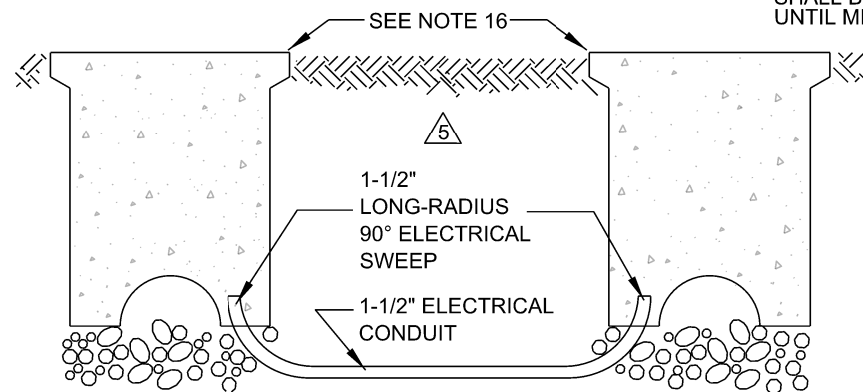
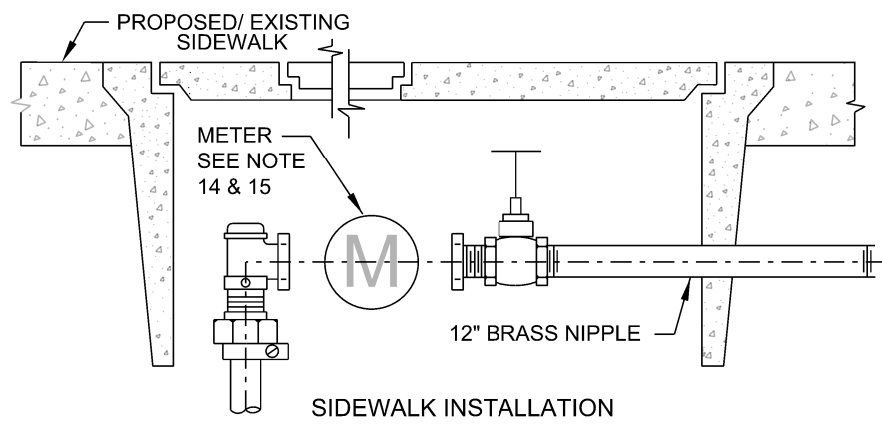


2" WATER SERVICE CONNECTION 1 1/2" METER
NOT TO SCALE

FLOW RATE TABLE

LATERAL SIZE	METER SIZE	FLOWRATE (GPM)	VELOCITY (ft/s)	METER LENGTH
2" COPPER	1 1/2" MULTIJET	75	8.00	13"
4" SERVICE	1 1/2" MULTIJET	75	2.00	13"



GENERAL NOTES

- ALL PIPE AND FITTINGS BETWEEN AND INCLUDING THE CORPORATION STOP AND GATE VALVE SHALL:
 - BE MADE OF BRASS OR BRONZE;
 - BE OF THE BANDED PATTERN;
 - BE DESIGNED FOR A MIN OF 175 PSI (COLD) WATER WORKING PRESSURE.
- PRESSURE TEST PER EMWD SPECIFICATIONS.
- ALL BARE IRON AND STEEL SHALL BE COATED WITH CEMENT MORTAR AS PER THE FIELD ENGINEER.
- ALTERNATE MATERIALS MAY BE USED UPON APPROVAL BY THE ENGINEER.
- CORPORATION STOP, FITTINGS, AND SERVICE LINE WITHIN 3 FEET OF SADDLE SHALL BE PRIMED AND WRAPPED WITH APPROVED COAL-TAR RESIN TAPE.
- ALL SERVICE PIPE AND TUBING SHALL BE LAID ON A CONSTANT SLOPE UP FROM THE WATER MAIN TO THE METER. NO DIPS OR POCKETS IN LINE WILL BE PERMITTED; 36" COVER AT GAS MAIN CROSSINGS.
- THREAD NOTATION SHOWN THUS:
 - IP = IRON PIPE THREAD;
 - CS = CORPORATION STOP (MUELLER) THREAD;
 - CT = COPPER SERVICE THREAD.
- METER BOX SHALL BE EMWD APPROVED 13" x 24" COMPLETE WITH TWO PIECE COVER, LID, AND ONE (1) - 7" EXTENSION WITH KNOCKOUTS AND AMR/AMI ANTENNA PORT (SEE NOTE F FOR SIDEWALK INSTALLATION).
- VALVE BOX SHALL BE EMWD APPROVED 8" DIA x 10" DEEP, COMPLETE WITH COVER.
- ORIFICE PLATE RESTRICTING MAXIMUM FLOW TO BE INSTALLED WHEN REQUIRED PER CUSTOMER SERVICE ENGINEER.
- WHEN METER IS FURNISHED BY OTHERS, USE 1 1/2" GALV NIPPLE C/W 1 1/2" METER FLANGES AT EACH END. LOCK ANGLE METER STOP CLOSED WITH LEAD SEAL AND THREE-STRAND SEALING WIRE. REFER TO FLOW RATE TABLE FOR NIPPLE LENGTH.
- METER PORT HOLES CENTER TO BE INSTALLED 10" BELOW TOP OF METER BOX.
- SERVICES THAT REQUIRE BACKFLOW PROTECTION FOR ONSITE HAZARDS PER EMWD ORD. 69 SHALL BE PER B-597
- SYSTEMS WITH ONSITE PUMPS SHALL NOT EXCEED 5 FPS VELOCITY WITHIN THE SERVICE LATERAL. SYSTEMS WITHOUT PUMPS, SHALL NOT EXCEED 10 FPS. (SEE B-342A)
- FOR SINGLE FAMILY RESIDENTIAL UNITS, ENGINEER TO VERIFY THE ADEQUACY OF THE SERVICE LATERAL SIZE TO ALLOW FOR OPERATION OF RESIDENTIAL FIRE SPRINKLER SYSTEM. FOR COMMERCIAL AND INDUSTRIAL APPLICATIONS, SERVICE LATERAL SIZE WILL BE BASED ON VELOCITIES BEING UNDER 10 FT/S
- INSTALL 1-1/2" PVC SCH. 40 ELECTRICAL CONDUIT BETWEEN ALL METER BOXES THAT ARE LOCATED NEAR PL WITHIN 10' OF EA. OTHER. TAPE END OF SWEEPS PREVENTING DEBRIS FROM ENTERING CONDUIT. PLACE SWEEPS INSIDE AND AGAINST SIDE OF METER BOX.
- CONTRACTOR SHALL RETURN AFTER ROAD SHOULDER OR PARKWAY IS COMPLETE TO INSTALL METER BOX, AND SHALL BE RESPONSIBLE FOR COORDINATING WORK OF OTHER CONTRACTORS FOR SAFEGUARDING SERVICES UNTIL METER BOXES ARE SET.

PLACEMENT OF METER BOX

- PLACE FRONT EDGE OF METER BOX 1.5' BEHIND EXISTING OR PROPOSED 6' OR 8' SIDEWALKS.
- WHEN PROPOSED OR EXISTING SIDEWALK IS 12' WIDE, PLACE FRONT EDGE OF METER BOX 1.5' BEHIND CURB USING APPROPRIATE BOX.
- WHEN NO SIDEWALK IS PROPOSED, PLACE FRONT EDGE OF METER BOX 7.5' BEHIND CURB.
- WHEN NO CURBS ARE EXISTING OR TO BE INSTALLED UPON COMPLETION OF THE WATER SYSTEM, PLACE BACK EDGE OF METER BOX ON PROPERTY LINE.
- MINIMUM 5' SEPARATION BETWEEN SEWER LATERAL AND WATER SERVICE.
- WHEN INSTALLED IN CONCRETE (SIDEWALK), USE 30" x 48" METER BOX WITH 2 PC LID ASSEMBLY WHICH INCLUDES CI READING LID.

REVISIONS				APPROVALS		
NO.	DATE	INITIAL	DESCRIPTION	APP'D	DATE	DATE
7	8/25/16	GS	REVISED NOTE 11 WITH METER LENGTH	AGA	8/26/16	DESIGN
6	6/9/15	GS	REVISED METER DATA TABLE AND NOTE #8	AGA	6/9/15	CONSTRUCTION
5	3/22/14	GS	REVISED TITLE, ADDED NOTES 14, 15, 16, & 17, FLOW RATE TABLE, ELECTRICAL CONDUIT DETAIL, REMOVED POC DETAIL	AGA	10/30/14	INSPECTION
4	3/22/01	GR	REVISED FILE ID NO.			OPERATIONS
						SUBMITTED

EASTERN MUNICIPAL WATER DISTRICT
STANDARD DRAWING

1 1/2" METER INSTALLATION

RECOMMENDED *Joseph D. Van Sickle* 10/20/95
DIRECTOR OF ENGINEERING DATE

APPROVED *G. Hooite Rugge* 10/20/95
CHIEF ENGINEER DATE

B-342

REFERENCES: ORIG DRAWN 10/70
FILE I.D.: \kauai\eng\std dwgs\B-342.dgn

SCALE: NONE
DRAWN BY: KER

