



## City of Grass Valley

### Requirements for Sewer Backflow Prevention and Flow-Relief Devices

#### Purpose

To prevent sanitary sewer overflows for municipal sewer customers.

- A.) Installation of a relief device (pop-off cap) in the cap of at least one private sewer cleanout, in an area least likely to cause property damage, (for most properties, this device would be located in a sewer cleanout at the property line, closest to the street).
- B.) Installation of a backwater valve, to prevent sewage from the main sewer backing up into the private sewer lines due to cleaning or plugs in the main, is required for all:

- i New construction
- i Replacements or repairs made to an existing sanitary sewer lateral
- i Building Permit applicants who are remodeling more than twenty five percent (25%) of the structure area or where plumbing fixtures are added to the property.
- i Properties that have been damaged by the blockage of the City sanitary sewer main or the private lateral
- i On all structures where a pump is used to lift sewage to the sanitary sewer system main line. The backflow relief device shall be located to protect the structure from damage in the event that the pump is pumping against a closed backflow device
- i Existing buildings which have plumbing drain outlets at an elevation 12" or less above the ground surface of the next upstream manhole, where the elevation of any floor is at or below the invert of the adjacent City sanitary sewer main or is less than 12" above the ground surface of the next upstream manhole, or where a condition exists where a plug in the City sanitary sewer main will cause the hydraulic gradient to rise above the lowest floor level.
- i Property title changes

#### Required Permits

- i Building/Plumbing Permit from the Building Division, (530) 274-4344, for all sewer/plumbing work on private property, usually between the sidewalk or public right-of-way and the building.
- i Encroachment Permit from the Engineering Division, (530) 274-4373, for all work in City right of way, usually between the back of sidewalk and street where the private lateral would connect to the City's sewer line.

#### General Submittal Requirements:

- o Permit fee (refer to current year Fee Schedule).
- o Plans, specifications, and other information indicating the type and location of the proposed work. Plans must include the location of the cleanout at the back of the City right of way (or one must be installed), relief device location, and the backwater valve location.
- o Payment of a sewer impact fee, if new or expanded service.

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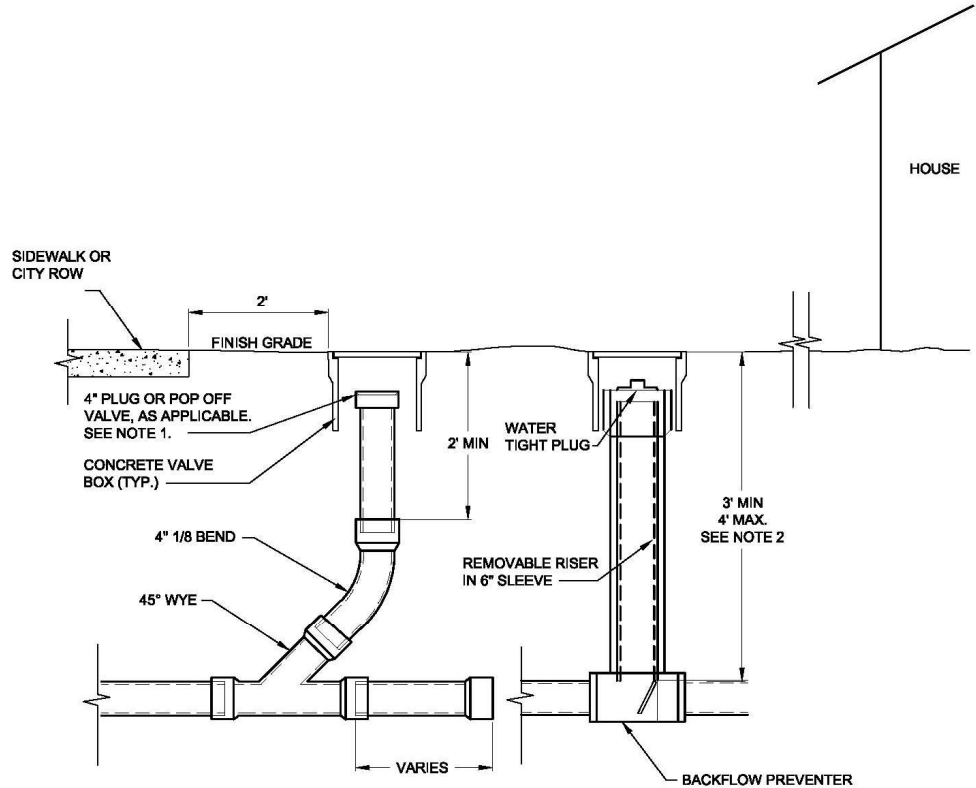
[www.cityofgrassvalley.com](http://www.cityofgrassvalley.com)

City Ordinance No. 698

**POP-OFF RELIEF DEVICE**



**TYPICAL INSTALLATION DETAIL**



**BACKFLOW PREVENTION DEVICE**



- \_\_\_\_\_ RISER COLLAR
- \_\_\_\_\_ 4" RISER PIPE (LENGTH AS NEEDED)
- \_\_\_\_\_ FLAPPER ASSEMBLY



- \_\_\_\_\_ 6" THREADED PLUG
- \_\_\_\_\_ 6" FEMALE ADAPTER
- \_\_\_\_\_ 6" RISER SLEEVE (LENGTH AS NEEDED)
- \_\_\_\_\_ BACKFLOW VALVE TEE

**NOTES**

1. A POP OFF RELIEF VALVE SHALL BE INSTALLED IN THE CAP OF ONE CLEANOUT LOCATED ON THE STREET SIDE OF THE BACKFLOW PREVENTER. THE CLEANOUT SHALL BE LOCATED IN AN AREA LEAST LIKELY TO CAUSE DAMAGE TO PROPERTY OR CONTAMINATION OF SURROUNDING AREA IF ACTIVATED.
2. FOR EXISTING SERVICES, SEWER LINE DEPTH SHALL BE AS NEEDED TO MATCH EXISTING PIPE INVERT ELEVATION. CITY ENGINEER MAY INCLUDE SPECIAL REQUIREMENTS FOR SHALLOW SERVICES IN THE CITY RIGHT OF WAY.
3. BACKFLOW PREVENTION DEVICE TO BE PLACED IMMEDIATELY BEHIND THE PROPERTY LINE CLEANOUT. IF UNUSUAL CONDITIONS WARRANT AN ALTERNATE LOCATION, THE BACKFLOW PREVENTER MAY BE PLACED ANYWHERE BETWEEN THE CLEANOUT AND THE BUILDING.
4. CONTACT THE ENGINEERING DIVISION FOR COMPLETE CONSTRUCTION DETAILS.