

**CLEANWATER SERVICES
SANITARY/STORM TAP PROCEDURES**

Installation and Inspection Requirements

1. **The owner/contractor shall obtain a road cut permit from Washington County, if applicable. Backfill, Compaction, and asphalt requirements shall be outlined under the Washington County Road cut permit. (Washington County Contact Number 846-7623)**
2. **The contractor shall notify the Construction Inspection Service a minimum of 24 hours prior to the coring of the sanitary/storm tap.(Inspection request line 503-681-4444)**
3. All sanitary/storm taps shall be physically inspected by Clean Water Services inspection staff. Sanitary/storm taps that have not been inspected shall be exposed and remain exposed until inspected.
4. All sanitary/storm taps shall be core drilled using either a cylinder style hole saw (for plastic pipe material) or a diamond core bit (for concrete or ductile iron.)
5. When installing Inserta Tee's or fabricated Indexed Tee Saddles the Main line shall be a minimum two pipe sizes larger than the tap being installed. When this is not possible a manufactured Tee shall be cut in using approved repair couplings.
6. Inserta Tee's are allowed when the mainline being tapped has a minimum wall thickness of .35" or greater. (Ribbed and other profile pipe are measured from the interior wall to the outer edge of the rib or profile of the pipe wall. **Note:** The Inserta Tee shall be made specifically for the size and type of pipe to be tapped.) When the mainline wall thickness is less than .35" an Indexed PVC gasketed Saddle shall be used.
7. Bends will not be allowed in public right of way.
8. Prior to the installation of the Inserta Tee or Indexed fabricated saddle, the area around the installation shall be clean and free of all rough edges.
9. No rock, dirt or debris shall be allowed to enter the mainline from the core drilled hole.
10. Bedding requirements shall be 3/4" x 0" around the entire pipe zone, which includes 4" below the pipe (To undisturbed ground) and 6" above the top of the pipe.
11. All connections made to the public line shall be Tee fittings unless otherwise approved.
12. Installation of Inserta Tees or Indexed fabricated saddles shall be per manufacturer's recommendation.
13. All sanitary/storm service laterals must be marked with direct burial magnetic Tape, buried approximately 18 inches above the pipe. This tape shall be marked appropriately as to the type of service. **Design and Construction Standards (drawing no. 520)**
14. All sanitary/storm taps to existing structures shall be:

- Core drilled under the direction of the inspector.
- Equipped with a watertight coupling compatible with concrete or approved equal. (e.g... sanded manhole adapter, kornseal boot.)
- Watertight using non-shrink material per Design and Construction Standards Chapter 8, section 8.02.1 (i). All internal/external surfaces shall be smooth

15. Inside drops (existing structures):

Sanitary

- If the distance from the invert pipe (in) to invert pipe (out) is two feet or less, a beaver slide shall be installed
- If this distance is greater than two feet, an inside drop shall be constructed, per Design and Construction Standards, (drawing no. 090 inside drop manhole w/Bowl, or a mechanical inside drop as show on drawing no. 060)

Storm

- The maximum free fall inside drop is four feet measured from the existing outfall flowline to the new flowline. (with proper modification to the channel as needed)
- When the drop is more than four feet (drawing no. 090 inside drop manhole w/Bowl , or a mechanical inside drop as shown on drawing no. 060 shall be used.)

Approved Materials

Sanitary Taps:

1. Fabricated Indexed PVC Tee Saddle (drawing no. 540)
2. Inserta Tee (drawing no.530) - meets the same specifications as the PVC Indexed Tee Saddle.

Storm taps:

All materials approved for sanitary tap installations shall be the same for storm taps with the exception of the following:

- Saddles installed on CAP (corrugated aluminum pipe) shall be fabricated and installed with an approved gasket, stainless steel nuts and bolts.

Approved tap locations

Top of Pipe
(90 degrees)
(12:00)

Halfway from spring-line to top of pipe
(45 degrees) or (10:30)

Halfway from spring-line to top of pipe
(45 degrees) or (1:30)

APPROVED TAP LOCATION
(CENTER OF TAP ABOVE SPRING-LINE TO 10:30)

Spring-line (0 degree) or (9:00)

APPROVED TAP LOCATION
(CENTER OF TAP ABOVE SPRING-LINE TO 1.30)

Spring-line (180 degree) or (3:00)

Note: For further information, please contact **CWS Construction Inspection Services at (503) 681-5113.**
9/22/08 MCM