

CHAPTER II

RULES AND REGULATIONS

STANDARD SPECIFICATIONS FOR CONSTRUCTION OF BUILDING SEWERS AND CONNECTIONS TO SEWERS IN TOWNSHIP OF CONCORD.

SECTION 1. DEFINITIONS

Unless the context specifically indicates otherwise, the meaning of terms used in this Chapter shall be as follows:

- a. "Department" means Concord Township Sewer Department.
- b. "Building Sewer" means the extension from the sewage drainage system of any structure to the Lateral of a Sewer.
- c. "Building Sewer Clean-out" means a clean-out on the building sewer just inside or outside the building wall through which the sewer may be cleaned.
- d. "Building Trap" means a device, fitting or assembly of fittings installed on the building drain to prevent circulation of air between the drainage system of the building and the Building Sewer.
- e. "Commercial Establishment" means any structure intended to be used wholly or in part for the purposes of carrying on a trade, business or profession or for social, amusement, religious, educational, charitable or public uses.
- f. "Fresh Air Vent" means a direct connection leading from the Building Trap to the outer air.
- g. "Improved Property" means any property located within the Township upon which there is erected a structure intended for continuous or periodic habitation, occupancy or use by human beings or animals and from which structure Sanitary Sewage and/or Industrial Wastes shall be or may be discharged.
- h. "Industrial Establishment" shall mean any structure intended to be used wholly or in part for the manufacturing, fabricating, processing, cleaning, laundering or assembly of any product commodity or article.
- i. "Industrial Waste" means any solid, liquid or gaseous substance or water borne wastes or form of energy rejected or escaping from any industrial, manufacturing, trade or business process or from the development, recovery or processing of

natural resources, as distinct from Sanitary Sewage. Industrial sewage to be treated by owner to domestic waste strength and composition.

j. "Lateral" means that part of the Sewerage System extending from a Sewer to the road right of way line or in a sewer right of way to the limit of that right of way or if no such Lateral shall be provided, then "Lateral" shall mean that portion of or place in a Sewer which is provided for connection of any Building Sewer.

k. "Owner" means any person vested with ownership legal or equitable, sole or partial, of any property served directly or indirectly, by the Sewerage System.

l. "Plumbing Inspector" means the person or persons appointed by the Department and/or Township to enforce the terms of these Rules and Regulations and/or the Plumbing Code of the Township.

m. "Private dwelling or living unit" means any structure intended to be occupied as a whole by one family or an apartment intended to be occupied by one family or any other one-family living unit.

n. "Domestic Sanitary Sewage" means the normal waste water carrying household and toilet wastes from residences, business buildings, institutions, and Commercial and Industrial Establishments.

o. "Sewer Manager" means any person who may, from time to time, be placed in general charge of the Sewerage System.

p. "Sewerage System" means all facilities owned and operated by the Authority for the collection, transportation, treatment or disposal of Sanitary Sewage.

q. "Township" means the Township of Concord, Delaware County, Pennsylvania.

SECTION 2. USE OF PUBLIC SEWERS REQUIRED

1. The Owner of any Improved Property accessible to and whose principal building is within one hundred fifty (150) feet of the Public Sewerage System, shall connect such improved Property therewith, in such manner as this Township may require, within sixty (60) days after notice to such Owner from this Township to make such connection, for the purpose of discharge of all Sanitary Sewage and Industrial Wastes from such Improved Property, subject to such limitations and restrictions as shall be established herein or otherwise shall be established by this Township from time to time.

2. No privy vault, cesspool, sinkhole, septic tank or similar receptacle shall be used and maintained at any time upon any Improved Property which has been

connected to a Sewer or which shall be required under Section 2. to be connected to a Sewer.

Every such privy vault, cesspool, sinkhole, septic tank or similar receptacle in existence shall be abandoned and at the discretion of the Township, shall be cleansed and filled under the direction and supervision of this Township; and any such privy vault, cesspool, sinkhole, septic tank or similar receptacle not so abandoned and, if required by this Township, cleansed and filled, shall constitute a nuisance and such nuisance may be abated as provided by law, at the expense of the Owner of such Improved Property.

3. No privy vault, cesspool, sinkhole, septic tank or similar receptacle at any time shall be connected with a Sewer.

4. The notice by this Township to make a connection to a Sewer, shall consist of a written or printed document requiring such connection in accordance with the provisions of this Chapter II and specifying that such connection shall be made within sixty (60) days from the date such notice is given. Such notice may be given at any time after a Sewer is in place which can receive and convey Sanitary Sewage and Industrial Wastes for treatment and disposal from the particular Improved Property. Such notice shall be served upon the Owner either by personal service or by registered mail or by such method as at the time may be provided by law.

5. If the Owner of any Improved Property located in this Township and accessible to and whose principal building is within one hundred fifty (150) feet from the Sewerage System, after sixty (60) days' notice from this Township, in accordance with Section 2. shall fail to connect such Improved Property, as required, this Township, in addition to all other remedies allowed by law, may make such connection and may collect from such Owner the costs and expenses thereof. In such case, this Township shall forthwith, upon completion of the work, send an itemized bill of the cost of the construction of such connection to the Owner of the Improved Property to which connection has been so made, which bill shall be payable forthwith. In case of neglect or refusal by the Owner of such Improved Property to pay said bill, this Township shall file a municipal lien for said construction within six (6) months of the date of the completion of the construction of said connection, the same to be subject in all respects to the general law provided for the filing and recovery of municipal liens.

SECTION 3. RULES AND REGULATIONS GOVERNING BUILDING SEWERS AND CONNECTIONS TO SEWERS

1. Where an Improved Property, at the time of connection to a Sewer is required, shall be served by its own sewage disposal system or device, the existing house sewer line shall be broken on the structure side of such sewage disposal system or device and attachment shall be made, with proper fittings, to continue such house sewer line, as a Building Sewer. If the house sewer line is bituminous material or is not sound it shall be replaced back to the structure.

2. Every excavation for a Building Sewer shall be guarded adequately with barricades and lights to protect all Persons from damage and injury. Streets, sidewalks and other public property disturbed in the course of installation of a Building Sewer shall be restored, at the cost and expense of the Owner of the Improved Property being connected, in a manner satisfactory to this Township.

3. This Township reserves the right to adopt, from time to time, additional rules and regulations as it shall deem necessary and proper relating to connection with a Sewer and the Sewer System, which additional rules and regulations, to the extent appropriate, shall be and shall be construed as part of this Chapter II.

4. Special requirements necessitated by physical conditions encountered or imposed on the building sewer shall be constructed to the satisfaction of the Township Engineer and Plumbing Inspector. The Township specifically reserves the right to refuse a permit to connect to its sewer system whenever, in the opinion of the Engineer or other duly authorized representative of the Township, special conditions require additional safeguards, or observation of more stringent specifications.

5. For each and every building or property, a separate permit to connect to the Concord Sanitary Sewer System will be required. A separate building sewer for each building will be required. A single building sewer shall be provided for a school, apartment building, commercial use, or other multi-unit structure where the entire building is held in single ownership. If the Township determines it to be impractical to provide separate connections, a single or joint connection may be authorized for more than one property.

6. Permits for Connection: No person shall uncover, connect with, make any opening into or use, alter or disturb, in any manner, any Sewer or the Sewer System without first making application for and securing a permit, from the Township.

Application for a permit shall be made by the Owner of the Improved Property to be served or by his duly-authorized agent.

Required permits for work performed within the rights-of-way of all public roads, including State Highways, must be obtained from the responsible jurisdiction prior to commencement of work in connection with the installation or repair of any building sewer.

7. All costs and expenses of construction of a Building Sewer and all costs and expenses of connection of a Building Sewer to a Sewer shall be borne by the Owner of the Improved Property to be connected; and such Owner shall indemnify and save harmless this Township and the Sewer Engineer from all loss or damage that may be occasioned, directly or indirectly, as a result of construction of a Building Sewer or of connection of a Building Sewer to a Sewer.

8. A Building Sewer shall be connected to a Sewer at the place designated by the Township and where the Lateral is provided.

The invert of a Building Sewer at the point of connection shall be at a higher elevation than the invert of the Sewer. A smooth, neat joint shall be made and the connection of a Building Sewer to the Lateral shall be made secure and watertight. If elevations prevent gravity flow, owner to furnish, install and maintain pumping system satisfactory to the Township at Owner's expense.

9. No Building Sewer shall be covered until it has been inspected and approved by this Township. If any part of a Building Sewer is covered before so being inspected and approved, it shall be uncovered for inspection at the cost and expense of the Owner of the Improved Property to be connected to a Sewer.

10. Every Building Sewer of any Improved Property shall be maintained in a sanitary and safe operating condition by the Owner of such Improved Property.

11. If any person shall fail or refuse, upon receipt of a notice of the Township, in writing, to remedy any unsatisfactory condition with respect to a Building Sewer, within sixty (60) days of receipt of such notice, the Township may refuse to permit such Person to discharge Sanitary Sewage and Industrial or Commercial Wastes into the Sewer System until such unsatisfactory condition shall have been remedied to the satisfaction of the Township or at its option it may make such repairs at the expense of the property owner and file a lien.

12. Registration of Persons Performing Work on Facilities to be Connected to System:

Persons performing work on facilities to be connected to the Sewer System shall be a registered plumber in the Township of Concord.

13. Procedure for Arranging to Make Connection: No person shall make or cause to be made a connection of any Improved Property with a Sewer until such person shall have fulfilled each of the following conditions:

- a. Such person shall have notified the Township of the desire and intention to connect such Improved Property to a Sewer.
- b. Such person shall have made application for and obtained a permit from the Township. The permit shall include a sketch of the house sewer.
- c. Such person shall have given the Township at least 48-hours notice of the time when such connection will be made so that the Township may inspect the work of connection and witness necessary testing.
- d. Such person shall have paid to the Township any connection fee charged and imposed by the Township.
- e. Such person shall have certified to the Township that either he, or the Contractor engaged by him to construct the facilities to be connected to the sewer system, shall:
 - (1) Purchase performance and payment bonds as security for the faithful performance of the work and payment of all obligations incurred for construction of the facilities and to make connection to the sewer system.
 - (2) Purchase insurance as required by workmen's compensation laws and supply certificate to Township.
 - (3) Purchase liability insurance for not less than Three Hundred Thousand Dollars (\$300,000) for personal injury or wrongful death to any one person and in an amount of not less than Five Hundred Thousand Dollars (\$500,000) on account of one occurrence.
 - (4) Purchase property damage liability insurance in an amount not less than One Hundred Thousand Dollars (\$100,000) for damages on account of any one occurrence and in an amount not less than Three Hundred Thousand Dollars (\$300,000) for damages on account of all occurrences.
 - (5) Purchase automobile bodily injury liability insurance in an amount not less than Three Hundred Thousand Dollars (\$300,000) for injuries including wrongful death to any one person, and subject to

the same limit for each person, in an amount not less than Three Hundred Thousand Dollars (\$300,000) on account of one occurrence.

(6) Purchase automobile property damage liability insurance in an amount not less than One Hundred Thousand Dollars (\$100,000) for damage on account of any one occurrence and in an amount not less than Two Hundred Thousand Dollars (\$200,000) for damages on account of all occurrences.

(7) Purchase Builder's Risk Insurance in complete value form for one hundred percent (100%) of the insurable value of the work, including fire and extended coverage, and also covering vandalism and malicious mischief on structures, equipment and materials.

SECTION 4. BUILDING SEWER CONNECTION

1. General

a. When connection is to be made to an existing building sewer, such connection must be made on the building side of the septic tank/cesspool serving the building. No cap, stopper or plug shall be removed or punctured until permission has been granted by the Township Plumbing Inspector.

b. The contractor shall determine the difference in grade between the points of connection. If a minimum grade of 1/4 inch, or a maximum grade of one (1) inch per foot is obtained, permission will be granted to proceed. Permission to use a minimum gradient of 1/8 inch per foot may be granted by the Plumbing Inspector in special circumstances. An appropriate notation shall be made on the permit form if 1/8 inch per foot is used. Under no circumstances is the trench to be dug before it is determined that the minimum fall can be obtained.

c. No portion of any sanitary sewer lateral or building sewer shall be used until air tested and approved in accordance with these rules and regulations. No portion of an existing building sewer that is constructed of bituminous fibre (Orangeburg) pipe shall be used as part of the new building sewer.

2. Pipe Requirements

a. Piping installations from the sanitary sewer lateral to the building drain shall be constructed of any one of the following materials:

- (1) Extra Heavy Cast Iron Soil Pipe conforming to American Standards Assoc. and ASTM Standards, latest revisions, together with neoprene gaskets. The gaskets must be made to conform with the particular brand of pipe being

used and conform to ASTM C564, latest revision. All joints shall be made in accordance with the pipe manufacturer's instructions.

(2) In specific areas of marshy ground, or filled-in ground, wet or bad ground and under all driveways; the use of extra heavy cast iron pipe will be required.

(3) P.V.C. Ring-tite pipe conforming to ASTM D3034, S.Dr 35 Type PSM, together with necessary fittings conforming to ASTM D1784. All pipe and fittings shall utilize rubber gasketed joints.

(4) A cleanout shall be provided at the right-of-way line. Cleanout risers shall be constructed of cast iron pipe.

b. Building sewers passing under any stream or creek shall be constructed of Ductile iron water main pipe ANSI A21. 51 and AWWA C151, Class 51, with mechanical joints.

c. No sewer connection pipe shall be reduced in size between the house and the sewer. All pipe shall be a minimum inside diameter of four (4) inches. Pipe sizes for apartments and commercial buildings must be approved by the Township. Joints shall be permanently tight and shall prevent the admission of ground water.

d. A minimum cover of three (3) feet of earth shall be provided to protect pipe from frost action and surface loading. Concrete encasement shall be provided where cover is less. All changes in grade and alignment (direction) shall be made with pipe fittings. No fittings exceeding forty-five (45) degrees will be permitted.

e. No transformation from one pipe size to another, or from one pipe material to another, will be made without the use of adaptors manufactured and designed for that purpose.

f. In the specific case of P.V.C piping, no transformation from one pipe size to another, or from one pipe material to another will be made without the use of "Fernco- Joint" or equivalent adaptors manufactured and designed for that purpose. Substitute adaptors must be approved by the Township. No cement joints will be permitted.

g. All connections to the Sanitary Sewer System must be made into the lateral stub, "tee" or "wye" left for the purpose, if one exists. Where no lateral stub, "tee" or "wye" has been provided, the sewer shall be tapped with an opening to fit a forty-five (45) degree cast iron or P.V.C "wye" saddle or ninety (90) degrees cast iron or P.V.C. "Tee" saddle. The saddle shall be securely fastened by stainless steel straps provided with suitable bolts to tighten securely. The pipe and saddle

shall be completely encased with six (6) inches of 3,000 pound test concrete. When the opening in the pipe has been cut too large to fit the saddle, the Township Sanitary Sewer Pipe must be replaced by a manufactured pipe section with a "tee" or "wye" branch of the proper size. The construction must be inspected and approved before the remainder of the connection may be laid.

h. Whenever a "Tee" or "Wye" branch has become broken in removing its cap in preparation to make a sewer connection, the protruding branch must be removed and a cast iron "Tee" or "Wye" saddle applied as described above.

i. Whenever an existing Township lateral or stub is broken, the broken end must be cut square and fitted with a duplex coupling, or that section of pipe must be replaced.

j. Each connection must be made to the sewer within the property lines of the lot or property. Building sewers will be laid a minimum of five (5) feet from side property lines.

k. The mouth, or opening, of the completed building sewer shall be kept properly closed and water tight at all times during construction.

l. Building sewer lines shall be vented, trapped and a cleanout provided as follows:

(1) Cleanouts

(a) Where the main sewer is in the road a cleanout shall be provided at the right-of-way line.

(b) Where the main sewer is in an easement the cleanout shall be located one (1) foot from the permanent easement limit.

(c) Cleanouts shall be provided in each sanitary sewer lateral at seventy five (75) foot intervals. Such intervals shall include lengths of lateral installed by the Authority. Cleanouts shall be installed immediately downstream of any change in grade or alignment. Cleanouts shall be constructed using a sanitary tee fitting in the run of the pipe and cast iron riser to ground surface. The riser pipe shall be provided with a screw type plug and shall be water tight.

(d) A minimum of one cleanout is required per building sewer line.

(2) Fresh-Air Vents - A vent shall be placed as close to the building as possible,

in the case of existing construction and in the case of new construction when, in the opinion of the Township adequate venting has not been provided for. Vent risers shall extend a minimum of twelve (12) inches above the ground surface and shall be capped with a mushroom vent or double bend. Fresh air vents shall be at least four (4) inches in diameter, and must be constructed of cast iron.

(3) Every cleanout and vent shall be properly supported by 2 RC, 2B crushed stone or concrete in the bottom of the trench.

m. New connections to the sewer shall not be placed through a cesspool, but must be placed on solid ground on the building side of cesspool excavation area, with the exception that, under special circumstances cast iron water pipe (AWWA C151 and ANSI A 21.51 Class 51, with mechanical joints) may be used to span a cesspool when properly supported and anchored against shearing forces from surface loading or other settlement.

n. The contractor shall have sufficient pumping equipment ready for use at all times on the site. All ground water which may be found in the trenches, and any other water which may get into them from any cause whatsoever, shall be pumped or bailed out so that the trench shall be dry during pipe laying and backfilling. Water shall be kept away from any mortar or concrete work until it has thoroughly set. When water is encountered, no less than six (6) inches of No. 2B coarse aggregate shall be used for the foundation for the pipe. No storm or surface water shall be allowed to enter the sanitary sewer system. If, for any reason, construction is delayed or stopped, the pipe connected to the sewer main must be capped with a water-proof stopper.

o. The contractor shall fill all existing septic tanks or cesspools with crushed stone or clean earth. Tanks shall be pumped after connection to the sewer and before backfilling.

3. Pipe Bedding

In all trenches (both earth and rock trenches) "First Class Bedding" shall be provided as a foundation for all pipe, unless concrete cradle or concrete encasement or other type of bedding is required by the Engineer.

a. When extra heavy cast iron pipe is being installed, First Class Bedding shall consist of shaping the bottom of the earth trench to fit the pipe and bells in order to support the pipe over its entire length. A minimum of four (4) inches of No. 2B crushed stone bedding will be provided when rock is encountered or when required by the Engineer or his representative.

b. When P.V.C. SDR #35 is being installed, First Class Bedding shall provide a

minimum of four (4) inches of crushed stone under the pipe, with backfill using the stone up to, or beyond, the midpoint of the pipe. Bedding material shall consist of crushed stone conforming to Pennsylvania Department of Transportation Form 408, grading and quality requirements for No. 1B coarse aggregate. Concrete encasement, or cradle, shall be required where trench and surface loading can be anticipated.

c. Regardless of the type of pipe used, unsuitable material encountered in excavation, such as ashes, muck and unstable soil, shall be removed from the site and shall not be placed in the backfill. When the bottom of the trench has been dug too deep, it shall be refilled to grade with 2-RC aggregate backfill, or No. 2B aggregate backfill, thoroughly compacted.

4. Air Test

a. The Plumbing Inspector or his representative shall witness an air test of the building sewer from the lateral to the point of connection at the building. Both ends of the building sewer shall remain uncovered until the air testing has been completed and the installation approved. Such approval shall be noted in writing on the permit and no other evidence of such approval shall be accepted. Persons utilizing air test equipment must be familiar with its use and be familiar with the criteria for judging acceptance based on various ground water conditions encountered. The air test shall be conducted by the building sewer contractor under the direction of the Plumbing Inspector, and made at the expense of the property owner.

b. All backfill material shall be free from cinders, ashes, refuse, vegetable or organic material or other material which, in the opinion of the Plumbing Inspector is unsuitable. However, from a point one (1) foot above the top of the pipe to the finished grade (or subgrade of pavement, driveways, walks, etc.) material containing stones up to eight (8) inches in greatest dimension may be used. The trench shall be thoroughly compacted without displacement of the grade or alignment of the building sewer. Backfill material shall be free of ice and no partially open trench shall be permitted to be left open during the night when temperatures below 28 degrees are predicted.

5. Use of Connection

a. Use of the new connection to the sanitary sewer system will not be permitted until installation has been inspected, tested and approved in accordance with procedures herein set forth.

b. No use of the sanitary sewer system will be permitted until collection system, pumping facilities and treatment plant have been made ready to accept sewage for

disposal.

c. Maintenance, repair or replacement of the building sewer, between the curb cleanout and the building, shall be the responsibility of the person, firm or corporation owning the property.

6. Clean-Up

a. Removal of debris, which may have been stored within the public rights-of-way, including road, cartway or sidewalk, shall be removed within 24 hours of completion of the building sewer work. Any concrete sidewalk or curb removed for the purpose of making a sewer connection must be temporarily restored within 48 hours, and permanent replacement must be completed within 30 days from the time installation has been approved.