NOTES:

1. DOUBLE CHECK BACKFLOW PREVENTER ASSEMBLIES MAY ONLY BE INSTALLED FOR LOW HAZARD (NON-CHEMICAL) AREAS AND MUST BE APPROVED BY BOTH EMWD INSPECTION AND CROSS CONNECTION STAFF.
2. PROVIDE AN USC APPROVED BACKFLOW PREVENTION ASSEMBLY AS DESIGNATED BY EMWD APPROVED MATERIALS LIST SPECIFICATIONS.
3. EMWD MAINTENANCE RESPONSIBILITY STOPS AT THE METER. THE CUSTOMER IS RESPONSIBLE TO TEST AND MAINTAIN THE BACKFLOW PREVENTION ASSEMBLY, IN ACCORDANCE WITH EMWD ORD. 69.
4. ONLY RIVERSIDE COUNTY CERTIFIED BACKFLOW TESTERS LISTED ON THE EMWD APPROVED BACKFLOW TESTER LIST ARE ALLOWED TO TEST OR MAINTAIN BACKFLOW ASSEMBLIES WITHIN EMWD SERVICE AREA.
5. BACKFLOW CERTIFICATION TESTING IS REQUIRED ANNUALLY AT A MINIMUM BUT MAY BE MORE FREQUENT AS DEEMED NECESSARY BY EMWD. CERTIFICATION TESTING IS REQUIRED IMMEDIATELY AFTER AN ASSEMBLY IS RELOCATED, REPLACED, REPAIRED, NEW INSTALLATION ACCEPTANCE AND WATER DELIVERY PER EMWD ORD. 69 PRIOR TO NEW INSTALLATION ACCEPTANCE AND WATER DELIVERY.
6. BACKFLOW PREVENTION ASSEMBLY SIZE SHALL MATCH THE DIAMETER OF THE METER IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE; CHAPTER 6, SECTION 610 AS AMENDED, OR UP TO 1" INCH LARGER.
7. BACKFLOW PREVENTION ASSEMBLY INSTALLATIONS INCLUDING ALL APPURTENACES FOR THE SUPPLY OF DOMESTIC WATER SHALL COMPLY WITH THE REQUIREMENTS OF THE CALIFORNIA LEAD-FREE ACT AB1953.
8. BACKFLOW PREVENTION ASSEMBLIES SHALL BE LOCATED AS CLOSE AS PRACTICAL TO THE WATER METER BOX BUT NOT FURTHER THAN 3 FEET UNLESS A VARIANCE IS OBTAINED FROM AN EMWD CROSS-CONNECTION SPECIALIST PRIOR TO INSTALLATION.
9. NO OUTLETS, TEES, OR CONNECTIONS SHALL BE ALLOWED BETWEEN THE METER AND THE BACKFLOW PREVENTION ASSEMBLY.
10. BACKFLOW PREVENTION ASSEMBLIES SHALL MAINTAIN A VERTICAL CLEARANCE FROM THE LOWEST POINT OF 12 INCHES (MINIMUM) TO 36 INCHES (MAXIMUM) ABOVE FINISHED GRADE, WITH SIDE AND TOP CLEARANCES OF 12 INCHES (MINIMUM) FROM ANY OBSTRUCTIONS IN ALL DIRECTIONS.
11. POLYETHYLENE ENCASEMENT SHALL BE INSTALLED PER ANSI/AWWA C105/A21.5 REQUIREMENTS. HIGH-DENSITY POLYETHYLENE (HDCLPE) SHALL BE A MINIMUM OF .004 (4 MIL) THICKNESS. LOW-DENSITY POLYETHYLENE (LLDPE) SHALL BE A MINIMUM OF .008 (8 MIL) THICKNESS.
12. ALL DUCTILE IRON PIPE JOINTS SHALL BE THE RESTRAINT TYPE.

RECOMMENDATIONS:

13. PARALLEL INSTALLATIONS OF THE SAME TYPE OF BACKFLOW PREVENTION ASSEMBLIES ARE STRONGLY RECOMMENDED FOR ALL FACILITIES REQUIRING UNINTERRUPTED WATER SUPPLY.
14. FREEZE PROTECTION IS RECOMMENDED, BUT THE RELIEF VALVE MUST BE ABLE TO VENT FREELY AND TESTCOCK OPENINGS SHALL BE LEFT EXPOSED.
15. THEFT PREVENTION DEVICES ARE STRONGLY RECOMMENDED FOR BRONZE ASSEMBLIES ALLOWING ADEQUATE ACCESS TO THE ASSEMBLY FOR TESTING AND MAINTENANCE.

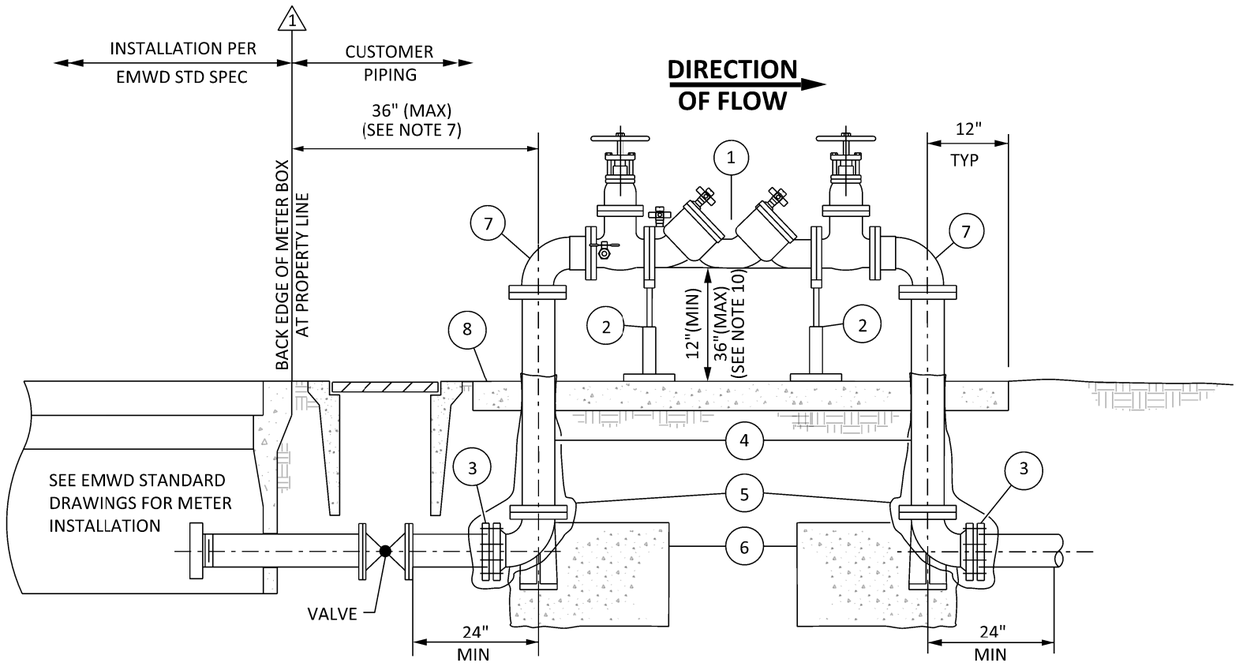

TABLE "A" 1

METER SIZE	BACKFLOW SIZE
3" SENSUS C2 (400 GPM)	4"
3" SENSUS T2 (500 GPM)	4"
4" SENSUS C2 (800 GPM)	6"
4" SENSUS T2 (1,000 GPM)	6"
6" SENSUS C2 (1,600 GPM)	8"
6" SENSUS T2 (2,000 GPM)	10"

ITEM	DESCRIPTION
1	4" THRU 10" DOUBLE CHECK BACKFLOW PREVENTER ASSEMBLY WITH VALVES
2	ADJUSTABLE PIPE SUPPORT
3	DI BASE BEND WITH CL 150 FLANGE X MECHANICAL JOINT
4	CLASS 53 DUCTILE IRON PIPE WITH CL 150 FLANGES
5	POLYETHYLENE ENCASEMENT PER ANSI/AWWA C105/A21.5 (SEE NOTE 11)
6	CONCRETE THRUST BLOCK PER B-407
7	DUCTILE IRON ¼ BEND WITH CL 150 FLANGES
8	36" WIDE X 4" THICK CONCRETE PAD. LENGTH VARIES PER BACKFLOW SIZE

REVISIONS

NO.	DATE	INITIAL	DESCRIPTION	APP'D	DATE
1	9/15/20	GS	UPDATED TITLE BLOCK, FONT, LOGO, ADDED 12", DELINEATION	AGA	9/15/20
			CALLOUT AND ADDED METER TABLE "A"		

APPROVALS

	INITIAL	DATE
DESIGN		
CONSTRUCTION	ML	11/14/11
INSPECTION	JEW	11/15/11
OPERATIONS	KG	11/14/11
SUBMITTED	VJB	11/14/11

emwd EASTERN MUNICIPAL WATER DISTRICT

EASTERN MUNICIPAL WATER DISTRICT
STANDARD DRAWING

DOUBLE CHECK BACKFLOW PREVENTER ASSY FOR SIZES 4" THROUGH 12"

REFERENCES:
FILE I.D.: \kauai\eng\std dwgs\B-968.dgn
SCALE: NONE
DRAWN BY: SL

RECOMMENDED Joe Mouawad 11/29/11
DIRECTOR OF ENGINEERING DATE

APPROVED Charlie J. Bachmann 11/30/11
ASSISTANT GENERAL MANAGER DATE

B-968

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