



City and County of Broomfield

www.broomfield.org

Community Development
Building Division

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Residential Landscape Irrigation Systems

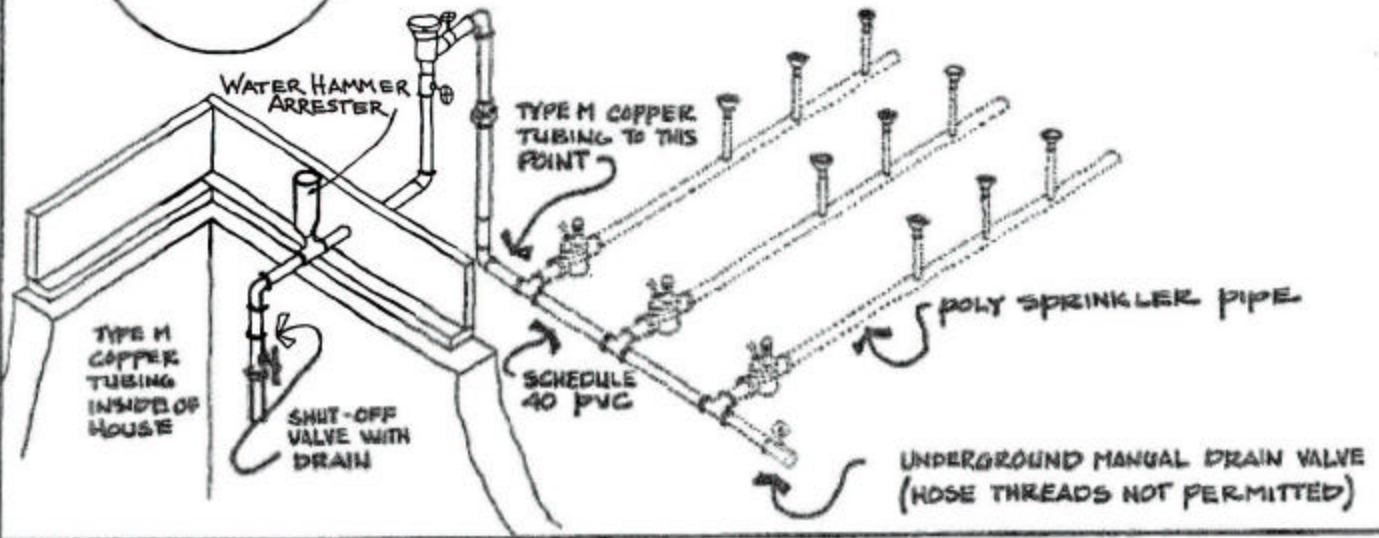
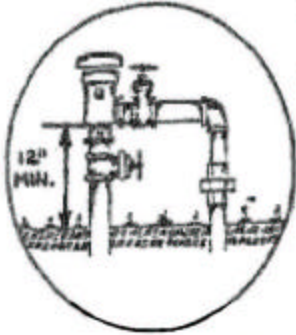
General code requirements:

1. A building permit is required for lawn irrigation sprinkler systems.
2. Install backflow preventers in accordance with the manufacturer's listing and the 2006 *International Residential Code*[®]. All plumbing upstream from and including backflow preventers shall be installed by a licensed plumbing contractor or the occupying homeowner (CRS 12-58-101 and 12-58-113 (4)).
3. Support interior copper tubing 6' maximum on center.
4. Underground service connections are required to be flared or silver-soldered when using Type-K copper tubing.
5. Soldered connections require lead-free solder.
6. Use direct burial U.L. listed low voltage wiring for underground use.
7. Minimum 6" burial depth is required for low voltage wiring to zone valves.
8. Secure all interior sprinkler control wiring in an approved manner 4½ feet on center and protect from physical damage by an approved means.
9. Exterior and below grade low voltage wiring connections shall be made moisture proof by approved means (i.e. grease pack connectors or liquid tape).
10. Provide maximum 6 foot long electrical cord from the time clock to an electrical receptacle outlet.
11. A water hammer arrestor shall be installed inside the house on the supply line as close as possible to the quick closing sprinkler valves per IRC P2903.5. Provide access to the interior of the building during final inspection in order to verify installation of the water hammer arrestor in accordance with the manufacturer's installation instructions. Water hammer arrestors may be installed outside only if specifically approved for exposure to freezing temperatures.
12. When all work is complete, you must call for an inspection. We will check both the installation of the backflow preventer on the outside of the house and the water hammer arrestor on the inside of the building.

**PRESSURE VACUUM BREAKER
BACKFLOW PREVENTER (PVB)**

LOCATE PVB 12" MIN. ABOVE GROUND
AND HIGHEST SPRINKLER HEAD.

SEE
GENERAL REQUIREMENTS
REVERSE SIDE



**COMBINATION AUTOMATIC ZONE VALVE
WITH ATMOSPHERIC VACUUM BREAKER (AVB)**

LOCATE AVB MIN. 6" ABOVE GROUND AND HIGHEST
SPRINKLER HEAD.

SEE
GENERAL REQUIREMENTS
REVERSE SIDE

