

NOTES

1. PROVIDE AN USC APPROVED BACKFLOW PREVENTION ASSEMBLY AS DESIGNATED BY EMWD APPROVED MATERIALS LIST SPECIFICATIONS.
2. EMWD MAINTENANCE RESPONSIBILITY STOPS AT THE METER. THE CUSTOMER IS MAINTAIN THE BACKFLOW PREVENTION ASSEMBLY, IN ACCORDANCE WITH EMWD ORD. 69. RESPONSIBLE TO TEST AND
3. ONLY RIVERSIDE COUNTY CERTIFIED BACKFLOW TESTERS LISTED ON THE EMWD APPROVED BACKFLOW TESTER LIST ARE ALLOWED TO TEST BACKFLOW ASSEMBLIES WITHIN EMWD SERVICE AREA.
4. 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.
5. BACKFLOW PREVENTION ASSEMBLY SIZE SHALL MATCH THE DIAMETER OF THE METER IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE; CHAPTER 6, SECTION 610 AS AMENDED, PER TABLE "A", OR AS APPROVED BY EMWD.
6. BACKFLOW PREVENTION ASSEMBLY INSTALLATIONS INCLUDING ALL APPURTENANCES FOR THE SUPPLY OF DOMESTIC WATER SHALL COMPLY WITH THE REQUIREMENTS OF THE CALIFORNIA LEAD-FREE ACT AB1953.
7. 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.
8. NO OUTLETS, TEES, OR CONNECTIONS SHALL BE ALLOWED BETWEEN THE METER AND THE BACKFLOW PREVENTION ASSEMBLY.
9. 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.
10. POLYETHYLENE ENCASUREMENT 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.

RECOMMENDATIONS

11. PARALLEL INSTALLATIONS OF THE SAME TYPE OF BACKFLOW PREVENTION ASSEMBLIES ARE STRONGLY RECOMMENDED FOR ALL FACILITIES REQUIRING UNINTERRUPTED WATER SUPPLY, SUCH AS, HOSPITALS AND SCHOOLS. WHEN THE METER CAPACITY EXCEEDS THE 10" BACKFLOW CAPACITY, PARALLEL BACKFLOWS SHALL BE INSTALLED. SEE MANIFOLD DETAIL.
12. FREEZE PROTECTION IS RECOMMENDED, BUT THE RELIEF VALVE MUST BE ABLE TO VENT FREELY AND TESTCOCK OPENINGS SHALL BE LEFT EXPOSED.
13. THEFT PREVENTION DEVICES ARE STRONGLY RECOMMENDED FOR BRONZE ASSEMBLIES ALLOWING ADEQUATE ACCESS TO THE ASSEMBLY FOR TESTING, MAINTENANCE, AND PROPER DRAINAGE.

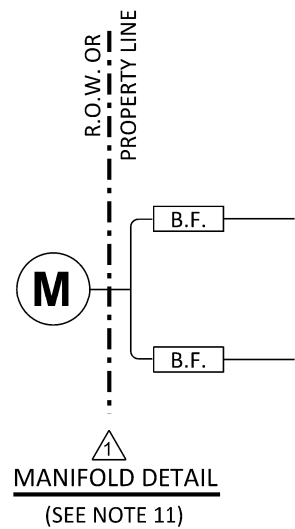
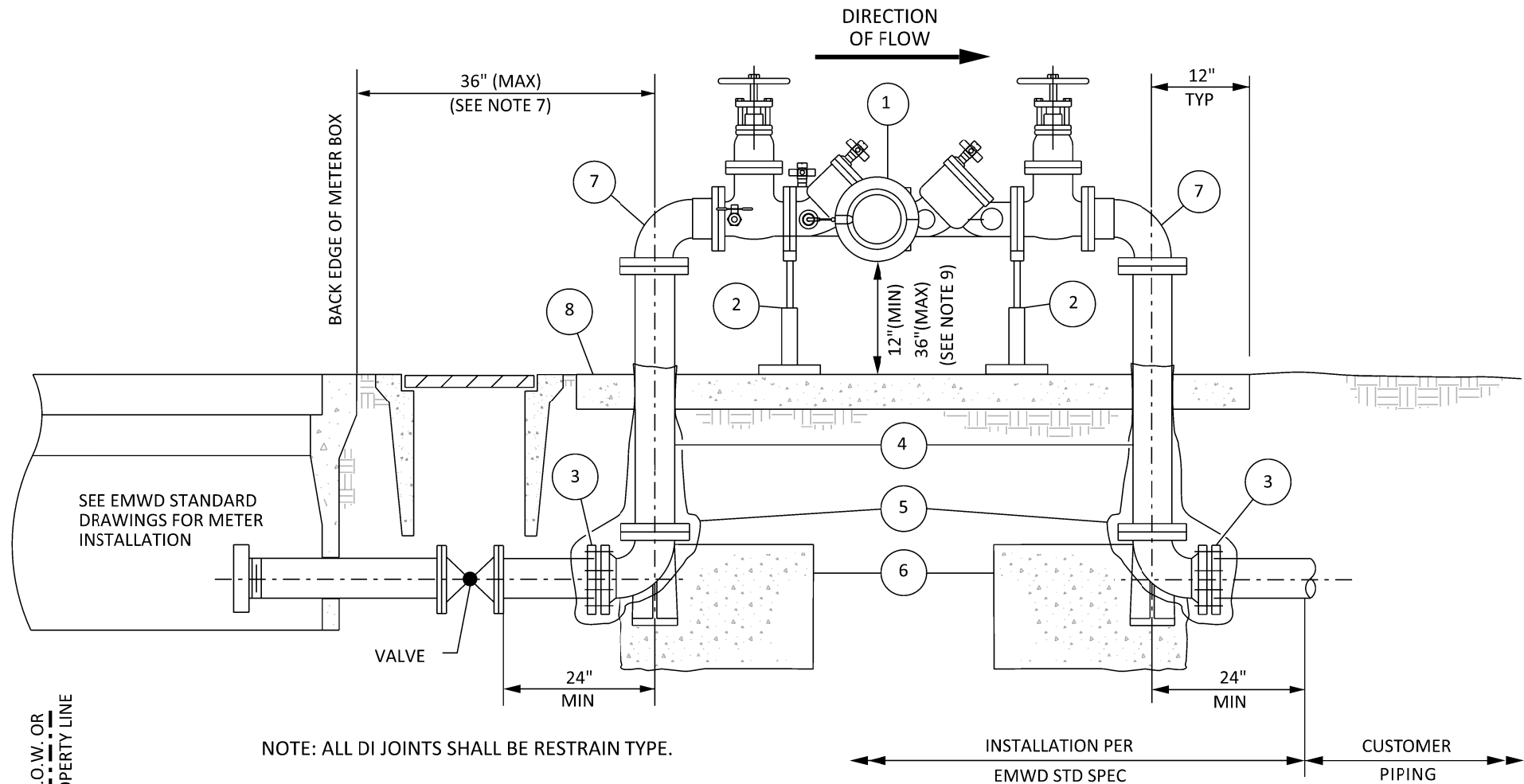


TABLE "A"

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" REDUCED PRESSURE 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 ENCASUREMENT PER ANSI/AWWA C105/A21.5 (SEE NOTE 10)
6	CONCRETE THRUST BLOCK PER B-407
7	DUCTILE IRON 1/4 BEND WITH CL 150 FLANGES
8	36" WIDE X 4" THICK CONCRETE PAD. LENGTH VARIES PER BACKFLOW SIZE

REVISIONS				APPROVALS			 EASTERN MUNICIPAL WATER DISTRICT	EASTERN MUNICIPAL WATER DISTRICT STANDARD DRAWING	
NO.	DATE	INITIAL	DESCRIPTION	APP'D	DATE	DATE		REDUCED PRESSURE BACKFLOW PREVENTER ASSY SIZES 4" THROUGH 10"	
						DESIGN	<i>VJB</i>	5/12/11	
						CONSTRUCTION	<i>MJ</i>	5/23/11	
						INSPECTION	<i>JEW</i>	6/14/11	
	9/15/20	GS	UPDATED TITLE BLOCK, FONT AND LOGO	<i>AGA</i>	9/15/20	OPERATIONS	<i>KG</i>	5/18/11	
	3/5/14	GS	REVISED NOTE #5, ADDED TABLE "A", AND MANIFOLD DETAIL	<i>AGA</i>	3/5/14	SUBMITTED	<i>SMM</i>	5/12/11	
REFERENCES:				SCALE: NONE		RECOMMENDED <i>Joe Mouawad</i> 6/21/11 DIRECTOR OF ENGINEERING DATE		APPROVED <i>Charlie Bachmann</i> 6/21/11 ASSISTANT GENERAL MANAGER DATE	
FILE I.D.: \kauai\eng\std dwgs\B-597C.dgn				DRAWN BY: GS					