

BACKFLOW PROTECTION

- A. ALL INDUSTRIAL, COMMERCIAL AND MULTI-FAMILY DWELLING SERVICE CONNECTIONS SHALL HAVE APPROPRIATE BACKFLOW PROTECTION INSTALLED AND MAINTAINED BY OWNER.
- B. ALL RESIDENTIAL SERVICES TO COMBINATION FIRE AND DOMESTIC USE SHALL HAVE DOUBLE CHECK VALVE BACKFLOW ASSEMBLY INSTALLED (EXCEPT RESIDENTIAL WATER FRONT PROPERTIES SHALL HAVE RPPD INSTALLED).
- C. ALL BACKFLOW PREVENTION DEVICES MUST BE TESTED BY A CERTIFIED TESTER AT LEAST ANNUALLY AND IMMEDIATELY AFTER INSTALLATION, RELOCATION OR REPAIR. NO NEW SERVICE SHALL BE DEEMED ACCEPTABLE UNTIL TESTED AND CERTIFIED AFTER INSTALLATION.
- D. ALL BACKFLOW PREVENTION DEVICES MUST BE U.S.C LISTED AND APPROVED BY THE STATE HEALTH DEPARTMENT.
- E. ANY WATER SYSTEM PROVIDED WITH A CHECK VALVE, BACKFLOW PREVENTER, OR ANY OTHER NORMALLY CLOSED DEVICE THAT PREVENTS DISSIPATION OF BUILDING PRESSURE BACK INTO THE WATER MAIN SHALL BE PROVIDED WITH AN APPROVED, LISTED, AND ADEQUATELY SIZED EXPANSION TANK OR OTHER APPROVED DEVICE HAVING A SIMILAR FUNCTION TO CONTROL THERMAL EXPANSION, PER BUILDING DIVISION.
- F. EXISTING FIRE SERVICES REQUIRING REPAIRS SHALL HAVE THE BACKFLOW PROTECTION UPGRADED TO COMPLY WITH STD. PLAN 618, AS A MINIMUM AND SHALL REQUIRE A SUB-APPROVAL/PERMIT CLEARANCE BY A UTILITY CROSS-CONNECTION CONTROL SPECIALIST, AND FIRE DEPARTMENT INSPECTOR. FIRE DEPARTMENT CONNECTION (FDC) SIZE, LOCATION, AND ELEVATION PER FIRE DEPARTMENT REQUIREMENTS AND WILL REQUIRE SEPARATE PERMIT FROM FIRE DEPARTMENT.
- G. AFTER ABANDONMENT AND REMOVAL OF CHECK-VALVE AND VAULT, REPAIR PAVEMENT PER STD 606 OR REPLACE SIDEWALK PER CITY STANDARD.
- H. ALL SEPARATE IRRIGATION WATER SERVICE CONNECTIONS SHALL HAVE SEPARATE RPPD'S AS APPROVED BY THE UTILITY CROSS-CONNECTION CONTROL SPECIALISTS.
- I. ALL WORK PERTAINING TO BACKFLOW DEVICES SHALL BE INSPECTED BY THE PUBLIC WORKS WATER INSPECTOR. FOR NON-RESIDENTIAL PROPERTIES ALL PIPING BETWEEN METER AND BACKFLOW DEVICE SHALL ALSO BE INSPECTED BY THE UTILITY CROSS CONNECTION CONTROL SPECIALIST. FOR RESIDENTIAL PROPERTIES ALL PIPING BETWEEN METER AND BACKFLOW DEVICE SHALL BE INSPECTED BY BUILDING DIVISION.
- J. NO PERSON SHALL FILL SPECIAL USE TANKS, TANKERS, OR VAULTS CONTAINING SEWAGE, PESTICIDES, FERTILIZERS, UNAPPROVED AUXILIARY WATER, OR TOXIC CHEMICALS OR THEIR RESIDUES EXCEPT AT A LOCATION EQUIPPED WITH AN APPROVED AIR GAP (2 X DIAMETER OF SUPPLY PIPE WITH A MINIMUM GAP OF 1"). NO SUPPLIER OF WATER SHALL PERMIT THE FILLING OF SUCH SPECIAL USE CONTAINERS EXCEPT AT LOCATIONS SO EQUIPPED, REFER TO STANDARD PLAN 609E.
- K. MINIMUM METER AND BACKFLOW DEVICE SIZE IS PER FIRE DEPARTMENT AND/OR BUILDING DIVISION REQUIREMENTS.

APPROVED:

Tom [Signature]

CITY ENGINEER

DATE: 02/15/17

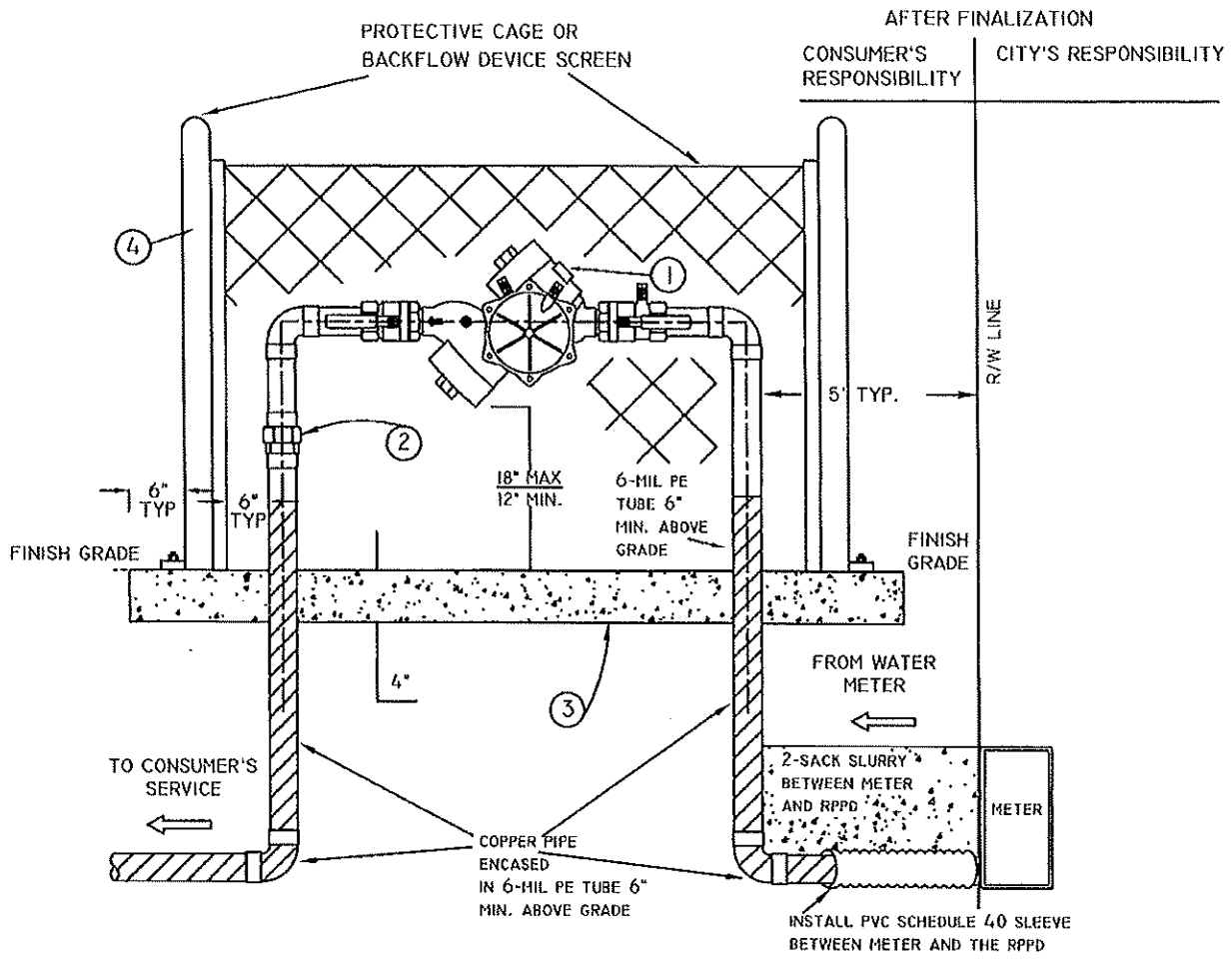
CITY OF HUNTINGTON BEACH

DEPARTMENT OF PUBLIC WORKS



BACKFLOW PROTECTION NOTES

STANDARD PLAN
609
PAGE 2



GENERAL NOTES


1. ALL RPPDs SHALL BE LOCATED ABOVE GROUND. RPPDs MAY BE SCREENED FROM VIEW BY EITHER LANDSCAPE OR ARCHITECTURAL FEATURES, AND INSTALLED AS CLOSE AS PRACTICAL TO THE WATER METER AND SHALL BE INSTALLED IN A LOCATION THAT IS READILY ACCESSIBLE FOR TESTING AND MAINTENANCE.
2. IMMEDIATELY AFTER INSTALLATION, RELOCATION OR REPAIR, ALL RPPDs SHALL BE TESTED BY A CERTIFIED TESTER APPROVED BY THE CITY. NO SERVICE SHALL BE DEEMED ACCEPTABLE UNTIL THE DEVICE IS TESTED AND CERTIFIED AFTER INSTALLATION.
3. RISERS AND TUBING SHALL BE TYPE "K" RIGID COPPER PIPE ENCASED IN 6-MIL POLYETHYLENE AND ALL FITTINGS SHALL BE SOLDER-JOINT TYPE PER UNIFORM PLUMBING CODE AS ADOPTED BY THE CITY OF HUNTINGTON BEACH. ALL UNDERGROUND TUBING FROM THE METER TO THE RPPD SHALL BE SLEEVED IN SCHEDULE 40 PVC AND BACKFILLED WITH TWO SACK SLURRY TO 12" (MIN.) OVER PIPE. COPPER SERVICE AND RPPD SHALL BE AT LEAST THE SAME SIZE AS THE METER.
4. TEES OR OTHER APPURTENANCES ARE PROHIBITED BETWEEN THE METER AND THE RPPD.
5. PAINT RPPD PER SPECIFICATION 02087.1.

ITEM	DESCRIPTION	SPECIFICATION	QTY
①	REDUCE PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY DEVICE PER THE CALIFORNIA DEPARTMENT OF HEALTH SERVICES APPROVED LIST OF DEVICES.	02087.1	1
②	SOLDER JOINT UNION PER CALIFORNIA PLUMBING CODE AS ADOPTED BY THE CITY.		A.R.
③	A CONCRETE PAD SHALL BE CONSTRUCTED IF ONE DOES NOT ALREADY EXIST.	03300	A.R.
④	RPPD ENCLOSURE (RECOMMENDED).	02087.1	1

APPROVED:

 CITY ENGINEER

CITY OF HUNTINGTON BEACH
 DEPARTMENT OF PUBLIC WORKS



DATE: 11/17/16

1" THROUGH 2" REDUCED PRESSURE PRINCIPLE DEVICE (RPPD)
 (FOR COMMERCIAL, INDUSTRIAL, AND MULTI FAMILY RESIDENTIAL)

STANDARD PLAN
609A