

107214

BOROUGH OF DUBLIN
BUCKS COUNTY
PENNSYLVANIA

INSTRUCTIONS FOR BUILDING CONNECTIONS
TO THE
SANITARY SEWER SYSTEM

May, 1990

PREPARED BY:

COWAN ASSOCIATES, INC.
120 Penn-Am Drive
P.O. Box 949
Quakertown, PA 18951

Telephone (215)536-7075

AR301370

INTRODUCTION

The following instructions are to serve as a guide for plumbers and drain layers installing building connections discharging to Borough of Dublin sanitary sewers. Detailed rules and regulations regarding connection and discharge are found in the BOCA Basic Plumbing Code which has been officially adopted by the Borough, and this document serves as a short guide only. Refer to attached drawing showing a typical connection.

INSTRUCTIONS

1. All building connections must be installed under direct supervision of a Registered Master Plumber. Plumbers, after making an appointment with the Borough at 119 Maple Avenue, Dublin, PA 18917, will pick up a sewer connection permit. At that time, the plumbing permit fee is paid and the work scheduled. Permits will be issued only after connection fees are paid by the property owner. Permits must be secured prior to commencing with work.
2. The Plumber must notify the Borough Inspector at least 48 hours prior to beginning construction. Under no conditions are operations to commence without this notification, and an Inspector present at the construction site.
3. Road opening permits, if applicable, must be secured separately from the State or Borough. Notification that a road occupancy permit is required must be made to the Borough at least 90 days prior to commencement of work.
4. All sewer connections must be installed according to rules and regulations set forth by Dublin Borough and in accordance with BOCA Code as adopted by Dublin Borough.
5. All pipe shall be pressure tested in the presence of a Borough Observer. Pressure test is to be performed by Plumber installing pipe utilizing proper fittings and equipment. All pressure tests shall be from the connection point at the public sewer (lateral) to final connection point at (or inside) building. The Plumber is responsible for furnishing all plugs and equipment required to properly perform pressure test.

A tee for testing must be installed immediately after point of connection to the lateral. The building service line must then be tested with either 10 (minimum) feet head of water or 4 (minimum) PSI air pressure in the presence of the Observer. Any other methods must be approved prior to commencing with the work by the Borough Engineer. (Arrangements should be made when applying for permit.)

AR301371

In the instances of repairs, replacements or partial installations, ALL existing sewer pipe must (a) be uncovered and visually inspected for leaks when tested with water; or (b) left buried and pressure tested with air. Pressure of air or water is as outlined above, except that if a high groundwater table is present and the buried building sewer is being tested with air, test pressure shall be increased by 0.433 psi for every foot of groundwater over pipe. Pressure testing shall be conducted for all pipe from the lateral to point of connection at (or inside) the building.

6. Pipe utilized for building connections must be composed of the same material as the lateral pipe to which it connects, if the building sewer is the same diameter as the lateral sewer. Pipe may consist of:
 - a. Cast Iron Soil Pipe - Extra Heavy (CISP-XH), 10 foot or 5 foot length, 4 inch minimum size.
 - b. PVC Plastic, maximum 12 foot length, for 6" diameter PVC SDR 26 (minimum) or 4" diameter PVC Schedule 40 (minimum) shall be installed..

In no case shall building sewer pipe be of a larger diameter than the lateral pipe.

7. Regardless of its material, all pipes shall be laid on a six inch (6") bed of AASHTO No. 57 stone. Care must be exercised to provide solid, continuous bearing along the barrel of the pipe and through the joints. Pipes may not be blocked to grade, nor laid directly on rock. Any over-excavated areas must be brought to grade with AASHTO No. 57 stone tamped in 6 inch lifts.

Pipe shall be backfilled initially with select granular material (formerly named PennDOT 2RC stone) to a minimum height of 6 inches above the top of the pipe. Backfilling shall then continue in accordance with pipe manufacturer's recommendations with select run of trench material.

8. The lateral pipe installed from the main line may or may not have a "bell" end; if a bell exists, plumber shall cut the pipe squarely to form a plain end and an approved Fernco coupling is to be utilized to connect the lateral of the building sewer. Reducers (6" to 4") shall utilize both Fernco "boot" (Model 1056 Series) and a Fernco "donut" (Model BR-64) if building is 4 inch diameter and lateral pipe is 6 inch diameter; if building sewer and lateral sewer are the same size, then only the Fernco boot is required. Concrete mix shall be poured under entire connection point where reducer/coupling connects existing lateral to building connection pipe.

Immediately following the connection point at the sewer lateral is a trapped vent with cleanout on the downstream side or test tee to facilitate testing. The sewer is then laid back to the building, with cleanouts (tees and risers) every 100 feet (or midway if run is between 100 and 200 feet), one at the building (inside or outside), and one at all 90° bends.

AR301372

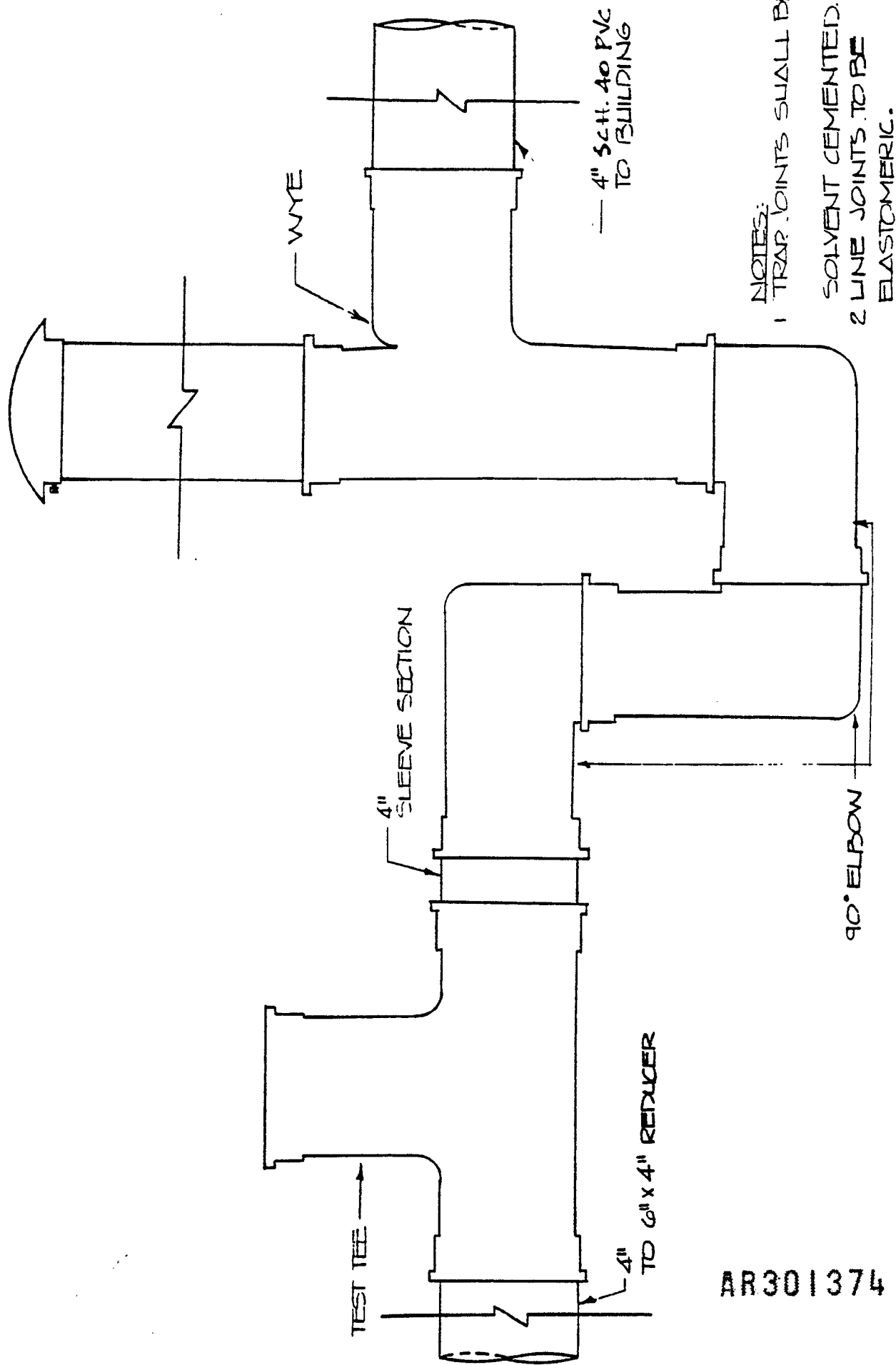
Installation of more than two bends (irregardless of their degree of curvature, i.e. 90°, 45°, 22-1/2°, etc.) is prohibited, unless prior written approval is obtained from the Borough Engineer (requests shall be made when applying for permit).

9. All pipe shall be installed on a uniform grade of no less than 1/4 inch per foot for 4 inch pipe, and no less than 1/8 inch for 6 inch pipe, unless permission is obtained from Borough Engineer. (Request shall be made when applying for permit.)
10. Cast iron soil pipe may either be installed with proper lead joints or with rubber-type joints with the use of sealer-type lubricant only.
11. All PVC fittings used in the connection are available except for the trapped vent. This component must be assembled from other fittings (tees and bends) and solvent-cemented at joints for more stability.
12. All restaurants or bars with commercial kitchens and all food processing establishments shall have a proper grease trap installed to serve all kitchen drainage lines or other lines which convey food wastes. Grease trap size shall be approved by Borough Engineer. Property Owner shall supply data by Engineer to approve size.
13. In no case shall a sump pump or any other device discharging groundwater, surface water, or roof drains be connected to the sanitary sewer system.
14. Borough Plumbing Inspector shall be given access to all buildings for inspection of plumbing prior to completion of the sewer connection.
15. Permit to connect must be posted prominently near work area.
16. Building connection pipe must be installed to maintain a minimum horizontal clearance of 10 feet from all wells and pipes distributing well water.
17. No work may be covered prior to inspection and pressure testing.

NOTICE: This is only a general guide for installing laterals. For any other questions, please refer to the Plumbing Inspector, Borough Engineer, and adopted BOCA Plumbing Code.

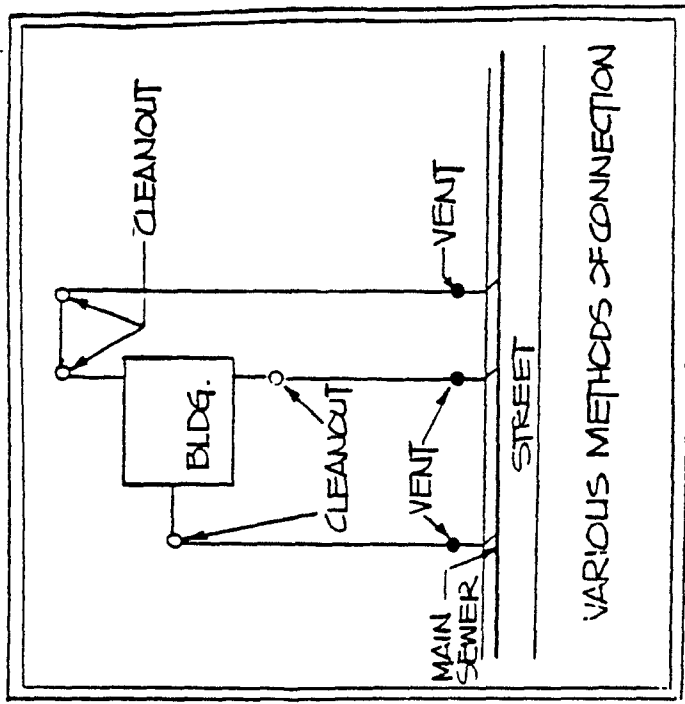
AR301373

4" VENTED TRAP AND TEST TEE
MADE FROM
SCH. 40 PVC FITTINGS

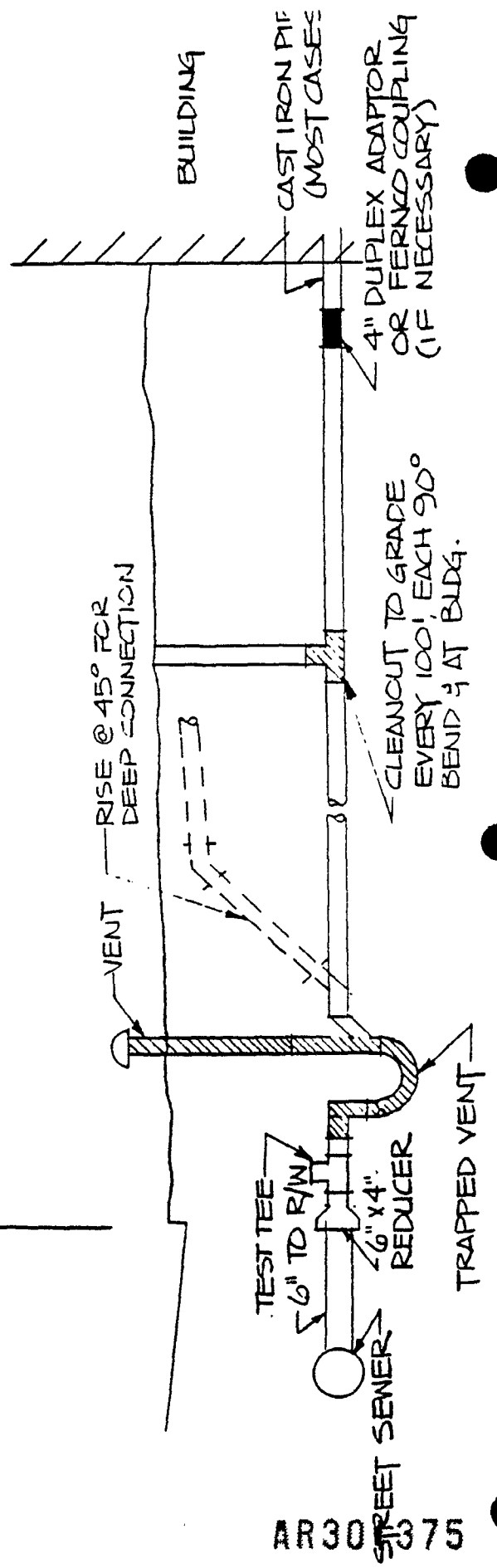


AR301374

BUILDING CONNECTION



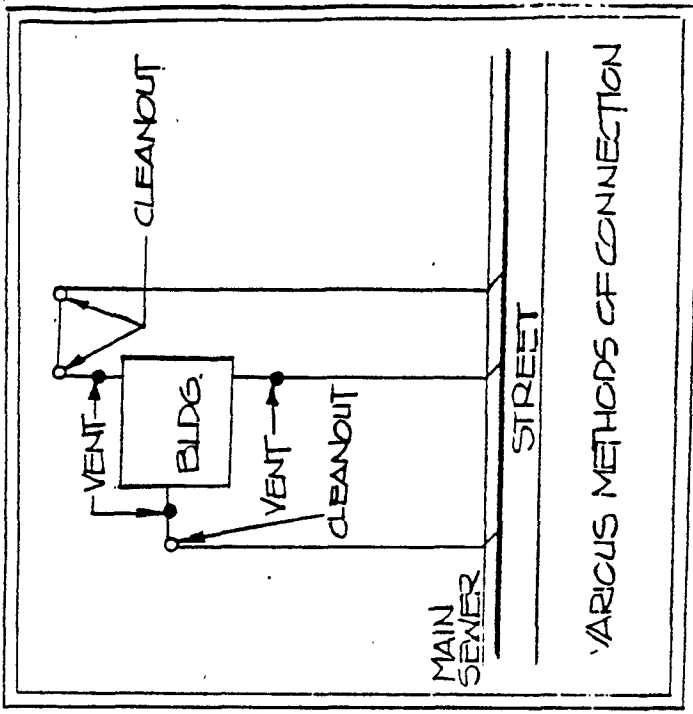
STREET RIGHT OF WAY



AR 30 375

BUILDING CONNECTION

12/12/84



STREET RIGHTOFWAY

RISE @ 45° FOR DEEP CONNECTION

AR30137

TEST TEE
6" TO R/W

6" x 4" REDUCER

STREET SEWER

