

City of Apple Valley Backflow Preventer Requirements

1. Backflow preventers are regulated by Minnesota Plumbing Code Section 4714.0603.
2. The installation, removal or replacement of any backflow prevention device requires a permit. The following information must be provided to the City of Apple valley Inspections Department when installing, removing or replacing a backflow preventer.
 - a. Manufacturer
 - b. Size
 - c. Model Number
 - d. Serial Number
 - e. Name and License of Installer/Tester
 - f. Date
3. Testable backflow prevention devices shall be tested annually. More frequent testing may be required. Individuals testing/maintaining backflow prevention assemblies must be certified in addition to being licensed or registered by the DLI.

A resident homeowner may install a backflow preventer, but must have the required annual testing done by an ASSE certified tester (this includes the test required after initial installation).

4. During a test, if it is determined an overhaul of the device is needed; the overhaul must be performed by a licensed, ASSE certified plumber. A plumbing permit is not required for the annual testing or an overhaul of a backflow preventer.
5. Results must be submitted to the City of Apple Valley Inspections Department for the testing and/or overhauling of all testable backflow prevention devices. Please mail backflow test/maintenance reports to: City of Apple Valley, Attn: Building Inspections, 7100 147th Street W, Apple Valley MN 55124. Reports may also be submitted via fax (952-953-2515) or via email (backflow@cityofapplevalley.org).

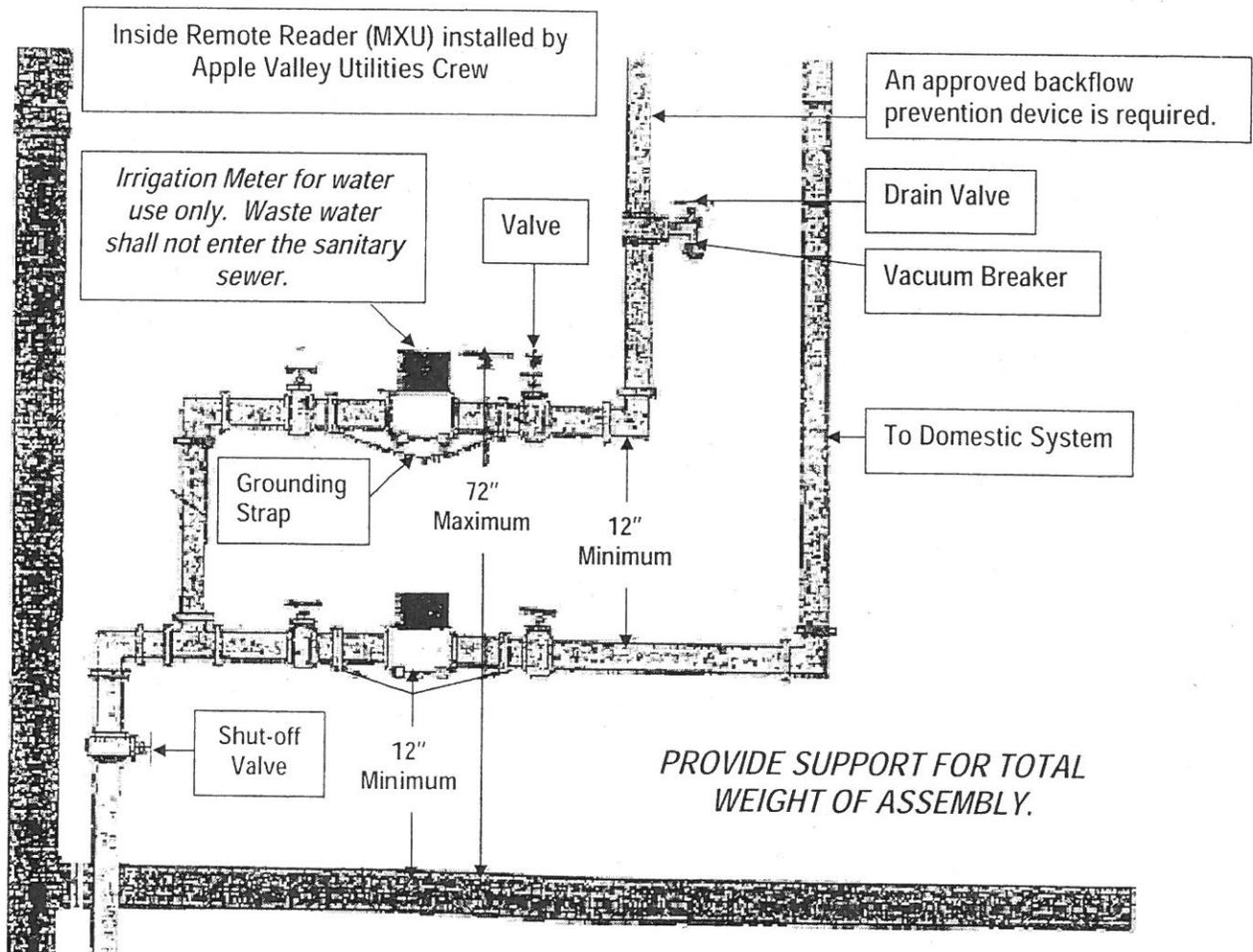


Commercial Irrigation Meter Installation Guidelines

Water meters installed for lawn irrigation and sprinkler systems shall be installed in parallel. Irrigation meters installed as a deduct meter are not permitted. Contact Public Works at 952-953-2400 for more information.

Installation of irrigation meters in parallel allows for the independent reading of each meter, eliminates the need to calculate water use utilizing both the irrigation and domestic meter, and maintains consistency with established installation practices.

DIAGRAM



Backflow Preventers

D. Hose connection vacuum breaker (Hose VB)

- (1) required for threaded hose connections;
- (2) back pressure not permitted;
- (3) continuous line pressure not permitted; and
- (4) any new device must be field testable. *

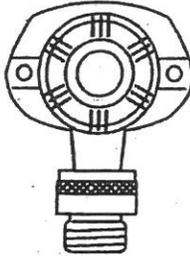
Unprotected
Hose Bibb



Not allowed on potable water system.
A backflow preventer which meets ASSE Std. 1052 must be installed. (See Fig. 3) or a code approved backflow preventer is installed upstream of the hose bibb.

Fig. 1

Not Field Testable
ASSE Std. 1011



Field installed hose bibb vacuum breaker ASSE Std. 1011 is not field testable.

Fig. 2

Field testable
ASSE Std. 1052

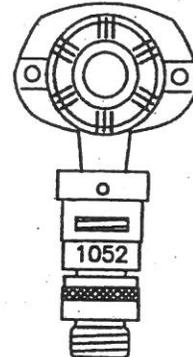


Fig. 3

Exceptions *

Hose Bibbs with integral hose connection vacuum breaker ASSE Standard 1011 are acceptable with the following conditions:

1. The hose bibb VB must be an integral part of the hose bibb installed at the factory.
2. The thread on the inlet side (point A) shall not be hose thread type.

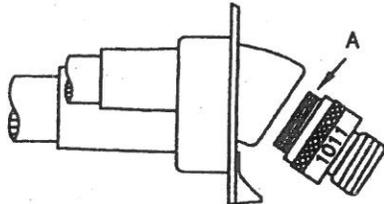
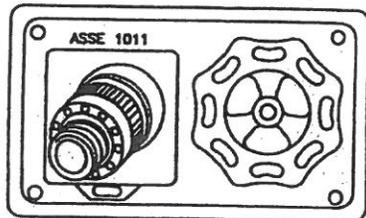


Fig. 4

Wall Hydrant, freeze resistant, auto draining with integral vacuum breaker.

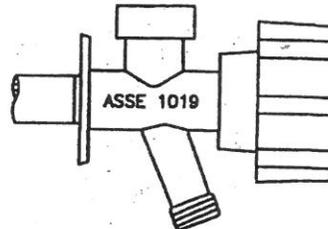


Fig. 5

Mop sink faucet with integral atmospheric vacuum breaker and hose thread on spout.

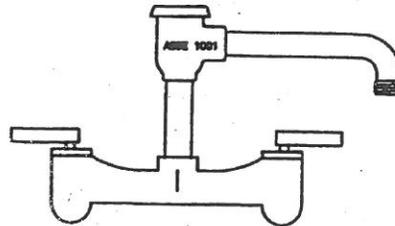
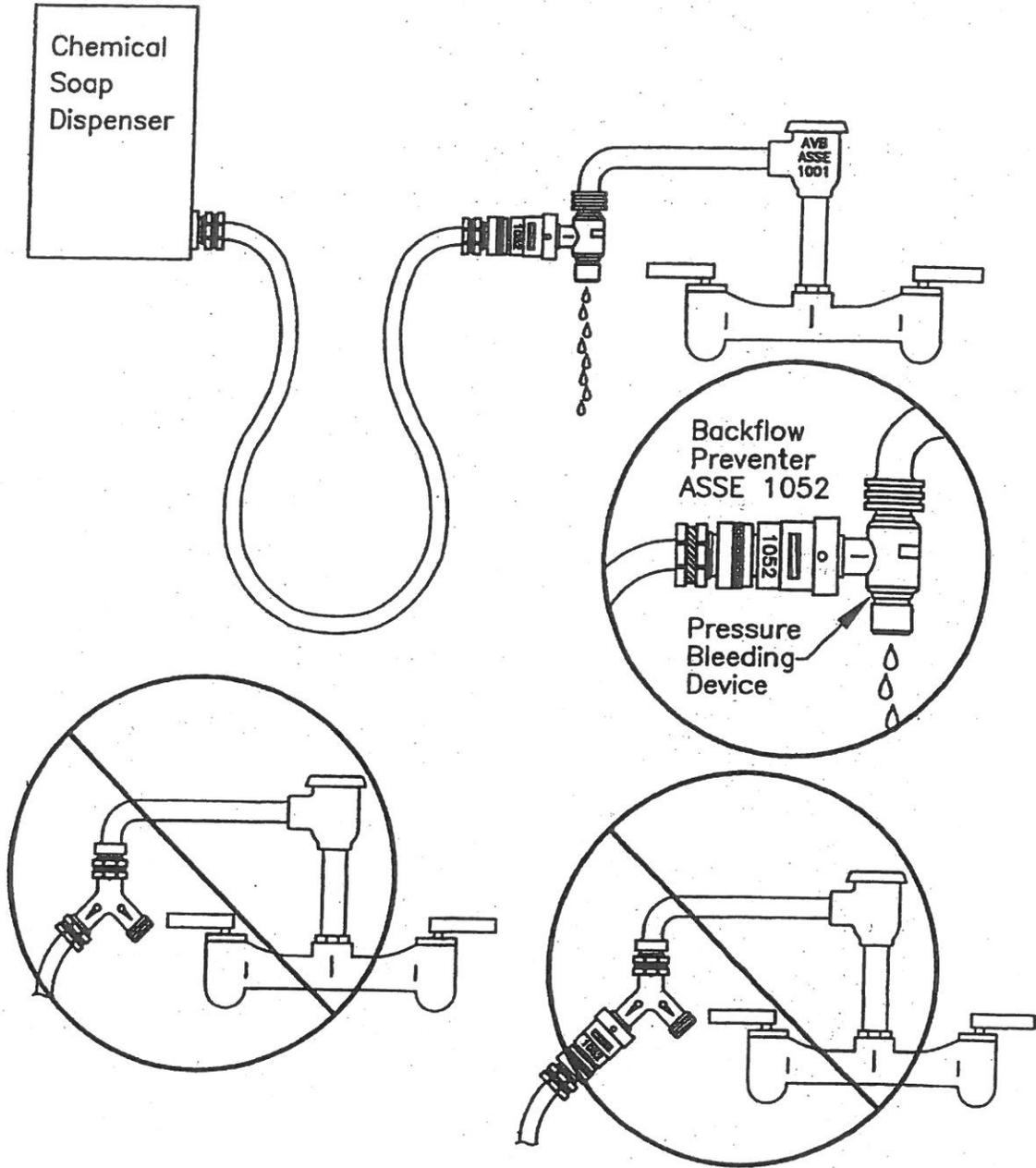


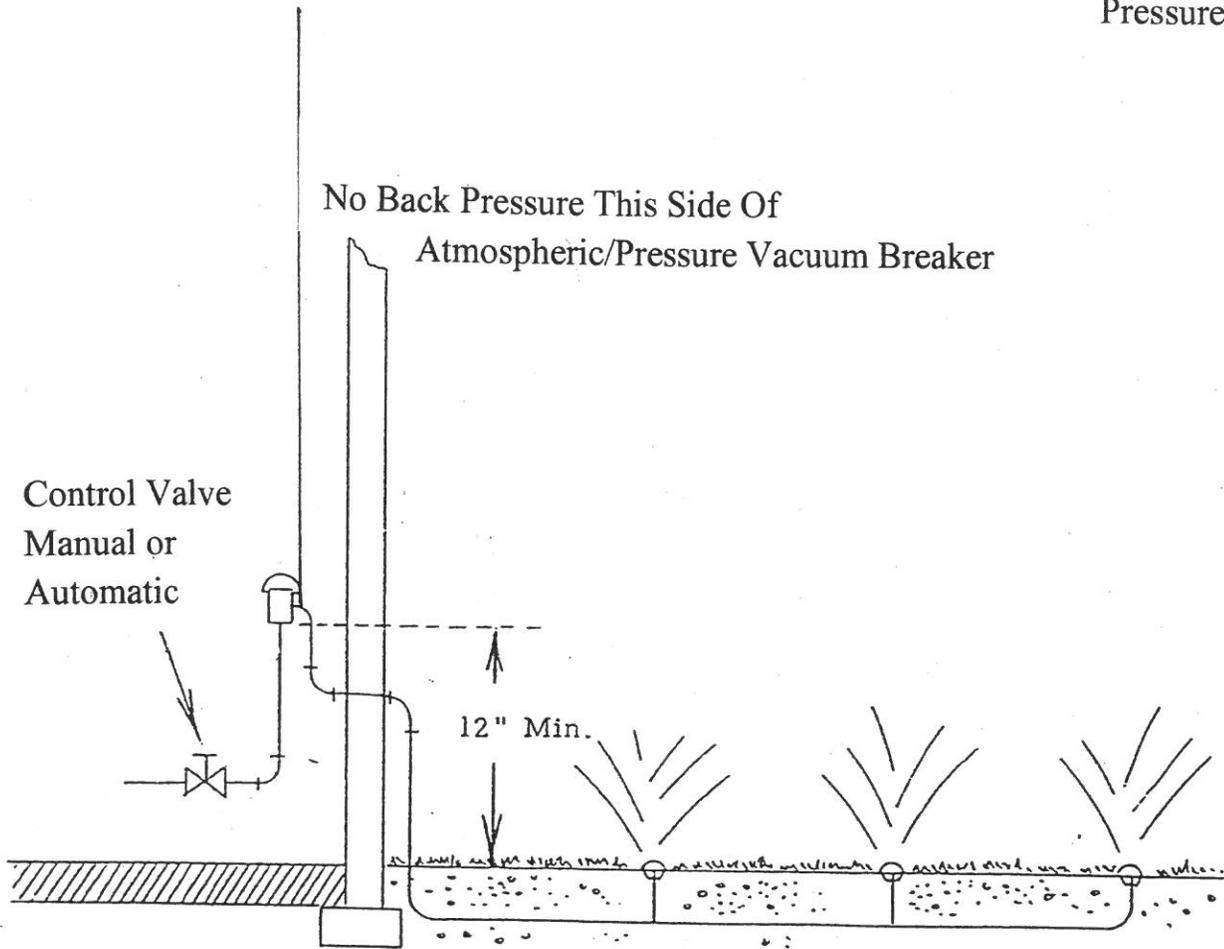
Fig. 6

2015 MN Plumbing Code

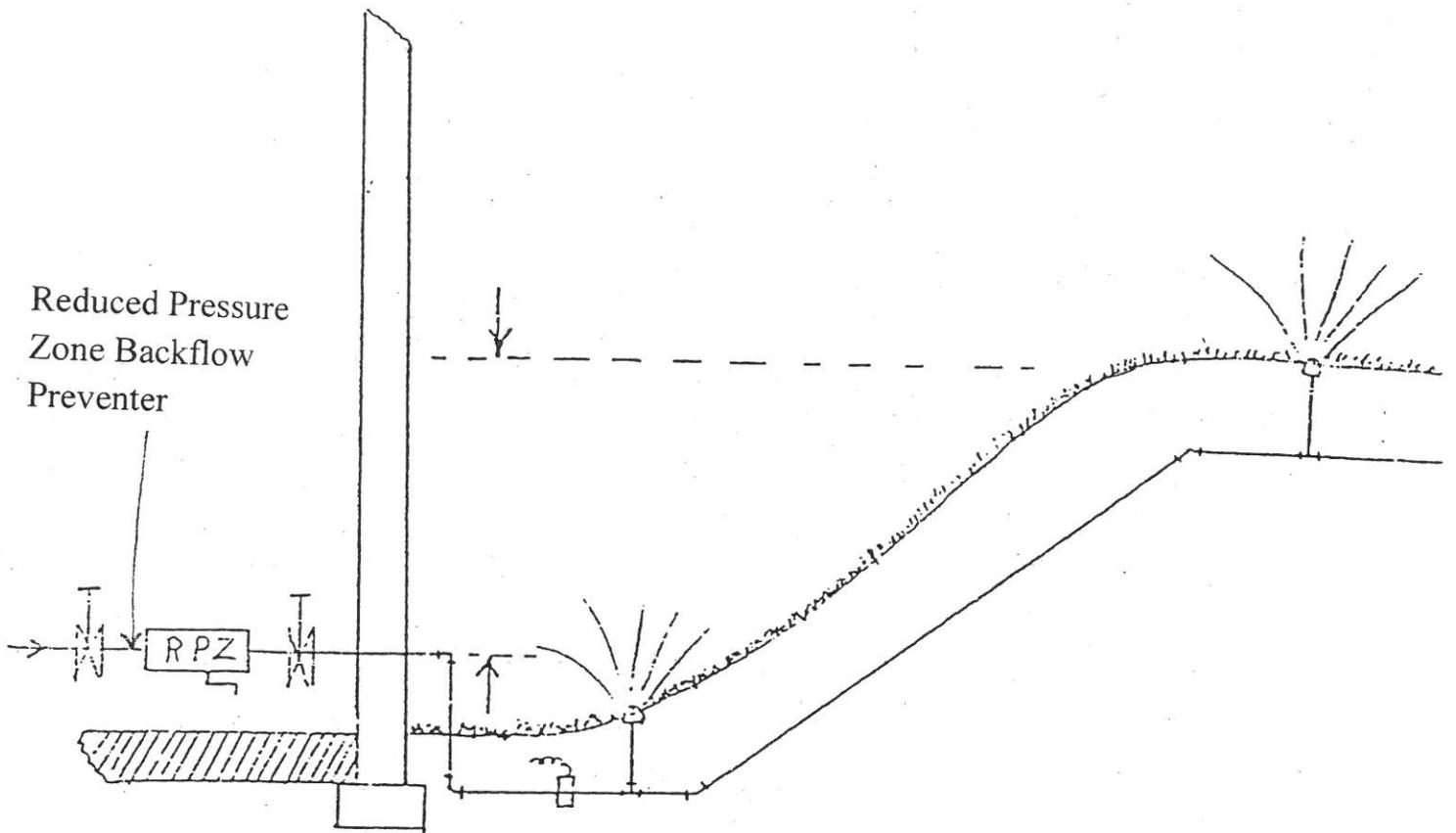
4714.0603 CHEMICAL/SOAP DISPENSING SYSTEMS



Vacuum Breakers
Atmospheric and
Pressure Type



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



A Reduced Pressure Zone Backflow Preventer must be installed on lawn sprinkler systems when any sprinkler outlet is higher than the backflow preventer (may be subject to constant static pressure, back pressure and back syphonage).



City of **Apple Valley**

7100 - 147th Street West
Apple Valley, MN 55124

BACKFLOW PROTECTION TEST REPORT

PERMIT NO.: _____

Client Name: _____

Address: _____

Apple Valley, MN 55124 Phone: _____

Device Location: _____ Room Name/No.: _____

Purpose: Irrigation Other: _____

Make: _____ Model No.: _____ Size: _____ Serial No.: _____

Install Date: _____ Replacement Date: _____ Test Date: _____

- Annual Test
- Replacement**
- Removal**
- New Install**

****A PLUMBING PERMIT IS REQUIRED FOR THE INSTALLATION, REMOVAL OR REPLACEMENT OF ALL BACKFLOW PREVENTERS**

<p>Check Valve # 1: PSI/DIFF</p> <p><input type="checkbox"/> Leaked <input type="checkbox"/> Closed Tight</p> <p>_____ PSI</p> <p><input type="checkbox"/> Cleaned Unit <input type="checkbox"/> Rubber Kit <input type="checkbox"/> CV Assembly <input type="checkbox"/> OR <input type="checkbox"/> Disc <input type="checkbox"/> O-rings <input type="checkbox"/> Seat <input type="checkbox"/> _____</p>	<p>Check Valve # 2: PSI/DIFF</p> <p><input type="checkbox"/> Leaked <input type="checkbox"/> Closed Tight</p> <p>_____ PSI</p> <p><input type="checkbox"/> Cleaned Unit <input type="checkbox"/> Rubber Kit <input type="checkbox"/> CV Assembly <input type="checkbox"/> OR <input type="checkbox"/> Disc <input type="checkbox"/> O-rings <input type="checkbox"/> Seat <input type="checkbox"/> _____</p>	<p>Relief Valve: PSI/DIFF</p> <p><input type="checkbox"/> Did Not Open</p> <p>Opened at _____ PSI</p> <p><input type="checkbox"/> Cleaned Unit <input type="checkbox"/> Rubber Kit <input type="checkbox"/> CV Assembly <input type="checkbox"/> OR <input type="checkbox"/> Disc <input type="checkbox"/> Diaphragm(s) <input type="checkbox"/> Seat <input type="checkbox"/> _____</p>
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Describe Additional Repairs (if needed):

Test Done By (Please Print First & Last Name):

Certificate No.: _____

Company Name: _____ Contractor License No.: _____

Company Address: _____ Company Phone No.: _____

City: _____ State: _____ Zip: _____ Contact Person/Phone No.: _____

Completed Test and/or Rebuild Report

Fax to: 952-953-2515 Attention: Inspections

Mail to: Building Inspections, 7100 - 147th Street West, Apple Valley, MN 55124

Email: backflow@cityofapplevalley.org

Call 952-953-2585 with questions.