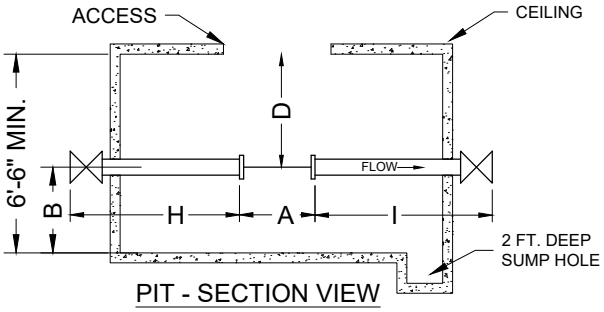
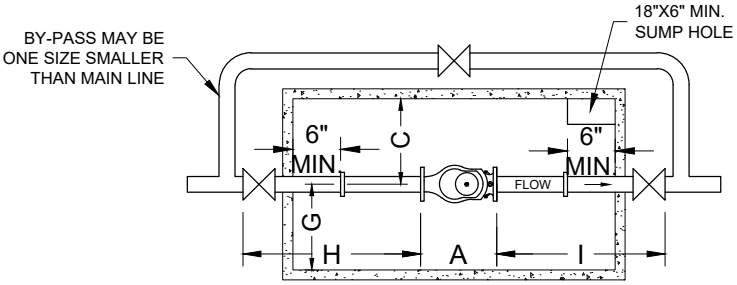
City Utilities Design Standards Manual	EXHIBIT W6-5 STANDARD WATER METER SPACING PIT INSTALLATIONS (SIZES 1 1/2", 2", 3", 4", 6",8",10")
	Created: October 16, 2018 — Revised: May 11, 2021 Scale: N.T.S.



PIT - SECTION VIEW



PIT - PLAN VIEW

Required Flange Fittings	
Meter Size	Required Flange
1 1/2"	(2) bolt flange on each side of meter set
2"	(2) bolt flange on each side of meter set
3"	(4) bolt flange on each side of meter set
4" thru 8"	(8) bolt flange on each side of meter set
10"	(12) bolt flange on each side of meter set

A = MINIMUM AND MAXIMUM DISTANCE FACE TO FACE OF FLANGED VALVES OR FLANGED FITTINGS
B = MINIMUM AND MAXIMUM DISTANCE FROM ℄ OF PIPING TO FLOOR OR OBSTRUCTION BELOW METER.
C = MINIMUM DISTANCE FROM ℄ OF PIPING TO WALL OR OBSTRUCTION BEHIND METER, WHEN BY-PASS IS INSTALLED ABOVE METER.
D = MINIMUM DISTANCE FROM ℄ OF PIPING TO CEILING OR PERMANENT OBSTRUCTION ABOVE METER.
G = MINIMUM DISTANCE FROM ℄ OF PIPING TO WALL OR PERMANENT OBSTRUCTION IN FRONT OF METER.
H= MINIMUM OF FIVE TIMES THE DIAMETER OF STRAIGHT PIPE BEFORE THE METER.
I= MINIMUM OF THREE TIMES THE DIAMETER OF STRAIGHT PIPE AFTER THE METER.

Pipe Size	Meter Size	A		B		C	D	G	H	I
1 1/2"	1 1/2"	13 1/4" MIN.	13 3/8" MAX	15" MIN.	45" MAX	11 1/2"	32"	30"	7 1/2"	4 1/2"
2"	2"	17 1/4" MIN. *	17 3/8" MAX *	15" MIN.	34" MAX	12"	39"	30"	10"	6"
3"	3"	17 1/4" MIN.	17 3/8" MAX	16" MIN.	32" MAX	11 1/2"	42"	30"	15"	9"
4"	4"	14 1/4" MIN.	14 3/8" MAX	17" MIN.	31" MAX	12 1/2"	38"	30"	20"	12"
6"	6"	18 1/4" MIN.	18 3/8" MAX	18" MIN.	29" MAX	14 1/2"	42"	32"	30"	18"
8"	8"	20 1/4" MIN.	20 3/8" MAX	20" MIN.	29" MAX	16 1/2"	47"		40"	24"
10"	10"	18 1/4" MIN.	18 3/8" MAX	22" MIN.	28" MAX	19 1/2"	51"		50"	30"

NOTES:

1. ALL METERS SHALL BE INSTALLED IN A HORIZONTAL POSITION.
2. METER SHALL BE LOCATED SUCH THAT IT WILL NOT BE SUBJECTED TO FREEZING OR EXCESSIVE HEAT.
3. METER PIT OPENING TO BE CENTERED AT EQUAL DISTANCE BETWEEN FACE OF FLANGES, VALVES, FITTINGS OR ADAPTER WITH FEMALE I.P. THREADS AND CENTERED LONGITUDINALLY OVER METER.
4. METER PIT LIDS SHALL BE EQUIPPED WITH LOCKING ARM DEVICES TO HOLD LID IN UPRIGHT OR OPEN POSITION WITH THE EXCEPTION OF FORD METER BOXES.
5. ALL VALVES 3" AND LARGER SHALL BE GATE VALVES. GATE OR BALL VALVES MAY BE USED FOR 1 1/2" AND 2" METERS.
6. ALL 3" AND LARGER METERS IN PITS SHALL HAVE INLET, OUTLET AND BY PASS VALVES LOCATED OUTSIDE OF THE METER PITS, WITH BYPASS VALVE CENTERED AT EQUAL DISTANCE BETWEEN INLET AND OUTLET VALVES. ALL VALVES SHALL OPEN CLOCKWISE.
7. SUMP HOLE SHALL BE LOCATED AT ANY CORNER OF THE PIT.
8. METER PITS SHALL NOT BE INSTALLED IN STREETS, PARKING LOTS, DRIVEWAYS OR ANY AREA WHERE VEHICULAR TRAFFIC MAY OCCUR WITHOUT PRIOR APPROVAL OF THE UTILITY.
9. A RECTANGULAR PIT IS SHOWN FOR ILLUSTRATIVE PURPOSES AND SHALL NOT PRECLUDE THE OPTIMAL USE OF A PRE-CAST ROUND PIT OF ADEQUATE INSIDE DIMENSION TO PROVIDE REQUIRED CLEARANCES.
10. NO ELECTRICAL OUTLET, CONDUIT, LIGHT FIXTURE, PUMP OR ANY OTHER ELECTRICAL APPARATUS SHALL BE INTRODUCED INTO A METER PIT.

* THE FOLLOWING ALTERNATE LAY LENGTHS MAY BE USED IF PRE-APPROVED BY CITY UTILITIES FOR 2" METERS (15 1/2" MIN. AND 15 5/8" MAX. OR 10 1/4" MIN. AND 10 3/8"MAX.)