

WATER METER VAULT AND LID - NOTES

1. METERS 2 IN. AND LARGER SHALL BE INSTALLED IN A CONCRETE VAULT.
2. METERS 8 IN. AND LARGER REQUIRE PROJECT SPECIFIC DESIGN PLANS SEALED BY A PROFESSIONAL ENGINEER.
3. VAULTS SHALL HAVE A MINIMUM 12 IN. WORKING CLEARANCE, EXCEPT FOR PENETRATIONS WHICH SHALL HAVE 6 IN. OF CLEARANCE BETWEEN FIRST FITTING AND INSIDE FACE OF WALL.
4. CONCRETE VAULTS SHALL HAVE VAULT WALLS AND FOUNDATIONS OF A MINIMUM THICKNESS OF 6 INCHES.
5. SWEATED, GALVANIZED, OR PVC JOINTS SHALL NOT BE ACCEPTED. NON-LEADED BRASS, COPPER TUBING WITH THREADED OR COMPRESSION COUPLINGS, OR POLY PIPE WITH STAINLESS STEEL INSERTS WILL BE ACCEPTED.
6. THE METER IS TO BE LOCATED IN A NON-TRAFFIC GREEN SPACE IN THE RIGHT OF WAY. ALL OTHER LOCATIONS MUST BE APPROVED BY THE CITY ENGINEER.
7. WITH PRIOR APPROVAL FROM THE CITY, A METER MAY BE LOCATED IN AN AREA EXPOSED TO TRAFFIC. IN THIS CASE THE STANDARD BOX FOR METERS OF THESE SIZES IS AN OLDCASTLE SERIES 30 METER BOX WITH 1324 DFW POLYMER LID WITH AMI HOLE OR PRE-APPROVED EQUAL. WHERE METER BOX IS EXPOSED TO TRAFFIC, OR IN SIDEWALK, USE A CONCRETE BOX WITH DFW POLYMER LID WITH AMI HOLE.
8. ALL METER BY-PASS INSTALLATIONS SHALL BE LOCKABLE.

MINIMUM VAULT CHARACTERISTICS

MAIN SIZE	BY PASS	L	W	H	INSIDE DIMENSIONS
2 IN.	1 IN.	6'-0"	6'-0"	4'-5"	5'-0" X 5'-0" X 3'-5"
4 IN.	2 IN.	8'-6"	5'-6"	5'-6"	7'-6" X 4'-6" X 4'-6"
6 IN.	4 IN.	13'-0"	7'-0"	6'-0"	12'-0" X 6'-0" X 5'-0"

NON-TRAFFIC LOCATION

1. STANDARD ACCESS DOOR IS 2.5 FT. X 4 FT. CLEAR, ALUMINUM HATCHWAY AND SPRING ASSISTED. DOOR SHALL BE CAST IN AND MOUNTED FLUSH HINGED 1/4 IN. ALUMINUM DIAMOND PLATE COVER, WITH 1/4 IN. EXTRUDED ALUMINUM FRAME. HATCH TO BE FURNISHED WITH STAINLESS STEEL HARDWARE.
2. CONCRETE: CONCRETE WITH DESIGN STRENGTH OF 4500 PSI AT 28 DAYS. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR AND FIRST STAGE OF WALL WITH SECTIONAL RISER TO REQUIRED DEPTH. ALL CONCRETE JOINTS SEALED WATERTIGHT WITH MANUFACTURERS GASKET.
3. ALL WALLS AND SLABS SHALL BE DESIGNED FOR HS20 LOADING.

TRAFFIC LOCATION - REQUIRES PRIOR APPROVAL OF CITY OF WACO ENGINEER

1. STANDARD ACCESS DOOR IS 2.5 FT. X 4 FT. CLEAR, AND SPRING ASSISTED. DOOR SHALL BE CAST IN FLUSH.
2. SINGLE OR DOUBLE LEAF STEEL LID, DESIGNED TO WITHSTAND AASHTO HS20 LOADINGS.
3. VAULT SHALL BE PLACED ON A 6 IN. BASE OF 1 IN. WASHED ROCK.
4. CONCRETE DESIGN IN ACCORDANCE WITH AASHTO HS20 TRAFFIC LOADING USING 4200 PSI COMPRESSIVE STRENGTH ASTM A-706 STEEL REINFORCEMENT PER CALCULATION NUMBER. UNIT IS OF MONOLITHIC CONSTRUCTION AT FLOOR AND FIRST STAGE OF WALL WITH SECTIONAL RISER TO REQUIRED DEPTH. ALL CONCRETE JOINTS SEALED WATERTIGHT WITH MANUFACTURERS GASKET.



ENGINEERING DIVISION

DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF WACO FOR ANY PURPOSE WHATSOEVER. THE CITY OF WACO ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

REVISIONS			
NO.	COMMENTS	BY	DATE
1	REMOVE 3 IN. MAIN SIZE FROM TABLE	MZ	04/28/2025
##	DESCRIPTION	FL	MM/DD/YYYY

DATE
01/01/2024

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