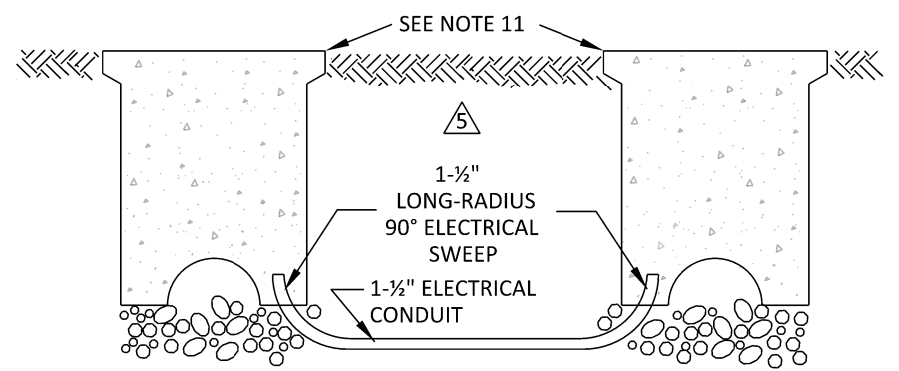


FLOW RATE TABLE

FUTURE METER SIZE	FLOW RATE (GPM)	EMWD STD DWG	VELOCITY (FT/S)	METER LENGTH
5/8" MULTIJET	15	B-590	1.6	7 1/2"
3/4" MULTIJET	20	B-590	2.13	7 1/2"
1" MULTIJET	30	B-591	3.19	10 3/4"
1 1/2" MULTIJET	75	B-342	7.98	13"



GENERAL NOTES

- ALL PIPE AND FITTINGS BETWEEN AND INCLUDING 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 PER EMWD SPECIFICATIONS.
- ALL LISTED MATERIALS TO BE PER EMWD APPROVED MATERIALS LIST.
- CORPORATION STOP, FITTINGS, AND SERVICE LINE WITHIN 3 FEET OF SADDLE SHALL BE PRIMED & WRAPPED WITH APPROVED COAL-TAR RESIN TAPE.
- ALL SERVICE PIPE AND TUBING SHALL BE LAID ON A POSITIVE 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).
 - CT = COPPER SERVICE THREAD.
 - PJ = PACKING JOINT.
- METER BOX SHALL BE EMWD APPROVED COMPLETE WITH TWO-PIECE COVER AND LID WITH AMR/AMI ANTENNA PORT PER METER STANDARD DRAWING.
- VALVE BOX, IF REQUIRED, SHALL BE PER METER STANDARD DRAWING.
- 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.
- 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.
- SYSTEMS WITH ONSITE PUMPS SHALL NOT EXCEED 5 FPS VELOCITY WITHIN THE SERVICE LATERAL. SYSTEMS WITHOUT PUMPS, SHALL NOT EXCEED 10 FPS.
- FOR A 1 INCH METER INSTALLATION AN 1-1/2" METER FLANGE X FNPT WITH 1" METER TAIL PIECE WILL BE REQUIRED. FOR A 3/4" & 5/8" METER INSTALL A 1" X 3/4" METER BUSHING WILL BE REQUIRED. SEE MANUFACTURER'S SPECIFICATIONS FOR METER INSTALLATION.
- 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 SIZES WILL BE BASED ON VELOCITIES BEING UNDER 10 FT/S.
- 2" COPPER SERVICE LATERAL TO BE REDUCED TO 1-1/2" OR 1" COPPER AFTER THE 90° TRANSITION. A 1" METER ANGLE STOP TO BE INSTALLED WITH METER REDUCER BUSHING.

PLACEMENT OF METER BOX

- PLACE FRONT EDGE OF METER BOX 6" BEHIND EXISTING OR PROPOSED 6' OR 8' SIDEWALKS.
- WHEN PROPOSED OR EXISTING SIDEWALK IS 12' WIDE, PLACE FRONT EDGE OF BOX 1.5' BEHIND CURB USING APPROPRIATE BOX.
- WHEN NO SIDEWALK IS PROPOSED, PLACE FRONT EDGE OF METER BOX 7.5' BEHIND CURB.
- UPON COMPLETION OF WATER SYSTEM, WHEN NO CURBS ARE EXISTING NOR WILL BE INSTALLED, PLACE BACK EDGE OF METER BOX ON PROPERTY LINE.
- A MINIMUM 5' SEPARATION IS TO BE BETWEEN SEWER LATERAL AND WATER SERVICE.
- WHEN INSTALLED IN CONCRETE (SIDEWALK), SEE METER STANDARD DRAWING FOR METER BOX INSTALLATION SPECIFICATIONS.

REVISIONS					
NO.	DATE	INITIAL	DESCRIPTION	APP'D	DATE
5	6/22/15	GS	REVISED CALLOUTS, NOTES AND ADDED FLOW RATE TABLE	ACA	8/31/16
4	8/28/03	CM	RELOCATE FUTURE VALVE BOX	VJB	10/15/03
3	5/22/00	GR	REVISED NOTE 2 & DWG NO IN CALLOUT	VJB	5/24/00
2	2/10/97	CRD	REVISED NOTE 8, ADDED COMPACTED MATERIAL	VJB	4/4/97
1	8/17/95	KER	REDRAWN W/CADD ON MYLAR	VJB	10/95

APPROVALS		
	INITIAL	DATE
DESIGN		
CONSTRUCTION		
INSPECTION		
OPERATIONS	ML	10/23/95
SUBMITTED		



**EASTERN MUNICIPAL WATER DISTRICT
STANDARD DRAWING**

2" COPPER SERVICE CONNECTION

REFERENCES: SUPERCEDES B-343A
SCALE: NONE
DRAWN BY: KER

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

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

B-344A

