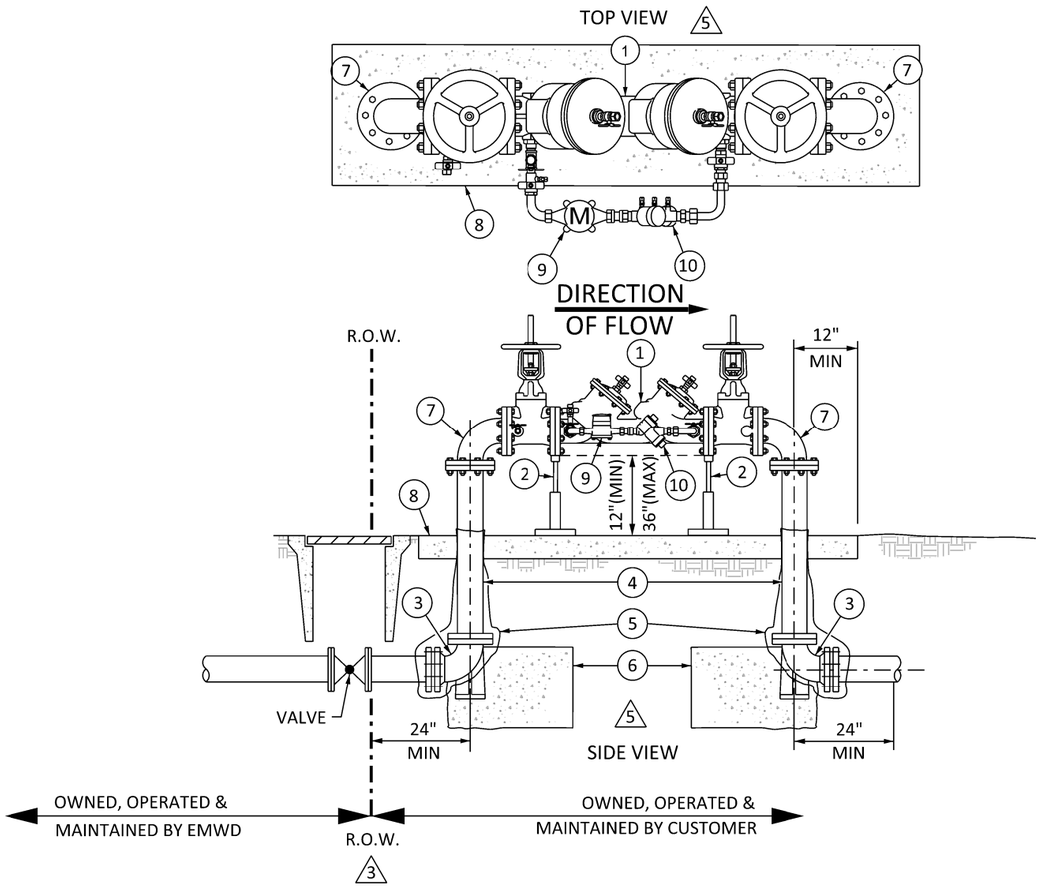
NOTES: (5)

1. PROVIDE A USC APPROVED BACKFLOW PREVENTION ASSEMBLY AS DESIGNATED BY EMWD APPROVED MATERIALS LIST SPECIFICATIONS.
2. (7) RPDA TO BE USED ONLY FOR HIGH-HAZARD CONDITIONS, AS SPECIFIED BY EMWD AND DEPICTED ON PLANS.
3. EMWD MAINTENANCE RESPONSIBILITY STOPS AT THE RIGHT OF WAY. THE CUSTOMER IS RESPONSIBLE TO TEST AND MAINTAIN THE BACKFLOW PREVENTION ASSEMBLY, IN ACCORDANCE WITH EMWD ADMINISTRATIVE CODE.
4. ONLY RIVERSIDE COUNTY CERTIFIED BACKFLOW TESTERS LISTED ON THE EMWD APPROVED BACKFLOW TESTER LIST ARE ALLOWED TO TEST BACKFLOW ASSEMBLIES WITHIN EMWD SERVICE AREA.
5. CERTIFICATION TESTING IS REQUIRED IMMEDIATELY AFTER AN ASSEMBLY IS RELOCATED, REPLACED, REPAIRED, NEW INSTALLATION ACCEPTANCE AND WATER DELIVERY PER EMWD ADMINISTRATIVE CODE PRIOR TO NEW INSTALLATION ACCEPTANCE AND WATER DELIVERY.
6. BACKFLOW PREVENTION ASSEMBLY SIZE SHALL BE BASED ON THE REQUIRED FIRE FLOW DEMAND.
7. 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. THE USE OF A DCDA FOR FIRE SYSTEMS OR LANDSCAPING ARE NOT REQUIRED TO BE LEAD-FREE.
8. BACKFLOW PREVENTION ASSEMBLIES SHALL BE LOCATED AS CLOSE AS PRACTICAL TO THE RIGHT OF WAY BUT NOT FURTHER THAN 3 FEET UNLESS A VARIANCE IS OBTAINED FROM AN EMWD CROSS-CONNECTION SPECIALIST PRIOR TO INSTALLATION. ASSEMBLY SHALL BE VISIBLE AND READILY ACCESSIBLE FROM THE RIGHT-OF-WAY AND MEET ALL CITY ZONING AND BUILDING CODES.
9. NO OUTLETS, TEES, OR CONNECTIONS SHALL BE ALLOWED BETWEEN EMWD RSGV AND BACKFLOW 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 JOINTS SHALL BE RESTRAINT TYPE.
13. ALL CML&C PIPE TO MEET EMWD SPECIFICATION 15061.

RECOMMENDATIONS:

14. 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.
15. FREEZE PROTECTION IS RECOMMENDED, BUT THE RELIEF VALVE MUST BE ABLE TO VENT FREELY AND TESTCOCK OPENINGS SHALL BE LEFT EXPOSED.
16. THEFT PREVENTION DEVICES ARE STRONGLY RECOMMENDED FOR BRONZE ASSEMBLIES. EMWD MUST BE PROVIDED ACCESS TO THE ASSEMBLY FOR TESTING. THEFT PREVENTION DEVICES SHALL PROVIDE ADEQUATE ACCESS FOR MAINTENANCE AND MAINTAIN PROPER DRAINAGE.



NOTE: ALL DI JOINTS SHALL BE RESTRAIN TYPE

DCDA & RPDA (2) (5)

(4) SIZE	RECOMMENDED FLOW (HEAD LOSS VARIES)
4"	1 GPM - 500 GPM
6"	1 GPM - 1,000 GPM
8"	1 GPM - 1,600 GPM
10"	1 GPM - 2,300 GPM
12"	1 GPM - 3,500 GPM

(5)

ITEM	DESCRIPTION
1	4" THRU 12" DCDA 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 10)
6	CONCRETE THRUST BLOCK PER B-407
7	DUCTILE IRON 90° BEND WITH CL 150 FLANGES
8	36" WIDE X 4" THICK CONCRETE PAD. LENGTH VARIES PER BACKFLOW SIZE
9	DETECTOR ASSEMBLY BYPASS METER
10	DETECTOR ASSEMBLY BYPASS DOUBLE CHECK BACKFLOW DEVICE

REVISIONS

NO.	DATE	INITIAL	DESCRIPTION	APP'D	DATE
(7)	3/20/19	GS	ADDED NOTE NUMBER 2	AGA	3/20/19
(6)	6/2/17	GS	UPDATED TITLE BLOCK, FONT, NAME & LOGO	AGA	6/2/17
(5)	5/15/15	GS	REMOVED VAULT INSTALLATION , REVISED NOTES, PARTS LIST, RECOMMENDED FLOWS, ADDED TOP VIEW, AND REMOVED RPDA FROM DRAWING	AGA	5/15/15

APPROVALS

	INITIAL	DATE
DESIGN		
CONSTRUCTION		
INSPECTION	JEW	12/3/97
OPERATIONS	KG	12/5/97
SUBMITTED	VJB	12/2/97

emwd EASTERN MUNICIPAL WATER DISTRICT

EASTERN MUNICIPAL WATER DISTRICT
STANDARD DRAWING

4", 6", 8", 10", OR 12" DOUBLE CHECK DETECTOR ASSEMBLY REDUCED PRESSURE DETECTOR ASSEMBLY

REFERENCES:

FILE I.D.: \kauai\eng\std dwgs\B-657.dgn

SCALE: NONE

DRAWN BY: GS

RECOMMENDED _____ DIRECTOR OF ENGINEERING DATE

APPROVED Charlie Bachmann 12/3/97 ASSISTANT GENERAL MANAGER DATE

B-657 (7)