



NOT TO SCALE

CITY OF MILPITAS, ENGINEERING DIVISION

STANDARD DRAWING
NO. 734

REDUCED PRESSURE PRINCIPAL
BACKFLOW PREVENTER

DATE : 6/15/10

REVISION	DATE
1	1997
2	2001
3	2010

APPROVED BY: 
PUBLIC WORKS DIRECTOR / CITY ENGINEER RCE No. 40283

SHEET 1 OF 2

NOTES:

1. The reduce pressure principal assembly shall be per City approved equal list. The size and model of the backflow preventer shall be determined for each installation. The entire assembly including the resilient seated shutoff valves and the test cocks shall be provided as a complete unit.
2. The thrust blocks shall be required per Standard Drawing No. 704 for 4 inch diameter pipe and larger. All ring-tite or flexible pipe with a diameter smaller than 4 inch shall require thrust blocks per City Engineer approval.
3. A protective enclosure, model BPE-200R by Pipeline Products or approved equal shall be installed.
4. All backflow preventers 2 inch or larger diameter shall be supported by stainless steel pipe saddle brace with 4 inch thick, 12 inch square concrete footing per City Approved equal list.
5. A secondary pressure relief valve shall be installed behind the reduced pressure principal backflow preventer installed on existing water services, serving water heaters or boilers without secondary thermal expansion relief devices. The secondary relief valve shall be a "Listed" device that has been listed by a nationally recognized testing laboratory or as approved by the Building Division. The secondary relief valve shall have a setting at or below the maximum working pressure of the water heater device and shall be inspected by the building inspector.
6. All backflow preventers must be tested by a certified backflow prevention device tester. A test and maintenance report for the backflow device must be received by the City prior to acceptance of public improvements, permit issuance or occupancy as determined by the City Engineer.
7. Threaded installations shall include one three-part union.
8. The installation is required by Title 17 of the California Administrative Code, the Department of Public Health, Recommendations and Ordinance No. 232 of the City of Milpitas.
9. The protective enclosure shall be in accordance with Standard Drawing No. 741.
10. Install reduced pressure principle backflow preventer as shown on City Standard Drawing No. 734 when any of the following conditions exist.
 - a. When serving more than two (2) dwelling units.
 - b. To separate potable water supply from irrigation system.
 - c. When Recycled water connection serves the site.
 - d. When Recycled water irrigation system has permanent plumbing connection to chemical feed.
 - e. When any potable water service has permanent plumbing connection to pumps, injectors and tanks.

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