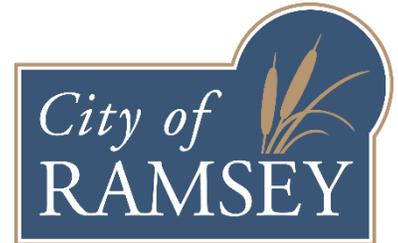


LAWN SPRINKLERS

7550 Sunwood Drive NW
Ramsey, Minnesota 55303
City Hall: 763-427-1410
Building and Inspections: 763-433-9850
Fax: 763-433-9848
www.cityoframsey.com/permits
permits@cityoframsey.com



This pamphlet is a compilation of some of the standard requirements based on the State Building Code and City Zoning Code for projects of this type. This information packet does not contain all of the specific codes for construction and should only be used as a guide. The permittee is responsible to meet all code requirements applicable to each project.

The Minnesota State Building Code requires an approved type of back flow prevention device to be installed on all lawn sprinkler systems. This device must be installed by a licensed plumber or the homeowner. This requirement is in place to prevent back flow contamination of your water and the city's public water system.

In order to locate and inspect these systems, the City of Ramsey requires a permit for all lawn irrigation systems. If a system is to be installed by a contractor, they must be licensed with the city and obtain the permit. If a homeowner is installing the system they may obtain the permit. Please provide the approved type of backflow preventer information when applying for the permit. The city does not need a layout of the system.

Any irrigation system that contains pumps or injectors for the addition of chemicals and/or fertilizers is considered a greater contamination hazard and requires a greater level of protection. All system designs shall meet Minnesota Plumbing Code 4715.1900 and related sections for potable water protection. Contact city inspection staff or a licensed plumber for further details.

As per Minnesota State Statute 103G.298, all automatically operated landscape irrigation systems shall have furnished and installed technology that inhibits or interrupts operation of the irrigation system during periods of sufficient moisture (i.e. Rain Sensor).

In addition to a rain sensor, Ramsey City Code also **requires all new irrigation systems to be equipped with some form of water efficient technology** to reduce the demand on groundwater aquifers. Examples of water efficient technology include smart controllers, soil moisture sensors, Evapotranspiration (ET) sensors, etc.



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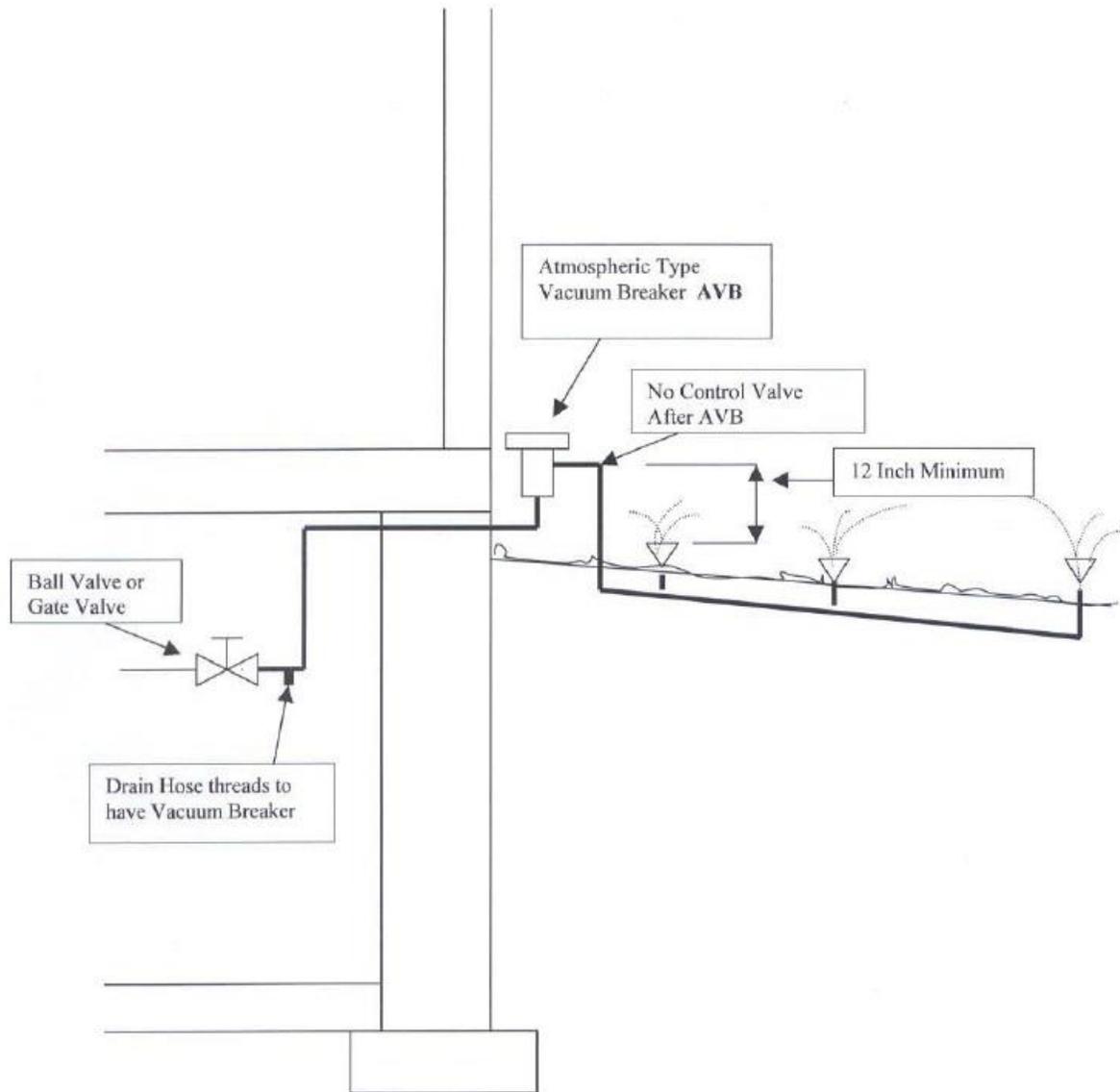
**COLOR CODE FOR MARKING
UNDERGROUND UTILITY LINES**

-  Electric
-  Gas-Oil-Steam-Propane
-  Communication-CATV-Fiber
-  Water
-  Reclaimed Water-Irrigation
-  Sewer
-  Temporary Survey Markings
-  Proposed Excavation



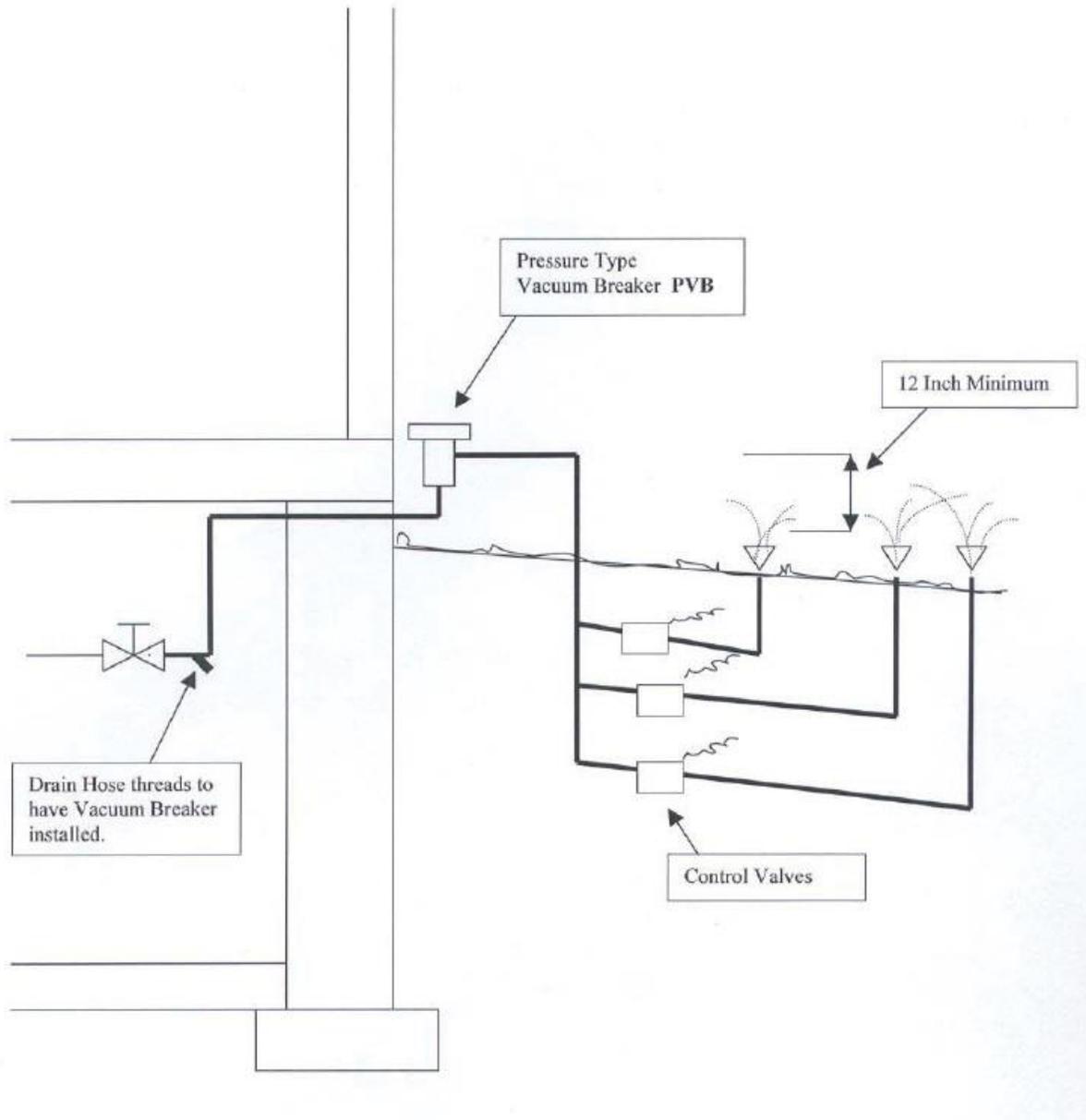
www.gopherstateonecall.org

Vacuum Breakers Atmospheric Type AVB



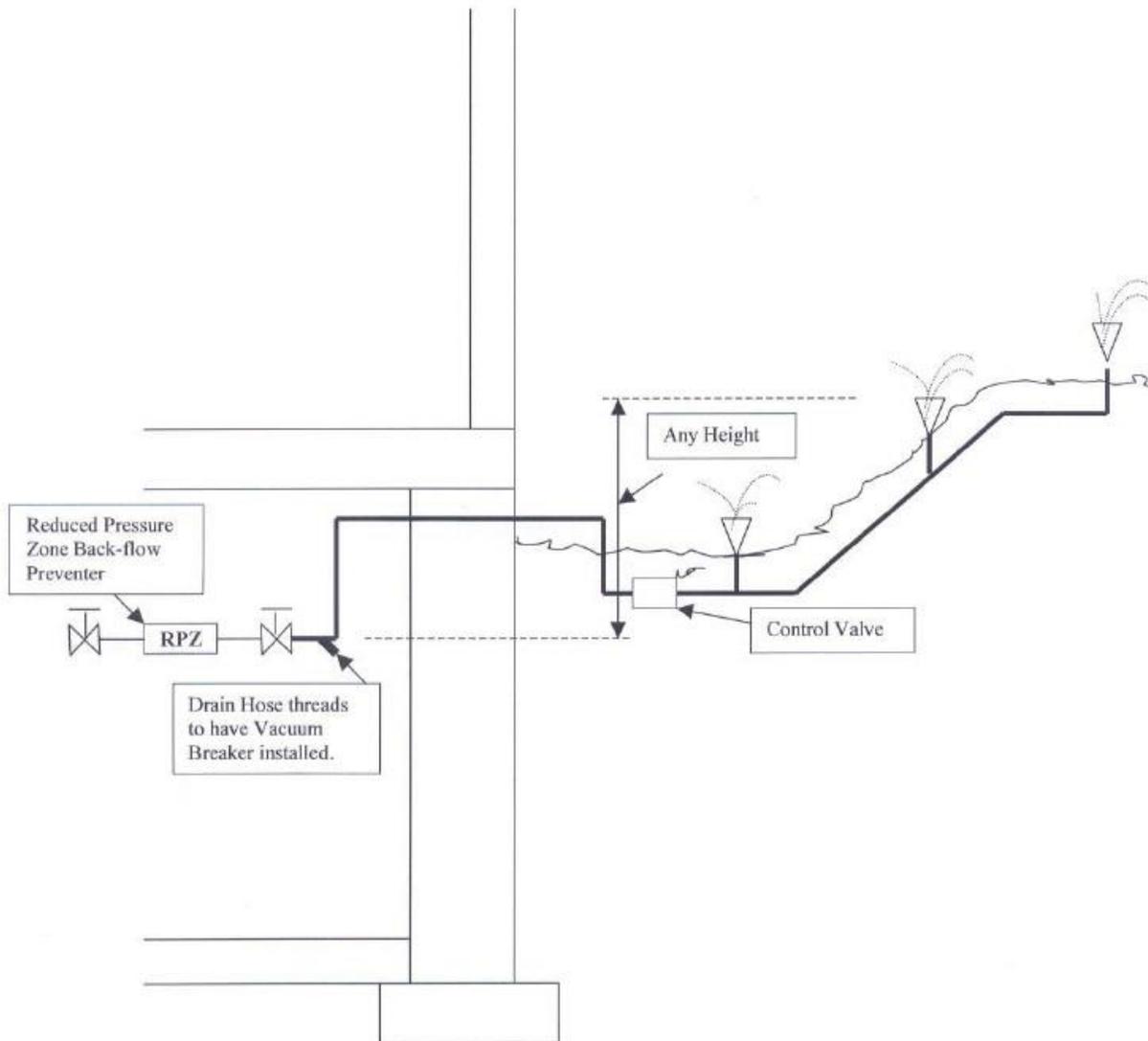
Atmospheric Vacuum Breakers on lawn sprinkler system must be installed at least 12 inches above highest sprinkler outlet and on the non-pressure side of the last control valve.

Vacuum Breakers Pressure Type PVB



Pressure Vacuum Breaker on lawn sprinkler system must be installed at least 12 inches above highest sprinkler outlet and may be subject to constant static pressure.

Reduced Pressure Zone Back-Flow Preventer RPZ



A Reduced Pressure Zone type back-flow preventer must be installed on lawn sprinkler systems when any sprinkler outlet is higher than the back-flow preventer or when the system is designed to add chemicals or fertilizers. (May be subject to constant static pressure, back pressure, and back syphonage.) Use RPZ as last back-flow preventer if AVB-PVB will not work. Must test RPZ upon installation, every year and rebuild every 5 years. Contractors and homeowners installing RPZ back-flow preventers in the City of Ramsey are required to inform the Building Official and provide details of their testing and inspection program.