



SEE NOTES ON SHEET 2

ITEM NO	SIZE AND DESCRIPTION	ITEM NO	SIZE AND DESCRIPTION
①	CONCRETE THRUST BLOCK SEE SDW-151	⑫	APPROVED REDUCED PRESSURE DETECTOR ASSEMBLY (RPDA) SEE NOTE 3
②	WATER MAIN	⑬	CHAIN WITH KNOX LOCK SEE NOTE 3, SHEET 2 OF 2
③	GATE WELL WITH CAP SEE SDW-153	⑭	FLANGED TEE WITH "FDC" SEE NOTE 3, SHEET 2 OF 2
④	SIZE x SIZE MJ/FLG x FLG TEE	⑮	CONCRETE SLAB MINIMUM 4" THICK x 36" WIDE x AS REQUIRED
⑤	FLG x MJ/FLG RWGV	⑯	3/4" BYPASS, METER & RP ASSEMBLY
⑥	C-900 PVC PIPE	⑰	ADJUSTABLE VALVE SUPPORT
⑦	MJ x FLG 90* BEND	⑱	PVC OR DI PIPE SEE NOTE 8, SHEET 2 OF 2
⑧	FLANGED DUCTILE IRON PIPE		
⑨	COLD JOINT STRIP		
⑩	FLANGED 90* BEND, SEE NOTE 6, SHEET 2 OF 2		
⑪	FLANGED OS&Y RWGV WITH HAND WHEEL		

SHEET 1 OF 2

REVISION	BY	APPROVED	DATE
ORIGINAL*	KA	J. NAGELVOORT	01/12
UPDATED	KA	J. NAGELVOORT	8/13
UPDATED	FG	J. NAGELVOORT	07/15

CITY OF SAN DIEGO – STANDARD DRAWING

BACKFLOW PREVENTER FOR 4" AND LARGER FIRE SERVICE

RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE

Chung 7/21/15
COORDINATOR R.C.E. 56523 DATE

DRAWING NUMBER **SDW-105**

NOTES:

- 1) INSTALL WARNING / IDENTIFICATION TAPE.
- 2) LOCATE BACKFLOW PREVENTION ASSEMBLY IN SUCH A MANNER THAT WILL ALLOW THE DEVICE TO BE READILY ACCESSIBLE FOR INSPECTION, REPAIR, AND USE.
- 3) TAMPER SWITCH, AUTOMATIC RESET, CHAIN WITH KNOX LOCK, AND FIRE DEPARTMENT CONNECTION ("FDC") SHALL BE AS REQUIRED BY THE FIRE DEPARTMENT.
- 4) BALL VALVE TEST COCKS AND DETECTOR ASSEMBLY SHALL BE PROVIDED AND LOCATED PER THE MANUFACTURES RECOMMENDATIONS AND CITY STANDARDS.
- 5) INSTALL FIRE SERVICES SO THAT THE DISTANCE BETWEEN THE BOTTOM OF THE RELIEF DIAPHRAGM AND THE CONCRETE SLAB OR FINISH GRADE IS 12" MINIMUM AND 24" MAXIMUM.
- 6) INSTALL A PRESSURE REDUCING VALVE UPSTREAM OF THE FIRST 90 BEND WHEN SYSTEM STATIC PRESSURE EXCEEDS 150 PSI OR WHEN RECOMMENDED BY THE BACKFLOW MANUFACTURER.
- 7) INSTALL PIPE AND RELATED APPURTENANCES IN THIS AREA PER THE CITY REQUIREMENTS.
- 8) INSTALL PIPE AND RELATED APPURTENANCES IN THIS AREA AS REQUIRED BY THE FIRE DEPARTMENT.
- 9) ABOVE GROUND APPURTENANCES SHALL BE PAINTED AND IDENTIFIED AS CALLED FOR BY THE FIRE DEPARTMENT.
- 10) TESTING SHALL BE CONDUCTED AS REQUIRED BY THE PUBLIC UTILITIES DEPARTMENT CROSS CONNECTION CONTROL UNIT.
- 11) CONNECTIONS TO STEEL MAINS SHALL BE IN ACCORDANCE WITH SPECIFICATIONS.



LEGEND ON PLANS
SHEET 2 OF 2

REVISION	BY	APPROVED	DATE	CITY OF SAN DIEGO – STANDARD DRAWING	RECOMMENDED BY THE CITY OF SAN DIEGO STANDARDS COMMITTEE	
ORIGINAL*	KA	J. NAGELVOORT	01/12		BACKFLOW PREVENTER FOR 4" AND LARGER FIRE SERVICE	
UPDATED	KA	J. NAGELVOORT	8/13			COORDINATOR
UPDATED	FG	J. NAGELVOORT	07/15			R.C.E. 56523
				DATE		
					DRAWING NUMBER	
					SDW-105	