

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:


CITY ENGINEER

CITY OF HUNTINGTON BEACH

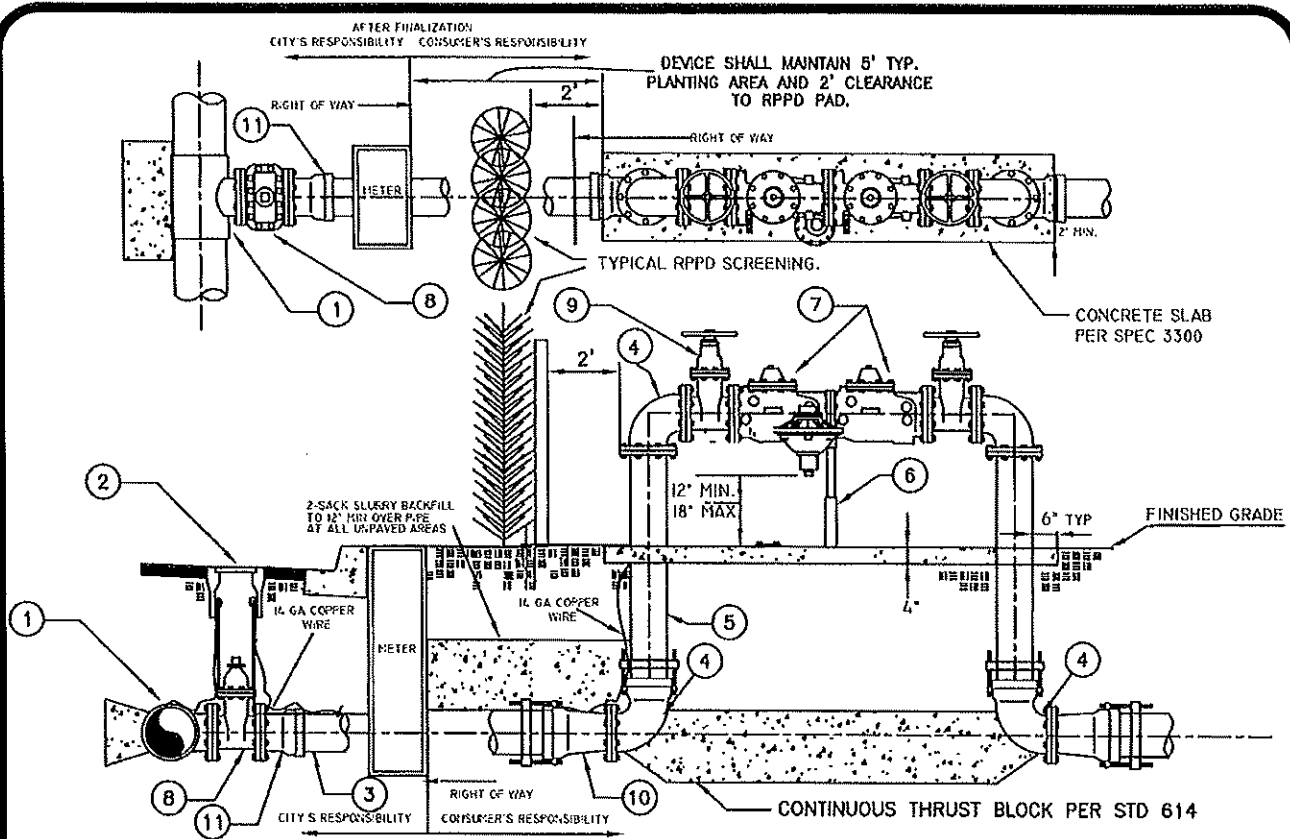
DEPARTMENT OF PUBLIC WORKS



DATE: 02/15/17

BACKFLOW PROTECTION NOTES

STANDARD PLAN
609
PAGE 2



GENERAL NOTES:

1. ALL DUCTILE IRON SPOOLS SHALL BE ONE PIECE, CLASS 53, FLANGED, AND SHALL BE INSTALLED PER THE CITY OF HUNTINGTON BEACH STANDARD PLANS AND SPECIFICATIONS.
2. ALL FASTENERS SHALL BE TYPE 316 STAINLESS STEEL.
3. PIPE SUPPORT(S) ARE REQUIRED PER STANDARD PLAN 616.
4. ALL ABOVE GROUND PIPING, INCLUDING BACKFLOW DEVICE, SHALL BE PAINTED ACCORDING TO SPEC. 02087.1.
5. CONTRACTOR MUST POSSESS AN A OR C34 CONTRACTORS LICENSE TO PERFORM THE FIRE SERVICE CONSTRUCTION.
6. ALL FITTINGS SHALL BE DUCTILE IRON.
7. ALL FITTINGS SHALL BE INSTALLED PER STANDARD PLAN 616.
8. IMMEDIATELY AFTER INSTALLATION, RELOCATION, OR REPAIR, ALL BACKFLOW PREVENTION DEVICES SHALL BE TESTED BY A CERTIFIED TESTER APPROVED BY THE CITY OF HUNTINGTON BEACH. NO SERVICE SHALL BE DEEMED ACCEPTABLE UNTIL THE DEVICE IS TESTED AND CERTIFIED AFTER INSTALLATION.
9. TEE OR OTHER APPURTENANCES ARE PROHIBITED BETWEEN THE METER AND THE RPPD.

ITEM	DESCRIPTION	SPECIFICATION	QTY
①	TEE OR TAPPING TEE, FLG, PER STD PLAN No.619. 4" MIN. OR RPPD SIZE, WHICH EVER GREATER.	02085.9	1
②	VALVE BOX PER STD PLAN No. 612.	02085.9	1
③	P.V.C. PIPE AWWA C900, DR18. (4" MIN.)	02510.9	AR
④	90° ELBOW, FLANGED ABOVE GROUND, FLG OR MJ RESTRAINED BELOW GROUND.	02510.1	4
⑤	D.I. PIPE, TC 53, FLG X MJ, W/POLYETHYLENE ENCASEMENT. LENGTH AS REQUIRED.	02510.1	1
⑥	ADJUSTABLE PIPE SUPPORT PER STD. PLAN No. 616.	02510.8	1
⑦	REDUCED PRESSURE PRINCIPLE ASSY. PER STATE DIVISION OF DRINKING WATER APPROVED LIST.	02087.1	1
⑧	GATE VALVE PER STD. PLAN No. 619 (4" MIN.)	02085.9	1
⑨	RESILIENT WEDGE VALVE, FLANGED, W/HAND WHEEL	02085.9	1
⑩	REDUCER IF REQUIRED FLG OR MJ RESTRAINED.	02510.1	1
⑪	FLG X MJ ADAPTER.	02510.1	1

APPROVED:

Tom [Signature]
CITY ENGINEER

DATE: 11/17/16

CITY OF HUNTINGTON BEACH

DEPARTMENT OF PUBLIC WORKS



3" THROUGH 10"
REDUCED PRESSURE PRINCIPLE DEVICE
(RPPD)

STANDARD PLAN
609D