

INSTALLATION OF BUILDING SEWERS

Instructions to Plumbers

- (A) You must have a license issued by Lower Providence Township.
- (B) You must notify the Lower Providence Township Sewer Authority one (1) week before excavation begins - (610) 539-6161.
- (C) You must have a copy of the homeowners connection permit available at all times for verification by the Sewer Authority Field Inspector.
- (D) Contractor's signs are allowed on the property one (1) day prior to start and must be removed immediately upon connection and job completion.

Materials

Building sewers will consist of four inch (4") pipe with a clean-out every seventy five feet (75'), a curb-trap with a clean-out in front of the trap, a test tee (if one is not already provided), and a transition fitting from four inches (4") to six inches (6") at the point of connection.

Building sewers may be constructed of any one (1) of the following materials:

- (A) Cast-iron soil service, standard weight, installed with push-on type gasket joints.
- (B) PVC plastic sewer pipe. All plastic pipe and fittings shall be designated SDR 35, installed with push-on type rubber gasket joints. All clean-outs stand pipes and traps must be cast-iron.
- (C) Pipe must be bedded in a minimum of six inches (6") of half inch ($\frac{1}{2}$ ") clean #8 stone.

Slope & Cover

- (A) A slope of quarter inch ($\frac{1}{4}$ ") per foot with a minimum of thirty inch (30") of cover is required.

Backfilling

- (A) Cast-iron pipe requires select backfill, three (3) parts dirt to one (1) part rock, no rock over six inches (6") in diameter.
- (B) Plastic pipe shall be backfilled to a minimum depth of twelve inches (12") of half inch ($\frac{1}{2}$ ") clean #8 stone above the top of the pipe. From this point, select backfill may be used.
- (C) When sewer pipe is laid under driveways or parking areas, it must be backfilled with 2 A modified and tamped every twelve inches (12") to the top of the trench.

Installation of Building Sewers Continued

Adapters

- (A) All transitions from one type of pipe to another or one size to another, will require the proper transition fitting as approved by the Sewer Authority Field Inspector.
- (B) Fernco Fittings Will Not be allowed, except in extreme circumstances and under the approval of the Sewer Authority Field Inspector.

Removal of On-Site Disposal Systems

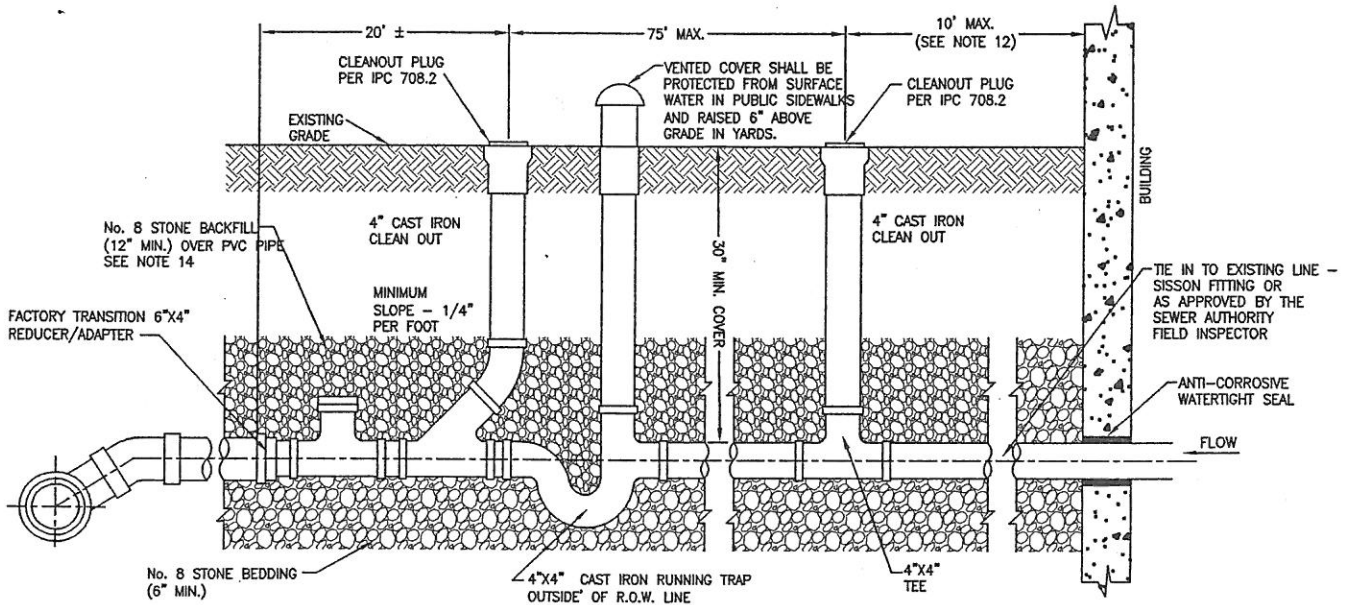
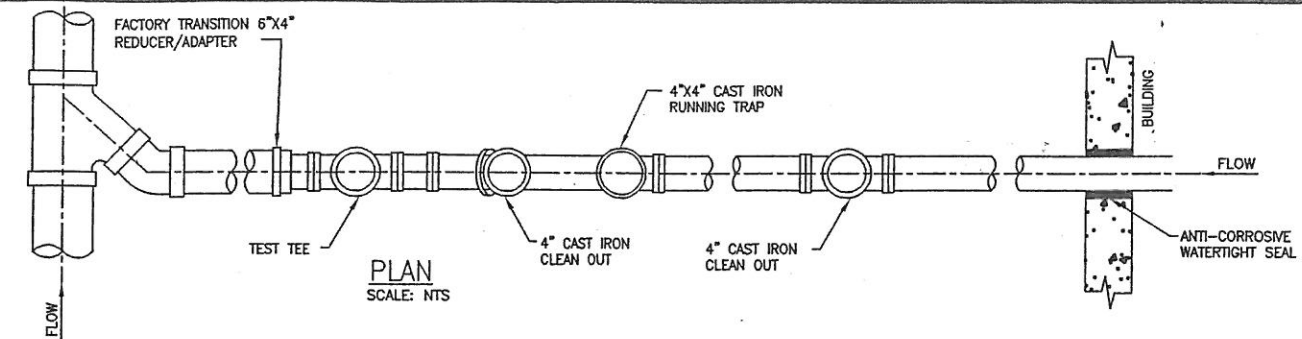
In regards to the abandonment of an on-site septic system, Lower Providence Township Sewer Authority has chosen to follow the recommendations of the Department of Environmental Resources and the Montgomery County Department of Health. They are as follows.

Inground or Septic Systems

The tank must be pumped by a hauler. The tank must be filled with good clean fill. The top could be placed on the tank after filling, or top could be left off and fill brought to existing grade. The drainage field could remain as is.

Aboveground Sand Mound Systems

- 1. Leave alone
- 2. If removing:
 - a. Hauler pumps out tank
 - b. Homeowner can fill with chlorine and pump to beds to decontaminate stone.
 - c. Once decontaminated, it can be regraded into the property, or removed and disposed of.



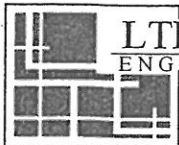
BUILDING SEWER PIPE	
MATERIAL	STANDARD
Cast Iron Pipe	ASTM A 74; ASTM A 888; CISPI 301
Polyvinyl chloride (PVC) Plastic pipe (Type DWV, SDR35)	ASTM D 3034; ASTM

ELEVATION
SCALE: NTS

ALL PIPE AND FITTINGS TO HAVE PUSH-ON TYPE GASKET JOINTS.

NOTES:

- ALL CONSTRUCTION SHALL COMPLY WITH THE PENNSYLVANIA UNIFORM CONSTRUCTION CODE (UCC) AND THIS DRAWING, AS A MINIMUM.
- BUILDING SEWER PIPE SHALL BE OF A MATERIAL LISTED IN THE ABBREVIATED TABLE ABOVE. ALL CLEAN-OUTS, STAND PIPES AND TRAPS MUST BE CAST-IRON.
- CLEANOUTS SHALL BE INSTALLED NOT MORE THAN 75' APART IN HORIZONTAL DRAINAGE LINES OF 8" DIA. OR LESS, NOT MORE THAN 200' APART FOR LARGER DIA. PIPES, AT CHANGES OF DIRECTION GREATER THAN 45° AND AT A MAXIMUM OF 10' FROM THE BUILDING LINE. (INSIDE OR OUTSIDE)
- ON LOT SEWAGE DISPOSAL SYSTEMS SHALL BE ABANDONED. THE COVER SHALL BE REMOVED, THE TANK SHALL BE PUMPED AND FILLED IN W/ DIRT. THE NEW CONNECTION SHALL BE MADE AT THE BUILDING FOUNDATION.
- TESTING AND INSPECTIONS ARE REQUIRED AS PER IPC AND SHALL INCLUDE EITHER AN AIR TEST OF THE LATERAL AND CLEANOUTS AT 5 PSIG AIR PRESSURE FOR 15 MINUTES OR AT A MINIMUM OF 10 FT OF WATER HEAD FOR 15 MINUTES.
- CLEANOUTS AND VENTS, IF PLACED WITHIN PAVED AREAS, SHALL BE PROTECTED FROM VEHICULAR DAMAGE BY LOCATING IN CAST IRON OR DUCTILE IRON FRAME AND SHALL HAVE A CONCRETE PAD CONSTRUCTED AROUND IT TO DIVERT STORMWATER AND PROVIDE STRUCTURAL PROTECTION. COVER SHALL BE MARKED "SEWER".
- IT IS THE PROPERTY OWNER'S RESPONSIBILITY TO MAINTAIN ACCESS TO VIEWPOINTS AND TEST/RETEST TEES. ALL COSTS RELATED TO GAINING ACCESS SHALL BE THE RESPONSIBILITY OF THE PROPERTY OWNER.
- PROPERTY OWNER SHALL BE RESPONSIBLE FOR SEALING THE LATERAL PENETRATION THROUGH THE BUILDING. THE TOWNSHIP SHALL NOT BE RESPONSIBLE FOR ANY GROUND WATER ENTERING INTO THE BUILDING.
- CONNECTIONS SHALL BE MADE WITH COMPONENTS DESIGNED FOR THIS APPLICATION. TRANSITION FITTINGS SHALL BE APPROVED BY THE SEWER AUTHORITY FIELD INSPECTOR.
- NEW BUILDING PENETRATIONS SHALL REQUIRE PIPE SLEEVES/ ANTI-CORROSIVE SHEATHING.
- ALL GREY WATER DISCHARGES ARE REQUIRED TO CONNECT TO THE BUILDING SEWER.
- THIS CLEANOUT REQUIREMENT MAY BE MET WITH A CLEANOUT INSIDE THE BUILDING.
- SUMP PUMPS MAY NOT BE CONNECTED. INSPECTIONS MAY OCCUR AT ANY TIME IN THE FUTURE TO CONFIRM THAT THEY ARE NOT CONNECTED.
- SELECT BACKFILL SHALL BE USED OVER CAST-IRON PIPE AND ABOVE STONE BACKFILL ON PVC PIPE. SELECT BACKFILL SHALL CONSIST OF THREE (3) PARTS DIRT TO ONE (1) PART ROCK, NO ROCK OVER SIX (6") IN SIZE.
- SEWER PIPE UNDER DRIVEWAYS OR PARKING AREAS SHALL BE BACKFILLED WITH 2A STONE. STONE SHALL BE PLACED IN 12" LIFTS AND COMPACTED.



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SHEET TITLE: TYPICAL BUILDING SEWER CONNECTION		REV. DATE: 02/29/12
PROJECT: LOWER PROVIDENCE TOWNSHIP STANDARD DETAILS		PROJECT NO.: 0519-0121
PROJECT LOCATION: LOWER PROVIDENCE TOWNSHIP, MONTGOMERY CO.		SHEET NO.: 01
DRAWN BY: JKW	APPROVED BY: JNV	SCALE: NTS