

## SECTION 8a

### RESIDENTIAL POTABLE AND NON-POTABLE WATER SEPARATION

Separation between TMWA's water distribution system and non potable water supplies shall comply with the separation requirements of section 8, "Water and Sewer Separation" of TMWA's Construction & Design Standards, the requirements of this section, and the requirements of NAC445A.

Common or landscaped areas that are adjacent to a dwelling may not be irrigated from a non-potable source. If a property served by TMWA is located immediately adjacent to a property or right of way irrigated with non potable water or located within 10 feet of a non-potable source, the TMWA water supply system shall be protected from a direct or indirect cross connection through the following measures:

All new single family residential services will include the installation of a single angle check valve integral to the meter setter.

In addition, where a parcel's back or side property line is adjacent to a property served with non-potable water, a solid barrier **or** delineating concrete mow strip (6"W x 6"D), shall be provided between the property served with potable water by TMWA and the property to be irrigated with non-potable water. Non-potable water facilities (piping, spray heads, drip emitters, etc), shall not be installed on the potable water side of the barrier or delineating mow strip. Pressurized non-potable irrigation piping, (upstream of irrigation control valves), shall not be installed within 10-feet of back or side property lines.

A solid barrier is defined as:

a: Any solid face wood, stone, or brick fencing or wall with a minimum height of 3-feet, separating the property served by TMWA and the property irrigated with non-potable water

**or**

b: A continuous four foot wide concrete or asphalt pavement sidewalk.

For front of property parkways, a sidewalk shall serve as the solid barrier. Pressurized non potable water mains can be installed within the grass area between the sidewalk and curb. Non potable water facilities (piping, spray heads, drip emitters, etc), shall not be installed on the house side of the side walk and spray heads or emitters shall not be allowed to over spray or discharge onto the house side of the side walk.

TMWA reserves the right to require more stringent backflow protection requirements for uncommon or non-standard installations.

**Thermal Expansion Protection: Please note that a thermal expansion tank is required in any home water supply system that is downstream of a backflow prevention device or check valve. Refer to the requirements of the Uniform Plumbing Code – Section 608.3.**

DRAWN	DESIGN	DATE	REV	TRUCKEE MEADOWS WATER AUTHORITY	
		1/2004		ENGINEERING & CONSTRUCTION STANDARD SECTION 8a –POTABLE WATER AND NON –POTABLE WATER SEPARATION	8a - 1