

**TECHNICAL SPECIFICATIONS
FOR THE CONSTRUCTION OF GRAVITY SERVICE LINES
TO BE CONNECTED TO THE PUBLIC SEWER SYSTEM
(BYERS ROAD EXTENSION)**

**UPPER UWCHLAN TOWNSHIP MUNICIPAL AUTHORITY
PHASE II COLLECTION SYSTEM IMPROVEMENTS**



May 2021

ARRO Project No. 10270.48

**Based upon field conditions there may be exceptions to the specifications.
The requirements can be modified on a case by case basis with the approval of
Upper Uwchlan Township Municipal Authority and its representatives.**

**Upper Uwchlan Township Municipal Authority
140 Pottstown Pike
Chester Springs, Pennsylvania 19425**

PART 1: GRAVITY SERVICE LINES

(To be provided to private contractor/plumber doing your house service line installation.)

I. Materials

- A. Polyvinyl Chloride Pipe (PVC): As specified for Sewer Pipe and Fittings; 4-inch minimum diameter. SDR-35 gasket joint pipe is required between the sewer main and the right-of-way. SDR-35 gasket joint or Schedule 40 solvent joint pipe can be used between the right-of-way and the building, including trap assembly. Colored primer must be used for all solvent joint applications.

II. Installation

- A. An application for a plumbing permit must be submitted to the Township at least 15 days prior to the start of construction.
- B. The Service Line shall be installed with a minimum grade of 1/4"/foot. A straight alignment shall be maintained where possible. A minimum cover of four feet (4') shall be maintained to prevent crushing and freezing of the pipe unless the Authority approves a lesser minimum cover.
- C. No trench shall be backfilled until the Service Line has been visually inspected and approved by the Engineer and/or Authority Code Enforcement Officer. Refer to Standard Detail No. 17 for pipe bedding. Final backfill to grade shall be excavated soils, placed in lifts and compacted.
- D. Trap and Cleanout(s):
 1. An intercepting trap shall be placed between the Service Connection (the point of connection with the lateral sewer) and the Building. The trap shall be a PVC trap with vent pipe. The vent pipe shall be on the Building side of the trap. Unless otherwise authorized by the Authority, the vent pipe shall have a cowl-type vent and be a minimum of 6 inches (6") above the ground to prevent surface water from entering the sewer.
 2. No horizontal 90-degree bends shall be permitted in the trap assembly. When directional changes are necessary, two (2) 45-degree bends with minimum one foot between shall be used.
 3. Cleanouts shall be installed as shown on Standard Detail No. 17.
- E. The Authority reserves the right to test each Service Line prior to approval by the Authority Code Enforcement Officer. The test shall be witnessed by an agent of the Authority and the Service Line shall not be deemed acceptable until said Service Line has satisfactorily passed the test hereinafter described. All costs of testing and any subsequent test(s), including equipment, material, water or labor required shall be the responsibility of the Owner.
 1. The Service Line shall be tested by plugging the line at the Service Connection and by plugging the line at its point of connection with the Building. All risers,

vents, plugs and cleanouts shall be adequately blocked, plugged or supported to withstand the pressure associated with the test. The test shall be made by either air or water. In either case, the test shall be designed to provide a residual pressure of 5.0 psi throughout the length of the Service Line.

2. The test shall be made by attaching a water pump or air compressor testing apparatus to any suitable opening and after closing and supporting all other inlets and outlets to the Service Line, forcing air or water into the Service Line until there is a uniform gauge pressure of 5.0 psi. The Service Line shall be deemed acceptable if this pressure is maintained for 15 minutes without the introduction of additional water or air.
3. Care shall be taken that the pressures generated by the test do not exceed the pipe manufacturer's recommendations.

III. Special Conditions and Requirements

- A. Unless otherwise authorized by the Engineer or Authority Code Enforcement Officer, cleanouts shall be provided in each Service Line at one hundred (100) foot intervals.
- B. Cleanouts shall be constructed using Wye or Tee-Wye fittings in the run of the pipe with a 45-degree bend (1/8 bend) and riser to the ground surface. The riser shall be provided with a standard four-inch (4") screw-type ferrule.
- C. Basement floor drains and/or sump pumps shall not be connected in any manner to the Sewer System. The Authority will not be responsible for any damage that may result from basements being flooded via floor drains due to the stoppage of sewers.

PART 2: ABANDONMENT OF SEPTIC SYSTEM

(To be provided to private contractor/plumber doing your house service line installation.)

I. Requirements for Abandonment of Septic System

- A. Upon completion of the house gravity Service Line installation, the following steps shall be taken to abandon the septic system:
 1. The abandoned septic tank shall be pumped out and cleaned by an approved Chester County Health Department hauler.
 2. The base of the septic tank shall be punctured with a minimum of three (3) 6-inch diameter holes to allow groundwater infiltration to pass through.
 3. The septic tank shall be filled with compacted AASHTO No. 8 Coarse Aggregate, PennDOT Type-A Cement Concrete Sand, or clean fill soil.
 4. Any related piping shall be removed and/or capped.
 5. The attached *Certification of Gravity Service Lines and Abandonment of Septic System* shall be completed and submitted to Upper Uwchlan Township regarding the work completed.

Upper Uwchlan Township
Building Department
140 Pottstown Pike
Chester Springs, PA 19425

RE: Certification of Gravity Service Lines and Abandonment of Septic System

To whom it may concern;

The below signature(s) hereby certify that to the best of my knowledge the following have been completed in accordance with the Technical Specifications for the Construction of Gravity Service Lines to be Connected to the Public Sewer System.

- The below referenced Chester County Health Department approved hauler pumped and cleaned my on-site septic tank; and,
- The below referenced plumber connected my property to the Upper Uwchlan Township public sewer system and removed and/or capped the septic tank piping prior to backfilling the tank.

(Property Owner Signature)

(Date)

(Property Owner Signature)

(Date)

Property Owner(s) Name(s): (Print)

Property Address:

(Address)

(City)

(State)

(Zip Code)

Telephone Number:

Name of Approved Hauler: (Print)

Hauler's Address:

(Address)

(City)

(State)

(Zip Code)

Hauler's Telephone Number:

Name of Plumber: (Print)

Plumber's Address:

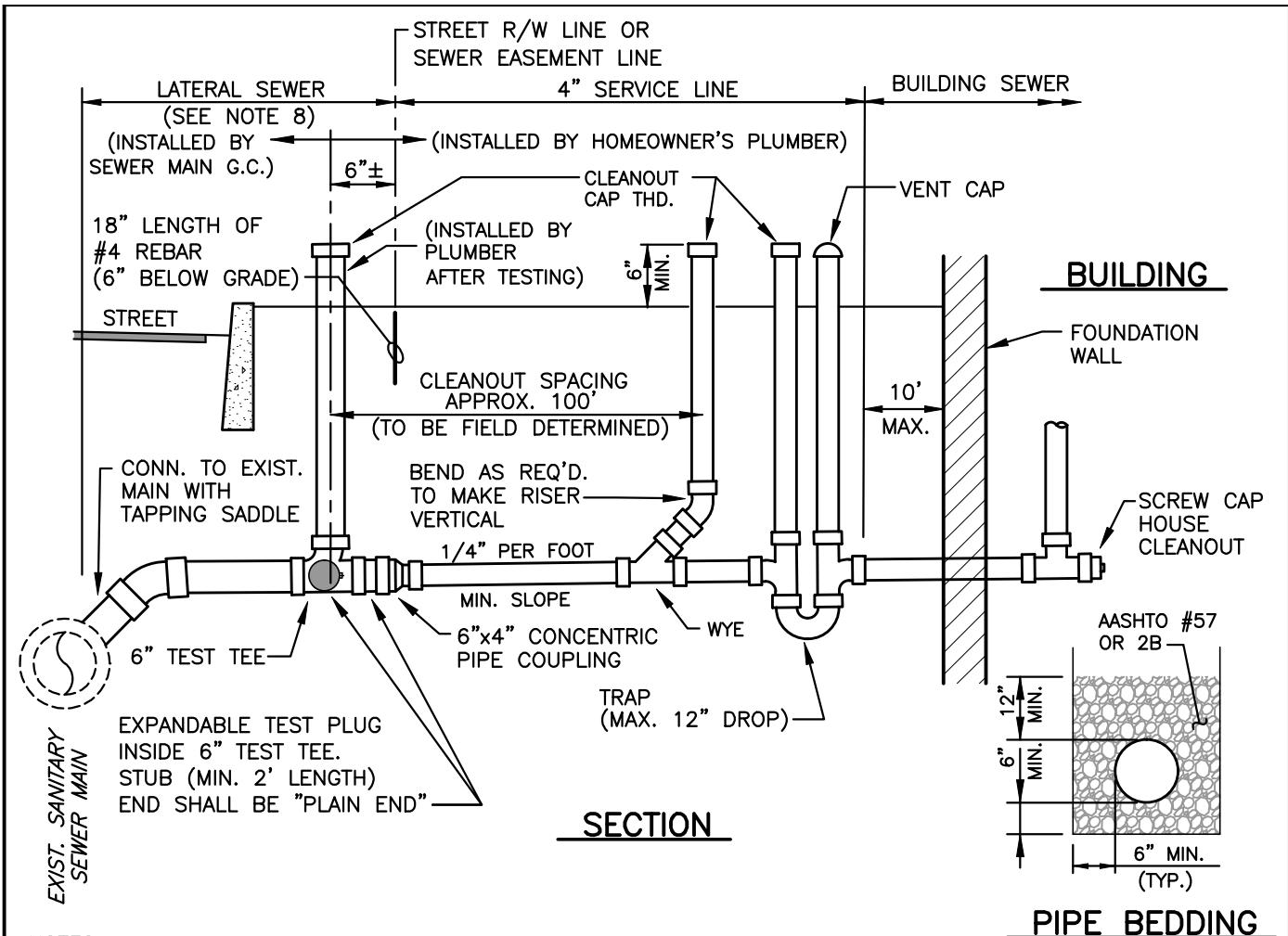
(Address)

(City)

(State)

(Zip Code)

Plumber's Telephone Number:



NOTES:

1. PROVIDE 6" OF AASHTO NO. 57 STONE BELOW PIPE AND 12" ABOVE PIPE (TYPICAL ENTIRE LENGTH OF LATERAL AND SERVICE LINE)
2. MINIMUM SLOPE = 1/4" PER FT.
3. MINIMUM DEPTH OF COVER = 4 FT
4. PIPE MATERIALS:
LATERAL SEWER - PVC SDR 35
SERVICE LINE - PVC SDR 35 OR SCH. 40
5. TO CONDUCT AIR TESTING OF SERVICE LINE, INSTALL EXPANDABLE PLUGS AT LOCATIONS SHOWN.
6. NO SEWER SERVICE LINE VENT CAPS SHALL BE INSTALLED WITHIN A 100-YR FLOOD PLAIN OR WITHIN FLOOD PRONE AREAS.
7. NO VENT CAPS OR CLEANOUTS SHALL BE INSTALLED IN DRIVEWAYS OR OTHER PAVED AREAS, UNLESS SPECIFICALLY APPROVED BY UUTMA. VENTS AND CLEANOUTS LOCATED IN PAVED AREAS MUST BE PROVIDED WITH A FRAME AND COVER IN ACCORDANCE WITH VENT & CLEANOUTS IN PAVED AREAS DETAIL.
8. THE LATERAL SEWER SHALL BE INSTALLED TO THE EDGE OF THE SEWER EASEMENT FOR SEWERS LOCATED IN AN EASEMENT OR TO THE STREET RIGHT-OF-WAY AS A MINIMUM, OR TO SUCH POINT, AS REQUIRED, TO CLEAR STREET SIDEWALKS AND UNDERGROUND UTILITIES.
9. CLEANOUTS AND VENTS IN LAWN AREAS MUST BE 6" MINIMUM ABOVE GRADE.

5	9/15	Upper Uwchlan Township Municipal Authority STANDARD DETAIL - SEWER SYSTEM LATERAL & SERVICE LINE	ARRC <small>Suite 100, 649 North Lewis Road Limerick, PA 19468-1234 Tel 610.495.0303 Fax 610.495.5855</small>
4	10/14		
3	1/13		
2	6/05		
1	11/04		
REVISION	DATE		

DATE: JULY 2002
 DETAIL: 7000SD17