

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

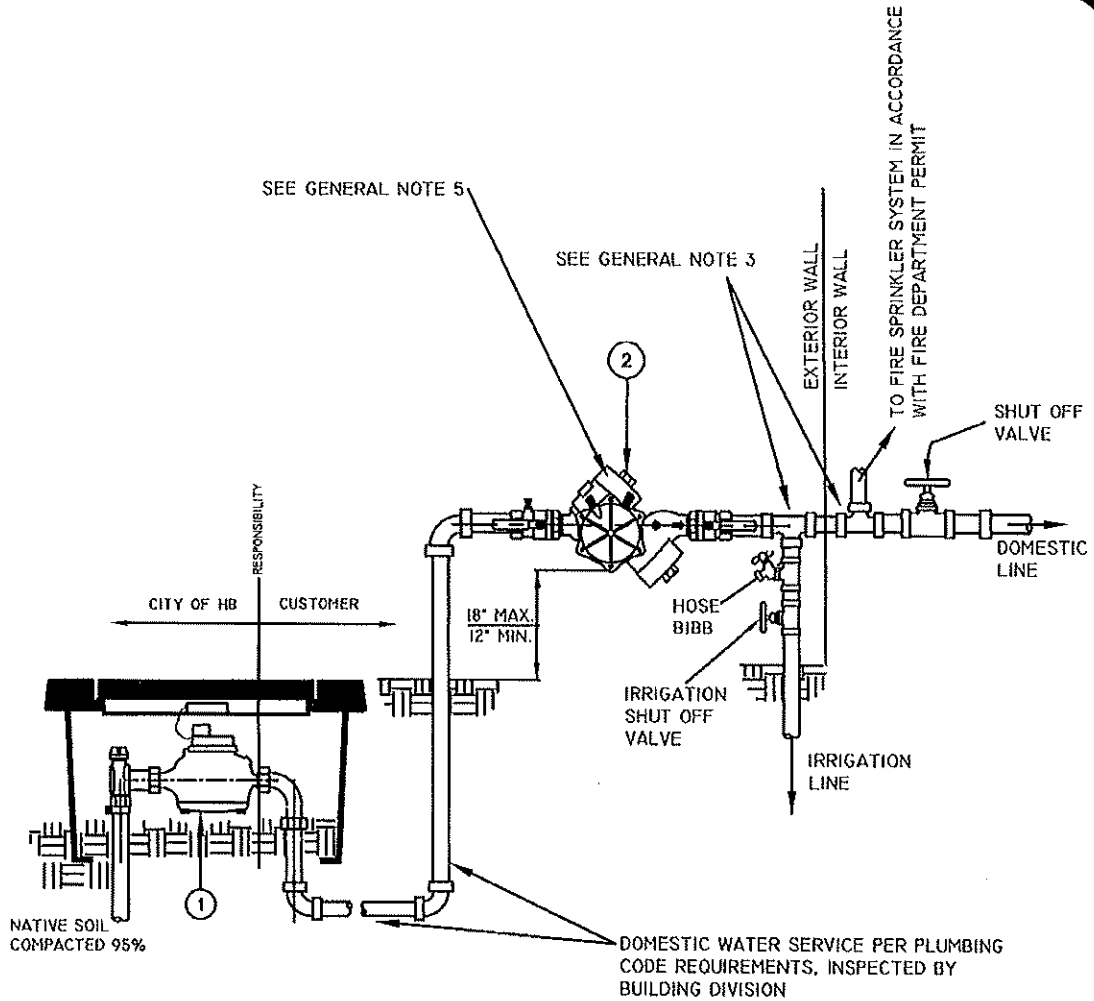
CITY OF HUNTINGTON BEACH

DEPARTMENT OF PUBLIC WORKS



BACKFLOW PROTECTION NOTES

STANDARD PLAN
609
PAGE 2



GENERAL NOTES

1. FOR RESIDENTIAL WATERFRONT PROPERTIES ONLY
2. IMMEDIATELY AFTER INSTALLATION, 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. TEES OR OTHER APPURTENANCES ARE PROHIBITED BETWEEN THE METER AND THE RPPD BACKFLOW DEVICE AND SHALL BE CONSTRUCTED DOWNSTREAM OF THE RPPD BACKFLOW DEVICE.
4. RPPD BACKFLOW ASSEMBLY SHALL BE THE SAME SIZE DIAMETER AS THE WATER SERVICE.
5. THE BACKFLOW DEVICE IS A PART OF THE PUBLIC WORKS ENCROACHMENT PERMIT AND THE PW INSPECTOR AND CROSS-CONNECTION CONTROL SPECIALIST WILL BE RESPONSIBLE FOR INSPECTING AND APPROVING THE FINAL LOCATION OF THE DCV.
6. SEE PLANNING DIVISION FOR THERMAL EXPANSION REQUIREMENTS PER STANDARD PLAN 609 PAGE 2 NOTE E.

| ITEM | DESCRIPTION | PLAN OR SPECIFICATION | QTY |
|------|--------------------------------------------------------------------------|-----------------------|-----|
| ① | RESIDENTIAL METER; 1" THROUGH 2". | STD 601-603 | -- |
| ② | REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTION ASSEMBLY RPPD (LEAD FREE) | 02087.1 | -- |
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APPROVED:

Tom [Signature]
CITY ENGINEER

DATE: 3/1/19

CITY OF HUNTINGTON BEACH

DEPARTMENT OF PUBLIC WORKS



RESIDENTIAL FIRE AND DOMESTIC REDUCED PRESSURE PRINCIPLE
DEVICE (RPPD) BACKFLOW ASSEMBLY
FOR WATERFRONT PROPERTIES ONLY
(FOR NEW RESIDENTIAL FIRE SPRINKLER SYSTEMS)

STANDARD PLAN
609C