

STANDARD METER VAULT NOTES

1. VAULTS SHALL BE PROPERLY DESIGNED AND SIZED FOR EACH SPECIFIC APPLICATION AND SITE CONDITION. PROVIDE CLEARANCE BETWEEN METERS, VALVES AND OTHER EQUIPMENT FROM WALLS, FLOORS AND OTHER EQUIPMENT AT MINIMUM CLEARANCES (OR AS OTHERWISE APPROVED BY DWSD). PROVIDE ADEQUATE DESIGN FOR ALL SITE CONDITIONS TO INCLUDE BUT NOT LIMITED TO UPLIFT FORCES, WITHSTAND A MINIMUM H-20 CLASS LOADING WHERE APPLICABLE AND OTHERS AS REQUIRED.
2. ALL MEASUREMENTS SHALL BE VERIFIED AS PART OF THE SHOP DRAWING SUBMITTAL PROCESS AND DOCUMENTED IN AS BUILTS IN ACCORDANCE WITH SPECIFICATIONS.
3. ALL METERS 1½ INCHES AND LARGER MUST HAVE A BYPASS WITH VALVE OF SAME SIZE LOCATED IN METER VAULT OR AS DIRECTED BY DWSD.
4. ALL METER VAULTS SHALL INCLUDE DESIGN, COORDINATION, LOCATION AND INSTALLATION OF THE FOLLOWING BUT NOT LIMITED TO, PIPING, VALVES, METERS, CHECK VALVES, PRESSURE REGULATING VALVE, SUMP, 1 OR 2 SUMP PUMPS, VENTILATION SYSTEM, ELECTRICAL, LIGHTS, LADDER, HATCH, SCADA SYSTEM AND OTHER CRITICAL SYSTEMS (AS DETERMINED BY DWSD).
5. HATCH SHALL BE LOCATED OVER METER AND SHALL BE LOCATED TO ALLOW ENTRY WITHOUT CLIMBING OVER VAULT COMPONENTS. HATCH SHALL ALSO BE LOCATED AND LARGE ENOUGH TO ALLOW METERS AND VALVES TO EASILY PASS THROUGH OPENING WITHOUT MODIFICATION OR DAMAGE.
6. ALL MECHANICAL THRUSTS, RESTRAINTS, TIE RODS AND SUPPORTS SHALL BE CORRECTLY DESIGNED, SIZED, AND INSTALLED TO PREVENT MOVEMENT OF VAULT COMPONENTS TO INCLUDE BUT NOT LIMITED TO DRESSER TYPE COUPLING, GATE VALVES, PIPE, EQUIPMENT AND OTHER ITEMS.
7. THERE SHALL BE NO VALVES, DIRECTION CHANGES, OR ANYTHING ON INFLOW SIDE THAT WILL DISRUPT LAMINAR FLOW THROUGH METER WITHIN 5 PIPE DIAMETERS OF THE METER OR AS OTHERWISE DIRECTED BY MANUFACTURER OR DWSD.
8. REFER TO STANDARD DRAWING FOR SUMP PIPING. PROVIDE ADEQUATE WATERPROOFING AS APPLICABLE.
9. CATHODIC PROTECTION SHALL INCLUDE ANODE ALARM STATION WITH REMOTE MONITORING THROUGH COMPUTER CONTROL SYSTEMS ON APPLICABLE METAL VAULTS.
10. ALL VAULTS SHALL BE DESIGNED BY A LICENSED PROFESSIONAL ENGINEER AND SHALL BE SIGNED AND SEALED BY THE DESIGNER.

C						METER VAULT, STANDARD NOTES	CITY OF DETROIT WATER AND SEWERAGE DEPARTMENT ENGINEERING DIVISION	
B							SHEET 1 of 1	
A							13400-01	
	DESCRIPTION	DRW	CKD	APP	DATE		SCALE: NONE	DWG No.
REVISIONS								
DRAWN BY: S.D.A.								
CHECKED BY: S.D.A.								
APPROVED:								