

E. Utilities Department Right of Way Permit Conditions

Updated August 2015

1. 811 CALL BEFORE YOU DIG. Prevent damage. Locate first.
2. Avoid crossing water, sewer, and storm drainpipes at highly acute angles. The smallest angle measure between utilities should be 45 to 90 degrees.
3. Where a water main crosses above or below sanitary sewer or storm drain, one full length of water pipe shall be centered for maximum joint separation.
4. When AC water pipe will be exposed for a utility crossing, the AC pipe may be: (1) replaced with DI pipe to three feet on each side into undisturbed bearing soil (see Standard Detail W-8); or (2) backfilled to the **bottom** of the AC pipe with Control Density Fill, at the discretion of the Utilities Department. If you do not have a Utilities permit (UA, UB or UE), please call Water Utility Maintenance 48 hours in advance for an appointment (425-452-7840) to discuss the crossing options. Controlled Density Fill shall conform to the requirements set forth in the *WSDOT/APWA Standard Specifications for Road, Bridge and Municipal Construction 2010, section 2-09.3(1)E, "Backfilling."* The trench shall be bridged with steel plates and the CDF shall be allowed to set overnight prior to backfilling and /or paving.
5. Where existing thrust blocking is located, minimum clearance between the concrete blocking and other buried utilities or structures shall be five (5) feet.
6. Special structural support and restraints for water, sewer or storm drain pipes may be required as determined by the Utilities Department, on a case by case basis.
7. If a water main shutdown is needed, please call Water Utility Maintenance at 425-452-7840 at least three (3) working days in advance. The Permittee shall notify all affected water customers at least 48 hours in advance if the shutdown is approved. Water utility staff shall shutdown and restore the water main to service. The Permittee shall be responsible for all costs associated with executing a water main shutdown, including city staff time.
8. Clearances are measured from edge of facility (pipe, catch basin, vault, etc.) to edge of facility (duct bank, conduit, pipeline, etc.). When installing utilities in the right-of-way, the following minimum clearances shall be maintained:

	Horizontal Clearances from Water Mains	Horizontal Clearances from Storm Drains	Horizontal Clearances from Sanitary Sewers
Cable TV	5 ft	5 ft	5 ft
Gas	5 ft	5 ft	5 ft
Power	5 ft	5 ft	10 ft
Water		5 ft	10 ft
Storm	5 ft		5 ft
Sanitary	10 ft	5 ft	
Telephone / Fiber Optics	5 ft	5 ft	10 ft
High Pressure Gas or Petroleum	Contact Utilities Department @ 425-452-6977		
All other utilities	5 ft	5 ft	5 ft

E. Utilities Department Right of Way Permit Conditions (cont'd)

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	Vertical Clearances from Water Mains	Horizontal Clearances from Storm Drains	Horizontal Clearances from Sanitary Sewers
Cable TV	1 ft	1 ft	1 ft
Gas	1 ft	1 ft	1 ft
Power	1 ft	1 ft	1 ft
Water		2 ft	2 ft
Storm	1 ft		1 ft
Sanitary	2 ft	1 ft	
Telephone / Fiber Optics	1 ft	1 ft	1 ft
High Pressure Gas or Petroleum	Contact Utilities Department @ 425-452-6977		
All other utilities	1 ft	1 ft	1 ft

Any proposed variation must be reviewed and approved by the Utilities Department under the Right of Way Use Permit review process. The following factors will be considered in providing adequate utility separation:

- a. Materials and type of joints for pipes
- b. Soil conditions
- c. Locations of laterals and service lines
- d. Compensating variations in the horizontal and vertical separations
- e. Space for repairs and replacement
- f. Offsetting of pipes around manholes, catch basins, and vaults
- g. Conflict with existing or discovered utilities

Owners who install utilities in violation of these standards may be required to relocate at the owner's sole expense or reimburse all expenses incurred by the City for special engineering and/or construction measures to avoid the conflicting utility, including construction delay costs.