



CITY OF CAMPBELL
Community Development Department

Sewer Line Cleanout Handout

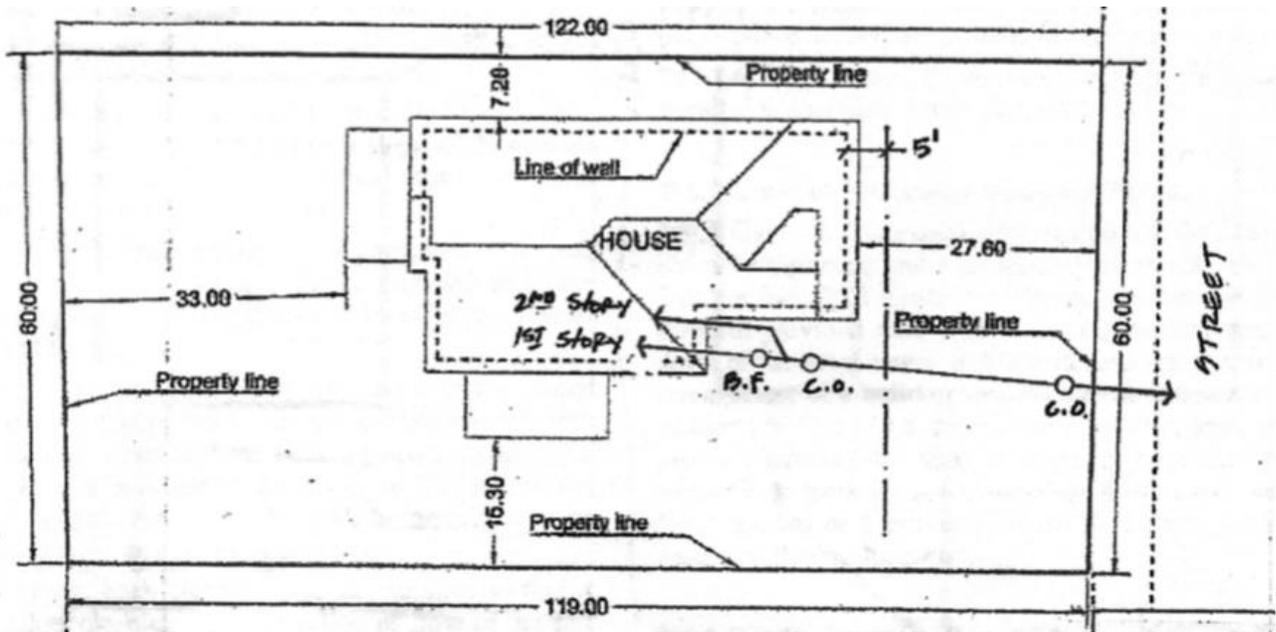
GENERAL INFORMATION

The purpose of this informational handout is to assist property owners and contractors/builders who are replacing or installing a sewer line. These details represent “average” or “typical conditions that may not be suitable in all cases. When projects deviate from the information presented in this handout or CPC, you may be asked to remove or replace parts of the system. To obtain complete information for your project, please contact the Building Inspection Division at building@campbellca.gov or at (408) 866-2130 during our normal business hours Monday through Friday, 8 A.M. to 5 P.M.

CPC 710.1 Backflow Prevention

Fixtures installed on a floor level that is lower than the next upstream manhole cover of the public, or private sewer shall be protected from backflow of sewage by installing an approved type of backwater valve. Fixtures on such floor level that are not below the next upstream manhole cover shall not be required to be protected by a backwater valve. Fixtures on floor levels above such elevation shall not discharge through the backwater valve.

Cleanouts for drains that pass through a backwater valve shall be clearly identified with a permanent label stating “backwater valve downstream”.



For Existing 2 or more story dwellings, an alarm system detecting a sewer back-up maybe installed instead of separating the upper floors plumbing from the downstairs. A plan for the alarm system must be submitted with the application of the permit. If submitted after the permit has been issued, a revision fee will be applied. The plans must show location of the alarm system and sensor and alarm location on a site plan, including the

manufacturer's specifications for the alarm system being used. This system must be powered by the building's power with a battery back-up.

CPC 707.4 Location

Each horizontal drainage pipe shall be provided with a cleanout at its upper terminal, and each run of piping, that is more than 100 feet (30 480 mm) in total developed length, shall be provided with a cleanout for each 100 feet (30 480 mm), or fraction thereof, in length of such piping. An additional cleanout shall be provided in a drainage line for each aggregate horizontal change in direction exceeding 135 degrees (2.36 rad). A cleanout shall be installed above the fixture connection fitting, serving each urinal, regardless of the location of the urinal in the building.

An approved type of two-way cleanout fitting, installed inside the building wall near the connection between the building drain and the building sewer or installed outside of a building at the lower end of a building drain and extended to grade, shall be permitted to be substituted for an upper terminal cleanout.

Campbell Municipal Code 14.04.025 Required Plumbing Materials

All soil or waste pipes under or inside of any such building shall be of cast iron, *ABS or PVC plastic as approved for sewer systems*. - All joints in cast iron shall be made with *no-hub mission bands*. Existing wrought iron pipes and fittings, known as the Durham System, are permissible. All joints shall be made completely watertight *and tested during inspection by city Building Division*. All soil or waste pipes shall extend 2 feet outside the exterior wall of the building *and be equipped with a building drain cleanout to a junction with the branch sewer*. Two way cleanouts must be back-to-back combination wye and 1/8 (AKA: Eastbay or Texas two-way cleanout).

TWO WAY CLEANOUT REQUIRED WHEN NO END OF LINE CLEANOUT EXISTS

PROHIBITED CLEANOUT



ABS Two-Way



Kelly Fitting

APPROVED CLEANOUT



Head-to-Head Double Combo



Texas/East Bay Two-Way

[How to install house cleanout \(example\)](#)

EASILY OBSTRUCTED FITTINGS SUCH AS KELLY FITTINGS ARE NOT ALLOWED

Two-way cleanouts are NOT to be used at property line cleanout locations. Please see attached West Valley Sanitation District (WVSD) requirements for all property line cleanouts.

Campbell Municipal Code 14.04.030 Separate Connections

Every house or building or ADU in and for which the plumbing work has been properly constructed, shall be separately and independently connected with the sewer system lateral, provided a line of such sewer has been laid in the street, alley, public way or easement on which such house or building abuts, and is within two hundred feet distant therefrom; provided that in the case of bungalow courts, ADU's, duplex or apartment houses one sewer lateral may be permitted. Deviations from the standard of separate building connections or possible connections of sewage ejectors must be approved by the city Building Official.

CONSTRUCTION HOURS

Monday thru Friday 8 A.M. TO 5 P.M.

Saturday 9 A.M. TO 4 P.M.

No construction Sundays & Holidays (Contact the Building Inspection Division at (408) 8662130. If the construction occurs outside of the office business hours, please contact PD Non-Urgent line at (408) 866-2121).

For detached/attached assessor dwelling unit (ADU) and assessor structure configuration see Figure #2 below. The drainage system of each new building and of new work installed in an existing building shall be separate and independent from that of any other building.

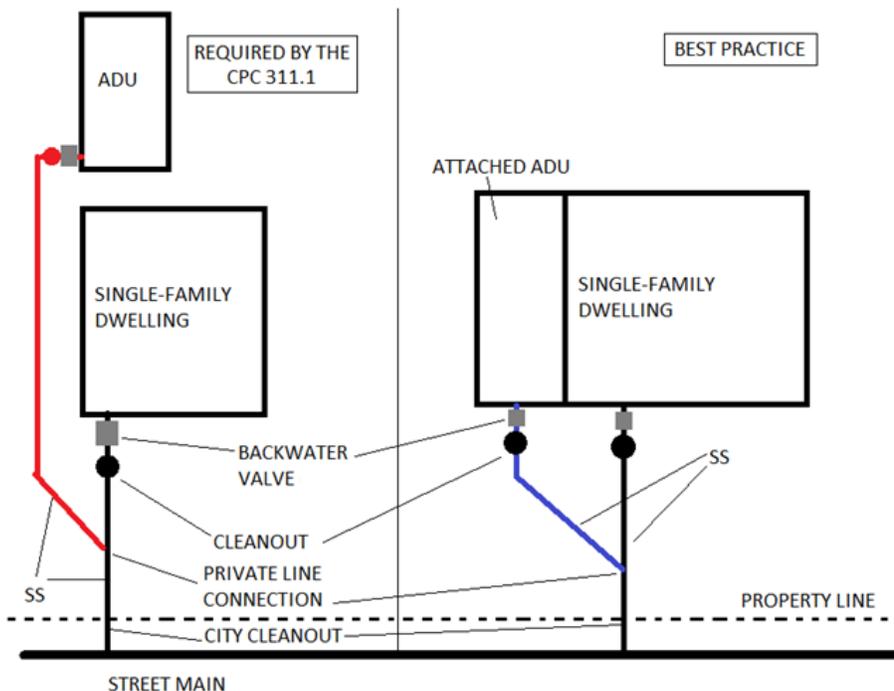


Figure #2 – ADU/Accessory structure When a Backwater Valve is Required

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EXTENDABLE BACKWATER VALVE

Prior to installation:

- Slide collar through 6" riser pipe. If collar does not slide freely through pipe, check to see if pipe is "out-of-round". If so, replace 6" rise pipe.
- Check with your local plumbing agency to ensure that threaded adapter and plug is acceptable.
- Typically, all backwater valves require adequate drop between the flood rim of the lowest fixture and burial depth of the valve in order to function properly.

1. Install the valve body in the sewer lateral with the "FLOW" arrow on the body pointing downstream. Use an approved solvent cement as per the manufacturer's recommendations.
2. Rotate the valve body until the 6" opening is facing directly upward. A level may be used across the top of the valve body to verify horizontal positioning.
3. Cut the 6" riser pipe to the required length. Insert and cement while keeping the inside of the valve body dean of debris.
4. Cut the 4" insert pipe to a length (3 ½ ") shorter than the uninstalled 6" riser pipe.
5. Cement the flapper assembly to one end of the 4" insert pipe.
6. Cement the collar to the other end of the 4" insert pipe. Align the center of the finger hole with the center of the flapper on the opposite end.
7. When cement is dry, side the 4" insert pipe - flapper assembly first-into the 6" riser pipe with the flapper facing the inlet side of the valve body. Lower the 4" insert pipe until it rests on the seating area of the valve body. Seat the flapper assembly by rotating as necessary until it locks in place. Visually inspect the flapper assembly is installed correctly. Proper flapper attachment and alignment is essential.
8. Prior to installation of the 6" threaded adapter (with the 4" insert pipe properly installed) cut a reference notch into the 6" riser pipe. This saw cut notch should be aligned with the molded notch in the 4" collar. For future remodel, alignment of the notches wil quickly indicate that the flapper is seated correctly.
9. **IMPORTANT:** Tighten the ¼" Stainless Steel thumbscrew until it seats snugly against the 6" riser pipe, fixing the 4" insert pipe in place.
10. Cement the 6" threaded adapter to the 6" riser pipe to complete installation and screw the 6" threaded plug into the threaded adapter.

