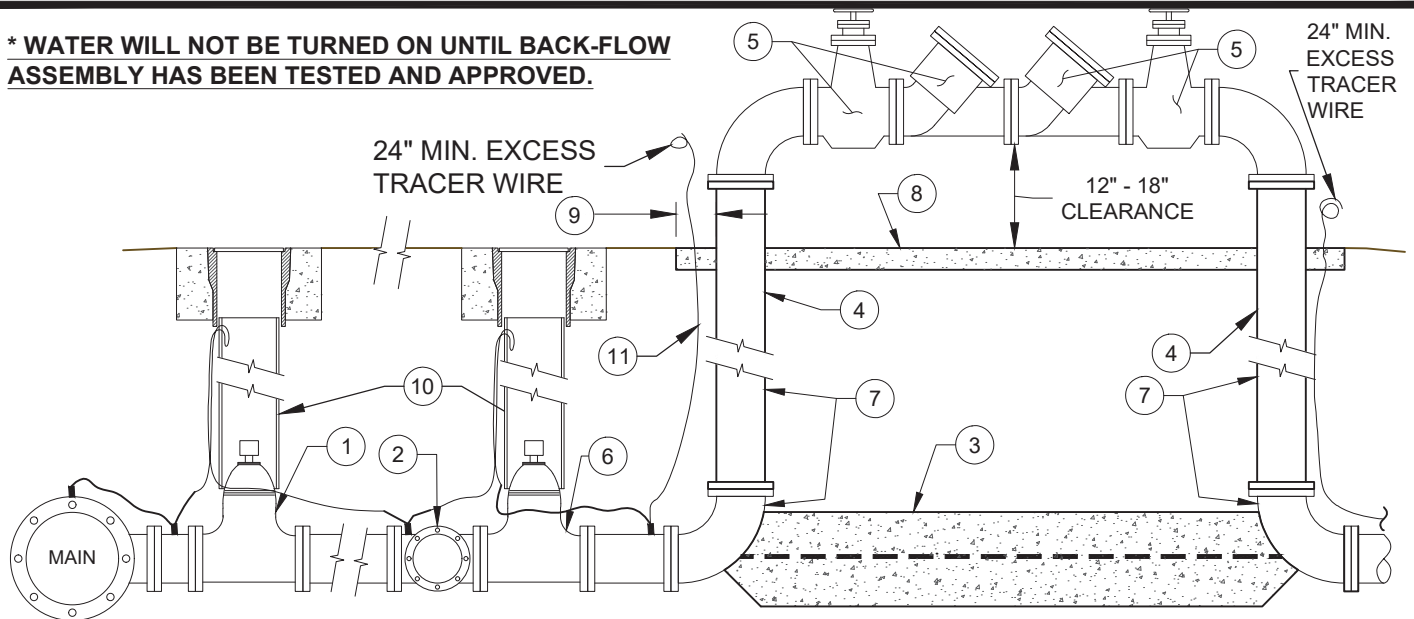


**\* WATER WILL NOT BE TURNED ON UNTIL BACK-FLOW ASSEMBLY HAS BEEN TESTED AND APPROVED.**



1	FLANGE BY FLANGE, RESILIENT WEDGE GATE VALVE.
2	FLANGE TEE FOR DOMESTIC WATER SERVICE (OPTIONAL). DEPENDING ON SIZE, DOMESTIC WATER SERVICE WILL HAVE APPROVED BACK-FLOW ASSEMBLY PER CITY STANDARD DETAIL #502 OR #503, AND ADD THRUST BLOCK BEHIND TEE WHEN INSTALLED IN ACCORDANCE WITH STD DETAIL #519.
3	MIN 4,000 PSI CONCRETE THRUST BLOCK WITH ONE PIECE OF #4 REBAR IN MIDDLE OF CONCRETE. THRUST BLOCK CROSS SECTION DIMENSION SHALL BE IN ACCORDANCE WITH STANDARD DETAIL # 519. REBAR SHALL HAVE MINIMUM THREE (3) INCH COVER.
4	SPOOL OR DUCTILE IRON PIPE WITH UNIFLANGE.
5	DOUBLE CHECK DETECTOR ASSEMBLY OR REDUCED PRESSURE DETECTOR ASSEMBLY WITH RESILIENT WEDGE GATE VALVES WILL BE REQUIRED DEPENDING ON DEGREE OF HAZARD AS DETERMINED BY THE CITY. REFER TO CURRENT LIST OF APPROVED BACKFLOW PREVENTION ASSEMBLIES PUBLISHED BY THE UNIVERSITY OF SOUTHERN CALIFORNIA. OSY GATE VALVE SHALL BE AS REQUIRED BY CITY FIRE CODE. ALL ASSEMBLY COMPONENTS SHALL BE LEAD FREE.
6	GATE VALVE USED ONLY WHEN OPTIONAL DOMESTIC TEE HAS BEEN INSTALLED.
7	8 MIL WRAP WITH 10 MIL TAPE TO ABOVE FINISH GRADE.
8	6" THICK, MIN 4,000 PSI CONCRETE PAD.
9	12" MIN. (TYP. ALL SIDES) OR AS NECESSARY TO ACCOMMODATE BACKFLOW ENCLOSURE.
10	8" PVC PIPE RISER TO BE PLUMB WITHIN 1 INCH. PVC CASING SHALL BE SDR 35 OR C900 PIPE. PROVIDE NOTCH IN RISER FOR TRACER WIRE
11	TRACER WIRE SHALL BE AWG #10 SOLID COPPER WIRE WITH U.S.E. RATED INSULATION, COLOR BLUE. CONNECT TRACER WIRE TO WATER MAIN TRACER WIRE. INSTALLATION TAPE SHALL BE 3M ELECTRICAL TAPE WITH TWO COATS OF "SKOTCHKOTE FD" ELECTRICAL COATING OR APPROVED EQUAL. TRACER WIRE SHALL BE TAPED TO WATER SERVICE AT MINIMUM 10 FOOT INTERVALS WITH 10 MIL TAPE.

**NOTES:**

- A. ALL THREE (3) INCH DIAMETER OR LARGER ABOVE GROUND PIPE SHALL BE MINIMUM 175 PSI DUCTILE IRON PIPE UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. ALL JOINTS SHALL BE FLANGE AND MECHANICAL JOINT
- B. ALL PIPE BELOW GRADE AND PENETRATING CONCRETE THEN WRAPPED WITH MUST BE WRAPPED WITH 8 MIL POLYETHYLENE ENCASMENT THEN WRAPPED WITH 10 MIL TAPE. IN ADDITION, WRAP PIPE PENETRATIONS THROUGH CONCRETE WITH FOAM WRAP.
- C. WATER SHALL NOT BE TURNED ON UNTIL DEVICE IS TESTED BY A CERTIFIED TESTER ON PUBLIC WORKS 'BACK-FLOW TESTERS LIST' AND APPROVED BY THE CITY.
- D. RELATIVE COMPACTION OF SUBGRADE AND BASE MATERIAL UNDER ALL SIDEWALK, CURB AND GUTTER AREAS SHALL BE 95%.



APPROVED: Aug. X, 2025

STANDARD  
DETAIL #

**504**

TITLE:

**FIRE BACKFLOW  
ASSEMBLY WITH  
OPTIONAL POTABLE  
WATER SERVICE.**

