



City of Oceanside
Building Division
300 N Coast Hwy
Oceanside Ca.
92054

Underground Plumbing Inspection Checklist

Based on the 2007 California Plumbing Code

This is to be used as a general checklist; it is not inclusive of all code requirements and inspection criteria.

Backwater Valve:

Required when drainage piping has the flood level rim located below the elevation of the next upstream manhole covers. (CPC710.1)

Backwater valve shall be accessible for repair and service. (CPC 710.6)

All fixtures above upstream manhole cover shall not discharge through the backwater valve. (CPC 710.1)

Discharge piping from ejector or pump shall have backwater and gate valve, and be a minimum of 2" diameter.

Grade:

Horizontal drainage piping shall be run in practical alignment of a slope of not less than $\frac{1}{4}$ " per foot or 2% (CPC 708.0)

Piping 4" and larger in diameter may have a slope of $\frac{1}{8}$ inch per foot or 1%, when approved by the Administrative Authority.

Horizontal drainage lines connecting with other horizontal drainage lines shall enter through 45-degree wye branches or other approved fitting of equivalent sweep. (No flat connections), (CPC 706.3)

Vertical drainage lines connecting to horizontal drainage lines shall enter through 45 degree wye branches or other approved fitting of equivalent. (CPC 706.4)

Sleeves shall be provided to protect all piping through concrete or masonry exterior or bearing walls. ($\frac{1}{2}$ " clearance around pipe.)

Clean-outs:

Upper terminal and each run of piping over 100 feet. (CPC 707.4)

No under floor cleanouts shall be located more than twenty (20) feet from an access door, trap door or crawl hole. (CPC 707.10)



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Drain lines for each aggregate horizontal change of direction exceeding 130 degrees.

Piping 2" or less shall be so installed that there is a clearance of not less than 12" in front of the clean out.

Piping larger than 2" shall have not less than 18" in front of the clean-out

Water Closets:

Not more than three water closets on any horizontal branch or drain.

Test:

No section shall be tested with less than a ten (10) foot head of water for 15 minutes.

Forcing air into the system until there is a uniform gage pressure of five (5) pounds per square for fifteen (15) minutes

Drain and vents may be tested in its entirety or in sections.

Water Service:

Copper tube for water piping shall be not less than Type L.

Exception: Type M copper tubing may be used for water piping underground outside of structures.

Water piping shall be at least twelve (12) inches below the frost line. The minimum cover shall be twelve (12) inches below grade.

Water piping shall not be laid in the same trench as building sewer or drain if either is not approved within a building **unless the both of the following conditions are met:**

The bottom of the water pipe, at all points, shall be at least twelve (12) above the sewer or drain line.

The water pipe shall be placed on a solid shelf excavated at one side of the common trench with a minimum clear horizontal distant of at least twelve (12) inches from the sewer or drain line.



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Testing:

Tested and proved tight under a water pressure not less than the working pressure which is to be used a fifty (50) pound per square inch air pressure may be substituted for the water test.

In either method of test, the piping shall withstand without leaking for a period of not less than fifteen (15) minutes

Gas Lines: (Approved Materials)

Standard weight wrought iron or steel and approved PE pipe may be used in exterior buried.

Ferrous gas piping installed underground in exterior locations shall be protected from corrosion by approved coating or wrapping material or other approved manner. All gas pipe protective coating shall be approved type, machine applied, and conform to recognized standard.

No gas piping shall be installed in or on the ground under any building or structure unless installed in gastight conduit. (do not seal the outer ends)

The pipe shall be a material approved for underground installation and not less than Schedule 40 pipe.

The interior diameter of the conduit shall be not less than ½ inch larger than the outside diameter of the gas piping.

The conduit shall extend to a point at least (12) inches beyond any area where it is required to be installed or to the outside wall of the building.

Where the conduit terminates within the building, it shall be readily accessible.

Within the building the space between the conduit and the gas piping shall be sealed to prevent leakage of gas into the building.

All horizontal metallic piping shall have at least twelve (12) of earth cover.

Plastic gas piping shall have at least eighteen (18) inches of earth cover.

An electrically continuous insulated #18 AWG copper tracer wire shall be installed with and attached to underground nonmetallic gas piping - terminating above grade at each end.