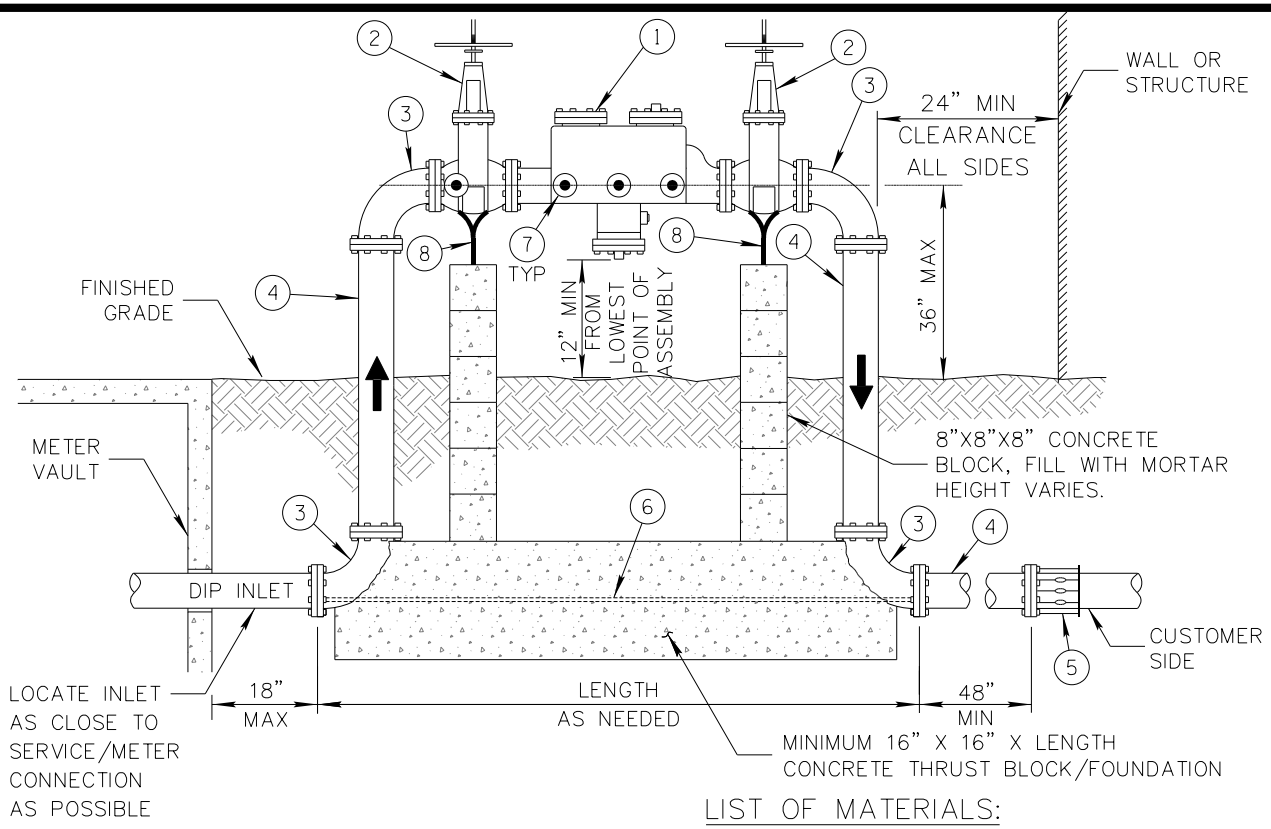
REVISED 6/23/25



NOTES:

1. BACKFLOW ASSEMBLIES MUST BE TESTED BY A CERTIFIED TESTER THAT IS RECOGNIZED BY THE CITY OF SCOTTSDALE.
2. BACKFLOW PREVENTERS SHALL BE PAINTED LIGHT TAN OR A COLOR TO MATCH THE BUILDING. DO NOT PAINT THE NAME PLATE OR ANY BRASS OR STAINLESS STEEL PARTS ON THE ASSEMBLY.
3. FOR BACKFLOW PREVENTERS REQUIRING GUARD POSTS SEE DETAIL 2356. BACKFLOW PREVENTERS ENCLOSED BY SCREENING SHALL MAINTAIN A 24 INCH CLEARANCE AROUND THE ASSEMBLY.
4. FINISHED GRADE UNDERNEATH THE BACKFLOW PREVENTER SHALL BE AT 95% COMPACTION.
5. BACKFLOW PREVENTERS ON FIRE LINES REQUIRE SHUT-OFF VALVES TO BE LOCKED IN THE OPEN POSITION. TAMPER SWITCHES ON THE SHUT-OFF VALVES MAY BE REQUIRED. CONTACT CITY OF SCOTTSDALE PLAN REVIEW, FIRE DEPT.
6. CALL FOR UNDERGROUND INSPECTION BEFORE BACKFILLING TRENCH.
7. APPROVALS FOR BACKFLOW ASSEMBLIES MUST HAVE SEAL APPROVAL FROM THE AMERICAN SOCIETY OF SANITATION ENGINEERS. BACKFLOW ASSEMBLIES MUST BE APPROVED BY THE USC FOUNDATION FOR CROSS-CONNECTION CONTROL. BACKFLOW ASSEMBLIES INSTALLED ON FIRE SUPRESSION SYSTEMS MUST ALSO HAVE APPROVAL FROM UNDERWRITERS LABORATORIES AND/OR FACTORY MUTUAL RESEARCH CORPORATION.

LIST OF MATERIALS:

(1) APPROVED LEAD-FREE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY.

(2) RESILIENT SEATED GATE VALVE.
- OS & Y (FIRE LINE CONNECTION)
- NON-RISING STEM (NON FIRE LINE)

(3) 90° ELLBOW, FLANGED DIP, 3" THROUGH 10", MEGA LUG OR APPROVED EQUAL MAY BE USED ON UNDERGROUND JOINTS.

(4) DIP PIPE SPOOL, 3" THROUGH 10", MEGA LUG OR APPROVED EQUAL MAY BE USED ON UNDERGROUND JOINTS.

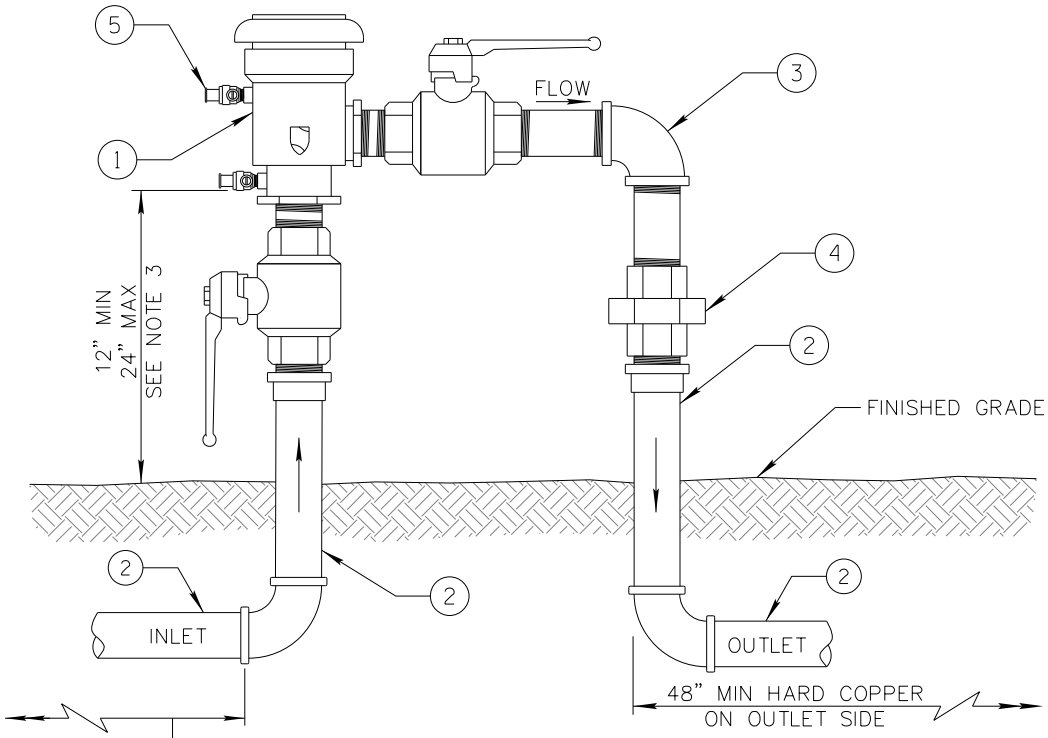
(5) FLANGED ADAPTER (WHEN REQUIRED)

(6) ¾" ZINC COATED THREADED ROD, (⅝" ROD FOR 3" TO 4" SIZES), BOLT TO FLANGES AS SHOWN, ENCASED IN CONCRET FOUNDAITON, TYP BOTH SIDES.

(7) TEST COCKS WITH BRASS PLUGS OR ADAPTORS WITH METAL CAPS INSTALLED (4 REQUIRED).

(8) ADJUSTABLE METAL PIPE SUPPORTS AND CONCRETE BLOCK SUPPORTS WITH 1" ADJUSTING ROD AND NUT ON ASSEMBLIES 4" AND LARGER. INSTALL ABOVE GRADE.

DETAIL NO. 2353	City of Scottsdale Standard Details	APPROVED BY: Scottsdale Standards & Specifications Committee	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3 INCHES THROUGH 10 INCHES	DETAIL NO. 2353



LOCATE INLET AS CLOSE TO SERVICE/METER CONNECTION AS POSSIBLE. NO MORE THAN 18" BETWEEN INLET AND METER

NOTES:

1. BACKFLOW ASSEMBLIES MUST BE TESTED BY A CERTIFIED TESTER THAT IS RECOGNIZED BY THE CITY OF SCOTTSDALE.
2. PRESSURE VACUUM BREAKERS MUST BE INSTALLED AT LEAST 12" ABOVE ALL DOWNSTREAM PIPING. IF BACKPRESSURE IS PRESENT, A REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY MUST BE UTILIZED. SEE DETAIL 2354.
3. IF, WHEN MEETING THE REQUIREMENT LISTED IN NOTE 2, THE HEIGHT DISTANCE EXCEEDS 24 INCHES, A REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY MUST BE UTILIZED. SEE DETAIL 2354.
4. COPPER FITTINGS SHALL BE CONNECTED WITH LEAD FREE SOLDER JOINTS OR APPROVED EQUAL.
5. FINISHED GRADE UNDERNEATH THE BACKFLOW PREVENTER SHALL BE AT 95% COMPACTION.
6. ALL NIPPLES TO BE COPPER OR BRASS.
7. INLET / OUTLET PIPING MUST BE TYPE K HARD COPPER.
8. CALL FOR UNDERGROUND INSPECTION BEFORE BACKFILLING TRENCH.
9. APPROVALS FOR BACKFLOW ASSEMBLIES MUST HAVE SEAL APPROVAL FROM THE AMERICAN SOCIETY OF SANITATION ENGINEERS. BACKFLOW ASSEMBLIES MUST BE APPROVED BY THE USC FOUNDATION FOR CROSS-CONNECTION CONTROL.

LIST OF MATERIALS:

(1) APPROVED PRESSURE VACUUM BREAKER ASSEMBLY, BALL VALVES INCLUDED.

(2) TYPE L HARD COPPER, ½" THROUGH 2".

(3) 90° ELLBOW, COPPER, ½" THROUGH 2".

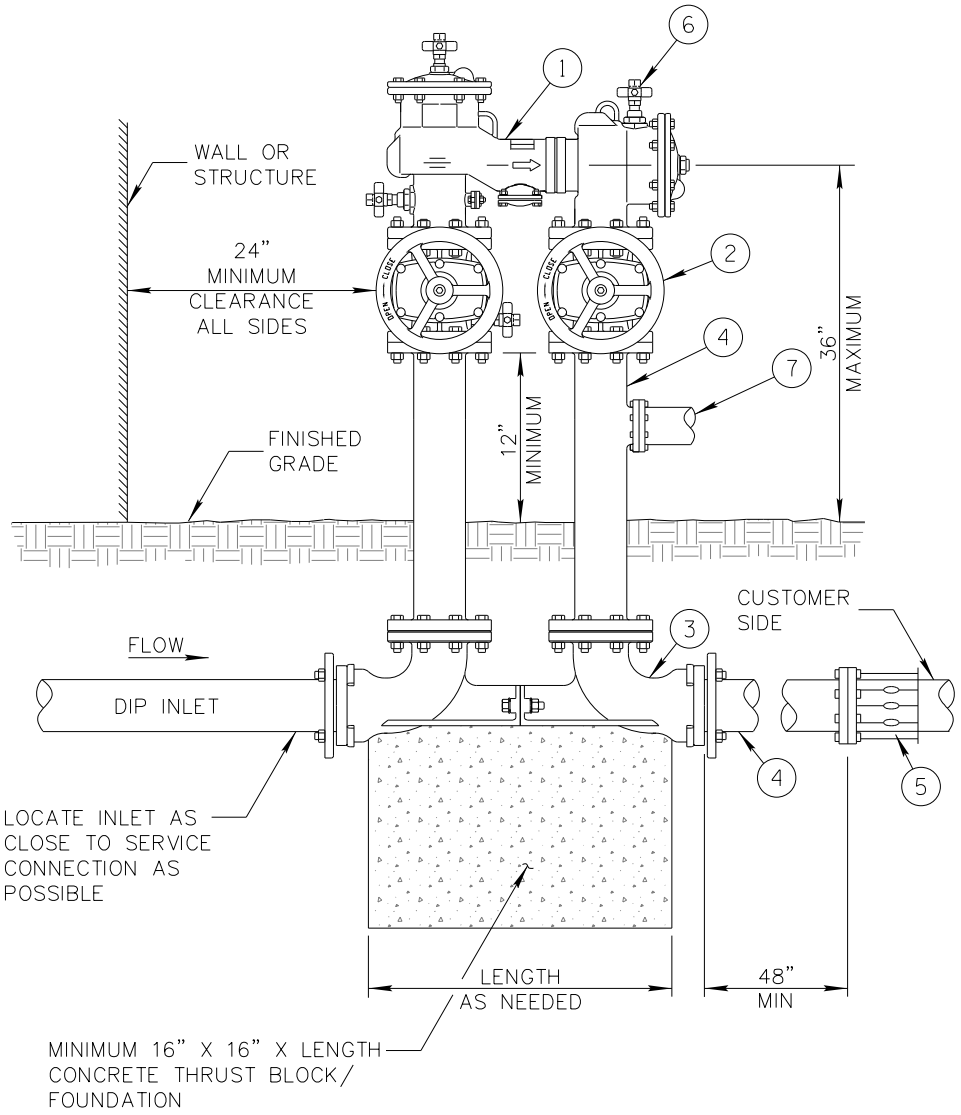
(4) PIPE UNION, BRASS OR COPPER.

(5) TEST COCKS WITH BRASS PLUGS OR ADAPTORS WITH METAL CAPS INSTALLED. (2 REQUIRED)

REVISED 6/23/25

DETAIL NO. 2355	City of Scottsdale Standard Details	APPROVED BY: Scottsdale Standards & Specifications Committee	PRESSURE VACUUM BREAKER ASSEMBLY FOR ASSEMBLIES 1/2 INCH THROUGH 2 INCHES	DETAIL NO. 2355

REVISED 6/23/25



LIST OF MATERIALS:

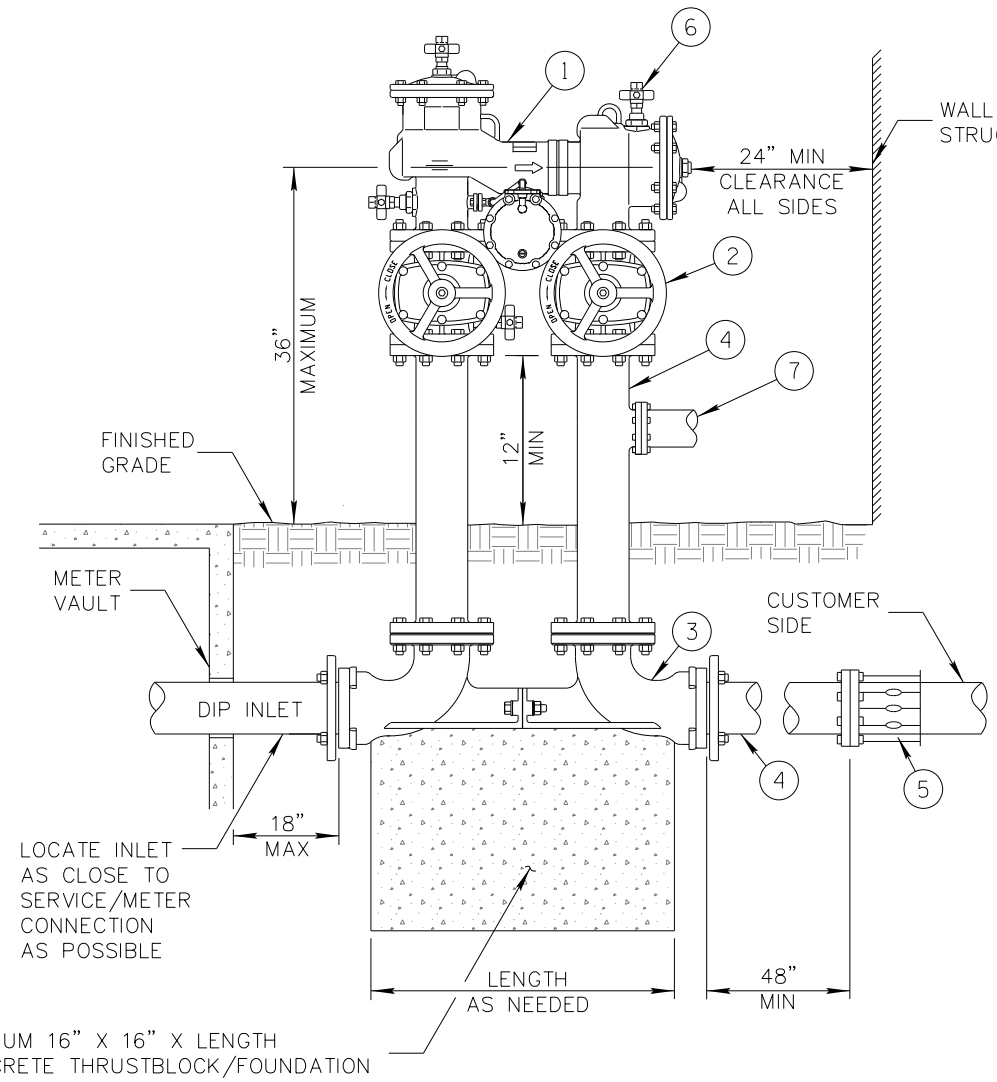
1. APPROVED N SHAPE LEAD–FREE DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY.
2. RESILIENT SEATED GATE VALVE.
   - OS & Y (FIRE LINE CONNECTION)
   - NON–RISING STEM (NON FIRE LINE)
3. VALVE SETTERS, FUSION EPOXY COATED DUCTILE IRON, PLATED NUTS AND BOLTS (2 REQUIRED).
4. PIPE SPOOL, FLANGED DIP 3" THROUGH 10", MEGA LUG OR APPROVED EQUAL MAY BE USED ON UNDERGROUND JOINTS.
5. FLANGED ADAPTER (WHEN REQUIRED).
6. TEST COCKS WITH BRASS PLUGS OR ADAPTORS WITH METAL CAPS INSTALLED (4 REQUIRED).
7. OPTIONAL FIRE DEPARTMENT CONNECTION (FDC) – SEE COS STD DETAIL 2374.

NOTES:

1. BACKFLOW ASSEMBLIES MUST BE TESTED BY A CERTIFIED TESTER THAT IS RECOGNIZED BY THE CITY OF SCOTTSDALE.
2. BACKFLOW PREVENTERS SHALL BE PAINTED LIGHT TAN OR A COLOR TO MATCH THE BUILDING. DO NOT PAINT THE NAME PLATE OR ANY BRASS OR STAINLESS STEEL PARTS ON THE ASSEMBLY.
3. FOR BACKFLOW PREVENTERS REQUIRING GUARD POSTS SEE DETAIL 2356. BACKFLOW PREVENTERS ENCLOSED BY SCREENING SHALL MAINTAIN A 24 INCH CLEARANCE AROUND THE ASSEMBLY.
4. FINISHED GRADE UNDERNEATH THE BACKFLOW PREVENTER SHALL BE AT 95% COMPACTION.
5. BACKFLOW PREVENTERS ON FIRE LINES REQUIRE SHUT–OFF VALVES TO BE LOCKED IN THE OPEN POSITION. TAMPER SWITCHES ON THE SHUT–OFF VALVES MAY BE REQUIRED. CONTACT CITY OF SCOTTSDALE PLAN REVIEW, FIRE DEPT.
6. CALL FOR UNDERGROUND INSPECTION BEFORE BACKFILLING TRENCH.
7. APPROVALS FOR BACKFLOW ASSEMBLIES MUST HAVE SEAL APPROVAL FROM THE AMERICAN SOCIETY OF SANITATION ENGINEERS. BACKFLOW ASSEMBLIES MUST BE APPROVED BY THE USC FOUNDATION FOR CROSS–CONNECTION CONTROL. BACKFLOW ASSEMBLIES INSTALLED ON FIRE SUPPRESSION SYSTEMS MUST ALSO HAVE APPROVAL FROM UNDERWRITERS LABORATORIES AND/OR FACTORY MUTUAL RESEARCH CORPORATION.

DETAIL NO. 2359	City of Scottsdale Standard Details	APPROVED BY: Scottsdale Standards & Specifications Committee	N SHAPED DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3 INCHES THROUGH 10 INCHES	DETAIL NO. 2359

REVISED 6/23/25



LIST OF MATERIALS:

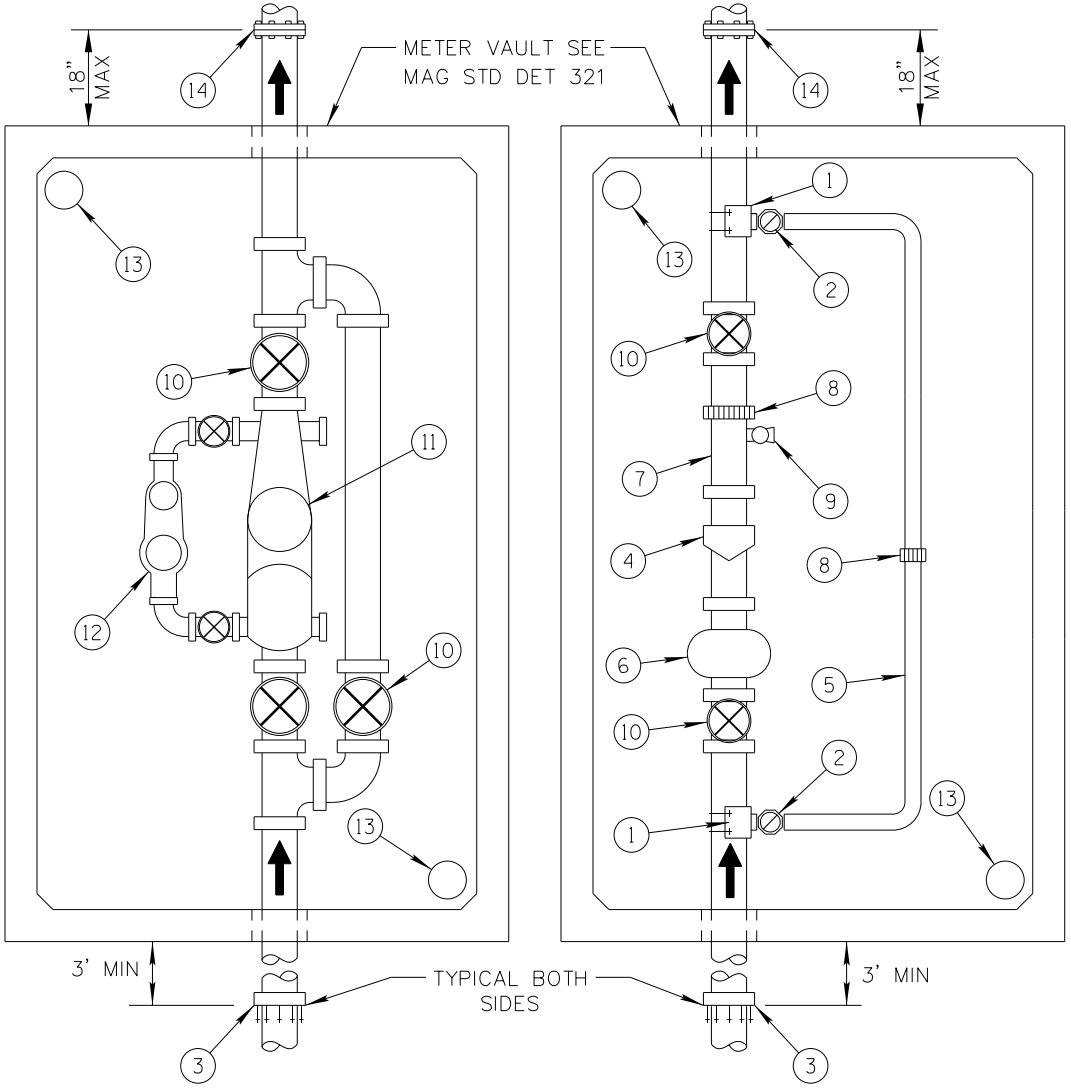
1. APPROVED N SHAPE LEAD–FREE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY.
2. RESILIENT SEATED GATE VALVE.
   - OS & Y (FIRE LINE CONNECTION)
   - NON–RISING STEM (NON FIRE LINE)
3. VALVE SETTERS, FUSION EPOXY COATED DUCTILE IRON, PLATED NUTS AND BOLTS (2 REQUIRED).
4. PIPE SPOOL, FLANGED DIP 3" THROUGH 10", MEGA LUG OR APPROVED EQUAL MAY BE USED ON UNDERGROUND JOINTS.
5. FLANGED ADAPTER (WHEN REQUIRED).
6. TEST COCKS WITH BRASS PLUGS OR ADAPTORS WITH METAL CAPS INSTALLED (4 REQUIRED).
7. OPTIONAL FIRE DEPARTMENT CONNECTION (FDC) – SEE COS STD DETAIL 2374.

NOTES:

1. BACKFLOW ASSEMBLIES MUST BE TESTED BY A CERTIFIED TESTER THAT IS RECOGNIZED BY THE CITY OF SCOTTSDALE.
2. BACKFLOW PREVENTERS SHALL BE PAINTED LIGHT TAN OR A COLOR TO MATCH THE BUILDING. DO NOT PAINT THE NAME PLATE, ANY BRASS, OR STAINLESS STEEL PARTS ON THE ASSEMBLY.
3. FOR BACKFLOW PREVENTERS REQUIRING GUARD POSTS SEE DETAIL 2356. BACKFLOW PREVENTERS ENCLOSED BY SCREENING SHALL MAINTAIN A 24 INCH CLEARANCE AROUND THE ASSEMBLY.
4. FINISHED GRADE UNDERNEATH THE BACKFLOW PREVENTER SHALL BE AT 95% COMPACTION.
5. BACKFLOW PREVENTERS ON FIRE LINES REQUIRE SHUT–OFF VALVES TO BE LOCKED IN THE OPEN POSITION. TAMPER SWITCHES ON THE SHUT–OFF VALVES MAY BE REQUIRED. CONTACT CITY OF SCOTTSDALE PLAN REVIEW, FIRE DEPT.
6. CALL FOR UNDERGROUND INSPECTION BEFORE BACKFILLING TRENCH.
7. APPROVALS FOR BACKFLOW ASSEMBLIES MUST HAVE SEAL APPROVAL FROM THE AMERICAN SOCIETY OF SANITATION ENGINEERS. BACKFLOW ASSEMBLIES MUST BE APPROVED BY THE USC FOUNDATION FOR CROSS–CONNECTION CONTROL. BACKFLOW ASSEMBLIES INSTALLED ON FIRE SUPPRESSION SYSTEMS MUST ALSO HAVE APPROVAL FROM UNDERWRITERS LABORATORIES AND/OR FACTORY MUTUAL RESEARCH CORPORATION.

DETAIL NO.	City of Scottsdale Standard Details	APPROVED BY:	N SHAPED REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3 INCHES THROUGH 10 INCHES	DETAIL NO.
2360		Scottsdale Standards & Specifications Committee		2360

REVISED 5/27/25



COMBINATION DOMESTIC/ FIRE LINE METER

COMPOUND/TURBINE METER

KEY NOTES:

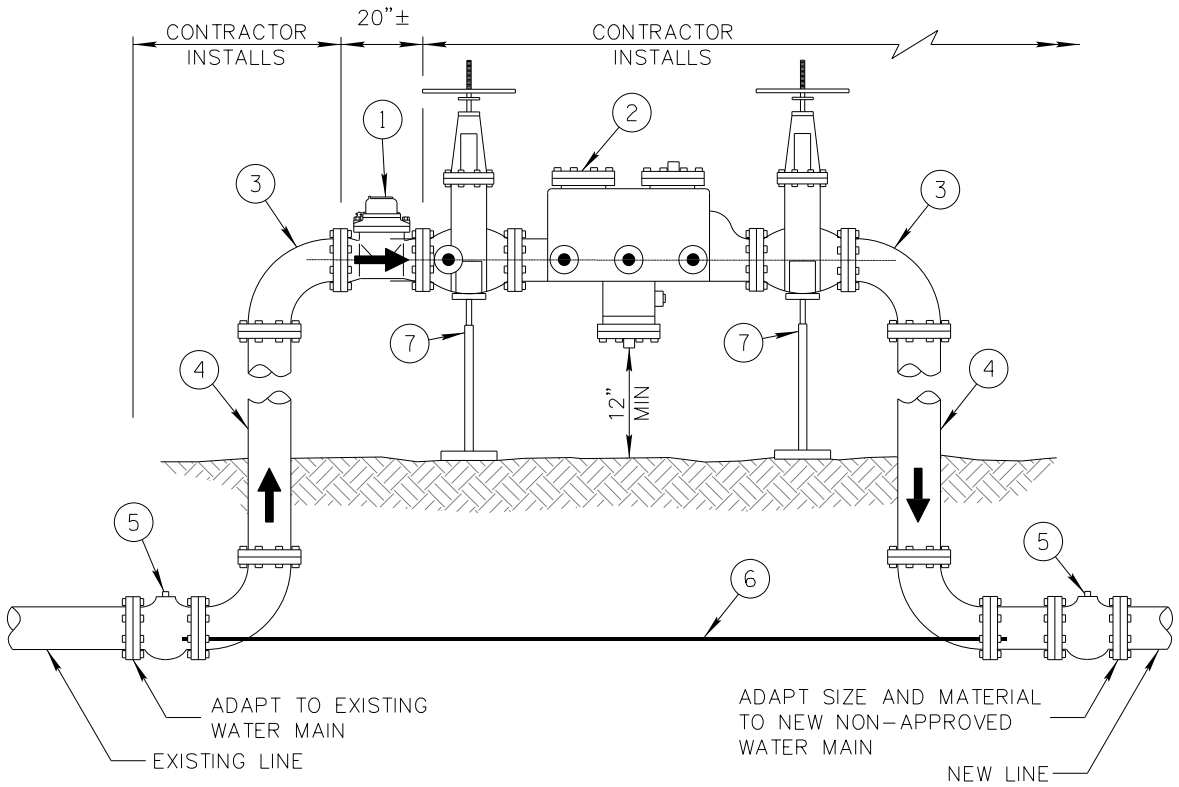
1. DOUBLE STRAP BRONZE SERVICE SADDLE, OR FLANGED X FLANGED TEE WITH FLANGED X FLANGED VALVE FOR SIZES 3" OR LARGER.
2. CORPORATION STOP, 2"(BALL TYPE), OR RESILIENT WEDGE GATE VALVE WITH NON-RISING STEM HAND WHEEL OPERATOR FOR 3" OR LARGER.
3. ADAPTOR, FLANGED TO MECHANICAL JOINT FOR AC PIPE.
4. TURBINE (HIGH FLOW) OR COMPOUND METER, SEE NOTE 4 BELOW.
5. 2" RIDGED TYPE "K" COPPER BY-PASS LINE, 3" OR LARGER TO BE DUCTILE IRON. NOT LESS THAN ONE PIPE SIZE SMALLER THAN METER IN NOTE 4.
6. STRAINER, SUPPLIED WITH METER.
7. FLANGED SPOOL, (3 PIPE DIAMETERS IN LENGTH, MIN).
8. PROVIDE VICTAULIC COUPLING OR APPROVED EQUAL FOR ALL LINES 3" OR LARGER.
9. 2" THREADED OUTLET AND BALL VALVE. NOT NEEDED IF VERTICAL TEST VALVE IS PROVIDED ON METER.
10. RESILIENT WEDGE GATE VALVE, FLANGED, WITH HAND WHEEL, OPEN LEFT, WITH NON-RISING STEM.
11. TURBINE (HIGH FLOW) OR COMPOUND METER, SEE NOTE 4 BELOW.
12. 2" TURBINE METER: SENSUS "W-160" OR HERSEY "MHR" OR NEPTUNE TRIDENT TURBINE.
13. 3"ø AIR VENT, SEE SHEET 1 OF 2.
14. LOCATE BACKFLOW PREVENTION ASSEMBLY AS CLOSE TO METER AS POSSIBLE, 18" MAXIMUM SEPARATION BETWEEN VAULT AND INLET.

NOTES:

1. FOR LARGER METERS SPECIAL VAULT DESIGN IS REQUIRED.
2. USE OF REMOTE READING DEVICE AT OPTION OF UTILITY.
3. AN APPROVED BACKFLOW PREVENTION ASSEMBLY SHALL BE REQUIRED DOWNSTREAM OF THE WATER METER. CONTACT WATER RESOURCES, CROSS-CONNECTION CONTROL, FOR SPECIFIC INFORMATION.
4. METER TO BE PROVIDED BY CITY UPON PAYMENT OF FEES.

DETAIL NO. 2345-2	City of Scottsdale Standard Details	APPROVED BY: Scottsdale Standards & Specifications Committee	3", 4", & 6" WATER METER	DETAIL NO. 2345-2

REVISED 5/19/25



NOTES:

1. CONTRACTOR TO SUPPLY AND INSTALL ABOVE GROUND PIPING AND FITTINGS TO ACCOMODATE 3" METER, BACKFLOW PREVENTER AND 2 – 90° ELLBOWS.
2. CONTRACTOR TO REMOVE PIPING AND FITTINGS AFTER ACCEPTANCE OF NEW WATER MAIN AND COMPLETE CONNECTION AS PER MAG STANDARDS.
3. APPROVALS FOR BACKFLOW ASSEMBLIES MUST HAVE SEAL APPROVAL FROM THE AMERICAN SOCIETY OF SANITATION ENGINEERS. BACKFLOW ASSEMBLIES MUST BE APPROVED BY THE USC FOUNDATION FOR CROSS-CONNECTION CONTROL. BACKFLOW ASSEMBLIES INSTALLED ON FIRE SUPRESSION SYSTEMS MUST ALSO HAVE APPROVAL FROM UNDERWRITERS LABORATORIES AND OR FACTORY MUTUAL RESEARCH CORPORATION.
4. ANY WATER LINE THAT IS GREATER THAN 300 FEET WILL REQUIRE A TEMPORARY CONSTRUCTION METER. WATER LINES LESS THAN 300 FEET WILL NOT REQUIRE A CONSTRUCTION METER BUT WILL STILL BE SUBJECT TO BACTERIAL TESTING.
5. CITY INSPECTOR TO DETERMINE READINESS FOR METER PRIOR TO CONTACTING WATER RESOURCES FOR METER SETTING. CONTRACTOR TO SUPPLY TRANSMITTAL NUMBER TO CITY INSPECTOR. CITY INSPECTOR TO NOTIFY THE WATER RESOURCES DEPARTMENT WHEN METER IS READY FOR INSTALLATION.
6. AFTER INSTALLATION, REDUCED PRESSURE PRINCIPLE BACKFLOW ASSEMBLIES MUST BE TESTED BY A CERTIFIED TESTER THAT IS RECOGNIZED BY THE CITY OF SCOTTSDALE. A COPY OF TEST MUST BE PROVIDED TO THE CROSS-CONNNECTION CONTROL DEPTARTMENT.

LIST OF MATERIALS

(1) 3" TURBINE CONSTRUCTION METER WITH 3" FLANGES, SUPPLIED BY CITY.

(2) 3" APPROVED LEAD-FREE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY, SUPPLIED BY CONTRACTOR.

(3) 3" FLANGED DUCTILE IRON 90° ELL, SUPPLIED BY CONTRACTOR.

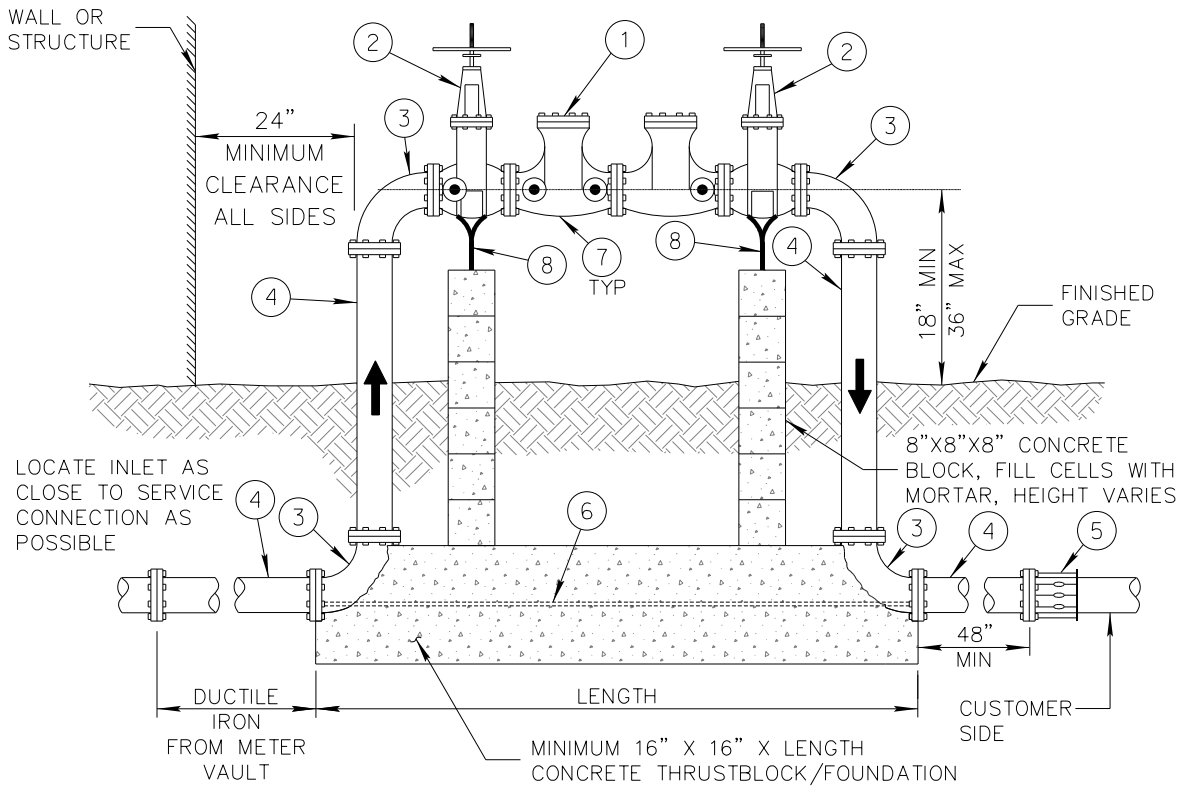
(4) 3" DUCTILE IRON SPOOL.

(5) LINE VALVES SHALL BE WITHIN 20' UPSTREAM AND DOWNSTREAM OF FLOW METER OR AS APPROVED BY THE COS, AND SHALL REMAIN IN-PLACE AFTER REMOVAL OF TEMPORARY METER.

(6) ¾" DIA ZINC COATED THREADED ROD.

(7) ADJUSTABLE METAL PIPE SUPPORT (REQUIRED).

DETAIL NO. 2346	City of Scottsdale Standard Details	APPROVED BY: Scottsdale Standards & Specifications Committee	TEMPORARY CONSTRUCTION METER FOR NEW MAINS	DETAIL NO. 2346



REVISED 5/19/25

NOTES:

1. BACKFLOW ASSEMBLIES MUST BE TESTED BY A CERTIFIED TESTER THAT IS RECOGNIZED BY THE CITY OF SCOTTSDALE.
2. BACKFLOW PREVENTERS SHALL BE PAINTED LIGHT TAN OR A COLOR TO MATCH THE BUILDING. DO NOT PAINT THE NAME PLATE OR ANY STAINLESS STEEL PARTS ON THE ASSEMBLY.
3. FOR BACKFLOW PREVENTERS REQUIRING GUARD POSTS SEE DETAIL 2356. BACKFLOW PREVENTERS ENCLOSED BY SCREENING SHALL MAINTAIN A 24-INCH CLEARANCE AROUND THE ASSEMBLY.
4. FINISHED GRADE UNDERNEATH THE BACKFLOW PREVENTER SHALL BE AT 95% COMPACTION.
5. BACKFLOW PREVENTERS ON FIRE LINES REQUIRE SHUT-OFF VALVES TO BE LOCKED IN THE OPEN POSITION. TAMPER SWITCHES ON THE SHUT-OFF VALVES MAY BE REQUIRED. CONTACT CITY OF SCOTTSDALE PLAN REVIEW, FIRE DEPT.
6. CALL FOR UNDERGROUND INSPECTION BEFORE BACK FILLING TRENCH.
7. VERTICAL INSTALLATIONS OF ASSEMBLIES ON FIRE SPRINKLER SYSTEMS ARE ALLOWED USING ASSEMBLIES APPROVED FOR USE IN THE VERTICAL POSITION ON FIRE SYSTEMS. INSTALL PER STD DETAIL 2368 AND 2369.
8. APPROVALS FOR BACKFLOW ASSEMBLIES MUST HAVE SEAL APPROVAL FROM THE AMERICAN SOCIETY OF SANITATION ENGINEERS. BACKFLOW ASSEMBLIES MUST BE APPROVED BY THE USC FOUNDATION FOR CROSS-CONNECTION CONTROL. BACKFLOW ASSEMBLIES INSTALLED ON FIRE SUPPRESSION SYSTEMS MUST ALSO HAVE APPROVAL FROM UNDERWRITERS LABORATORIES AND/OR FACTORY MUTUAL RESEARCH CORPORATION.

LIST OF MATERIALS:

(1) APPROVED LEAD-FREE DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY.

(2) RESILIENT SEATED GATE VALVE.
- OS & Y (FIRE LINE CONNECTION)
- NON-RISING STEM (NON FIRE LINE)

(3) 90° ELLBOW, FLANGED DIP 3" THROUGH 10", MEGA LUG OR APPROVED EQUAL MAY BE USED ON UNDERGROUND JOINTS.

(4) PIPE SPOOL, FLANGED DIP 3" THROUGH 10", MEGA LUG OR APPROVED EQUAL MAY BE USED ON UNDERGROUND JOINTS.

(5) FLANGED ADAPTER (WHEN REQUIRED)

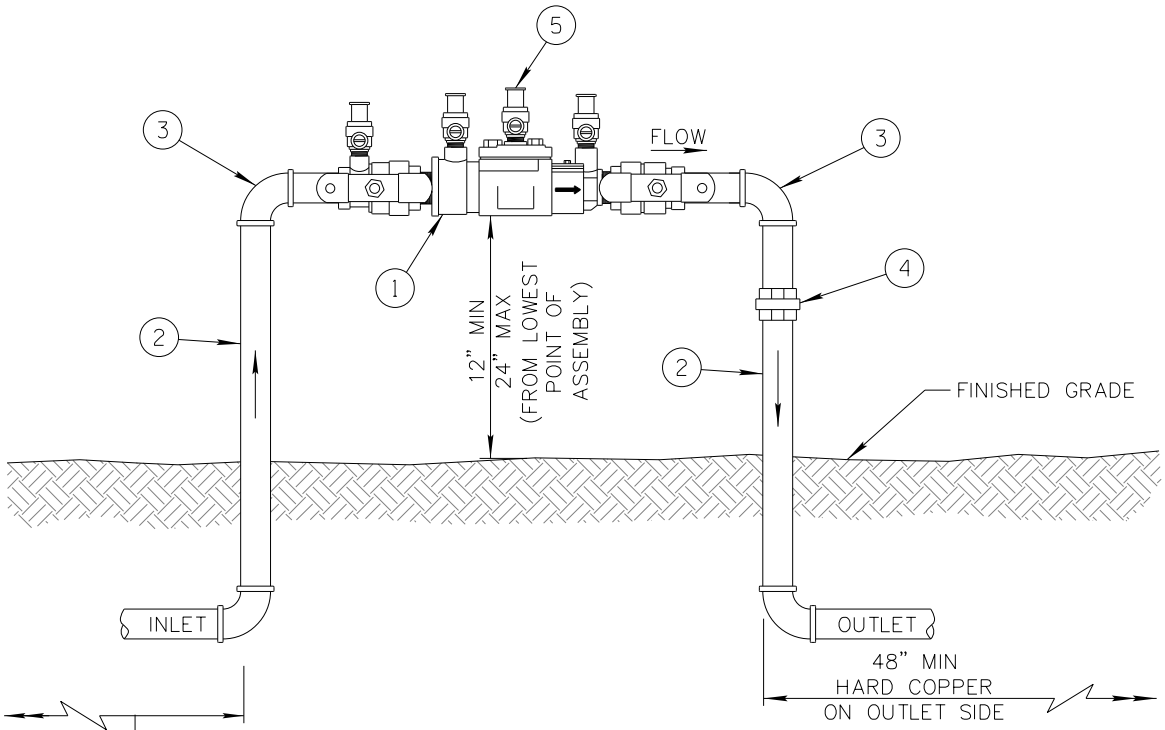
(6) ¾" ZINC COATED THREADED ROD, (⅝" ROD ON 3" TO 4" SIZES), BOLT TO FLANGES AS SHOWN, TYPICAL BOTH SIDES.

(7) TEST COCKS WITH BRASS PLUGS OR ADAPTORS WITH METAL CAPS INSTALLED. (4 REQUIRED)

(8) ADJUSTABLE METAL PIPE SUPPORTS AND CONCRETE BLOCK SUPPORTS WITH 1" ADJUSTING ROD AND NUT ON ASSEMBLIES 4" AND LARGER. INSTALL ABOVE GRADE.

DETAIL NO. 2351	City of Scottsdale Standard Details	APPROVED BY: Scottsdale Standards & Specifications Committee	DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3 INCHES THROUGH 10 INCHES	DETAIL NO. 2351

REVISED 5/28/25



LOCATE INLET AS CLOSE TO SERVICE /METER CONNECTION AS POSSIBLE. NO MORE THAN 18" BETWEEN INLET AND METER

LIST OF MATERIALS:

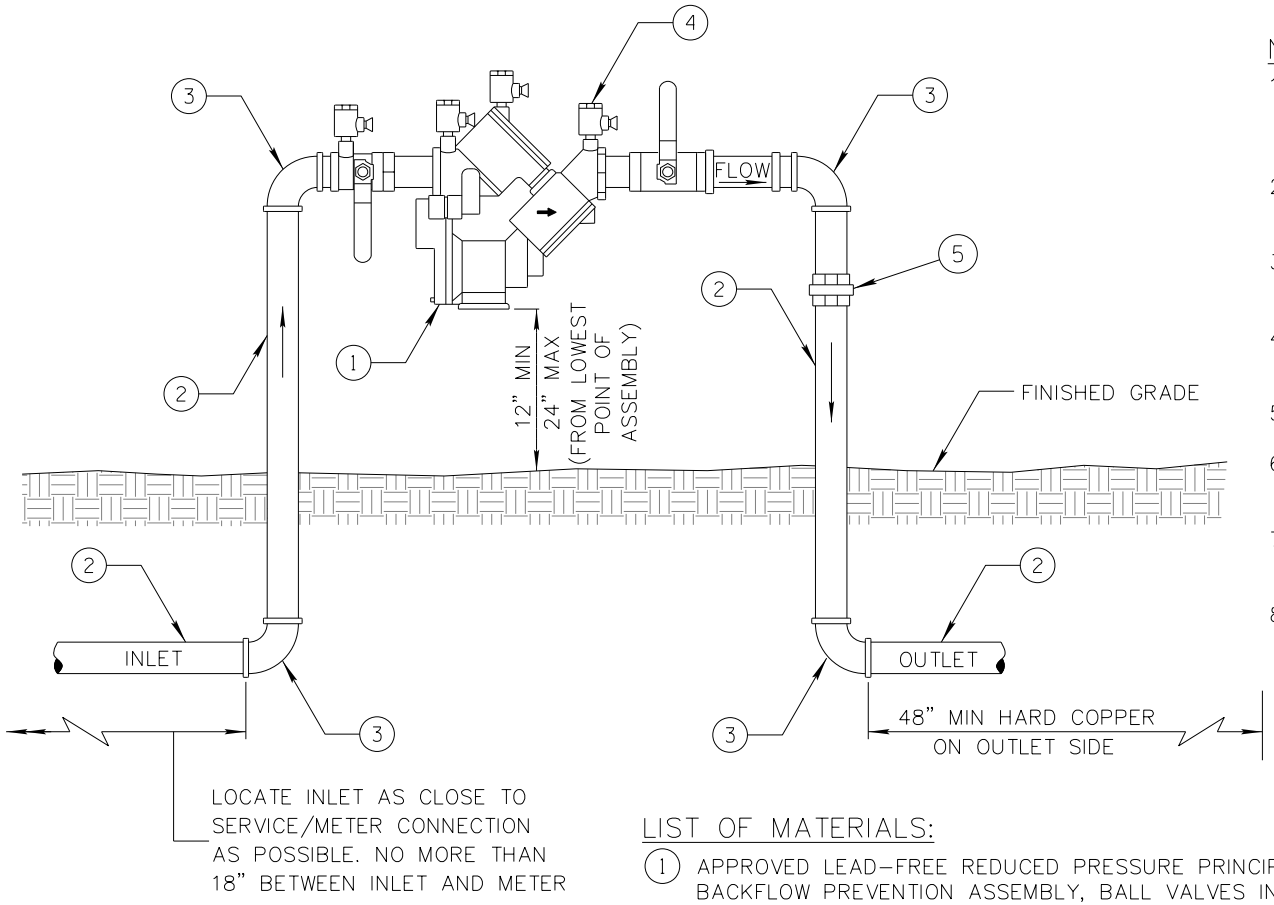
1. APPROVED LEAD–FREE DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY, BALL VALVES INCLUDED.
2. TYPE L HARD COPPER, ¾" THROUGH 2½".
3. 90° ELLBOW, COPPER, ¾" THROUGH 2½".
4. PIPE UNION, BRASS OR COPPER.
5. TEST COCKS WITH BRASS PLUGS OR ADAPTORS WITH METAL CAPS INSTALLED (4 REQUIRED).

NOTES:

1. BACKFLOW ASSEMBLIES MUST BE TESTED BY A CERTIFIED TESTER THAT IS RECOGNIZED BY THE CITY OF SCOTTSDALE.
2. COPPER FITTINGS SHALL BE CONNECTED WITH LEAD–FREE SOLDER JOINTS OR APPROVED EQUAL.
3. FINISHED GRADE UNDERNEATH THE BACKFLOW PREVENTER SHALL BE AT 95% COMPACTION.
4. ALL NIPPLES TO BE COPPER OR BRASS.
5. INLET / OUTLET PIPING MUST BE TYPE K HARD COPPER.
6. CALL FOR UNDERGROUND INSPECTION BEFORE BACKFILLING TRENCH.
7. VERTICAL INSTALLATIONS OF ASSEMBLIES ON FIRE SPRINKLER SYSTEMS ARE ALLOWED USING ASSEMBLIES APPROVED FOR USE IN THE VERTICAL POSITION ON FIRE SYSTEMS. INSTALL PER STD DETAIL 2368 AND 2369.
8. APPROVALS FOR BACKFLOW ASSEMBLIES MUST HAVE SEAL APPROVAL FROM THE AMERICAN SOCIETY OF SANITATION ENGINEERS. BACKFLOW ASSEMBLIES MUST BE APPROVED BY THE USC FOUNDATION FOR CROSS–CONNECTION CONTROL. BACKFLOW ASSEMBLIES INSTALLED ON FIRE SUPRESSION SYSTEMS MUST ALSO HAVE APPROVAL FROM UNDERWRITERS LABORATORIES AND/OR FACTORY MUTUAL RESEARCH CORPORATION.
9. BACKFLOW ASSEMBLIES ON FIRELINES MUST BE TAMPER PROOF. SHUT–OFFS MUST BE LOCKED IN THE OPEN POSITION OR PROTECTED FROM TAMPERING VIA CAGE AND LOCK.

DETAIL NO. 2352	City of Scottsdale Standard Details	APPROVED BY: Scottsdale Standards & Specifications Committee	DOUBLE CHECK VALVE BACKFLOW PREVENTION ASSEMBLY FOR ASSEMBLIES 3/4 INCH THROUGH 2 1/2 INCHES	DETAIL NO. 2352

REVISED 2/22/25



LOCATE INLET AS CLOSE TO SERVICE/METER CONNECTION AS POSSIBLE. NO MORE THAN 18" BETWEEN INLET AND METER

NOTES:

1. BACKFLOW ASSEMBLIES MUST BE TESTED BY A CERTIFIED TESTER THAT IS RECOGNIZED BY THE CITY OF SCOTTSDALE.
2. BACKFLOW ASSEMBLIES MUST HAVE A DOWNSTREAM UNION UNLESS THE MODEL IS FEBCO LF825YA.
3. COPPER FITTINGS SHALL BE CONNECTED WITH LEAD FREE SOLDER JOINTS OR APPROVED EQUAL.
4. FINISHED GRADE UNDERNEATH THE BACKFLOW PREVENTER SHALL BE AT 95% COMPACTION.
5. ALL NIPPLES TO BE COPPER OR BRASS.
6. INLET / OUTLET PIPING MUST BE TYPE K HARD COPPER.
7. CALL FOR UNDERGROUND INSPECTION BEFORE BACKFILLING TRENCH.
8. APPROVALS FOR BACKFLOW ASSEMBLIES MUST HAVE SEAL APPROVAL FROM THE AMERICAN SOCIETY OF SANITATION ENGINEERS. BACKFLOW ASSEMBLIES MUST BE APPROVED BY THE USC FOUNDATION FOR CROSS-CONNECTION CONTROL. BACKFLOW ASSEMBLIES INSTALLED ON FIRE SUPPRESSION SYSTEMS MUST ALSO HAVE APPROVAL FROM UNDERWRITERS LABORATORIES AND/OR FACTORY MUTUAL RESEARCH CORPORATION.

LIST OF MATERIALS:

(1) APPROVED LEAD-FREE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY, BALL VALVES INCLUDED.

(2) TYPE K HARD COPPER PIPE, ¾" THROUGH 2½".

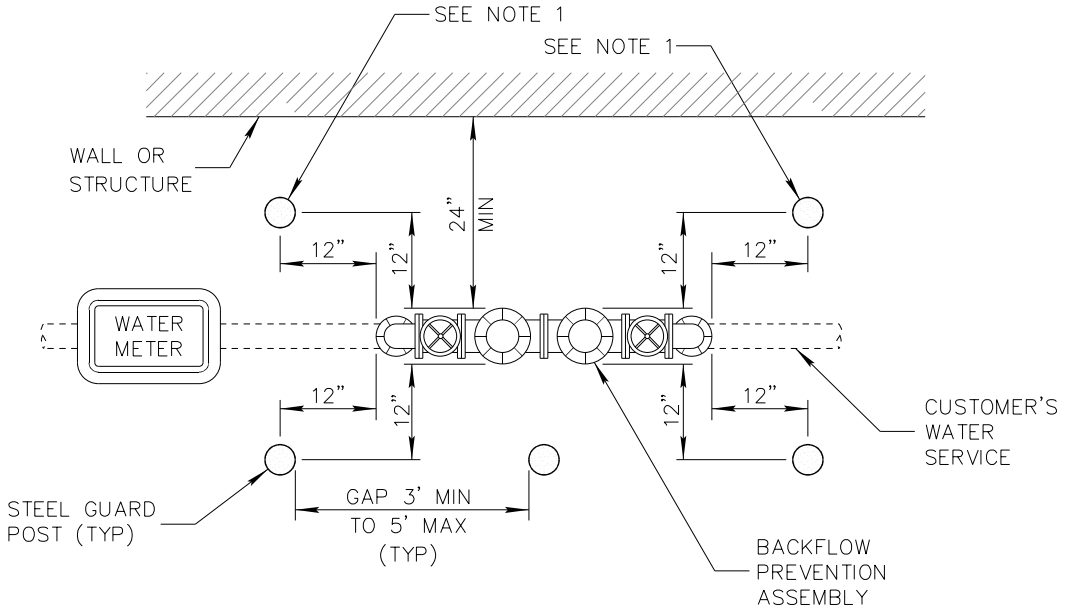
(3) 90° ELBOW, COPPER, ¾" THROUGH 2½".

(4) TEST COCKS WITH BRASS PLUGS OR ADAPTORS WITH METAL CAPS INSTALLED. (4 REQUIRED)

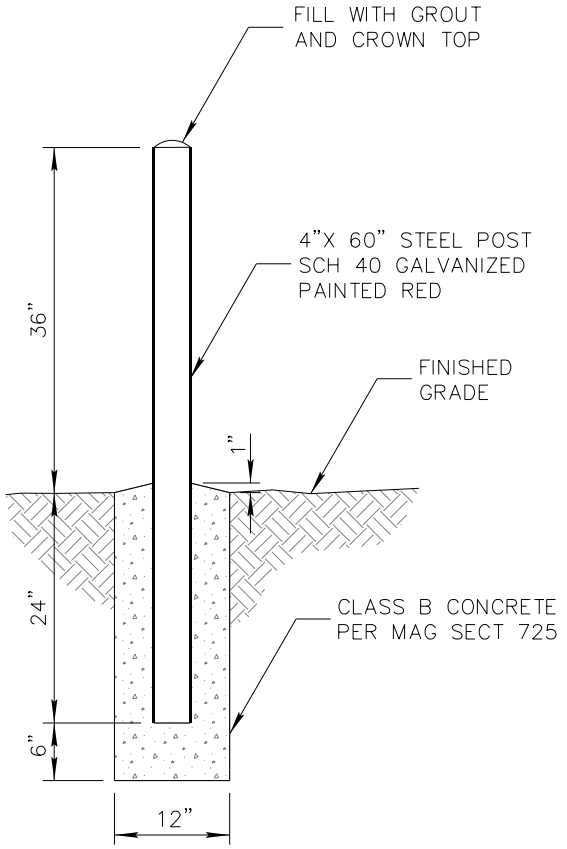
(5) BRASS OR COPPER PIPE UNION, WHEN REQUIRED, SEE NOTE 2.

DETAIL NO. 2354	City of Scottsdale Standard Details	APPROVED BY: Scottsdale Standards & Specifications Committee	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY FOR 3/4 INCH THROUGH 2 1/2 INCHES	DETAIL NO. 2354

REVISED 5/23/25



PLAN VIEW



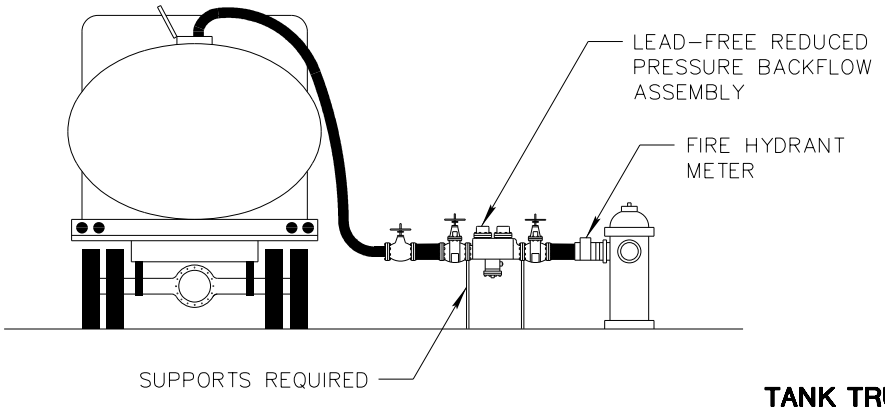
GUARD POST SECTION

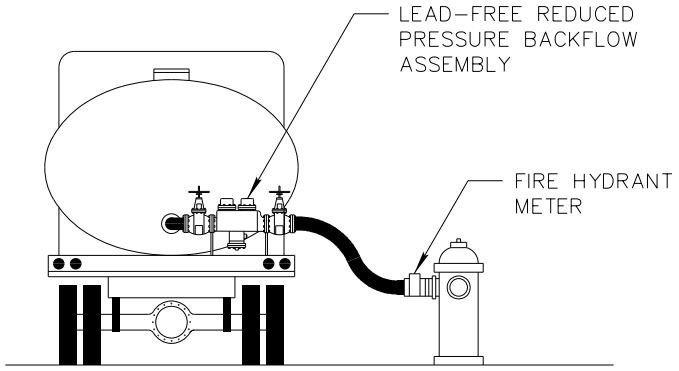
NOTE:

1. GUARD POSTS ARE REQUIRED AT THESE LOCATIONS IF BACKFLOW PREVENTION ASSEMBLY IS IN AN OPEN AREA (NOT NEXT TO A BUILDING WALL OR FENCE).

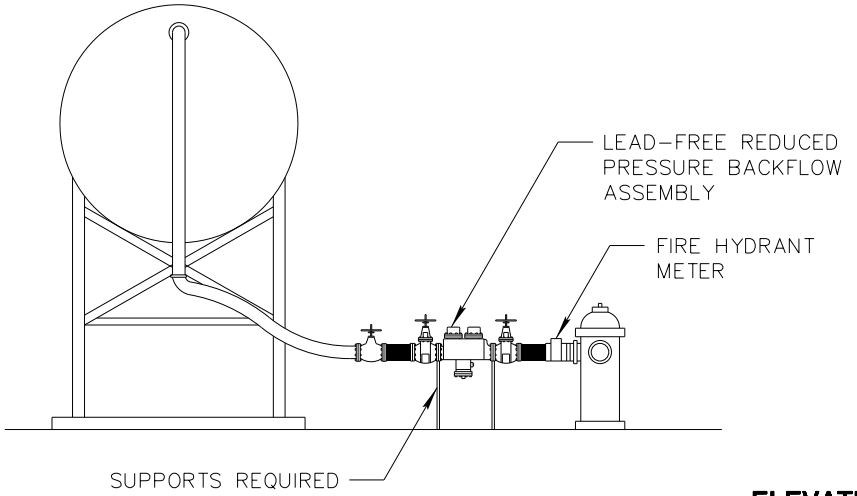
DETAIL NO. 2356	City of Scottsdale Standard Details	APPROVED BY: Scottsdale Standards & Specifications Committee	GUARD POST FOR BACKFLOW PREVENTION ASSEMBLIES	DETAIL NO. 2356

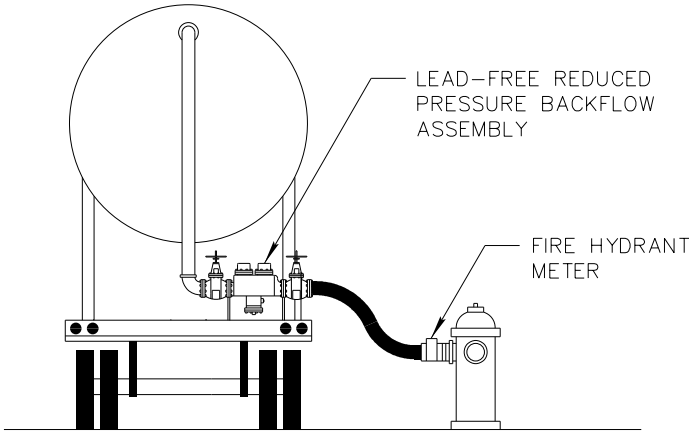
REVISED 5/23/25





TANK TRUCKS

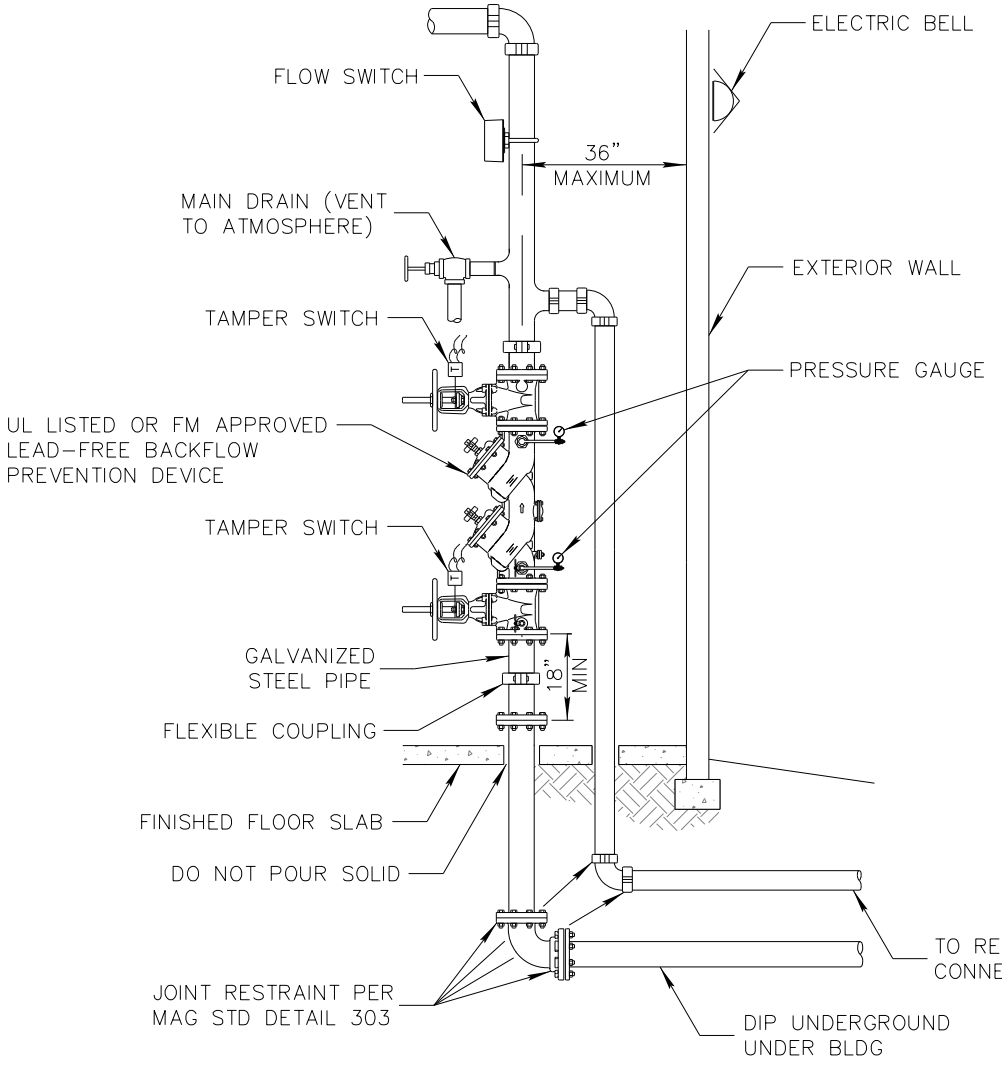




ELEVATED TANKS

DETAIL NO. 2358	City of Scottsdale Standard Details	APPROVED BY: Scottsdale Standards & Specifications Committee	BACKFLOW PREVENTION METHOD FOR PORTABLE TANKS WITH NO AIR GAP SEPARATION	DETAIL NO. 2358

REVISED 5/27/25



NOTES:

1. BACKFLOW PREVENTER SHALL BE TESTED FOR PROPER OPERATION PER CITY OF SCOTTSDALE REQUIREMENTS BY A CERTIFIED TESTER RECOGNIZED BY THE CITY BEFORE A TEMPORARY CERTIFICATE OF OCCUPANCY IS ISSUED.

   REDUCED–PRESSURE BACKFLOW IS REQUIRED WHEN FIRE DEPARTMENT CONNECTION IS WITHIN 1700 FEET OF AN AUXILIARY SUPPLY.

2. ADEQUATE CLEARANCE SHALL BE PROVIDED AROUND THE FIRE RISER. DIMENSIONS FROM FACE OF PIPE SHALL MEASURE A MINIMUM OF 12" OFF THE BACK WALL, 18" ON EACH SIDE AND 36" CLEAR IN FRONT WITH A FULL HEIGHT DOOR. THE FIRE LINE SHALL EXTEND A MAXIMUM OF 36" INTO THE BUILDING FROM INSIDE FACE OF WALL TO CENTER OF PIPE.

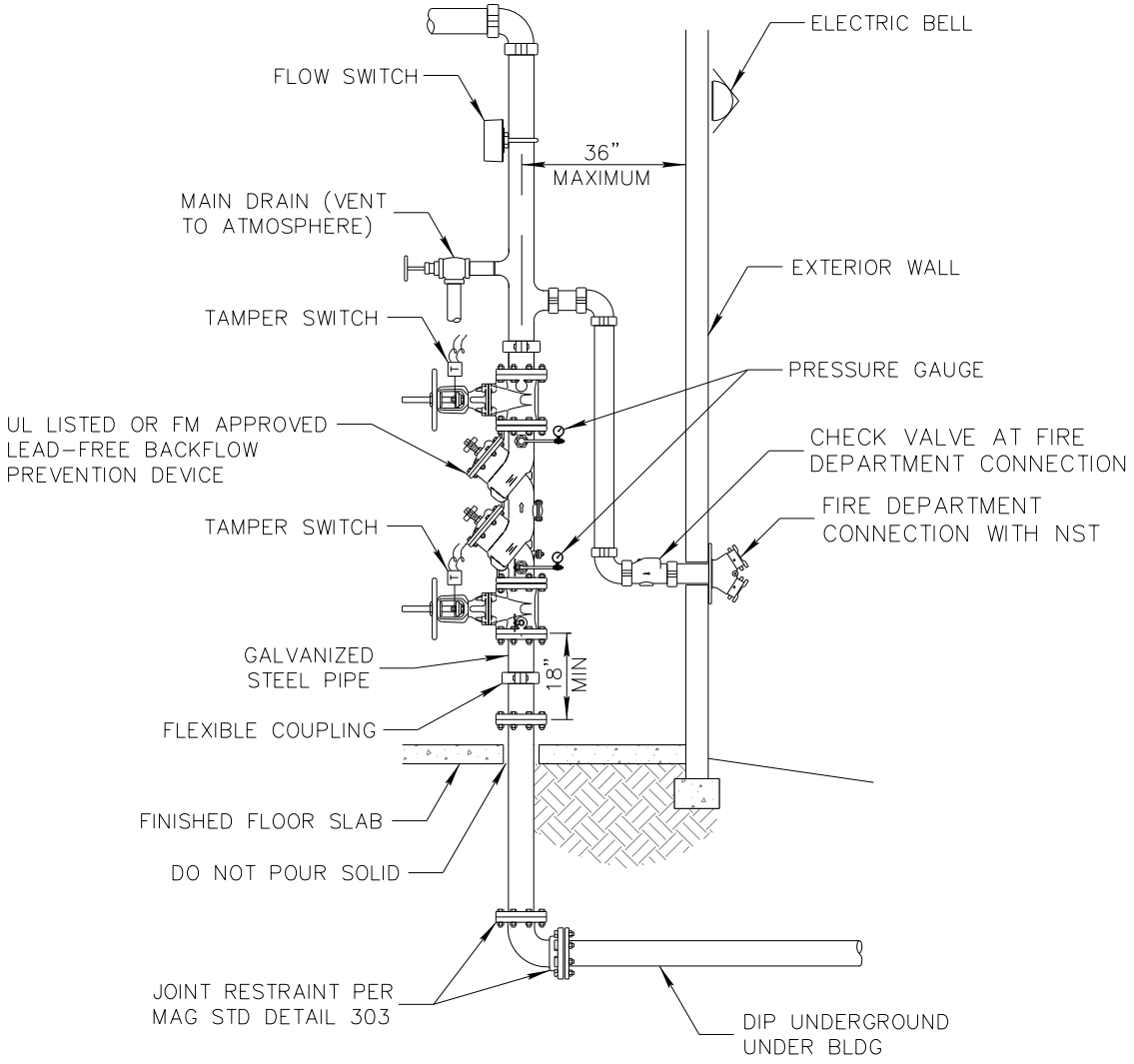
3. RISER SHALL BE HYDROSTATICALLY TESTED AT 200 PSI FOR TWO HOURS.

4. AT #1 & #4 TEST PORTS INSTALL A ½" BRASS NIPPLE, TEE & PLUGS WITH ½"x¼" MALE FLARED CONNECTION WITH CAP (INSTALL PRESSURE GAUGE ON TEE OUTLET).

5. HYDRAULIC DESIGN AND SUMMARY INFORMATION PER NFPA SHALL BE ATTACHED TO RISER.

6. SPARE HEAD BOX SHALL BE MOUNTED IN AREA.

DETAIL NO. 2368	City of Scottsdale Standard Details	APPROVED BY: Scottsdale Standards & Specifications Committee	FIRE SPRINKLER RISER DETAIL WITH REMOTE FIRE DEPARTMENT CONNECTION	DETAIL NO. 2368



NOTES:

1. BACKFLOW PREVENTER SHALL BE TESTED FOR PROPER OPERATION PER CITY OF SCOTTSDALE REQUIREMENTS BY A CERTIFIED TESTER RECOGNIZED BY THE CITY BEFORE A TEMPORARY CERTIFICATE OF OCCUPANCY IS ISSUED.

   REDUCED–PRESSURE BACKFLOW IS REQUIRED WHEN FIRE DEPARTMENT CONNECTION IS WITHIN 1700 FEET OF AN AUXILIARY SUPPLY.

2. ADEQUATE CLEARANCE SHALL BE PROVIDED AROUND THE FIRE RISER. DIMENSIONS FROM FACE OF PIPE SHALL MEASURE A MINIMUM OF 12" OFF THE BACK WALL, 18" ON EACH SIDE AND 36" CLEAR IN FRONT WITH A FULL HEIGHT DOOR. THE FIRE LINE SHALL EXTEND A MAXIMUM OF 36" INTO THE BUILDING FROM INSIDE FACE OF WALL TO CENTER OF PIPE.

3. RISER SHALL BE HYDROSTATICALLY TESTED AT 200 PSI FOR TWO HOURS.

4. AT #1 & #4 TEST PORTS INSTALL A ½" BRASS NIPPLE, TEE & PLUGS WITH ½"x¼" MALE FLARED CONNECTION WITH CAP (INSTALL PRESSURE GAUGE ON TEE OUTLET).

5. HYDRAULIC DESIGN AND SUMMARY INFORMATION PER NFPA SHALL BE ATTACHED TO RISER.

6. SPARE HEAD BOX SHALL BE MOUNTED IN AREA.

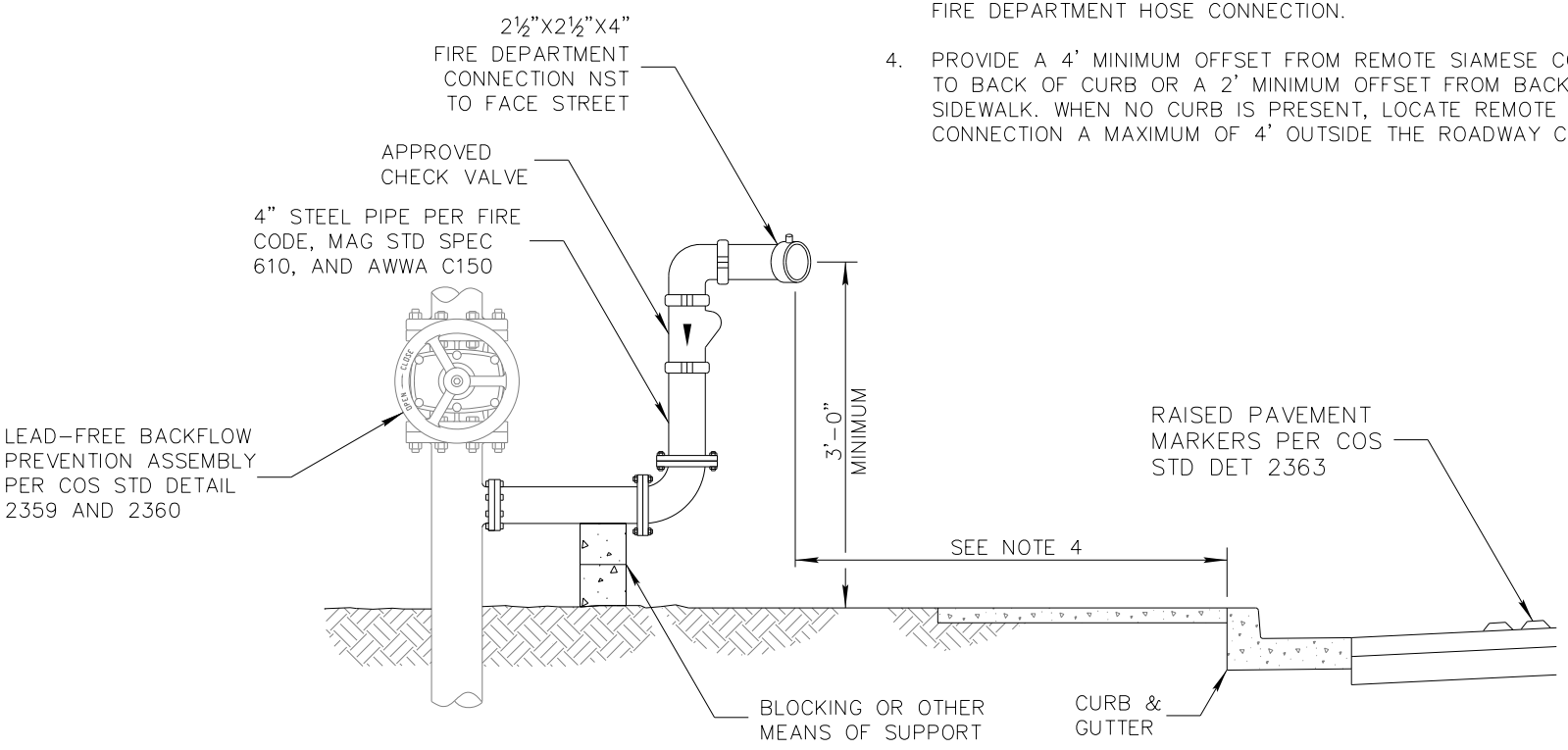
REVISED 5/27/25

DETAIL NO. 2369	City of Scottsdale Standard Details	APPROVED BY: Scottsdale Standards & Specifications Committee	FIRE SPRINKLER RISER DETAIL WITH REMOTE FIRE DEPARTMENT CONNECTION	DETAIL NO. 2369

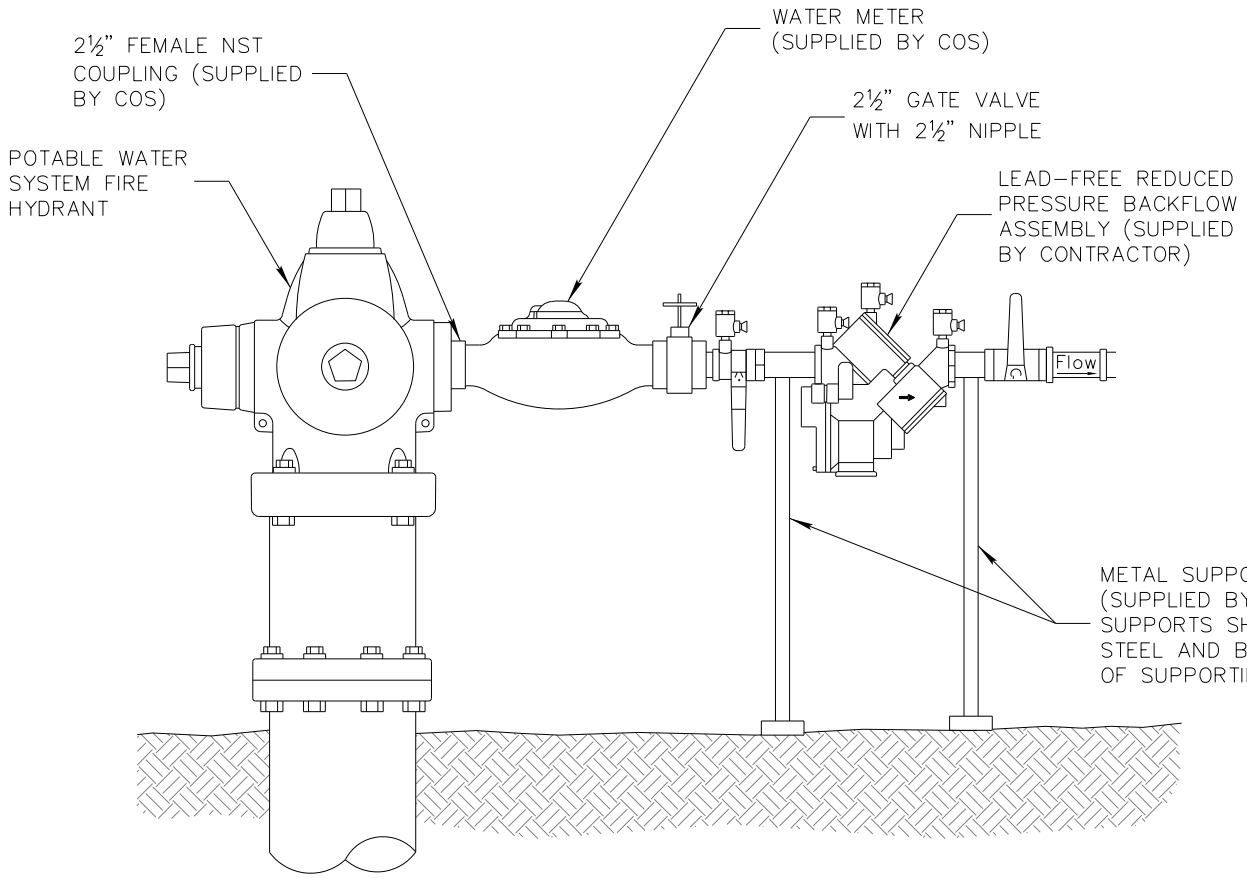
REVISED 5/27/25

NOTES:

1. PROVIDE BUILDING IDENTIFICATIN ON REMOTE FIRE DEPARTMENT CONNECTION.
2. NO TREES, BUSHES, OR WALLS ALLOWED WITHIN A 5' RADIUS OF FIRE DEPARTMENT CONNECTION.
3. IF FIRE SPRINKLER DESIGN INDICATES DEMAND OF 1000 GPM OR GREATER, THE UNDERGROUND FIRE DEPARTMENT CONNECTION LINE SHALL BE INCREASED TO 6" DIAMETER WITH A THREE WAY 2½" FIRE DEPARTMENT HOSE CONNECTION.
4. PROVIDE A 4' MINIMUM OFFSET FROM REMOTE SIAMESE CONNECTION TO BACK OF CURB OR A 2' MINIMUM OFFSET FROM BACK OF SIDEWALK. WHEN NO CURB IS PRESENT, LOCATE REMOTE SIAMESE CONNECTION A MAXIMUM OF 4' OUTSIDE THE ROADWAY CLEAR ZONE.



DETAIL NO. 2374	City of Scottsdale Standard Details	APPROVED BY: Scottsdale Standards & Specifications Committee	REMOTE FIRE DEPARTMENT CONNECTION TO BACKFLOW PREVENTION ASSEMBLY	DETAIL NO. 2374



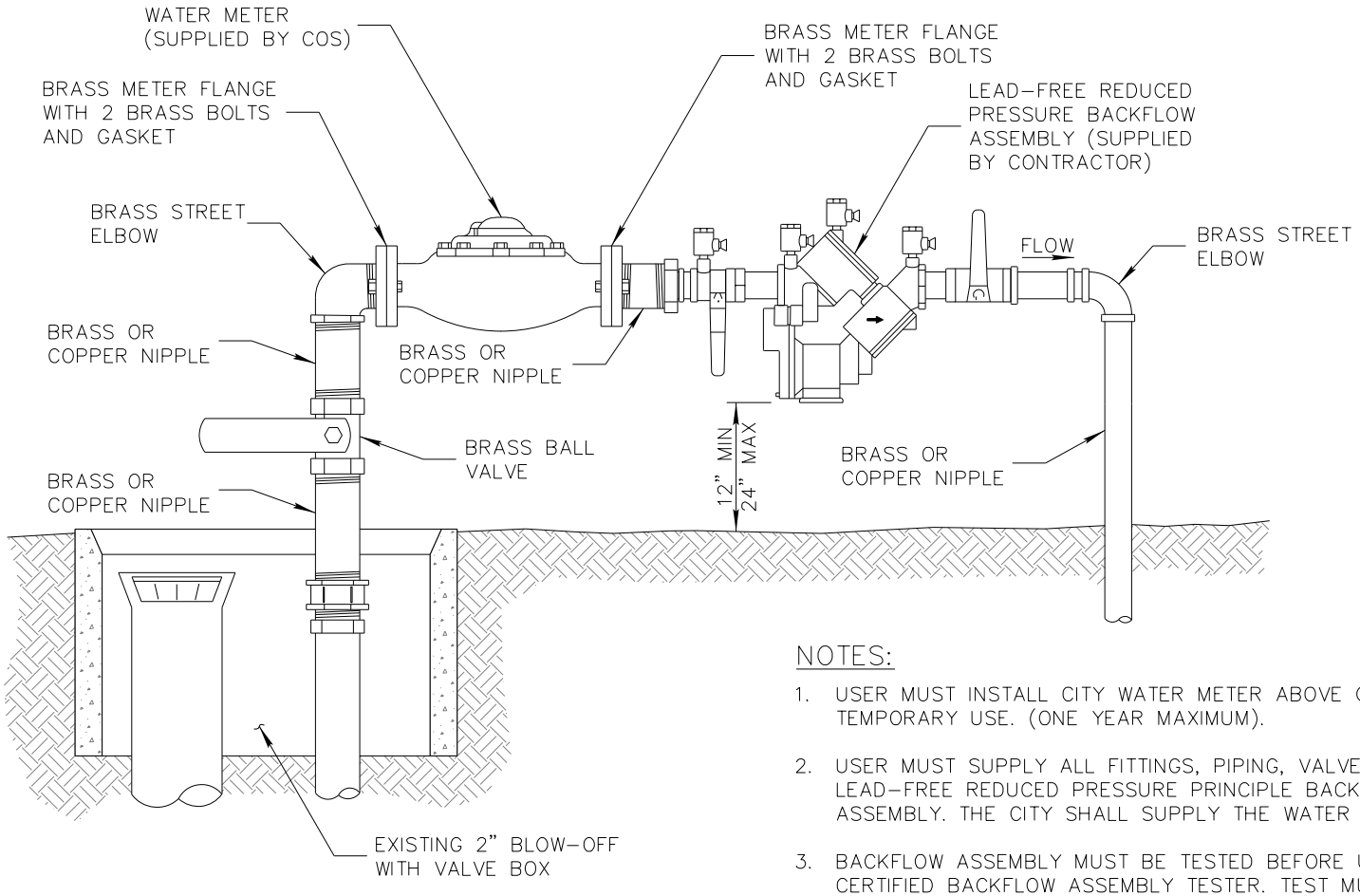
NOTES:

1. BACKFLOW ASSEMBLY SHALL BE TESTED BY A CERTIFIED BACKFLOW ASSEMBLY TESTER BEFORE USING AND ALSO EACH TIME THE METER IS MOVED. TEST MUST BE PROVIDED TO CITY OF SCOTTSDALE CROSS–CONNECTION CONTROL DEPARTMENT.
2. BACKFLOW ASSEMBLY SHALL BE THE SIZE OF METER OR GREATER.
3. USER MUST REMOVE BACKFLOW ASSEMBLY WHEN HYDRANT METER IS REMOVED OR RELOCATED.
4. USER IS LIABLE FOR ANY DAMAGE TO THE HYDRANT AND ALL ATTACHMENTS TO THE HYDRANT.
5. USER MUST USE GATE VALVE TO CONTROL FLOW OF WATER, NOT THE HYDRANT VALVE ASSEMBLY.
6. CALL 480–312–5650 FOR QUESTIONS.

REVISED 5/27/25

DETAIL NO. 2380	City of Scottsdale Standard Details	APPROVED BY: Scottsdale Standards & Specifications Committee	TEMPORARY WATER SUPPLY HYDRANT METER ASSEMLBY	DETAIL NO. 2380

REVISED 5/27/25



NOTES:

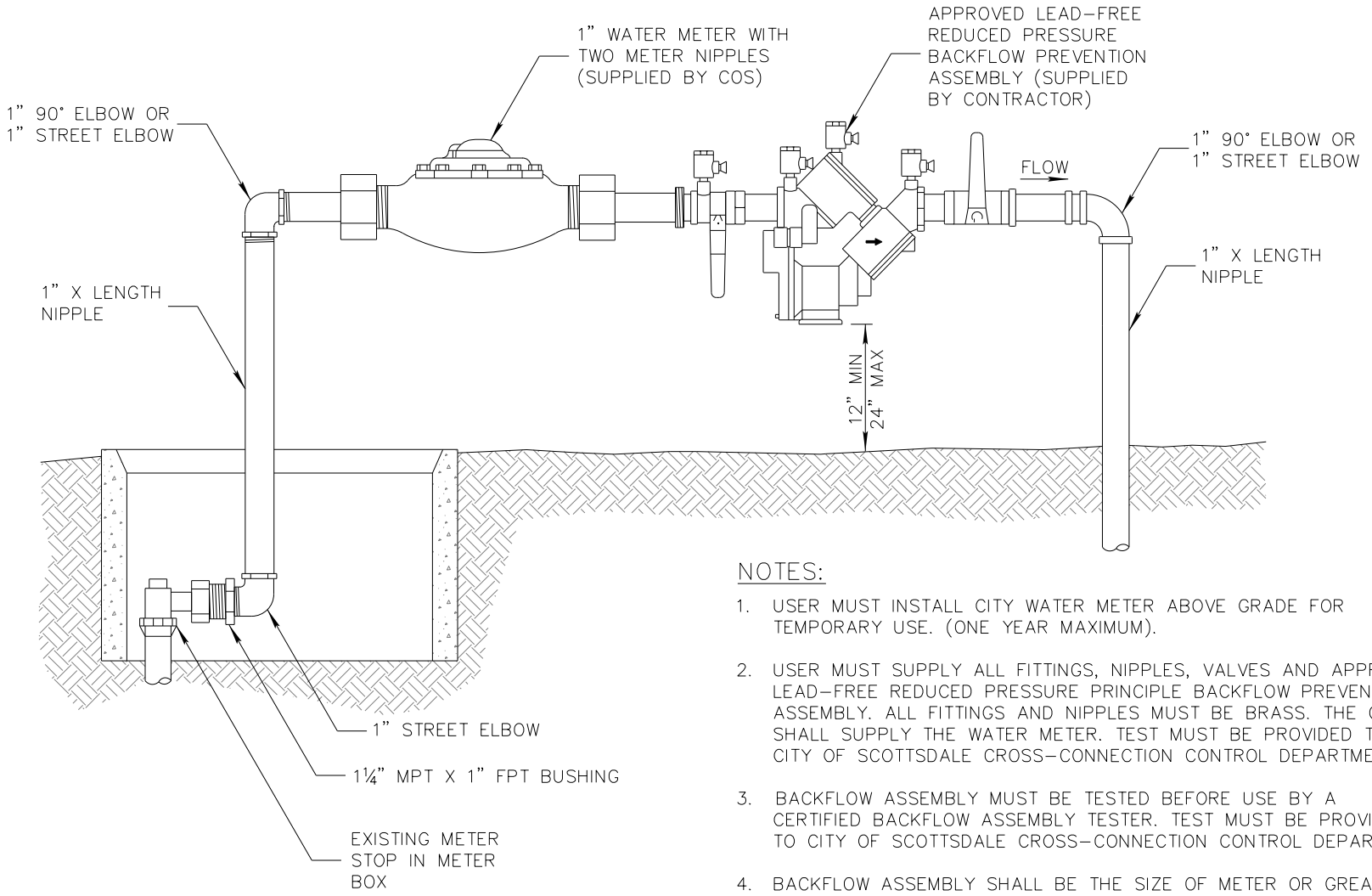
1. USER MUST INSTALL CITY WATER METER ABOVE GRADE FOR TEMPORARY USE. (ONE YEAR MAXIMUM).
2. USER MUST SUPPLY ALL FITTINGS, PIPING, VALVES, AND APPROVED LEAD–FREE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY. THE CITY SHALL SUPPLY THE WATER METER.
3. BACKFLOW ASSEMBLY MUST BE TESTED BEFORE USE BY A CERTIFIED BACKFLOW ASSEMBLY TESTER. TEST MUST BE PROVIDED TO CITY OF SCOTTSDALE CROSS–CONNECTION CONTROL DEPARTMENT.
4. BACKFLOW ASSEMBLY SHALL BE THE SIZEOF METER OR GREATER.

SPECIAL NOTE:

TURN WATER ON AND OFF SLOWLY.

DETAIL NO. 2381	City of Scottsdale Standard Details	APPROVED BY: Scottsdale Standards & Specifications Committee	TEMPORARY BLOW-OFF FOR WATER SUPPLY	DETAIL NO. 2381

REVISED 5/27/25



NOTES:

1. USER MUST INSTALL CITY WATER METER ABOVE GRADE FOR TEMPORARY USE. (ONE YEAR MAXIMUM).
2. USER MUST SUPPLY ALL FITTINGS, NIPPLES, VALVES AND APPROVED LEAD–FREE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY. ALL FITTINGS AND NIPPLES MUST BE BRASS. THE CITY SHALL SUPPLY THE WATER METER. TEST MUST BE PROVIDED TO CITY OF SCOTTSDALE CROSS–CONNECTION CONTROL DEPARTMENT.
3. BACKFLOW ASSEMBLY MUST BE TESTED BEFORE USE BY A CERTIFIED BACKFLOW ASSEMBLY TESTER. TEST MUST BE PROVIDED TO CITY OF SCOTTSDALE CROSS–CONNECTION CONTROL DEPARTMENT.
4. BACKFLOW ASSEMBLY SHALL BE THE SIZE OF METER OR GREATER.

DETAIL NO. 2382	City of Scottsdale Standard Details	APPROVED BY: Scottsdale Standards & Specifications Committee	TEMPORARY WATER SERVICE	DETAIL NO. 2382