreed to with the City of Gardner, the more stringent shall apply.

SECTION I. SEWER DEPARTMENT PERMIT, LICENSE REQUIREMENTS AND FEES FOR SEWER CONNECTIONS

ALL APPLICANTS FOR NEW CONSTRUCTION FOR ASHBURNHAM'S SEWER COLLECTION SYSTEM WILL DO THE FOLLOWING: All applicants for new sewer construction must submit to the DPW Superintendent an approved engineered set of plans for review and approval. Upon approval of plans by the DPW Superintendent, the following fees must be paid with submission of a Permit Application. Permits are required for sewer connections with valid hoisting license, insurance certificate submitted with permit application. All fees are collected when the application is submitted. Dig Safe number must be provided on application for permit. Permit must include all information specified, fees requested and signed/dated by applicant before it will be accepted.

ALL FEES MUST BE PAID PRIOR TO START OF WORK

Fees to be collected:

Permit application fee \$75.00
Drainlayer License fee \$100.00 (Expires one year from permit date*)
Entrance fee to system \$10,500.00

*Annual renewal for Drainlayer License fee is \$100.00 – Contractor must contact the DPW to renew and fee needs to be paid by expiration date and current Hoisting License copy to be provided.

NO WORK IS TO BEGIN WITHOUT ALL FEES PAID AND PERMIT APPROVED/SIGNED OFF BY THE DPW SUPERINTENDENT. Inspections are required when trench for line is dug and when connection is completed prior to backfilling trench. Asbuilt is required to be submitted to DPW office within 2 days of inspection.

Sewer installers must obtain a license from the Water and Sewer Department before performing any work. Licenses are issued to individuals only – not companies. More than one person may be listed on an individual license at the discretion of the DPW Superintendent. Licenses shall be issued for one calendar year commencing on approval date of licensing, names to be listed in a policy to be set by the DPW Superintendent. The applicant will supervise and be responsible for all work performed under the license. Any blasting required shall be done by a person licensed to perform blasting in the Commonwealth, and only after receiving a blasting permit from the Ashburnham Fire Department. The applicant shall submit Certificates of Insurance in the sum of \$1,000,000 to cover General Liability, including bodily injury, property damage and \$300,000 from XCU coverage for explosion, collapse, or underground damage. No insurance policy may be canceled without thirty (30) days prior written notice by registered mail to the DPW Superintendent and Fire Department. Such insurance shall indemnify the Town against all claims, liabilities, or actions for damages incurred in, or in any connected with, the performance of work by a sewer installer and for or by reason of, any acts of omission of said sewer

installer in the performance of his work. If insurance or bond is canceled or expires, the sewer installer license shall become void.

Any sewer work involving excavation in Town roads will require a bond, cash deposit, or certified check in an amount determined by the DPW Superintendent upon review of the proposed work.

SECTION II. RESIDENTIAL 1 AND 2 FAMILY (GRAVITY SEWERS)

1. All pipe and fittings installed shall be new and clean 4" PVC, unibell type SDR 35 conforming to and compatible with that required in Ashburnham-by-Ashburnham sewer Contract #1, 1995 (SEA Consultants Inc.)
2. Pipe exiting foundation shall be schedule 40 PVC for a distance of 10 feet for all new dwellings and all existing dwellings where the exit is relocated.

Where exit location is not changed, existing 4" cast iron pipe only may remain if inspection determines its condition to be suitable (free from damage or excessive residue). In such case, acceptable cast iron pipe may remain but only for the distance from the foundation to the first joint, the length of which must be exposed for inspection and for compliance with applicable requirements of this section.

3. A Fernco type (or equal) fitting may be used for transition from cast iron to SDR 35 pipe, but not otherwise. The connection from schedule 40 pipe to SDR 35 pipe shall be made by use of an approved PVC transition coupling. The transition from 4" pipe to the 6" stub shall be made with SDR 35 fittings.
4. Pipeline must be laid straight and at a uniform slope of no less than .01 (1/4" per foot).
5. Fittings of no greater than 45 degrees may be used to correct alignment of pipe.
6. Where site layout indicates an alignment change which exceeds 45 degrees or where the length of pipeline exceeds 100 feet, an approved cleanout or manhole may be required. It is the responsibility of the installer to present a proposed design, in writing, to be accepted by the Board prior to construction. For specification of manholes refer to Ashburnham Sewer Contract #1, 1995 (SEA Consultants, Inc.). Manhole covers may be of a lesser rating if approved by the WSC. See attached sketch for cleanout specifications.
7. Pipe must be installed to a minimum depth of 4 feet from finish grade to top of pipe. Where pipe must pass below driveways or walkways customarily cleared of snow, a depth of 5 feet is required. Installations where minimum depths cannot be met require use of approved pipe insulation.
8. Pipe shall be installed below the footing wherever possible.
9. Excavation shall be made to provide for a 4" minimum depth of clean ¾" stone bedding. Any excavation below the required 4" bedding shall be filled with additional stone bedding, or select backfill (common fill – dry and free of stones larger than 1 ½") mechanically compacted in lifts of 8".

10. Pipeline shall be backfilled with $\frac{3}{4}$ " stone to the level of the top of pipe, chinked and compacted to prevent lateral movement of the pipe. An additional 4" of $\frac{3}{4}$ " stone or 8" of select backfill shall be placed and compacted for the width of the trench.
11. The remainder of backfill shall be free of debris, stumps or rocks exceeding 1 foot in diameter and placed in a manner so as to prevent settling.
12. Installer shall provide a firm, stable excavation, to required grade, prior to opening 6" stub.
13. Groundwater shall be controlled by means of pumping before the 6" stub can be opened and for the duration of the pipeline assembly.
14. The 6" stub fitting can be removed only in the presence of the Town Inspector.
15. An appropriate size plug shall be available at all times and used to plug the end of the pipe during assembly whenever the work is interrupted or left unattended.
16. For a distance of 5 feet from the foundation the requirement for $\frac{3}{4}$ " stone will be replaced by clay type material, placed and compacted so as to provide an impervious dam.
17. All backfill beneath a footing shall be $\frac{3}{4}$ " stone.
18. Any installation requiring the removal of ledge by means of blasting must be done in accordance with procedures and permits from the Ashburnham Fire Department.
19. Any damage to Town roads resulting from the installation of sewer connections will be repaired promptly by the installer as directed by the DPW Superintendent. Failure to do so will be considered a violation against the sewer installer's license and subject to the same penalties described in Section VI.
20. Any variations to these regulations must be proposed in writing and accepted by the Board prior to construction.
21. The Contractor must submit an Asbuilt to the DPW office within 2 days of connection completion.

SECTION III. COMMERCIAL, RESIDENTIAL (MORE THAN 2 FAMILY) GRAVITY SEWERS

1. Pipe size shall be 6".
2. Rules and regulations of the previous section shall be included in every way applicable.
3. Manholes only (not cleanouts) will be used where required. For specifications of manholes refer to Ashburnham Sewer Contract #1, 1995 (SEA Consultants Inc.). Manhole covers may be a lesser rating if approved by the DPW Superintendent.
4. The DPW Superintendent may require grease traps (specification to equal or exceed those of Title V) in addition to plumbing code requirements.

5. Any variations to these regulations must be proposed in writing and accepted by the Board prior to construction.

SECTION IV. PRESSURE SEWERS – RESIDENTIAL AND COMMERCIAL

1. For installation requiring a pump system, the installer shall submit the manufacturer's installation manual and specifications for the proposed sewage pump.
2. The minimum standard shall be a sewage pump having the capability of handling spherical solids of at least 2" diameter.
3. Existing precast concrete septic tank may be modified for use as a pump chamber if tested and proven to be watertight.
4. Where a new pump chamber is proposed, manufacturer's specifications must be submitted for DPW Director approval.
5. Discharge shall be 2" schedule 40 PVC pipe or otherwise approved by the DPW Superintendent.
6. Refer to Section II, #7 for depth of pipe requirements.
7. The transition to gravity sewer shall be to 4" SDR35 for a minimum distance of 5' before transition to 6" stub.
8. The gravity sewer shall conform to all applicable standards of Section II.

SECTION V. INSPECTION

The licensed installer shall notify the DPW Superintendent 24 hours prior to any excavation and arrange for inspections at the following stages of work:

1. When the requirements are met for the sewer stub to be opened.
2. When the pipeline is completely assembled and the required ¾" stone and clay dam material are in place to the level of the top of pipe.
3. When special circumstances require additional inspections.
4. Contractor is to provide an Asbuilt to the DPW Office within 2 days of inspection of connection.

SECTION VI. PENALTIES

Failure to comply with any rules, regulations, specifications or inspection procedures will result in, but not be limited to those penalties described in the application for licensing. Additional monetary penalties and or immediate revocation of license can be imposed on the installer by the DPW Superintendent if the severity of the violation so dictates.

SECTION VII. EXTENSIONS

The extension of sewers in Town roads and proposed Town roads shall conform to all regulations and specifications of Ashburnham Sewers Contract #1, 1995 (SEA Consultants, Inc.)

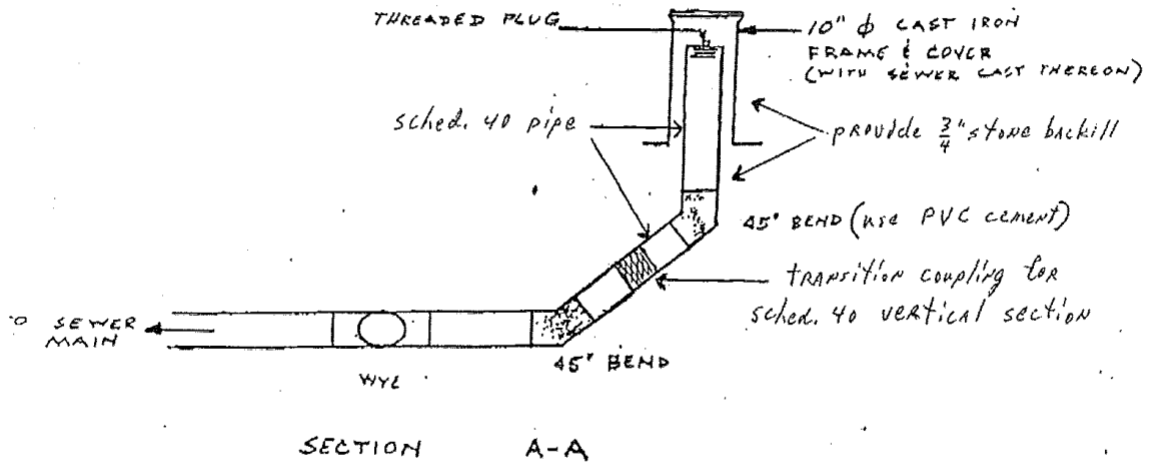
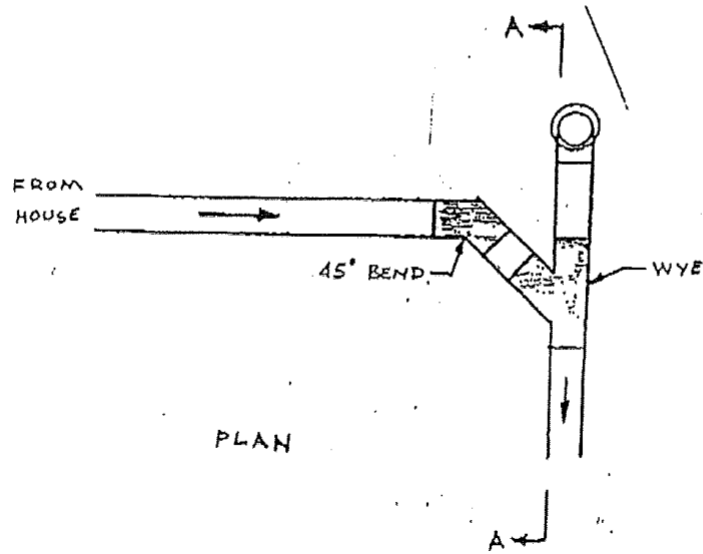
SECTION VIII. WASTEWATER METERING

In the event a user is not connected to the public water supply, but is connected to the public sewer, said user shall have a water meter installed by the DPW and user shall maintain a water meter, at their expense, from which the Town may monitor the use of the sewer. The type of meter and the method of installation shall be acceptable to the Water & Sewer Department.

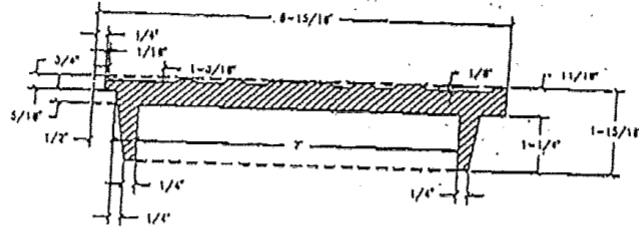
SECTION IX. NON-SEWER USE WATER

The DPW Superintendent, after receiving a written request from a user, may credit the user for disposal charges associated with water that is not discharged to the wastewater collection system from his property (e.g., outside watering, filling swimming pools, etc.). The volume of non-sewer use water must be measured with a second water meter, or other means that is acceptable to the Water Department and the DPW Superintendent. The user will receive a credit on his user charge bill for non-sewer use water. All water meter and plumbing costs shall be borne by the user.

Adopted by vote of the Water-Sewer Commission – March 26, 1996.



TYPICAL SERVICE CLEANOUT AT 90° BEND



"A" SECTION

