

APPENDIX II
REQUIREMENTS FOR PRESSURE BUILDING SEWER CONNECTION

A. Materials

The owner may use any of the following two types of pipe for the building connection.

1. PVC - Plastic pipe which shall meet the requirements of ASTM D-3034 at a pressure rating to be approved by the Superintendent.
2. Polyethylene - Plastic pipe which shall meet the requirements of ASTM D-3035 at a pressure rating to be approved by the Superintendent.

B. Grinder Pump

The total grinder pump installation must be approved by the Superintendent, including pump manufacturer, pump location, etc. Both the plans and/or specifications should be submitted with the permit application. All grinder pump stations shall be as manufactured by Environment/One or equal, except for those which will be maintained by the Village, in which case they must be manufactured by Environment/One. If another kind of grinder pump station is installed, the Village will not be responsible for the operation and maintenance of the grinder pump station.

C. Cleanouts

Cleanouts must be installed for every 100 feet of pipe and at every major change in direction. Cleanouts shall have solvent welded joints, and construction of cleanouts must be inspected by the Superintendent.

D. Valving

Both a check valve and a gate valve are required for the grinder pump system, with the check valve located between the gate valve and pump on the pressure main.

- E. No building sewer shall be laid parallel to or within three (3) feet of any bearing wall, which might thereby be weakened. The depth shall be sufficient to afford protection from frost. The building sewer shall be laid at uniform grade and in straight alignment insofar as possible. Changes in direction shall be made only with properly curved pipe and fittings (90 degree bends are not allowed).
- F. All excavations required for the installation of a building sewer shall be open trench work, unless otherwise approved by the Superintendent. Pipe laying and backfilling shall be performed in accordance with the pipe manufacturer's recommendation, but in any event shall conform to the following minimum standards:
1. The ditch shall be straight and true and to uniform grade insofar as possible.
 2. The bottom of the trench shall be shaped by hand to receive pipe, or a minimum of three (3) inches of a 50% mixture of #1 and #2 stone shall be placed in the trench bottom to receive the pipe.
 3. Where rock is encountered in the excavation of the trench, the rock shall be excavated at least six (6) inches below the grade of the pipe and covered with compacted sand to provide a sandbed for the pipe.
 4. After placing pipe and making joints per requirements, earth backfill shall be placed to the height of the top of the pipe and tamped.
 5. One (1) foot of earth fill, free from rocks, will then be placed and tamped, as measured from the top of the pipe.
 6. The remainder of the trench shall then be backfilled, but all such trenches in Village roads shall be filled in one-foot layers and tamped before additional dirt is added.
 7. Where the trench enters paved Village roads, the top of the trench plus six (6) inches on each side shall be paved with at least two-inch-thick asphalt pavement.

- G. Where it is necessary to connect the building sewer directly to the public sewer, such connections shall be made by a qualified plumber or sewer contractor under the direction of and according to the method specified by the Superintendent. The connection shall be made by carefully making a hole in the upper half of the public sewer, inserting a special branch connection to the public sewer so this branch connection is firm and watertight. All such building sewers shall meet the same leakage test as specified for sanitary sewers; such test shall be performed at the expense of the owner and witnessed by the Superintendent before backfill is permitted. No backfill shall be placed until the work has been inspected by the Superintendent or his representative. Building sewers and water service branches or connections will not be laid in the same trench.
- H. All joints shall be watertight and gastight.
- I. Alternate materials and methods of construction may be used only if they have been specifically approved by the Superintendent. He may approve any alternate, provided that the proposed design is satisfactory and complies with the intent of this appendix, and that the material or method of work offered is, for the purpose intended, at least the equivalent of that here prescribed in quality, strength, effectiveness, durability and safety.