

CITY OF PEORIA
STANDARD DETAIL PE-351-1
CROSS CONNECTION CONTROL 3 - INCHES &
LARGER LEAD FREE REDUCED PRESSURE
BACKFLOW PREVENTER



APPROVALS:

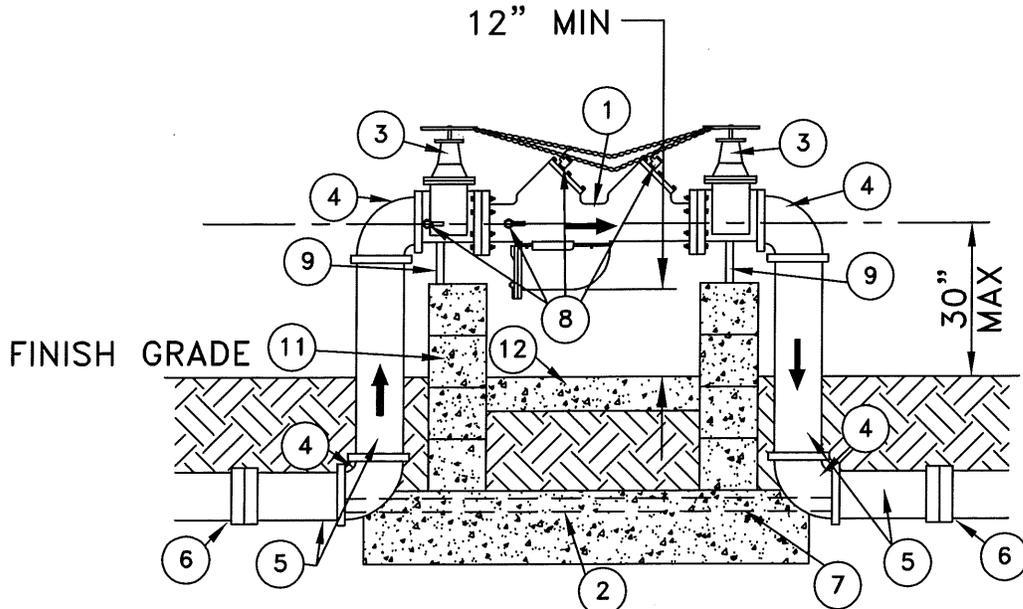
CITY ENGINEER

DATE

PW-UTILITIES DIRECTOR

DATE

[Handwritten signatures and dates]
 2/14/17 2/14/17



REDUCED PRESSURE PRINCIPLE

LIST OF MATERIALS:

1. APPROVED BACKFLOW ASSEMBLY SHALL BE LEAD FREE, NO EXCEPTIONS FOR NON-POTABLE SYSTEMS.
2. COAT WITH COAL TAR EPOXY OR UTILIZE MANUFACTURER'S EPOXY COVERED SETTER.
3. RESILIANT SEATED GATE VALVE. (NON FIRE LINE) NON RISING STEM
4. 90° ELBOW (FLANGED D.I.P. 3-INCHES THRU 10-INCHES).
5. PIPE SPOOL (FLANGED D.I.P. 3-INCHES THRU 10-INCHES).
6. MECHANICAL JOINT
7. 3" X 3" X 1/4" STEEL ANGLE BOLT TO FLANGE AT EACH END OR UTILIZE MANUFACTURER'S SETTER (SUCH AS WILKINS, FEBCO, OR EQUIVALENT).
8. TEST COCK (4 REQUIRED).
9. ADJUSTABLE PIPE SUPPORT .
10. 8" X 8" X 16" CONCRETE BLOCK FILLED WITH MORTAR.
11. CONCRETE PAD FROM SUPPORT TO SUPPORT (4-INCHES DEEP X 12-INCHES WIDE).
12. CONSTRUCT 6" THICK CONCRETE BASE.

CITY OF PEORIA

STANDARD DETAIL PE-351-2

CROSS CONNECTION CONTROL 3 - INCHES & LARGER LEAD FREE REDUCED PRESSURE BACKFLOW PREVENTER



APPROVALS:

 2/14/17
CITY ENGINEER DATE

 2/14/17
PW-UTILITIES DIRECTOR DATE

NOTES:

- A. CONTACT CITY OF PEORIA ENVIRONMENTAL/INDUSTRIAL USERS DIVISION FOR LIST OF APPROVED ASSEMBLIES.
- B. THE FOUR TEST COCKS SHALL BE FITTED WITH BRASS PLUGS OR TEST COCK ADAPTERS AND CAPS. TEST COCKS SHALL BE USED FOR TESTING ONLY.
- C. INSTALLATION SHALL BE PROTECTED BY SAFETY POSTS (BOLLARDS) IF NEAR TRAFFIC AREAS PER M.A.G. STANDARD DETAIL 140.
- D. FINISHED MATERIAL UNDER BACKFLOW ASSEMBLY SHALL BE ADEQUATE TO PREVENT SUBSIDENCE OF ASSEMBLY.
- E. ASSEMBLY SHALL BE PAINTED RUST-OLEUM HIGH PERFORMANCE ENAMEL PAINT COLOR 7524838. DO NOT PAINT THE NAME PLATE OR ANY BRASS PARTS OF THE ASSEMBLY.
- F. INSPECTIONS REQUIRED FOR: PIERS, THRUSTBLOCKS, ANGLE STEEL AND/OR SETTER ASSEMBLY. (BY CITY OF PEORIA CROSS CONNECTION STAFF)
- G. BOTTOM OF LOWEST POINT ON ASSEMBLY TO BE 12-INCHES MIN. AND 30-INCHES MAX. TO ASSEMBLY CENTERLINE ABOVE CONCRETE PAD.
- H. MINIMUM CLEARANCE FROM FRONT OF TEST COCKS TO NEAREST PERMANENT SURFACE SHALL BE 12-INCHES.
- I. ASSEMBLY MUST BE INSPECTED BY CITY OF PEORIA BUILDING SAFETY DIVISION AND TESTED BY A CITY OF PEORIA RECOGNIZED TESTER.
- J. PLUMBING PERMIT REQUIRED FOR INSTALLATION.
- K. THRUST BLOCK PER MAG STANDARD DETAIL 380 IF SETTER IS NOT USED.
- L. ALL BACKFLOW PREVENTION DEVICES ARE CONSIDERED PRIVATE AND NOT MAINTAINED BY THE CITY.

CITY OF PEORIA
STANDARD DETAIL PE-352-1
CROSS CONNECTION CONTROL 2 1/2 - INCHES & SMALLER
LEAD FREE REDUCED PRESSURE BACKFLOW PREVENTER



APPROVALS:

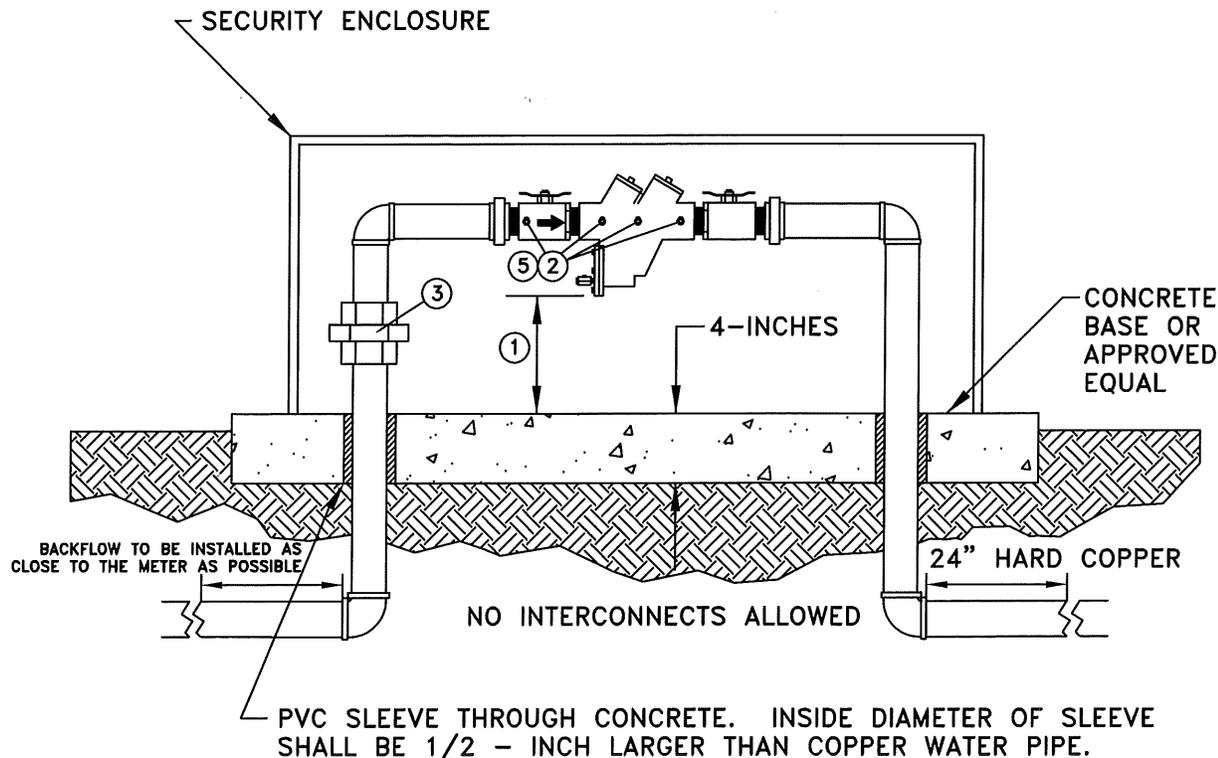
CITY ENGINEER

DATE

PW-UTILITIES DIRECTOR

DATE

OUTSIDE INSTALLATION



NOTES:

1. BOTTOM OF ASSEMBLY MUST BE AT LEAST 12" ABOVE THE SURFACE IMMEDIATELY BELOW THE RELIEF VALVE OPENING BUT NO MORE THAN 30" ABOVE CONCRETE PAD.
2. MINIMUM CLEARANCE IN FRONT OF TEST COCKS TO NEAREST PERMANENT SURFACE SHALL BE 12".
3. MINIMUM OF ONE UNION REQUIRED, TYPE "L" HARD COPPER REQUIRED.
4. ASSEMBLIES MUST BE INSPECTED BEFORE BACKFILLING BY THE CITY OF PEORIA ENVIRONMENTAL DEPARTMENT AND TESTED BY A CITY RECOGNIZED TESTER.
5. ALL TEST COCKS SHALL HAVE BRASS PLUGS OR TEST COCK ADAPTERS AND CAPS IN PLACE. TEST COCKS SHALL BE USED FOR TESTING ONLY.
6. A PLUMBING PERMIT IS REQUIRED FOR INSTALLATION.
7. ASSEMBLIES MUST BE INSTALLED TO MANUFACTURERS SPECIFICATIONS.
8. SECURITY ENCLOSURE SHALL BE GUARDSHACK ENCLOSURES - HINGED P.C. MODEL GS PAINTED TAN OR APPROVED EQUAL.
9. ASSEMBLY SHALL BE PAINTED RUST-OLEUM HIGH PERFORMANCE ENAMEL PAINT COLOR 7524838. DO NOT PAINT THE NAME PLATE OR ANY BRASS PARTS OF THE ASSEMBLY.

CITY OF PEORIA STANDARD DETAIL PE-352-2

CROSS CONNECTION CONTROL 2 1/2 - INCHES & SMALLER
LEAD FREE REDUCED PRESSURE BACKFLOW PREVENTER



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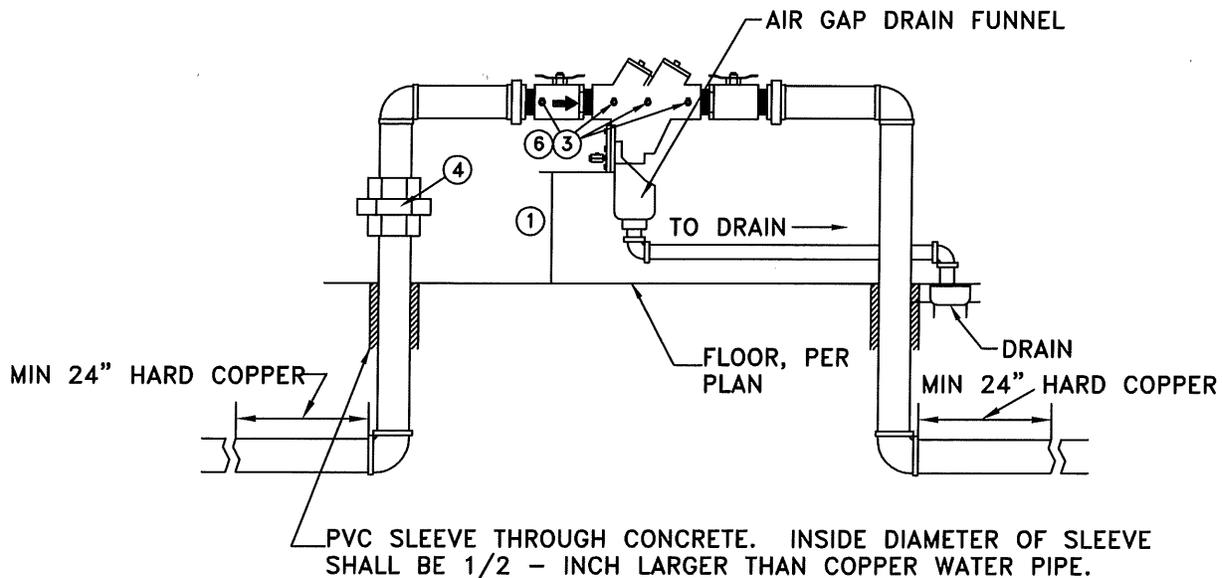
CITY ENGINEER

DATE

PW-UTILITIES DIRECTOR

DATE

INSIDE INSTALLATION



MUST HAVE DRAIN IF INSTALLED INSIDE

NOTES:

1. BOTTOM OF ASSEMBLY MUST BE AT LEAST 12" ABOVE THE FINISHED FLOOR IMMEDIATELY BELOW THE RELIEF VALVE OPENING.
2. ASSEMBLIES INSTALLED ABOVE 5' FROM THE FLOOR MUST BE ACCESSIBLE, NOT POSE A SAFETY HAZARD, AND BE APPROVED BY BUILDING SAFETY.
3. MINIMUM CLEARANCE IN FRONT OF TEST COCKS TO NEAREST PERMANENT SURFACE SHALL BE 12".
4. MINIMUM OF ONE UNION REQUIRED, TYPE "L" HARD COPPER REQUIRED.
5. ASSEMBLIES MUST BE INSPECTED BY THE CITY OF PEORIA ENVIRONMENTAL DEPARTMENT AND TESTED BY A CITY RECOGNIZED TESTER.
6. ALL TEST COCKS SHALL HAVE BRASS PLUGS OR TEST COCK ADAPTORS AND CAPS IN PLACE. TEST COCKS SHALL BE USED FOR TESTING ONLY.
7. A PLUMBING PERMIT IS REQUIRED FOR INSTALLATION.
8. CONTACT CITY OF PEORIA ENVIRONMENTAL DEPARTMENT FOR LIST OF APPROVED ASSEMBLIES.
9. ASSEMBLIES MUST BE INSTALLED TO MANUFACTURERS SPECIFICATIONS.
10. PIPING TO COMPLY TO CURRENT COP STANDARDS.
11. STAINLESS STEEL REDUCED PRESSURE BACKFLOW ASSEMBLY SHALL BE INSTALLED ON ALL CARBONATOR APPLICATIONS AND NO COPPER PIPING SHALL BE INSTALLED DOWNSTREAM OF BACKFLOW.

01/31/2017

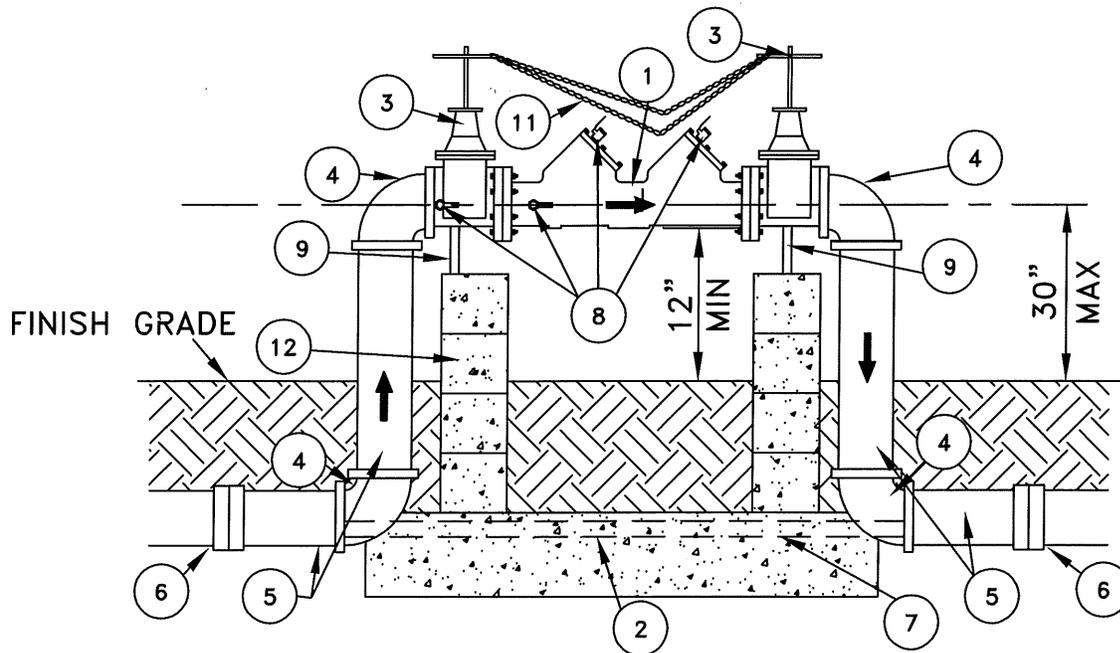
CITY OF PEORIA
STANDARD DETAIL PE-353-1
 CROSS CONNECTION CONTROL 3 - INCHES & LARGER
 LEAD FREE DOUBLE CHECK VALVE ASSEMBLY



APPROVALS:

[Signature] 2/14/17
 CITY ENGINEER DATE

[Signature] 2/14/17
 PW UTILITIES DIRECTOR DATE



LIST OF MATERIALS

1. APPROVED BACKFLOW ASSEMBLY.
2. COAT WITH COAL TAR EPOXY OR UTILIZE MANUFACTURER'S EPOXY COVERED SETTER.
3. RESILIENT SEATED GATE VALVE. O.S. & Y. (FIRE LINE CONNECTION)
4. 90° ELBOW (FLANGED D.I.P. 3-INCHES THRU 10-INCHES).
5. PIPE SPOOL (FLANGED D.I.P. 3-INCHES THRU 10-INCHES).
6. MECHANICAL JOINT
7. 3" X 3" X 1/4" STEEL ANGLE BOLT TO FLANGE AT EACH END OR UTILIZE MANUFACTURER'S SETTER (SUCH AS WILKINS, FEBCO, OR EQUIVALENT).
8. TEST COCK (4 REQUIRED)
9. ADJUSTABLE PIPE SUPPORT
10. UPDATED - PLEASE REFER TO ITEM 4.
11. CHAIN & LOCK (FIRE LINE MAY BE REQUIRED TO BE ELECTRONICALLY MONITORED, SEE P.F.D. FOR DETAILS, VALVES. CONTACT PEORIA FIRE DEPARTMENT FOR SPECIFIC REQUIREMENTS.)
12. 8" X 8" X 16" CONCRETE BLOCK FILLED WITH MORTAR
13. CONSTRUCT 6" THICK CONCRETE BASE

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CITY OF PEORIA
STANDARD DETAIL PE-353-2
CROSS CONNECTION CONTROL 3 - INCHES & LARGER
LEAD FREE DOUBLE CHECK VALVE ASSEMBLY



APPROVALS:


CITY ENGINEER 2/14/17
DATE


PW-UTILITIES DIRECTOR 2/14/17
DATE

NOTES:

- A. CONTACT CITY OF PEORIA ENVIRONMENTAL DEPARTMENT FOR LIST OF APPROVED ASSEMBLIES.
- B. THE FOUR TEST COCKS SHALL BE FITTED WITH BRASS PLUGS OR TEST COCK ADAPTERS AND CAPS. TEST COCKS SHALL BE USED FOR TESTING ONLY.
- C. INSTALLATION SHALL BE PROTECTED BY SAFETY POSTS (BOLLARDS) IN TRAFFIC AREAS PER M.A.G. STANDARD DETAIL 140.
- D. FINISHED MATERIAL UNDER BACKFLOW ASSEMBLY SHALL BE ADEQUATE TO PREVENT SUBSIDENCE OF ASSEMBLY.
- E. ASSEMBLY SHALL BE PAINTED TAN OR COLOR TO MATCH BACKGROUND. DO NOT PAINT THE NAME PLATE OR ANY BRASS PARTS OF THE ASSEMBLY.
- F. INSPECTIONS REQUIRED FOR: PIERS, THRUSTBLOCKS, ANGLE STEEL AND/OR SETTER ASSEMBLY.
- G. BOTTOM OF LOWEST POINT ON ASSEMBLY TO BE 12-INCHES MIN. AND 30-INCHES MAX. TO ASSEMBLY CENTERLINE ABOVE CONCRETE PAD.
- H. MINIMUM CLEARANCE FROM FRONT OF TEST COCKS TO NEAREST PERMANENT SURFACE SHALL BE 12-INCHES.
- I. ASSEMBLY MUST BE INSPECTED BY CITY OF PEORIA ENVIRONMENTAL DEPARTMENT AND TESTED BY A CITY OF PEORIA RECOGNIZED TESTER.
- J. PLUMBING PERMIT REQUIRED FOR INSTALLATION.
- K. THRUST BLOCK PER MAG STANDARD DETAIL 380 IF SETTER IS NOT USED.
- L. ALL BACKFLOW PREVENTION DEVICES ARE CONSIDERED PRIVATE AND NOT MAINTAINED BY THE CITY.

CITY OF PEORIA

STANDARD DETAIL PE-355

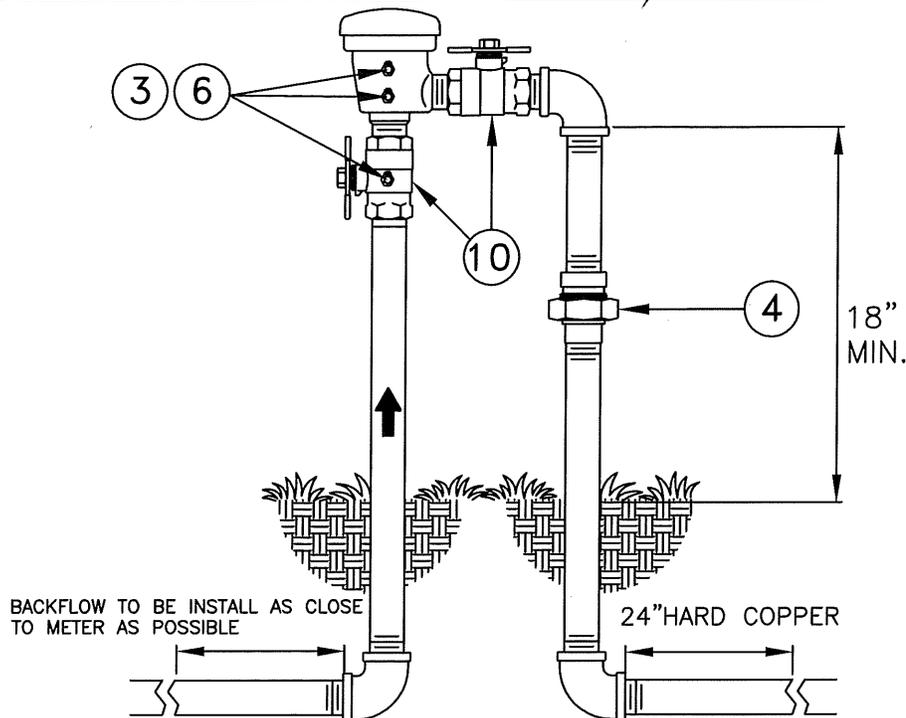
LEAD FREE PRESSURE VACUUM BREAKER ASSEMBLY RESIDENTIAL



APPROVALS:

[Signature] 2/14/17
CITY ENGINEER DATE

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BACKFLOW TO BE INSTALL AS CLOSE TO METER AS POSSIBLE

24" HARD COPPER

NOTES:

1. BOTTOM OF ASSEMBLY MUST BE AT LEAST 12 - INCHES ABOVE ALL DOWNSTREAM PIPING .
2. ASSEMBLIES INSTALLED ABOVE 5 - FEET FROM THE FLOOR MUST BE ACCESSIBLE NOT POSE A SAFETY HAZARD, AND BE APPROVED BY BUILDING SAFETY.
3. MINIMUM CLEARANCE IN FRONT OF TEST COCKS TO NEAREST PERMANENT SURFACE SHALL BE 12 - INCHES.
4. MINIMUM OF ONE UNION REQUIRED, TYPE "L" HARD COPPER REQUIRED.
5. ASSEMBLIES MUST BE INSPECTED BY THE CITY OF PEORIA BUILDING SAFETY DIVISION AND TESTED BY A CITY RECOGNIZED TESTER.
6. ALL TEST COCKS SHALL HAVE BRASS PLUGS OR TEST COCK ADAPTERS AND CAPS IN PLACE. TEST COCKS SHALL BE USED FOR TESTING ONLY.
7. PRESSURE VACUUM BREAKERS SHALL NOT BE USED FOR COMMERCIAL IRRIGATION SYSTEMS.
8. A PLUMBING PERMIT IS REQUIRED FOR INSTALLATION.
9. ASSEMBLIES MUST BE INSTALLED AS DESIGNED AND CONSTRUCTED BY THE MANUFACTURER.
10. BALL VALVES ARE REQUIRED UPSTREAM AND DOWNSTREAM OF THE ASSEMBLY.