

CITY OF BEVERLY
RULES AND REGULATIONS - SEWER SYSTEM

- A **PERMIT FEE OF \$100.00** payable to the City of Beverly is required to obtain a sewer permit.
- **NO SEWER PERMITS** will be issued to persons who ARE NOT licensed excavators in the City of Beverly.
- **NO SEWER PERMITS** will be issued to any contractor or excavator who has any outstanding inspections, substandard trenches, as-built drawings, or for any reason in the best interests of the City of Beverly as determined by the City Engineer or his agent.

I. MAINS

- **SEWER MAIN PIPE CONSTRUCTION** shall be P.V.C. Type SDR 35 or of a type and size to meet all design standards and shall be acceptable by the Engineer Department.
- **ALL NEW SEWER MAINS** shall be professionally pressure tested and a written test report submitted to the engineering division. All manholes shall be hydrostatically tested for leakage.

II. LATERALS

- **GRAVITY SEWER LATERAL PIPE** shall be P.V.C. Type SDR 35, not less than 4 inches in diameter and shall be laid full size from the main sewer to where it joins the P.V.C. schedule 40 or cast iron building connection. All connections of dissimilar pipe shall be of approved connectors.
- **GRAVITY SEWER LATERALS** shall be laid as straight as possible and on a uniform grade of not less than ¼ inch per foot (2%) or more than 10%.
- **LATERALS OVER 100 FT.** in length from the main to the structure being connected to sewer shall have a manhole or cleanout at the mid-point or every 100 feet.
- **SEWER LATERALS** shall be at least 10 feet horizontally and 18 inches below from any proposed or existing water service or main and at least 3 feet from any other underground utility.
- **FOR LATERAL CONNECTIONS TO DEEP SEWER MAINS**, the use of chimney structures is permitted and shall be constructed in a manner approved by the City Engineer or his agent.

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III. PRESSURE SEWER

- **ALL P.V.C. PRESSURE SEWER PIPE** shall be a minimum of schedule 40. SDR 21 may also be used with proper compression joints and fittings.
- **THE MINIMUM COVER FOR PRESSURE SEWER** shall be 5 feet. Where this is not possible or practical, the pipe must be completely insulated. All depths less than 5 feet must receive prior approval by the City Engineer or his agent.
- **WHENEVER PRESSURE SEWERS ENTER MANHOLES**, the force main pipe shall enter the manhole in accordance with the “**PIPES ENTERING MANHOLES**” bullet below.
- **THE CITY WILL NOT MAINTAIN ANY PRIVATELY INSTALLED PRESSURE SEWER PIPE.**

IV. BEDDING and BACKFILL

- **THE BEDDING FOR ALL PIPE** shall be shaped to conform reasonably close to the lower 10% of the pipe. Recesses shall be excavated for bell and spigot in order to insure uniform support throughout the entire alignment of the pipe.
- **THE FIRST 12 INCHES OF BACKFILL OVER THE PIPE** shall be firmly compacted sand, bank run gravel, or $\frac{3}{4}$ " crushed stone. For the remainder of the backfill, no stone larger than 8 inches will be permitted.
- **ALL BEDDING AND BACKFILL SPECIFICATIONS FOR P.V.C. PRESSURE SEWER PIPE** are the same as those for gravity lateral sewer pipe.

V. GENERAL CONDITONS

- **WHERE ANY CHANGE OF PIPE DIRECTION IS NECESSARY**, if greater than 22 degrees, a manhole or cleanout is required to be constructed to the City's standard specifications.
- **IN THE EVENT LEDGE IS ENCOUNTERED**, all rock shall be removed to a minimum depth of 6 inches below the lateral pipe and replaced with compacted sand, $\frac{3}{4}$ " crushed stone, or gravel bedding. Changes in direction due to ledge will not be allowed. The route of laterals from the main to the structure being connected to the sewer should be as straight as possible.

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- **WHERE A WYE FITTING IS NOT AVAILABLE**, a new WYE shall be cut into the main sewer and connected with appropriate fittings.
- **PIPES ENTERING MANHOLES** shall enter at the invert of the manhole. The existing invert shall be rebuilt with brick to accommodate the new connection. If a drop connection to a manhole is preferred, the drop will be built outside the manhole in a manner approved by the City Engineer or his agent.
- **WHERE ANY SEWER, MAIN OR SERVICE CROSSES ANY OTHER UTILITY**, the sewer shall be sleeved with ductile iron piping at a diameter of one size larger for 10 feet on either side using appropriate fittings to seal both ends.
- **ANY SEWER SERVICE PASSING UNDER OR THROUGH A FOUNDATION** shall be cast iron or schedule 40 P.V.C. pipe through a sleeve.
- **ALL SEWER PIPING AND STRUCTURES** must be inspected by the Engineering Divisions prior to any backfill. Ample advance notice must be given for inspections by calling 978-921-6000.
- **THE EXCAVATOR WILL PROVIDE** an acceptable “as-built” location drawing with sufficient dimensions, ties and depth, to allow easy and accurate locating of piping of any and all work performed at the site.
- **ANY AND ALL ITEMS** not covered by these regulations will be resolved in the best interests of the City of Beverly.