

FLOW RATE TABLE ¹

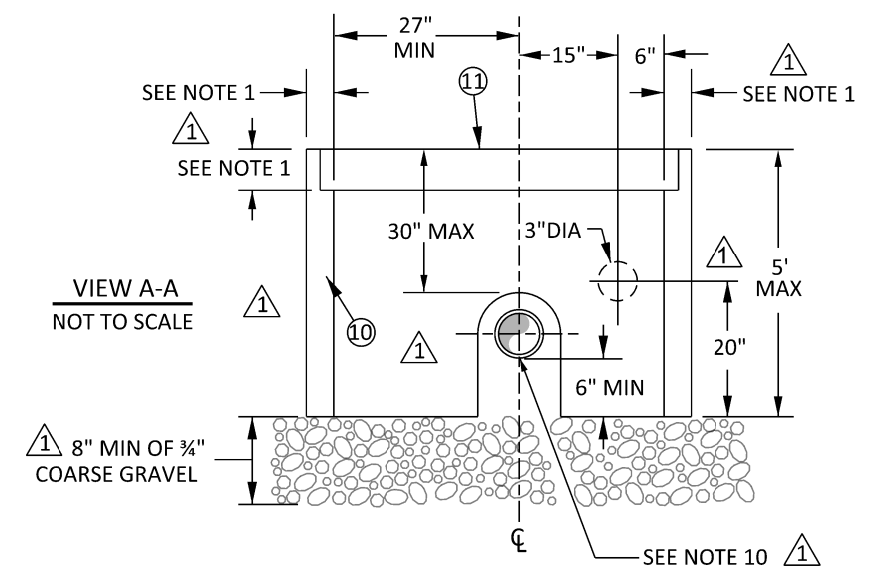
FUTURE METER SIZE	FLOW RATE (GPM)	EMWD STD DWG	LATERAL SIZE	VELOCITY (FT/S)	METER LENGTH
3" OMNI C2	400	PB-1	4"	8.4	17"
3" OMNI T2	500	PB-1	4"	10.6	19"
3" OMNI C2	400	PB-1	6"	4.1	17"
3" OMNI T2	500	PB-1	6"	5.1	19"

MATERIALS LIST

ITEM	QTY	DESCRIPTION
¹ ①	1	3" METER WITH AMR COMMUNICATION ENCODER*
¹ ②	2	4" OR 6" RESILIENT SEAT GATE VALVE Fx F
¹ ③	1	3" VICTAULIC COUPLING
¹ ④	1	3" FLGD VICTAULIC NIPPLE W/3" METER FLANGE
¹ ⑤	1	4"X3" COMPANION FLG x VICTAULIC NIPPLE (LENGTH VARIES)
¹ ⑥	2	4" OR 6" FLGD SPOOL (LENGTH VARIES)
¹ ⑦	1	4"x 24" OR 6"x 24" FLANGED SPOOL
¹ ⑧	1	BLIND FLANGE (IF REQUIRED)
¹ ⑨	LF	4" OR 6" PIPE
¹ ⑩	1	UTILITY BOX/VAULT ** SEE NOTE 1
¹ ⑪	1	TORSION SPRING ASSIST. 2-PC LID : PARKWAY OR TRAFFIC COVER (ALUMINUM). ROADWAY APPLIC. TO MEET AASHTO H-20 DIRECT TRAFFIC RATING (STEEL).
¹ ⑫	2	2" COPPER SWXIPM ADAPTER
¹ ⑬	1	4"x3" COMPANION FLANGE, 3" PIPE W/3" METER FLANGE
¹ ⑭	1	LADDER SEE NOTE 15
¹ ⑮	15'+/-2"	COPPER TUBING TYPE K. SEE NOTE 12
¹ ⑯	2	2"x 90 DEG COPPER SWEAT ELBOW
¹ ⑰	2	2" COPPER MIPxSWEAT ADAPTER, (CORP STOP W/PVC)
¹ ⑱	2	2-1/2"x 4" SERVICE SADDLE W/2-1/2"x 2" BRASS RED BUSHING, (2" SERVICE CLAMP W/PVC)
¹ ⑲	1	2" BRASS CURB STOP

NOTES

- ¹ ** 1. METER DIMENSIONS MAY VARY. CONTRACTOR SHALL VERIFY METER DIMS & SUPPLY UTILITY BOX WITH SPECIFIED CLEARANCE, WALL THICKNESS PER MANUFACTURER SPECIFICATION.
- 2. METER REGISTERS TO BE IN ACRE FEET.
- 3. A 3" METER FLANGE IS A STANDARD 3" FLANGE WITH A 4"+ ID (3"OUTx4"IN COMPANION FLANGE).
- ¹ 4. METER VAULT SHALL BE PLACED ON A MIN. 8" THICK BEDDING OF 3/4" COARSE GRAVEL.
- 5. READ HOLES ARE TO BE POSITIONED OVER METER REGISTERS AFTER METER IS INSTALLED PER B-976.
- 6. VAULT LIDS TO BE PRIMED & PAINTED EMWD APPROVED PURPLE.
- 7. ALL MATERIALS PER EMWD APPROVED MATERIAL LIST.
- 8. DEPTH OF METER SHALL BE 30" MAX. FROM VAULT LID TO TOP OF METER.
- 9. IF VAULT IS PLACED IN DIRT/LANDSCAPE, PLACE TOP 4" ABOVE GRADE AND GRADE AWAY FROM VAULT TO PREVENT WATER FROM ENTERING.
- 10. PROVIDE A MINIMUM 4" CLEARANCE BETWEEN PIPE AND KNOCKOUT HOLE WITH A MINIMUM OF 6" CLEARANCE ABOVE THE VAULT FLOOR. METER SUPPORT AS REQUIRED.
- ¹ 11. FOR INDUSTRIAL AND COMMERCIAL CUSTOMERS, A 2" BYPASS LINE IS REQUIRED.
- ¹ 12. ALL 2" PIPE AND FITTINGS SHALL:
 - A. BE MADE OF BRASS OR BRONZE; B. BE OF THE BANDED PATTERN; C. BE DESIGNED FOR A MIN OF 175 PSI (COLD) WATER WORKING PRESSURE.
- ¹ 13. SYSTEMS WITH ONSITE PUMPS SHALL NOT EXCEED 5 FPS VELOCITY WITHIN THE SERVICE LATERAL. SYSTEMS WITHOUT PUMPS, SHALL NOT EXCEED 10 FPS. (SEE FLOW RATE TABLE)
- ¹ 14. CONTRACTOR SHALL RETURN AFTER ROAD SHOULDER OR PARKWAY IS COMPLETE TO INSTALL METER VAULT, AND SHALL BE RESPONSIBLE FOR COORDINATING WORK OF OTHER CONTRACTORS FOR SAFEGUARDING SERVICES UNTIL METER VAULT IS SET.
- ¹ 15. INSTALL LADDER PER B-519 OR B-520 FOR VAULT DEPTHS GREATER THAN 5 FT.
- ¹ 16. WHEN A SMALLER METER IS USED, REDUCED PIPE SIZING SHALL BE 2 1/2 TIMES THE PIPE DIAMETER IN LENGTH AT A MINIMUM FOR BOTH PRE AND POST METER PIPING.



REVISIONS				APPROVALS			 EASTERN MUNICIPAL WATER DISTRICT	EASTERN MUNICIPAL WATER DISTRICT STANDARD DRAWING		
NO.	DATE	INITIAL	DESCRIPTION	APP'D	DATE	INITIAL		DATE	3" RECYCLED METER INSTALLATION	
						DESIGN	<i>CM</i> 5/13/05	<div style="display: flex; justify-content: space-between; align-items: center;"> <div style="text-align: center;"> <p>APPROVED <i>Charlie Bachmann</i> 5/16/05</p> <p>CHIEF ENGINEER DATE</p> </div> <div style="text-align: center; font-size: 24px; font-weight: bold;">PB-13</div> </div>		
						CONSTRUCTION	<i>CD</i> 5/16/05			
						INSPECTION	<i>KG</i> 5/13/05			
						OPERATIONS	<i>VJB</i> 5/16/05			
						SUBMITTED				
¹	12/13/16	GS	ADDED 2" BYPASS, UPDATED MATERIAL LIST, NOTES, DETAILS, & REFERENCES	<i>ACA</i>	12/14/16					
REFERENCES:				SCALE: NONE						
FILE I.D.: \kauai\eng\std dwgs\PB-13.dgn				DRAWN BY: CM						