

BASIC REQUIREMENTS FOR SEWER INSTALLATIONS

TOWN OF RYE, NH

PERMITS

1. Homeowners Permit: Must have a sewer permit for the house that is entering sewer. They are obtained at the Sewer Commission Office, 830 Central Road 2nd Floor, Rye Beach NH 03871. No fee.
2. Installer Permit: Any person, contractor or plumber who will be installing sewer pipes and making sewer connections must first be licensed by the Town. The Town maintains a list of contractors who have obtained an Installer's License. The homeowner may select a contractor from this list or propose another contractor of their choosing. If a proposed contractor does not have an installer's license, one must be acquired prior to construction. The contractor should contact the Sewer Department to obtain an Installer's License. The cost of the Installer's License is \$100 and paid annually.
3. The homeowner must pay the required hook-up fee (one-time fee) to the Rye Sewer Commission prior to construction. The list of sewer charges may be obtained at the Sewer Commission Office and are updated on a quarterly basis.

HOUSE CONNCTION COST AND LIABILITY

All cost incurred for installing the building sewer (house connection) shall be paid by the Owner. Any damage that may occur from this installation shall be the responsibility of the property owner. The property owner shall indemnify the Town from any liability which may occur.

GENERAL REQUIREMENTS

1. No sump pumps, foundation or roof drains will be connected to sewers.
2. A separate sewer must be provided for each building unless a waiver is granted in writing by the Sewer Commission, or if one building stands behind another. (See Sewer Ordinance)
3. Old building sewers may be used only if they meet the requirements of these specifications and pass the appropriate inspection and testing.
4. Any house sewer requiring pumping to the sewer shall submit for approval design drawings to the Sewer Commission.
5. Perform all test and inspections only under the direct supervision of the Rye Sewer Commission/Representative in accordance with the requirements of the local and State plumbing codes (RSA 329-A and Rye Building Code Section 2).

6. Penalties for violation of these regulations shall be as provided by NH RSA 676:17, as amended.

INSTALLATION

1. Allowable types of pipe:

Gravity Sewer

- a. PVC – SDR 35 or Schedule 40
- b. Cast Iron – No Hub or Ductile iron
- c. Pipe through wall must be either cast iron or PVC schedule 40

Forced Main Sewer

- a. PVC – SDR 26 or 21

2. Bedding Materials:

- a. Compacted screened gravel or crushed stone shall be well graded in size from $\frac{1}{4}$ inch to $\frac{3}{4}$ inch. See page 3 for gravity sewer and page 4 for forced main.
- b. Clean, hard, and durable particles or fragments.
- c. Sieve Analysis:

<u>Sieve Designation</u>	<u>% Passing by Weight Square Opening</u>
3/8"	100
No. 4	95-100
No. 16	50-85
No. 50	10-30
No. 100	2-10

3. Sand:

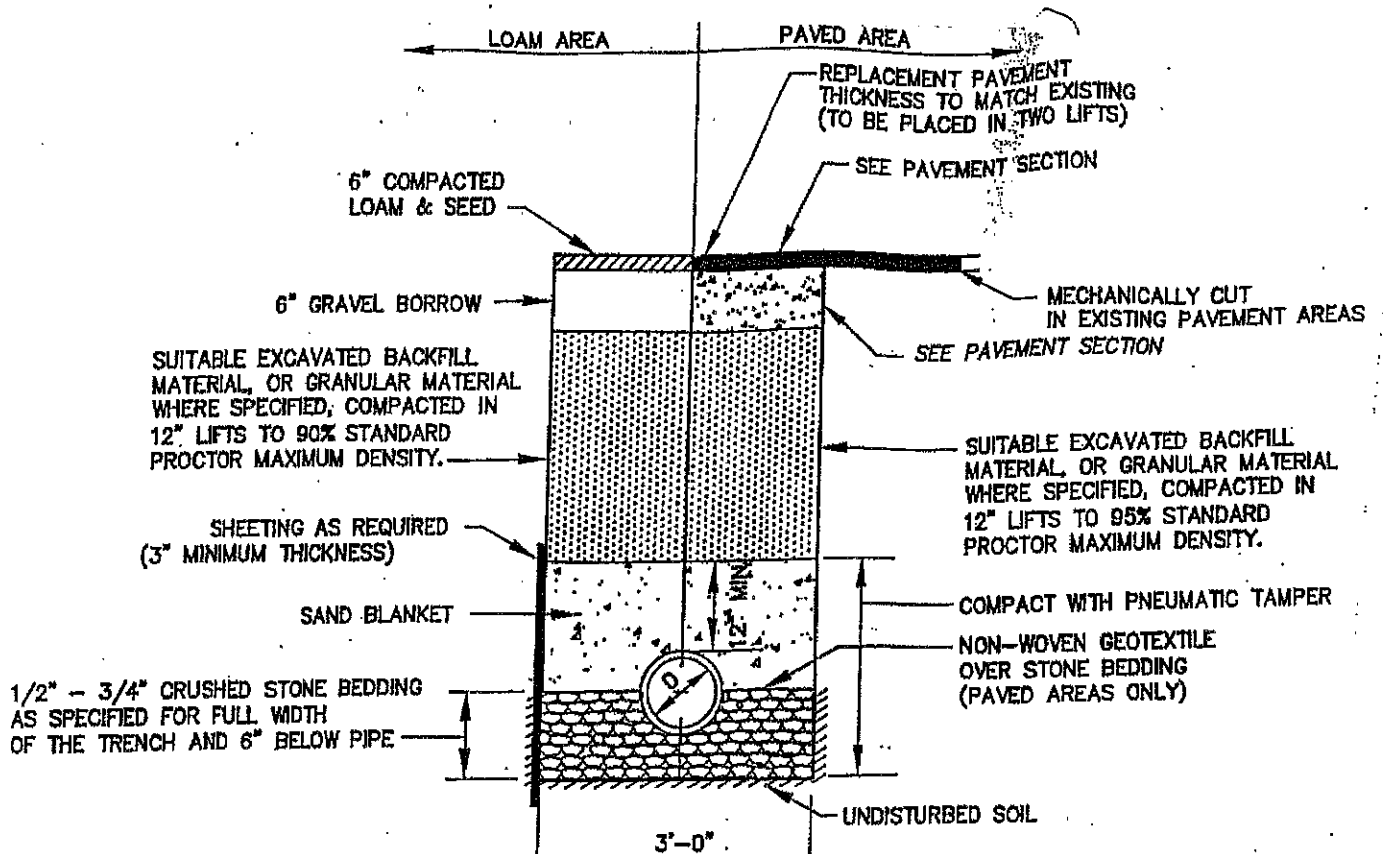
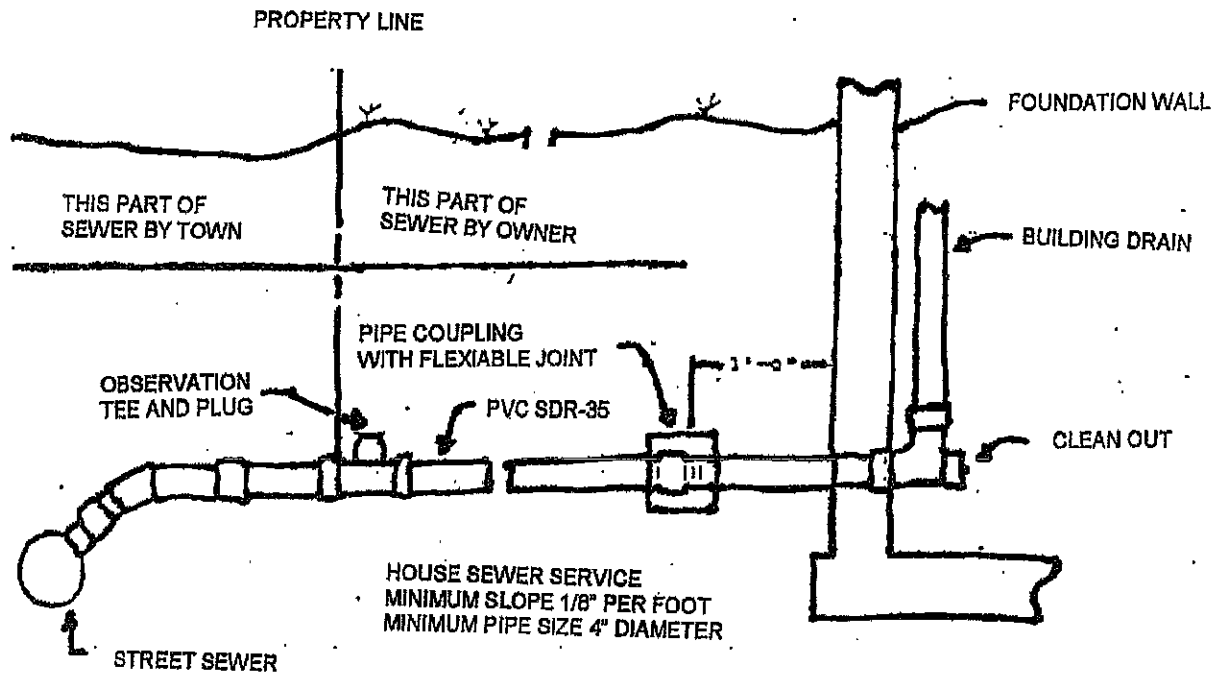
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3/8"	100
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4. Insulation:

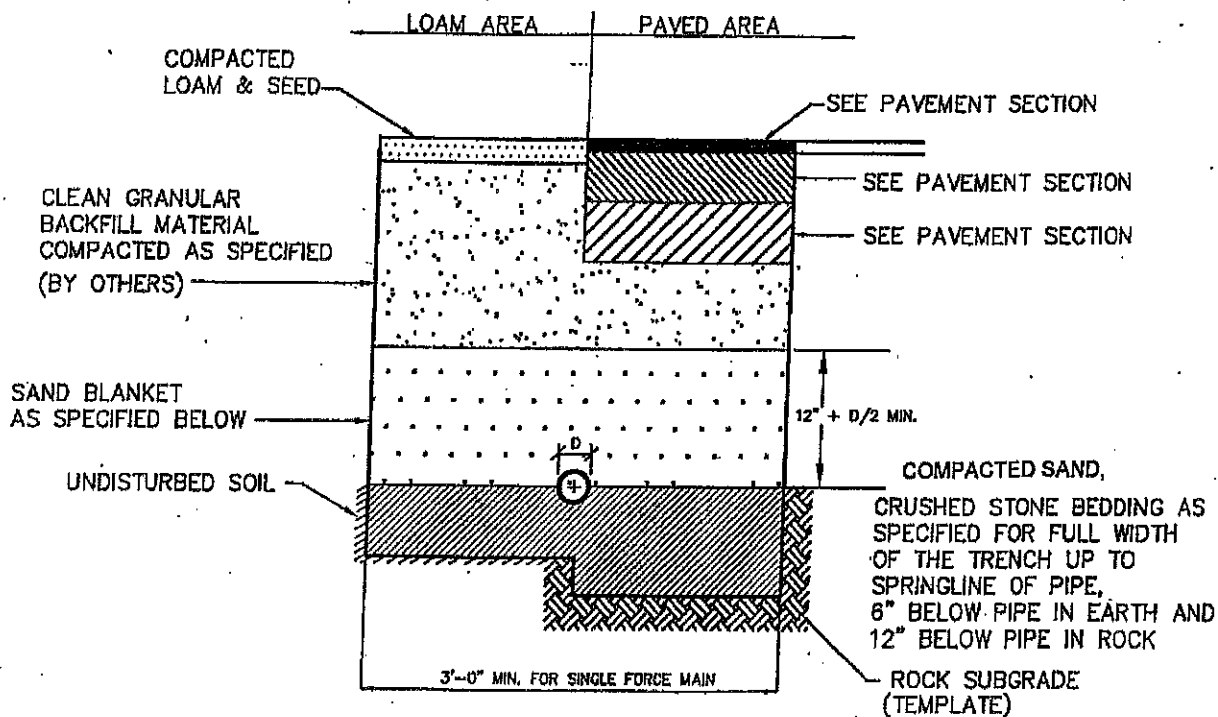
If any part of the sewer service to the building is less than 4' below finished grade, then 2" ridged insulation board will be required over the top of the pipe.

HOUSE SEWER



GRAVITY SEWER TRENCH SECTION

NOT TO SCALE



BACKFILL MATERIAL BELOW PAVED OR CONCRETE AREAS, BEDDING MATERIAL, AND SAND BLANKET SHALL BE COMPACTED TO NOT LESS THAN 95% OF AASHTO T 99, METHOD C. SUITABLE BACKFILL MATERIAL BELOW LOAM AREAS SHALL BE COMPACTED TO NOT LESS THAN 90% OF AASHTO T 99, METHOD C.

SAND BLANKET		CRUSHED STONE BEDDING *	
SIEVE SIZE	% FINER BY WEIGHT	SIEVE SIZE	% PASSING BY WEIGHT
1/2"	90 - 100	1"	100
200	0 - 15	3/4"	90 - 100
		3/8"	20 - 55
		# 4	0 - 10
		# 8	0 - 5

* EQUIVALENT TO STANDARD STONE SIZE #67 - SECTION 703 OF NHDOT STANDARD SPECIFICATIONS

SEWER FORCE MAIN TRENCH SECTION

NOT TO SCALE

TESTING

1. Sewer line must be tested by the Contractor – inspected by the Town. Call the Rye Sewer Commission (603) 964-6815, 24 hours in advance to make an appointment for inspection.
2. Types of Test:
 - A. Water test (10ft. standpipe of water).
 - B. Air Test (4 psig).
3. All remedial work necessary to correct deficiencies discovered as a result of testing and/or inspections must be completely retested.
4. Testing Sewer Pipeline:
 - a. After the trench has been backfilled, the sewer pipe cleaned, and the pneumatic plugs checked, place the plugs in the sewer line at the observation tee and the clean out and inflate them.
 - b. Introduce low pressure air into the sealed sewer pipeline until the air pressure reaches 5 psig, 10 psig for forced main.
 - c. Allow a minimum of 2 minutes for the air pressure to stabilize to a minimum of 4 psig, for gravity sewer.
 - d. After the stabilization period, disconnect the air hose from the control panel to the air supply.
 - e. Allow a minimum of 4 minutes to stabilize to a minimum of 8 psig for forced main.
5. Test Results:
 - a. If the installation fails the low-pressure air tests (loss of 3 psig in more than 10 minutes), determine the source of leakage.
 - b. Repair or replace all defective materials and/or workmanship and repeat low pressure air test.
6. Alignment Test:
 - a. Perform test for the correctness of horizontal and vertical alignment on each and every length of gravity sewer pipeline.
 - b. The Sewer Commission's Representative shall perform a visual inspection utilizing levels, lines, or equipment at his discretion to determine the acceptability of the installation.

SEPTIC TANKS

1. Once the building is tied into Town sewer the septic tank must be pumped and filled in accordance with State requirements.
2. The septic tank should be pumped, and all sludge removed. A statement signed by a licensed septic tank hauler must be provided to the Sewer Commission's Representative verifying that this has been done.
3. The septic tank should be filled completely with common borrow.

4. The inlet and outlet pipes must be broken off at the tank wall.
5. The Sewer Commission's Representative must be notified so that a visual verification can be made.

Please note: All request for exceptions to the Basic Requirements for Sewer Installations must be made to the Sewer Commission and accompany engineer approved drawings.

08/24/23