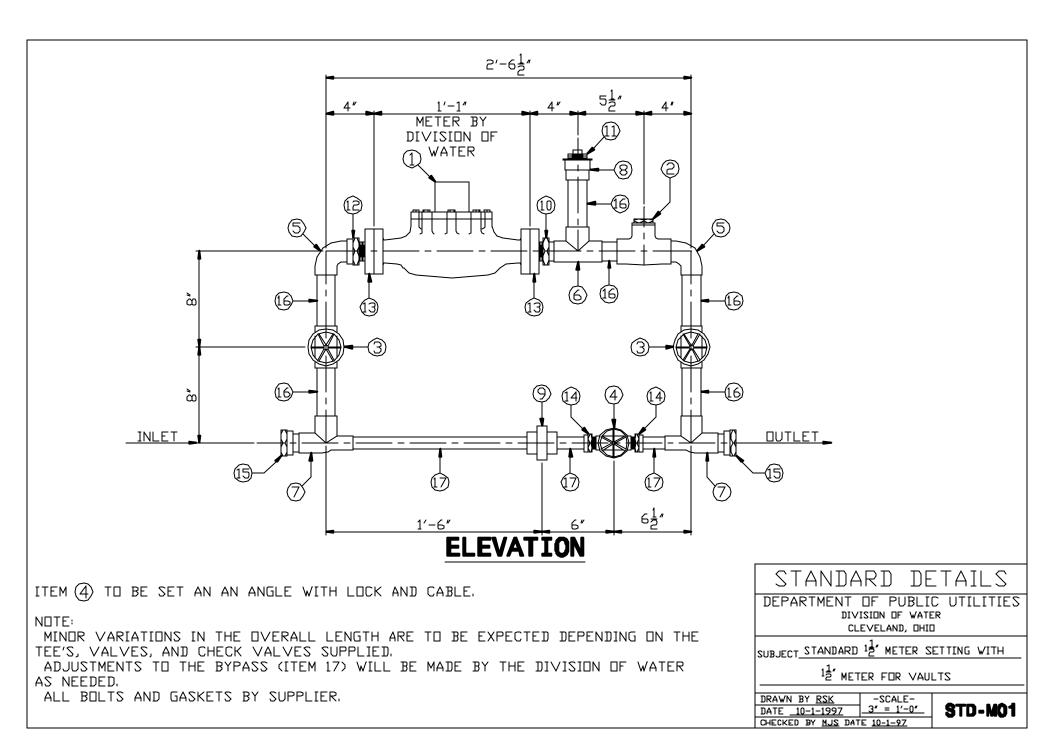
# CLEVELAND DIVISION OF WATER CONSTRUCTION STANDARDS

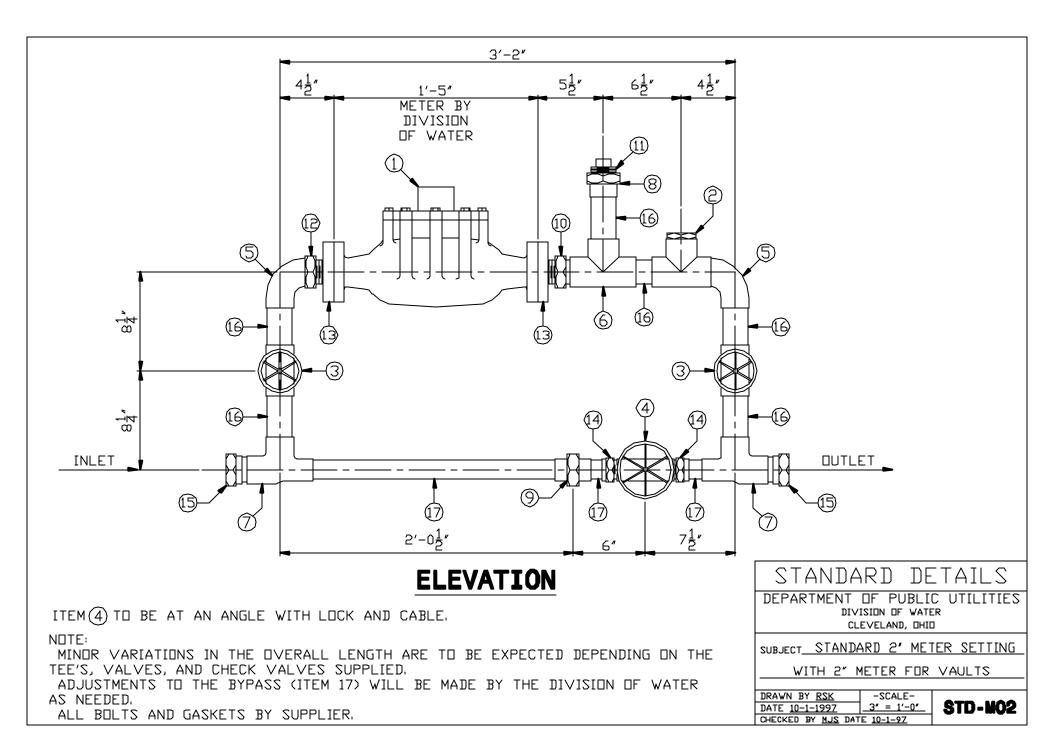
Meter Settings



## STANDARD 1-1/2" METER SETTING WITH 1-1/2" METER

ITEM	<u>REQ'D</u>	SIZE	DESCRIPTION
1	1	1-1/2"	METER BY C.W.D.
2	1	1-1/2"	STREAMLINE SWING CHECK VALVE, COPPER TO COPPER
3	2	1-1/2"	STREAMLINE HAND WHEEL GATE VALVES
4	1	1"	STREAMLINE O.S. & Y. GATE VALVE
5	2	1-1/2"	STREAMLINE STREET ELBOW, COPPER TO COPPER
6	1	1-1/2"	STREAMLINE TEE, COPPER TO COPPER
7	2	1-1/2" x 1" x 1-1/2"	STREAMLINE TEE, COPPER TO IRON, FEMALE
8	1	1-1/2"	STREAMLINE COUPLING, COPPER TO IRON, FEMALE
9	1	1"	STREAMLINE UNION, COPPER TO COPPER
10	1	1-1/2"	STREAMLINE COUPLING, COPPER TO IRON, MALE
11	1	1-1/2"	BRASS SCREW PLUG
12	1	1-1/2"	STREAMLINE COUPLING, COPPER TO IRON, FEMALE
13	2	1-1/2"	OVAL FLANGES, FEMALE
14	2	1"	STREAMLINE COUPLING, COPPER TO IRON, FEMALE
15	2	1-1/2"	STREAMLINE COUPLING, COPPER TO IRON, FEMALE
16	37"	1-1/2"	COPPER TUBING – HARD
17	30"	1"	COPPER TUBING - HARD
18	11b.		SPECIAL SOLDER

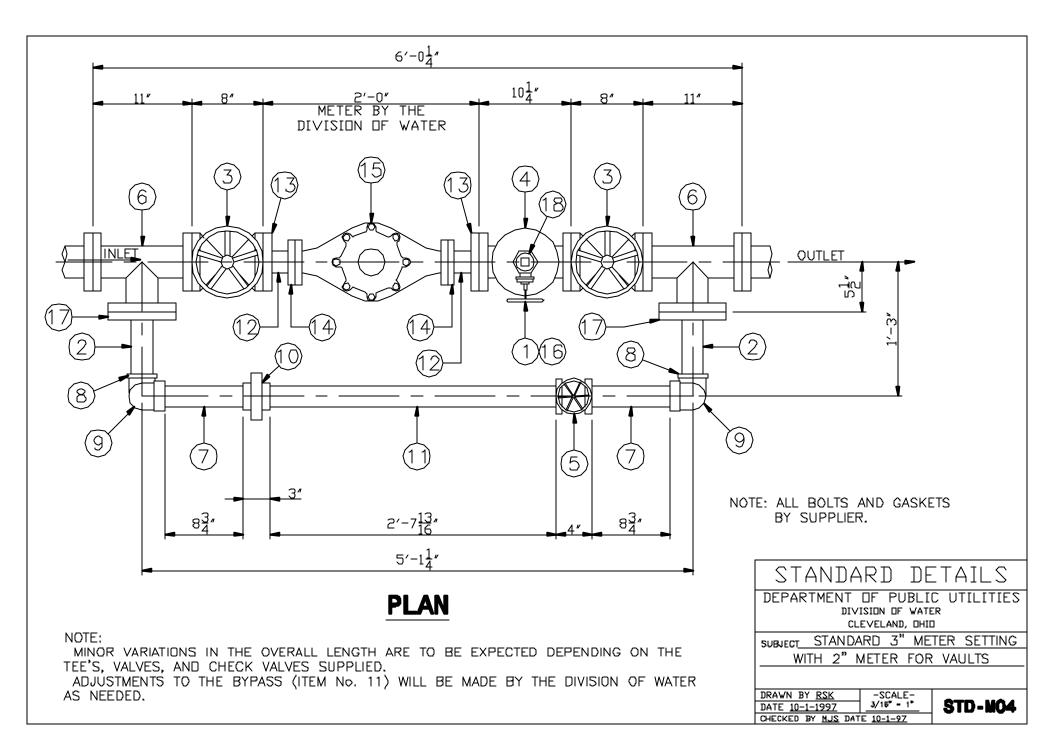
(SEE DRAWING No. STD-M01 and STD-V01). 12-10-98

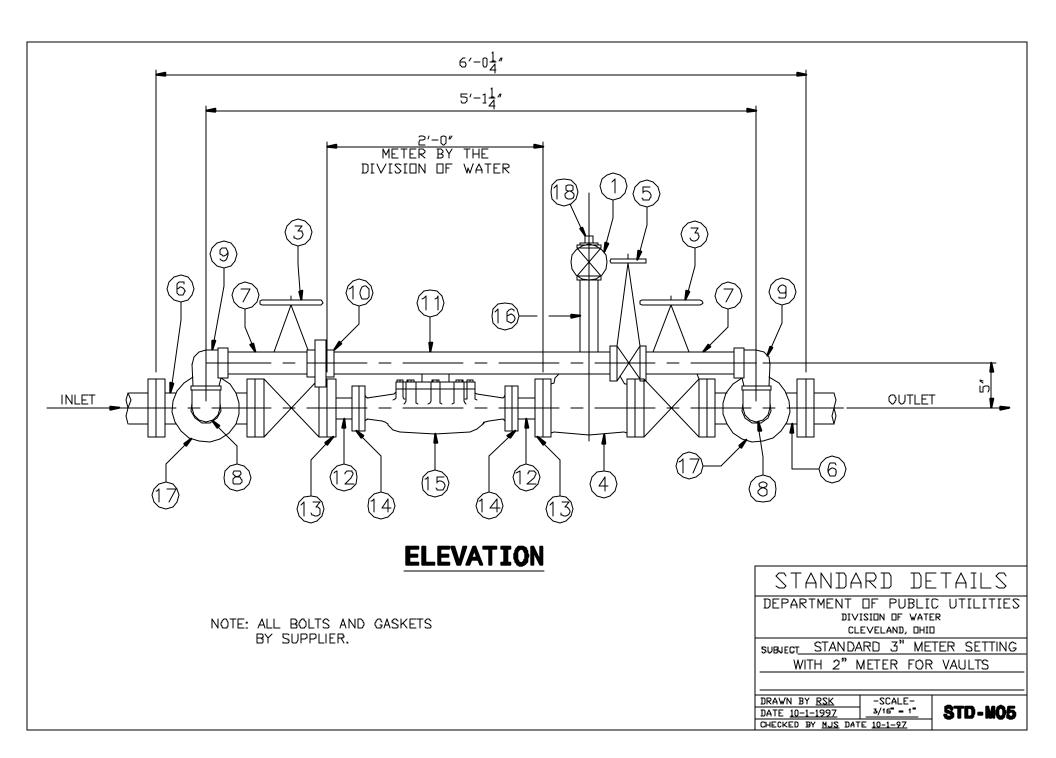


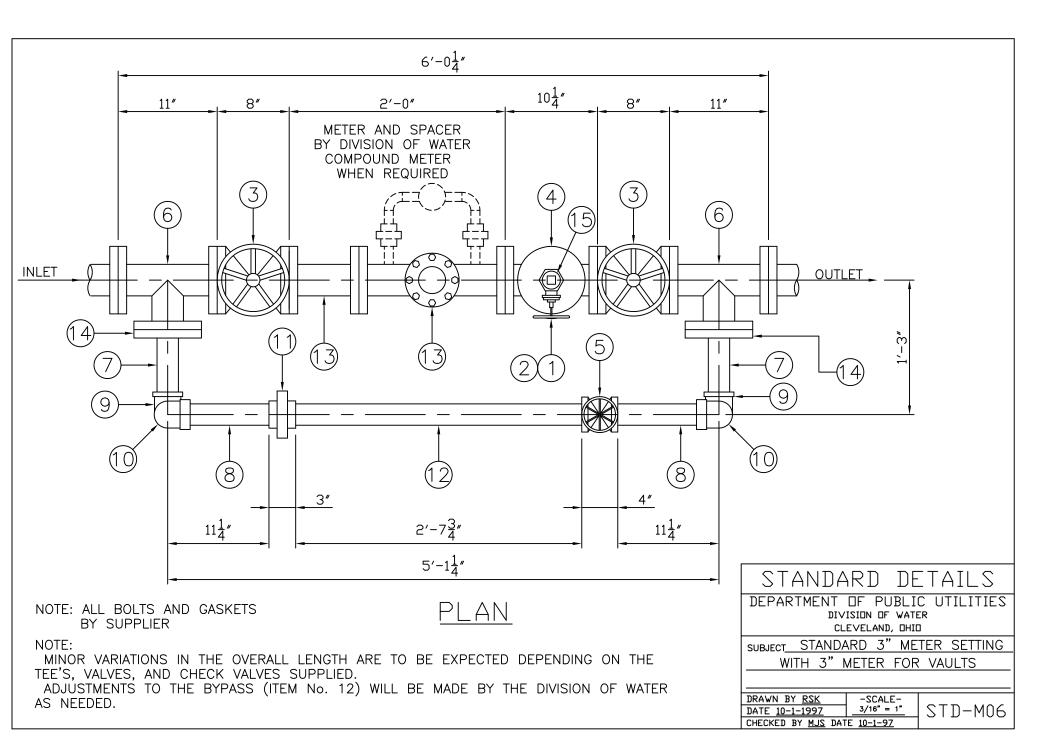
## STANDARD 2" METER SETTING WITH 2" METER

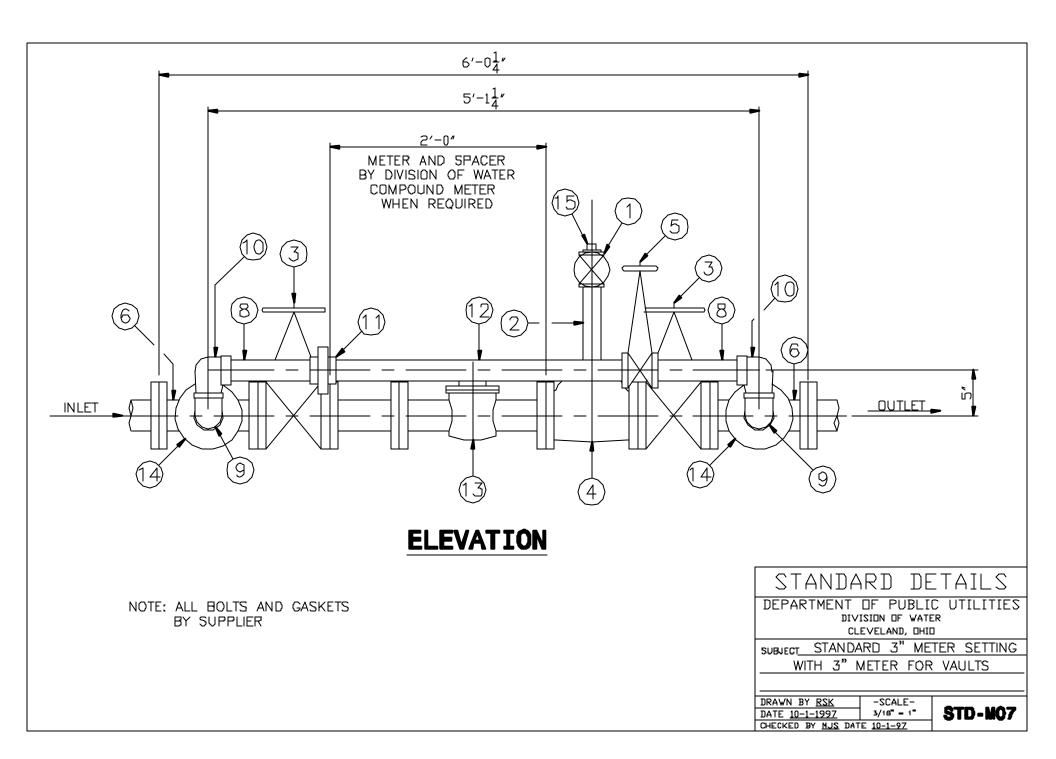
<u>ITEM</u>	<u>REQ'D</u>	<u>SIZE</u>	DESCRIPTION
1	1	2"	METER BY C.W.D.
2	1	2"	STREAMLINE SWING CHECK VALVE, COPPER TO COPPER
3	2	2"	STREAMLINE HAND WHEEL GATE VALVES
4	1	1-1/2"	STREAMLINE O.S. & Y. GATE VALVE
5	2	2"	STREAMLINE STREET ELBOW, COPPER TO COPPER
6	1	2"	STREAMLINE TEE, COPPER TO COPPER
7	2	2" x 1-1/2" x 2"	STREAMLINE TEE, COPPER TO IRON, FEMALE
8	1	2"	STREAMLINE COUPLING, COPPER TO IRON, FEMALE
9	1	1-1/2"	STREAMLINE UNION, COPPER TO COPPER
10	1	2"	STREAMLINE COUPLING, COPPER TO IRON, MALE
11	1	2"	BRASS SCREW PLUG
12	1	2"	STREAMLINE COUPLING, COPPER TO IRON, FEMALE
13	2	2"	OVAL FLANGES, FEMALE
14	2	1-1/2"	STREAMLINE COUPLING, COPPER TO IRON, FEMALE
15	2	2"	STREAMLINE COUPLING, COPPER TO IRON, FEMALE
16	37"	2"	COPPER TUBING – HARD
17	30"	1-1/2"	COPPER TUBING – HARD
18	11b.		SPECIAL SOLDER

(SEE DRAWING No. STD-M02 and STD-V01). 12-10-98



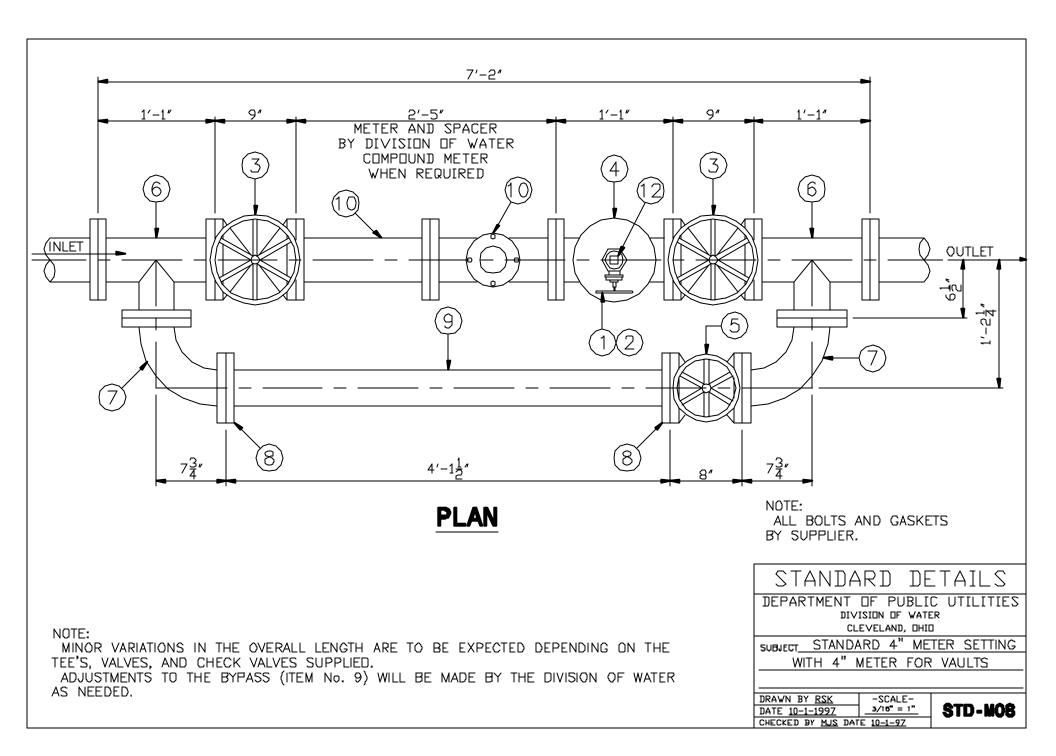






STANDAR	D 3" METER	SETTING WITH 3" METE	<u>R - FLANGED</u>
ITEM	<u>Req'd</u>	SIZE	DESCRIPTION
1	1	2 "	HAND WHEEL GATE VALVE, SCREWED
2	1	2" x 10"	BRASS NIPPLE
3	2	3 "	HAND WHEEL GATE VALVES, FLANGED
4	1	3 "	SWING GATE CHECK VALVE, FLANGED
5	1	2 "	O.S.Y. VALVE, SCREWED
6	2	3" x 3" x 3"	TEE, FLANGED
7	2	2" x 6"	GALVANIZED NIPPLES
8	2	2" x 10"	GALVANIZED NIPPLE
9	2	2 "	GALVANIZED ELBOWS-90 DEG.
10	2	2 "	GALVANIZED STREET ELBOWS
11	1	2 "	GALVANIZED UNION, MALE TO FEMALE
12	36"	2 "	GALVANIZED PIPE, EXTRA HEAVY
13	1	3 "	TURBINE METER <u>OR</u> COMPOUND METER METER & SPACER PROVIDED BY C.W.D.)
14	2	3 "	BLIND FLANGES, DRILLED & TAPPED FOR 2" $x$ 6" NIPPLES
15	1	2 "	BRASS PLUG
16	10	3 "	RING GASKETS
17	40	5/8" x 2-1/2"	MACHINE BOLTS
18	2	5/8" x 3"	STUD BOLTS
19	42	5/8"	HEX BOLTS

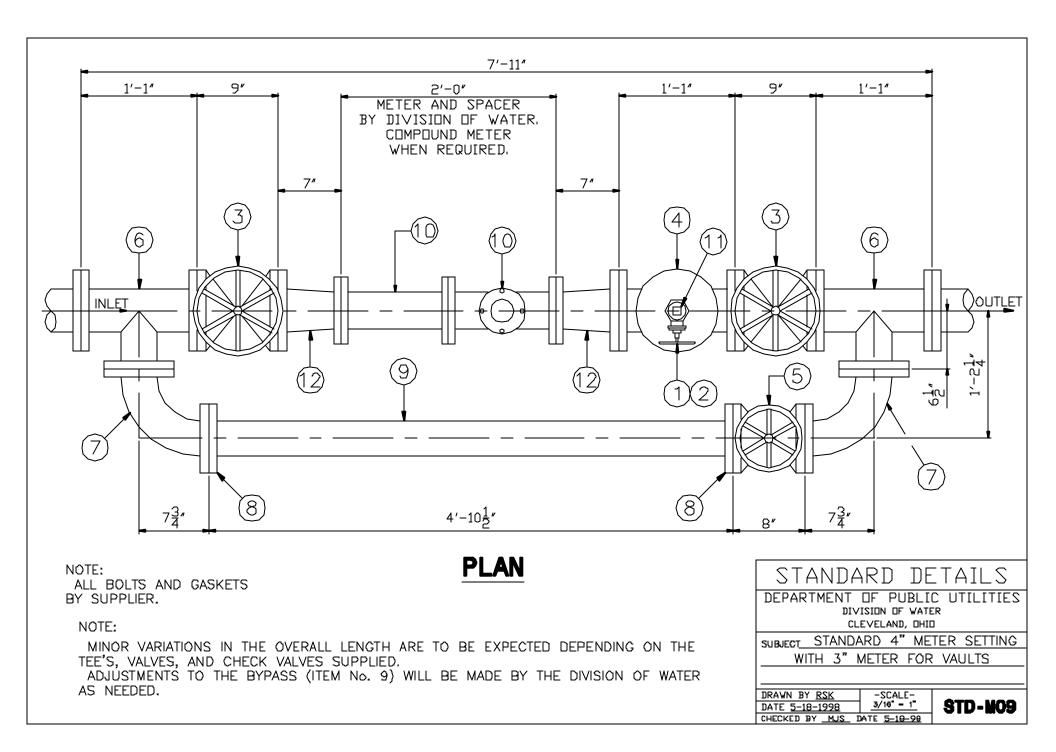
(SEE DRAWING STD-M06 & STD-M07 & STD-V01).



STANDARD 4"	METER	SETTING	WITH	4 "	METER
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ITEM	<u>REQ'D</u>	SIZE	DESCRIPTION
1	1	2"	HAND WHEEL GATE VALVE, SCREWED
2	1	2" x 10"	BRASS NIPPLE
3	2	4 "	HAND WHEEL GATE VALVES, FLANGED
4	1	4 "	SWING CHECK VALVE, FLANGED
5	1	3 "	O.S.Y. VALVE, FLANGED
6	2	4" x 3"	CAST IRON TEES, FLANGED
7	2	3 "	CAST IRON ELBOWS, FLANGED LONG RADIUS
8	2	3" x 7-1/2"	CAST IRON FLANGE, 4 HOLE
9	5 FT.	3 "	GALVANIZED PIPE, EXTRA HEAVY
10	1	4 "	TURBINE METER <u>OR</u> COMPOUND METER (METER & SPACER PROVIDED BY C.W.D)
11	1	2"	BRASS PLUG
12	8	4 "	FLANGE GASKETS
13	5	3 "	FLANGE GASKETS
14	64	5/8" x 3"	MACHINE BOLTS
15	20	5/8" X 2-1/2"	MACHINE BOLTS
16	6	5/8" x 3-1/2"	STUD BOLTS
17	90	5/8"	HEX NUTS

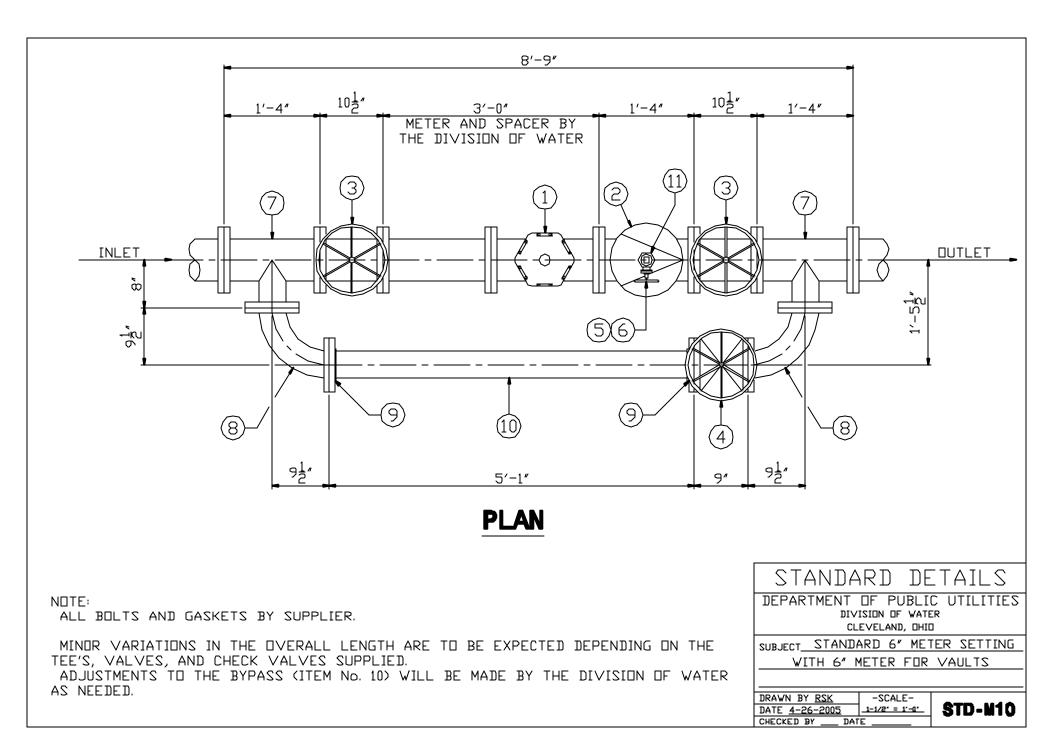
(SEE DRAWING No. STD-M08 & STD-V01).



#### STANDARD 4" METER SETTING WITH 3" METER

<u>ITEM</u>	<u>REQ'D</u>	SIZE	DESCRIPTION
1	1	2"	HAND WHEEL GATE VALVE,SCREWED
2	1	2" x 10"	BRASS NIPPLE
3	2	4"	HAND WHEEL GATE VALVES, FLANGED
4	1	4"	SWING CHECK VALVE, FLANGED
5	1	3"	O.S.Y. VALVE, FLANGED
6	2	4" x 3"	CAST IRON TEES, FLANGED
7	2	3"	CAST IRON ELBOWS, FLANGED LONG RADIUS
8	2	3" x 7-1/2"	CAST IRON FLANGE, 4 HOLE
9	58-1/2"	3"	GALVANIZED PIPE, EXTRA HEAVY
10	1	3"	TURBINE METER <u>OR</u> COMPOUND METER METER & SPACER PROVIDED BY C.W.D)
11	1	2"	BRASS PLUG
12	2	4" x 3"	CAST IRON CONCENTRIC REDUCER, FLANGED
13	7	4"	FLANGE GASKETS
14	7	3"	FLANGE GASKETS
15	56	5/8" x 3"	MACHINE BOLTS
16	24	5/8" x 2-1/2"	MACHINE BOLTS
17	8	5/8" x 3-1/2"	STUD BOLTS
18	88	5/8"	HEX NUTS

(SEE DRAWING No. STD-M09 & STD-V01).

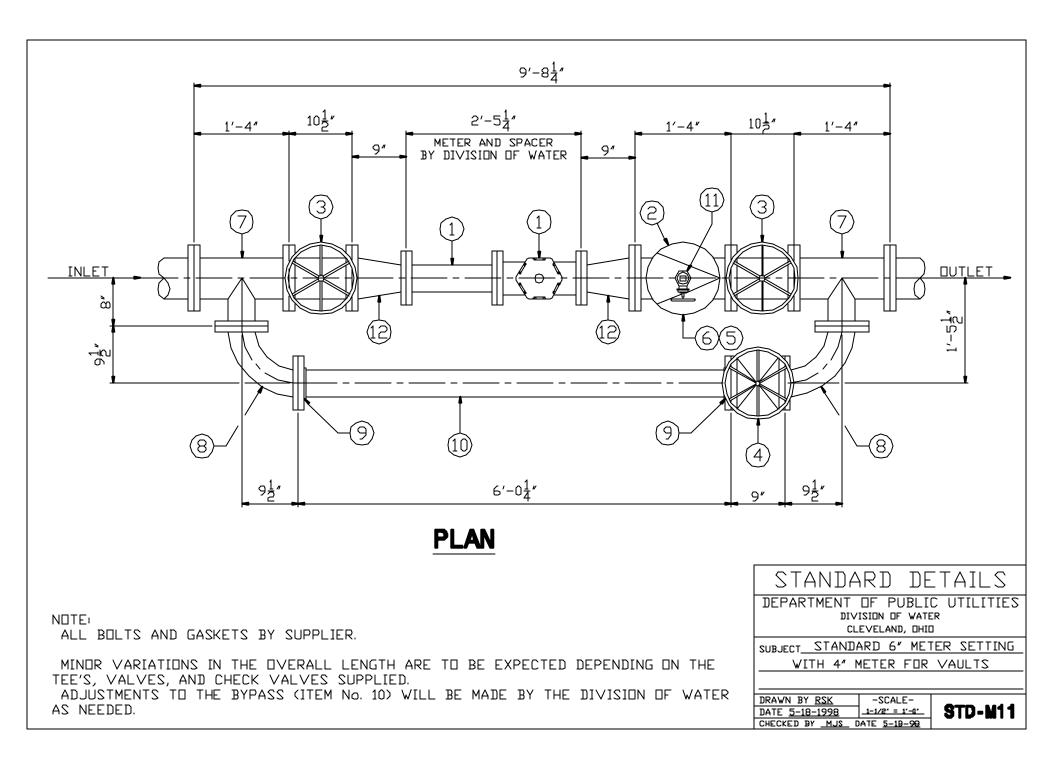


## STANDARD 6" METER SETTING WITH 6" METER

ITEM	<u>req'd</u>	SIZE	DESCRIPTION
1	1	6 "	TURBINE OR COMPOUND METER (BY C.W.D.)
2	1	6 "	SWING CHECK VALVE, FLANGED
3	2	6 "	HAND WHEEL GATE VALVES, FLANGED
4	1	4 "	O.S.Y. VALVE, FLANGED
5	1	2 "	HAND WHEEL GATE VALVE, SCREWED
6	1	2 "	BRASS PLUG
7	2	6" x 4"	CAST IRON TEES, FLANGED
8	2	4 "	CAST IRON ELBOWS, FLANGED LR
9	2	4" x 9"	CAST IRON FLANGE, 8 HOLE
10	70"	4 "	GALVANIZED PIPE, EXTRA HEAVY
11	1	2" x 10"	BRASS NIPPLE
12	8	6 "	FLANGE GASKETS
13	5	4 "	FLANGE GASKETS
14	64	3/4" x 3-1/2	MACHINE BOLTS
15	40	5/8" X 3"	MACHINE BOLTS
16	8	3/4" x 4"	STUD BOLTS
17	72	3/4"	HEX NUTS
18	40	5/8"	HEX NUTS

(SEE DRAWING No. STD-M10 & STD-V01).

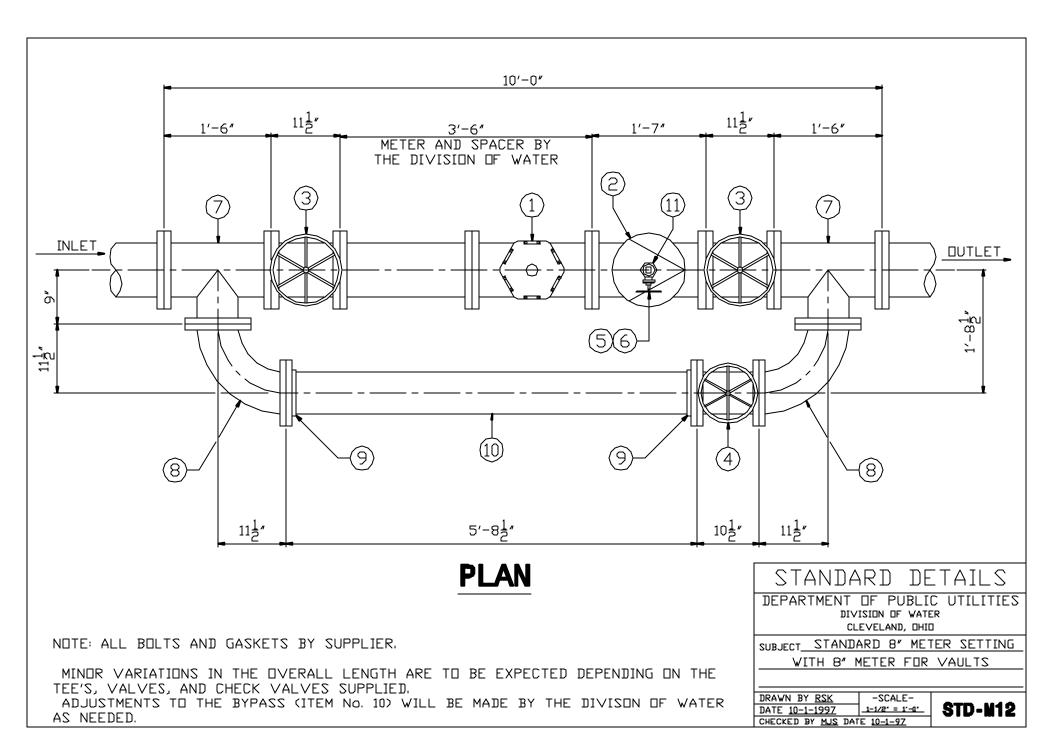
4-26-2005



## STANDARD 6" METER SETTING WITH 4" METER

ITEM	<u>req'd</u>	SIZE	DESCRIPTION
1	1	4 "	TURBINE OR COMPOUND METER (METER AND SPACER BY C.W.D.)
2	1	6 "	SWING CHECK VALVE, FLANGED
3	2	6 "	HAND WHEEL GATE VALVES, FLANGED
4	1	4 "	O.S.Y. VALVE, FLANGED
5	1	2 "	HAND WHEEL GATE VALVE, SCREWED
6	1	2 "	BRASS PLUG
7	2	6" x 4"	CAST IRON TEES, FLANGED
8	2	4 "	CAST IRON ELBOWS, FLANGED LR
9	2	4" x 9"	CAST IRON FLANGE, 8 HOLE
10	72-1/4"	4 "	GALVANIZED PIPE, EXTRA HEAVY
11	1	2" x 10"	BRASS NIPPLE
12	2	6" x 4"	CAST IRON CONCENTRIC REDUCER, FLANGED
13	8	6 "	FLANGE GASKETS
14	7	4 "	FLANGE GASKETS
15	56	3/4" x 3-1/2"	MACHINE BOLTS
16	56	5/8" X 3"	MACHINE BOLTS
17	8	3/4" x 4"	STUD BOLTS
18	64	3/4"	HEX NUTS
19	56	5/8"	HEX NUTS

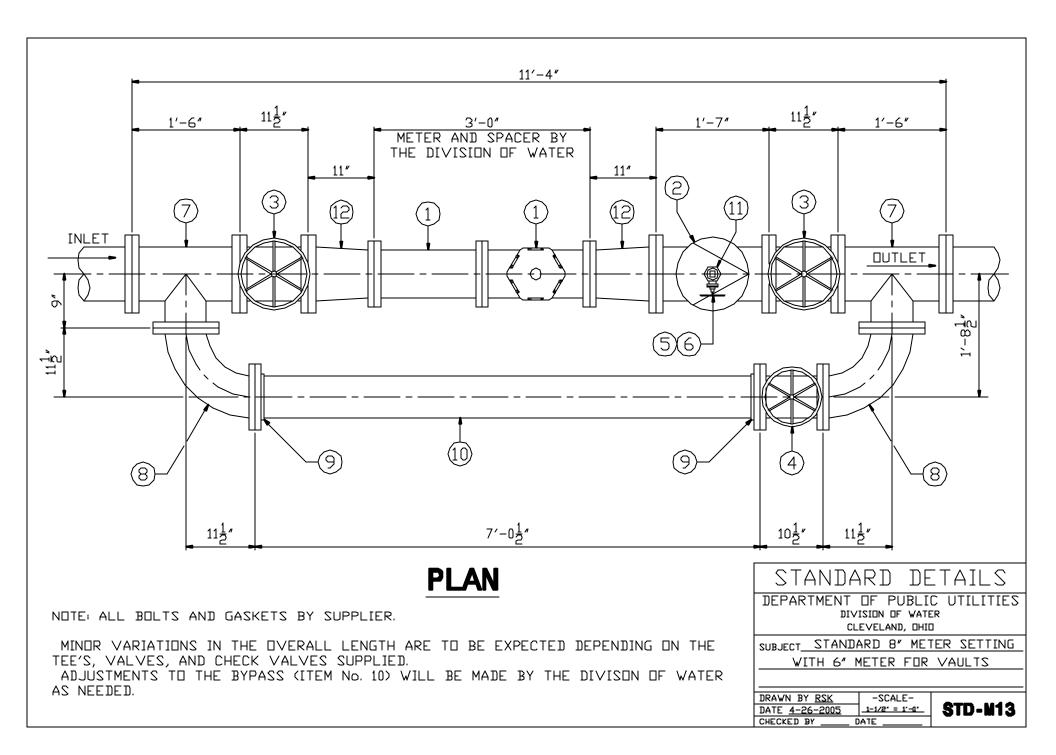
(SEE DRAWING No. STD-M11 & STD-V01).



## STANDARD 8" METER SETTING WITH 8" METER

ITEM	<u> REQ ' D</u>	SIZE	DESCRIPTION
1	1	8 "	TURBINE OR COMPOUND METER (BY C.W.D.)
2	1	8 "	SWING CHECK VALVE, FLANGED
3	2	8 "	HAND WHEEL GATE VALVES, FLANGED
4	1	6 "	O.S.Y. VALVE, FLANGED
5	1	2 "	HAND WHEEL GATE VALVE, SCREWED
6	1	2 "	BRASS PLUG
7	2	8" x 6"	CAST IRON TEES, FLANGED
8	2	6 "	CAST IRON ELBOWS, FLANGED LR
9	2	6" x 11"	CAST IRON FLANGE, 8 HOLE
10	72"	6 "	GALVANIZED PIPE, EXTRA HEAVY
11	1	2" x 10"	BRASS NIPPLE
12	5	8 "	FLANGE GASKETS
13	5	6 "	FLANGE GASKETS
14	104	3/4" x 3-1/2"	MACHINE BOLTS
15	8	3/4" x 4-1/4"	STUD BOLTS
16	112	3/4"	HEX NUTS

(SEE DRAWING No. STD-M12 & STD-V01).

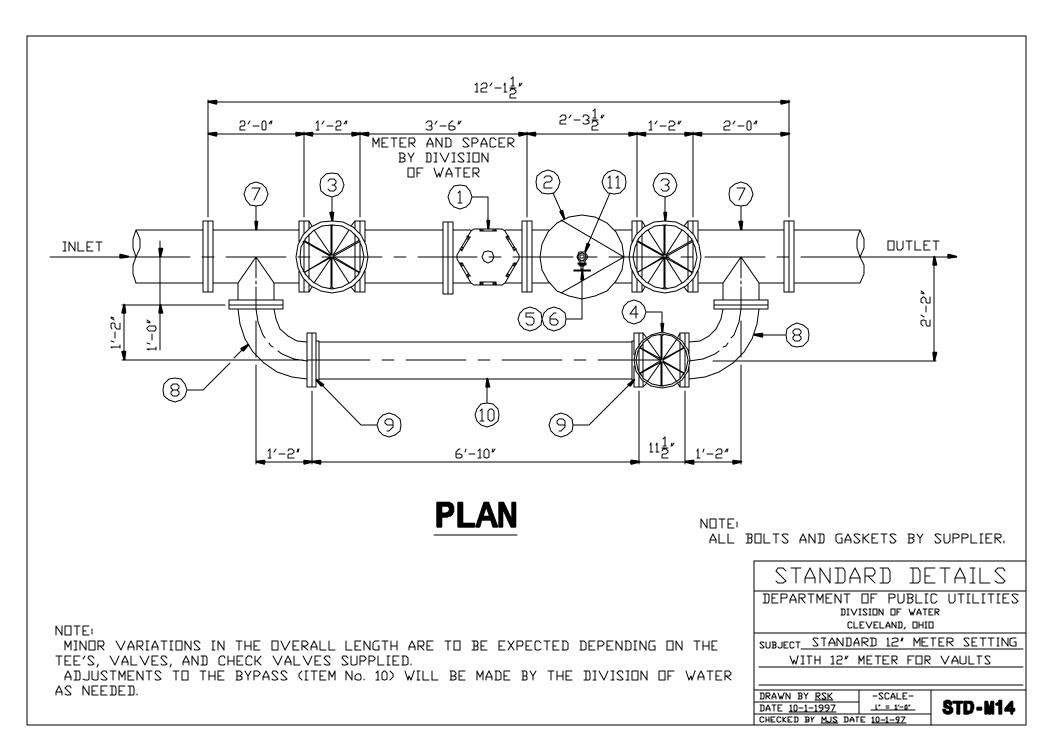


## STANDARD 8" METER SETTING WITH 6" METER

ITEM	<u>req'd</u>	SIZE	DESCRIPTION
1	1	6 "	TURBINE OR COMPOUND METER (METER AND SPACER BY C.W.D.)
2	1	8 "	SWING CHECK VALVE, FLANGED
3	2	8 "	HAND WHEEL GATE VALVES, FLANGED
4	1	6 "	O.S.Y. VALVE, FLANGED
5	1	2 "	HAND WHEEL GATE VALVE, SCREWED
6	1	2 "	BRASS PLUG
7	2	8" x 6"	CAST IRON TEES, FLANGED
8	2	6 "	CAST IRON ELBOWS, FLANGED LR
9	2	6" x 11" 1	DIA. CAST IRON FLANGE, 8 HOLE
10	90"	6 "	GALVANIZED PIPE, EXTRA HEAVY
11	1	2" x 10"	BRASS NIPPLE
12	2	8" x 6"	CAST IRON CONCENTRIC REDUCER, FLANGED
13	7	8 "	FLANGE GASKETS
14	7	6 "	FLANGE GASKETS
15	120	3/4" x 3-	1/2" MACHINE BOLTS
16	8	3/4" x 4-	1/4" STUD BOLTS
17	128	3/4"	HEX NUTS

(SEE DRAWING No. STD-M13 & STD-V01).

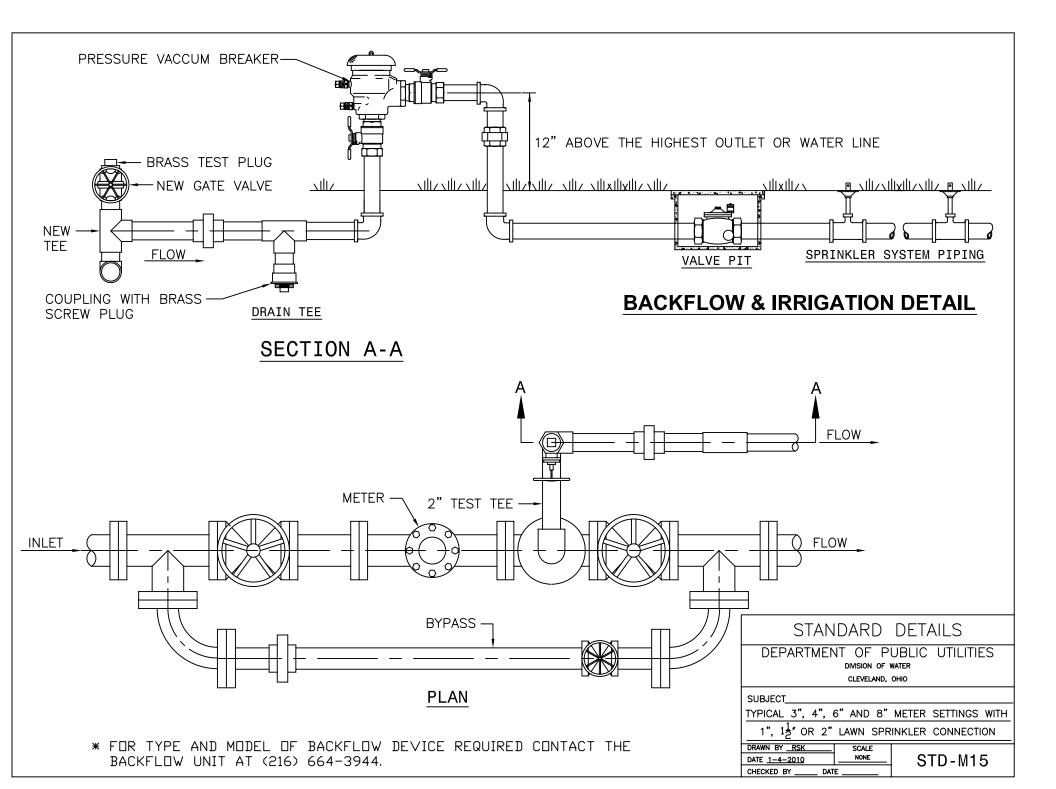
4-26-2005

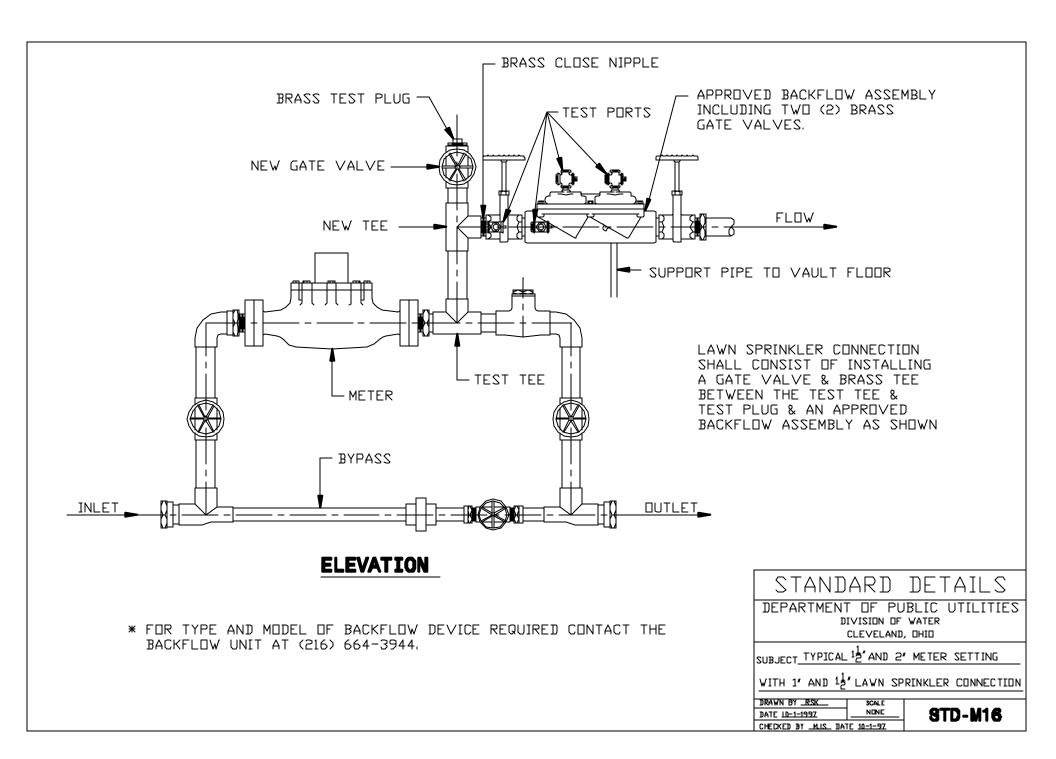


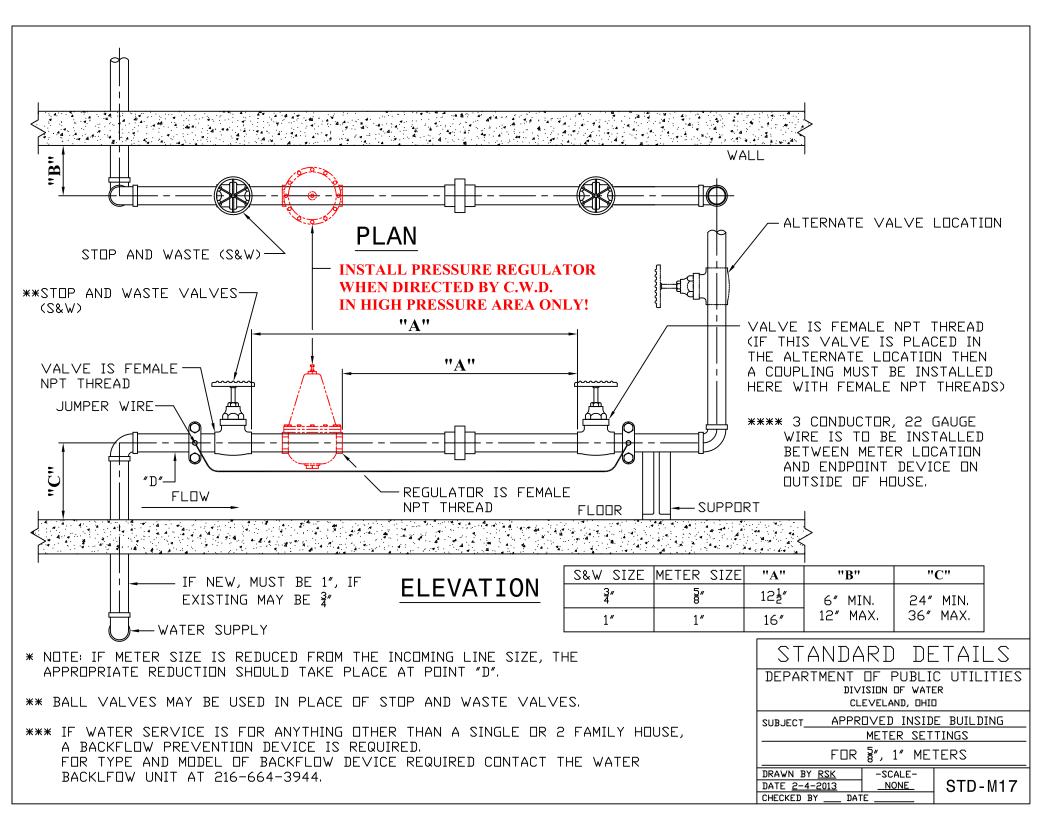
STANDA	ARD 12" ME	TER SETTING WITH	12" METER
ITEM	<u>req'd</u>	SIZE	DESCRIPTION
1	1	12"	TURBINE METER
2	1	12"	SWING CHECK VALVE, FLANGED
3	2	12"	HAND WHEEL GATE VALVES, FLANGED
4	1	8 "	O.S.Y. VALVE, FLANGED
5	1	2 "	HAND WHEEL GATE VALVE, SCREWED
6	1	2 "	BRASS PLUG
7	2	12" x 8"	CAST IRON TEES, FLANGED
8	2	8 "	CAST IRON ELBOWS, FLANGED LR
9	2	8" x 13-1/2'	CAST IRON FLANGE, 8 HOLE
10	82"	8 "	GALVANIZED PIPE, EXTRA HEAVY
11	1	2" x 10"	BRASS NIPPLE
12	8	12"	FLANGE GASKETS
13	5	8 "	FLANGE GASKETS
14	96	7/8" x 4"	MACHINE BOLTS
15	40	3/4" X 3-1/2	2" MACHINE BOLTS
16	8	7/8" x 4-3/4	4" STUD BOLTS
17	40	3/4"	HEX NUTS
18	104	7/8"	HEX NUTS

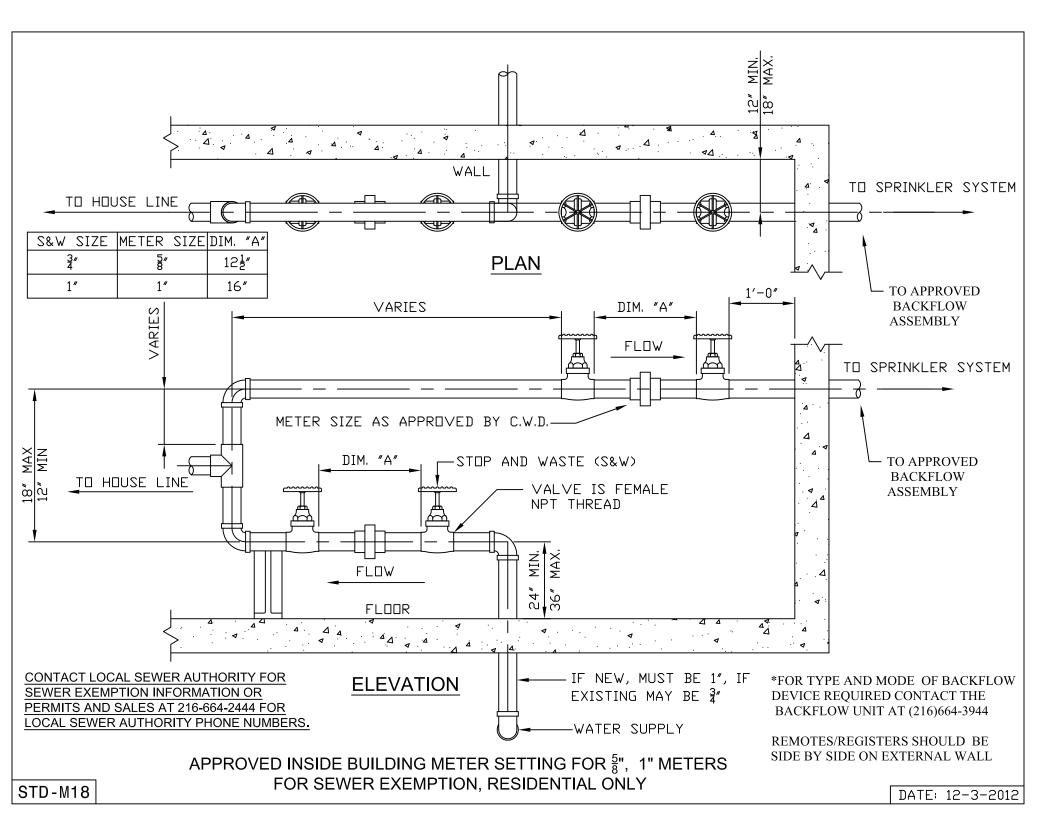
(SEE DRAWING No. STD-M14 & STD-V01).

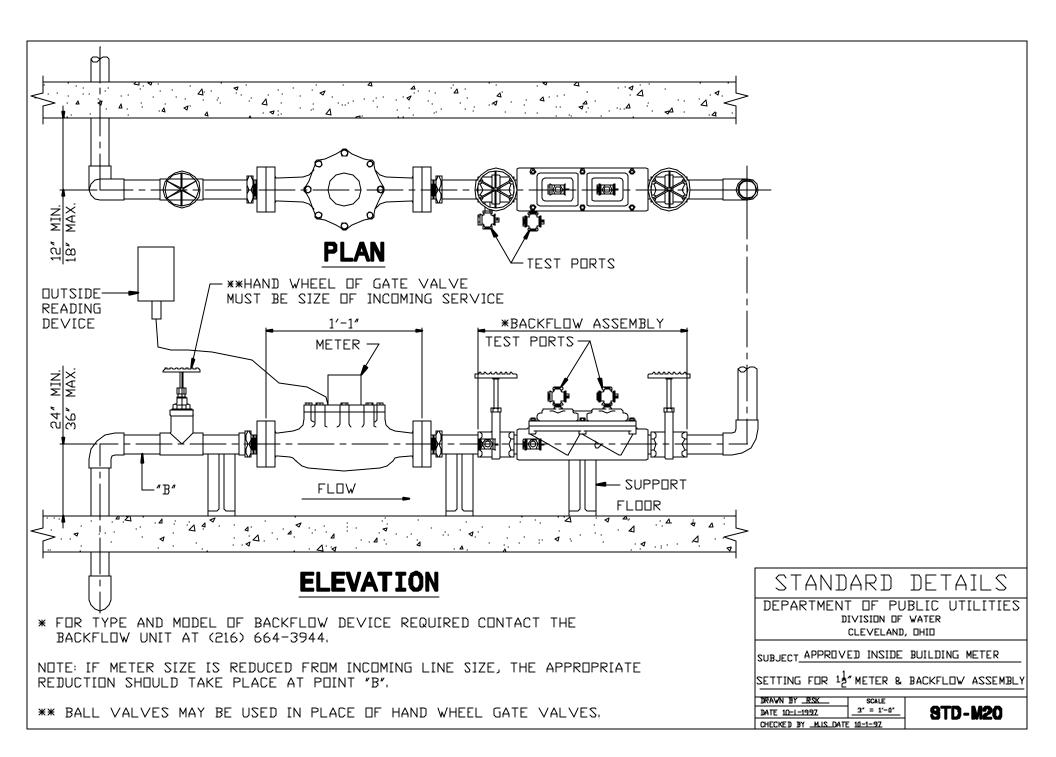
3-6-2009

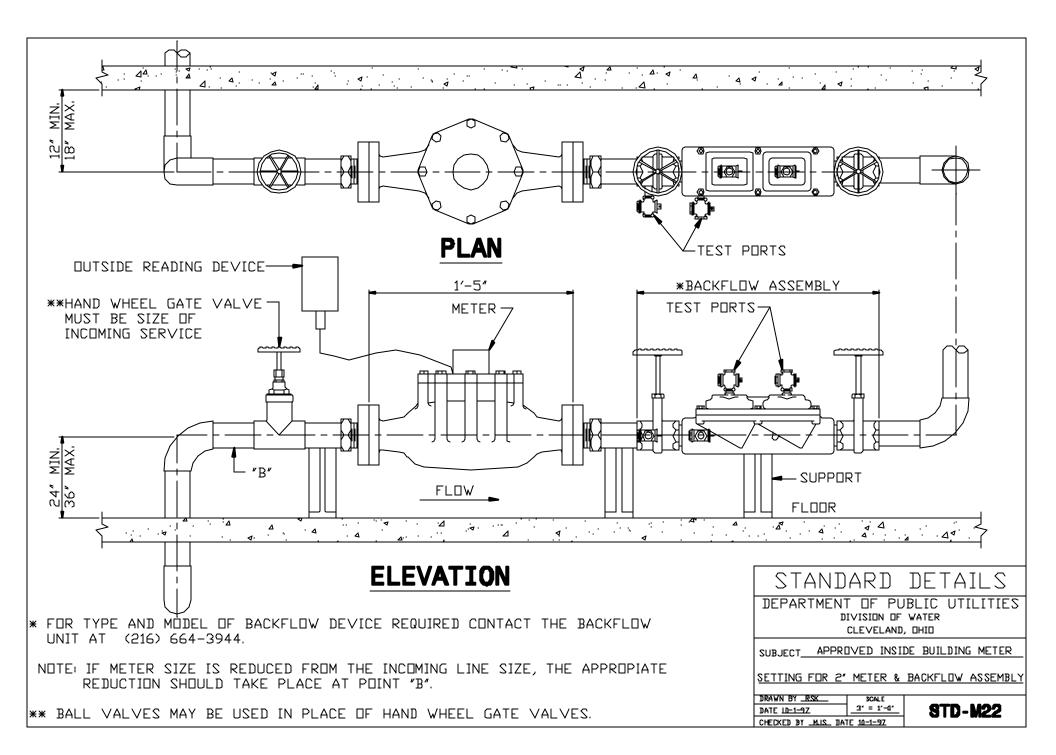


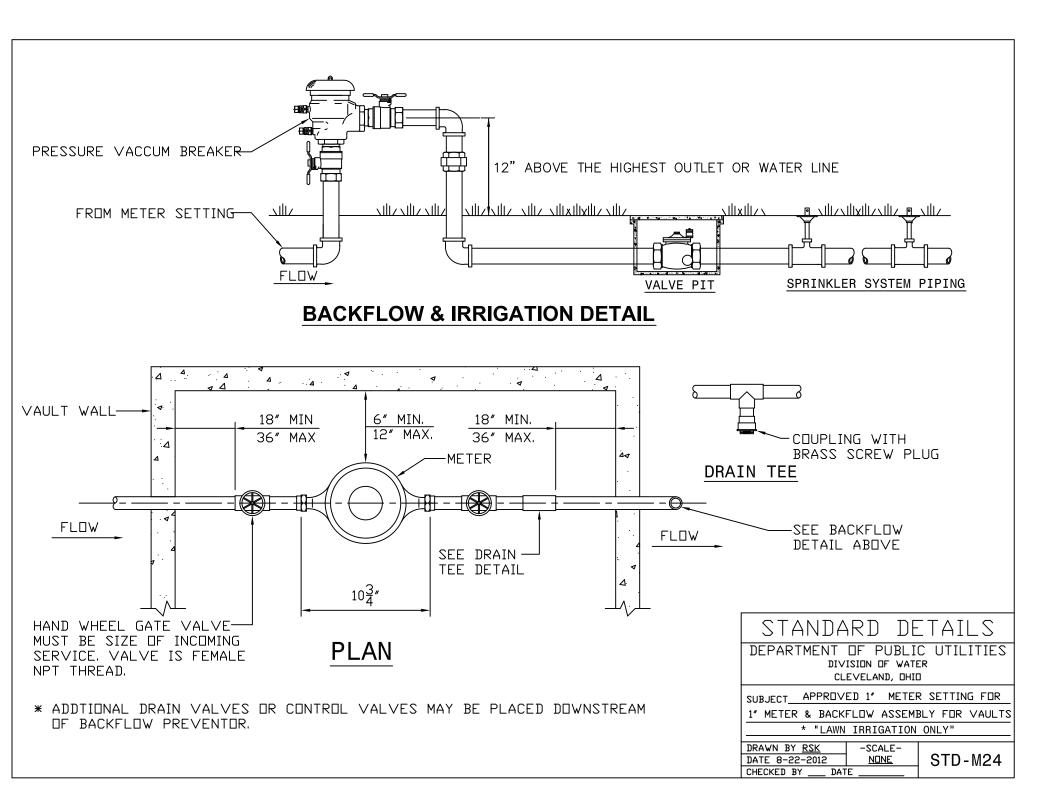


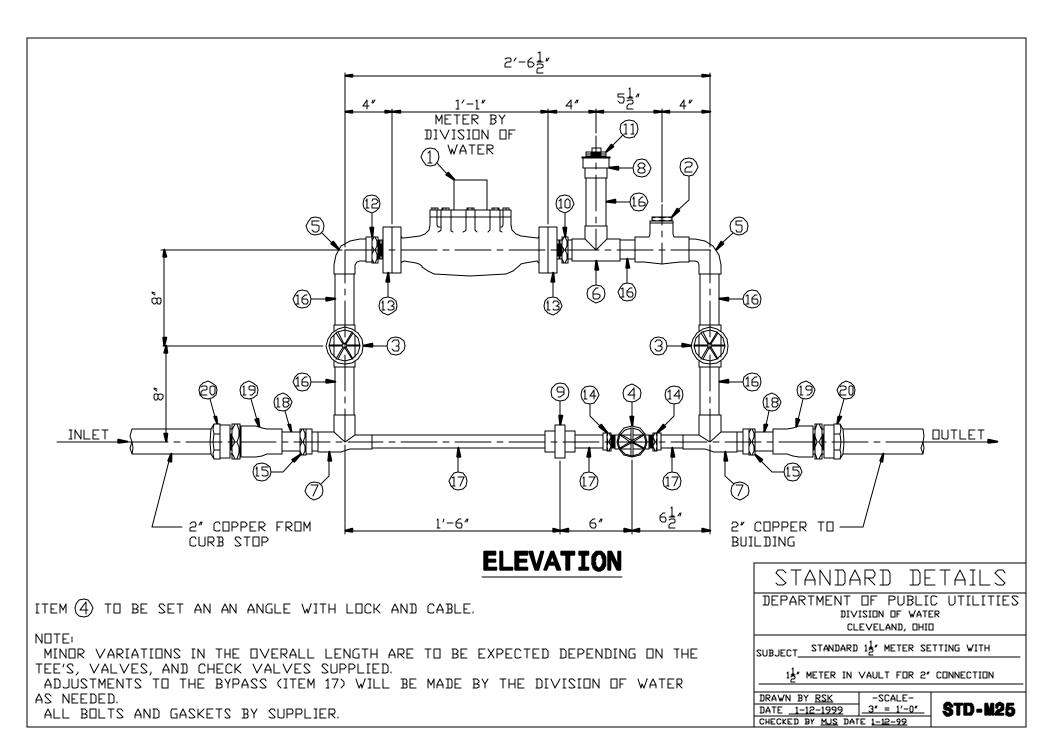








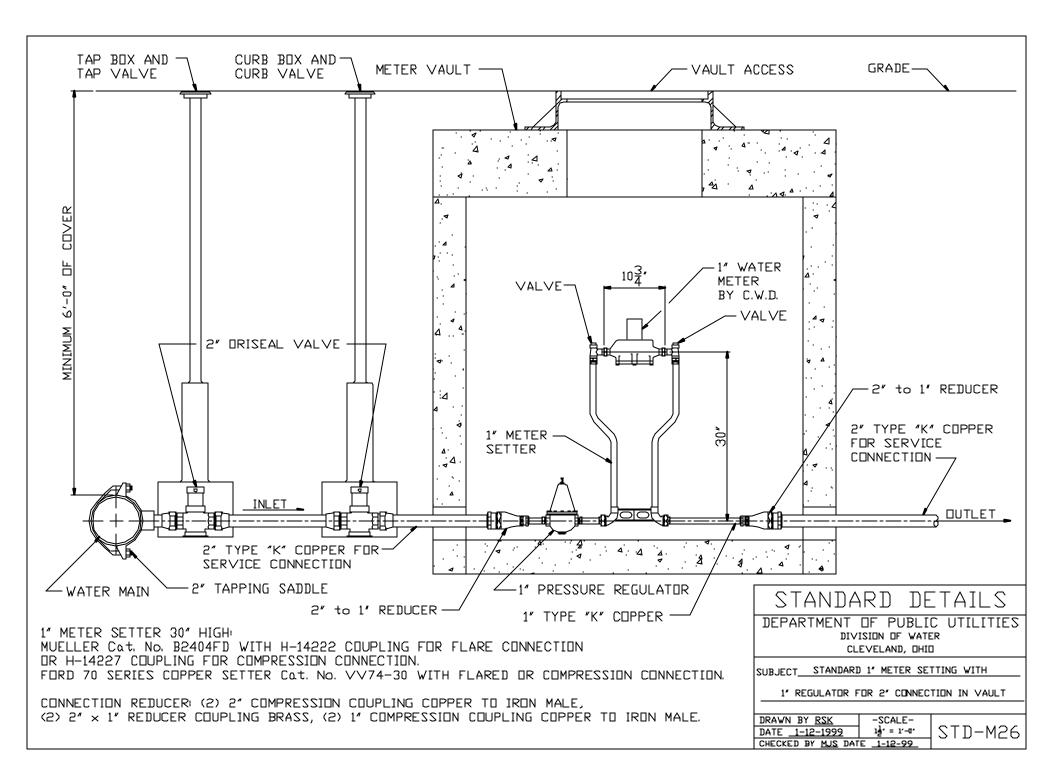


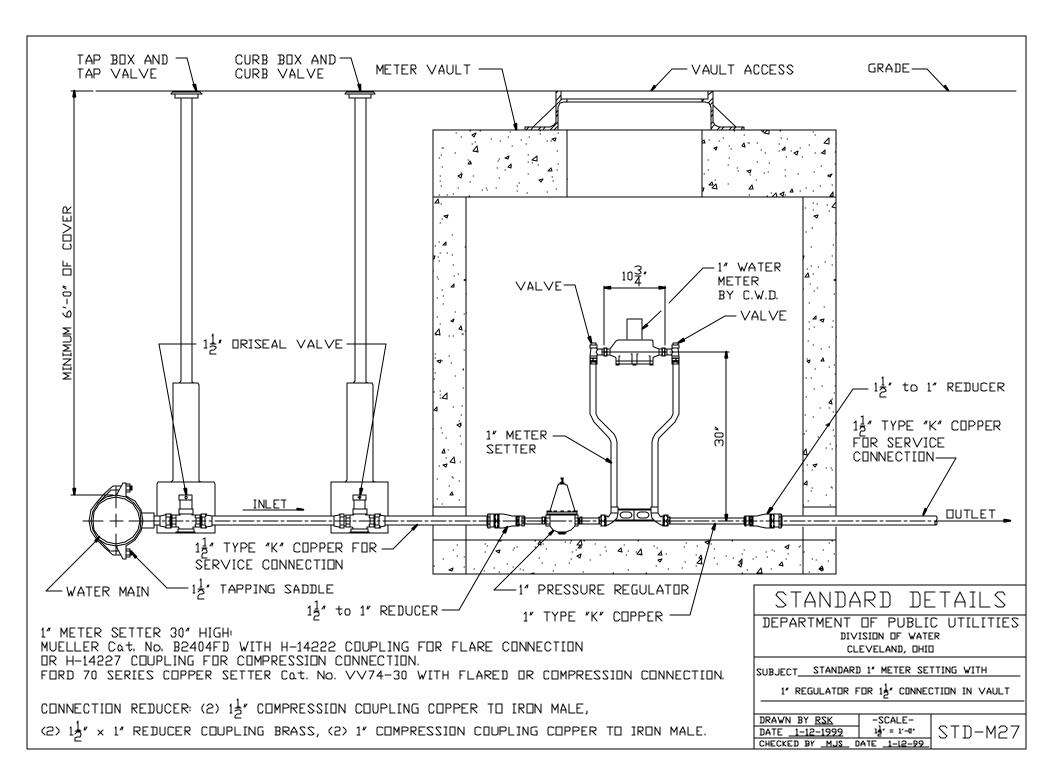


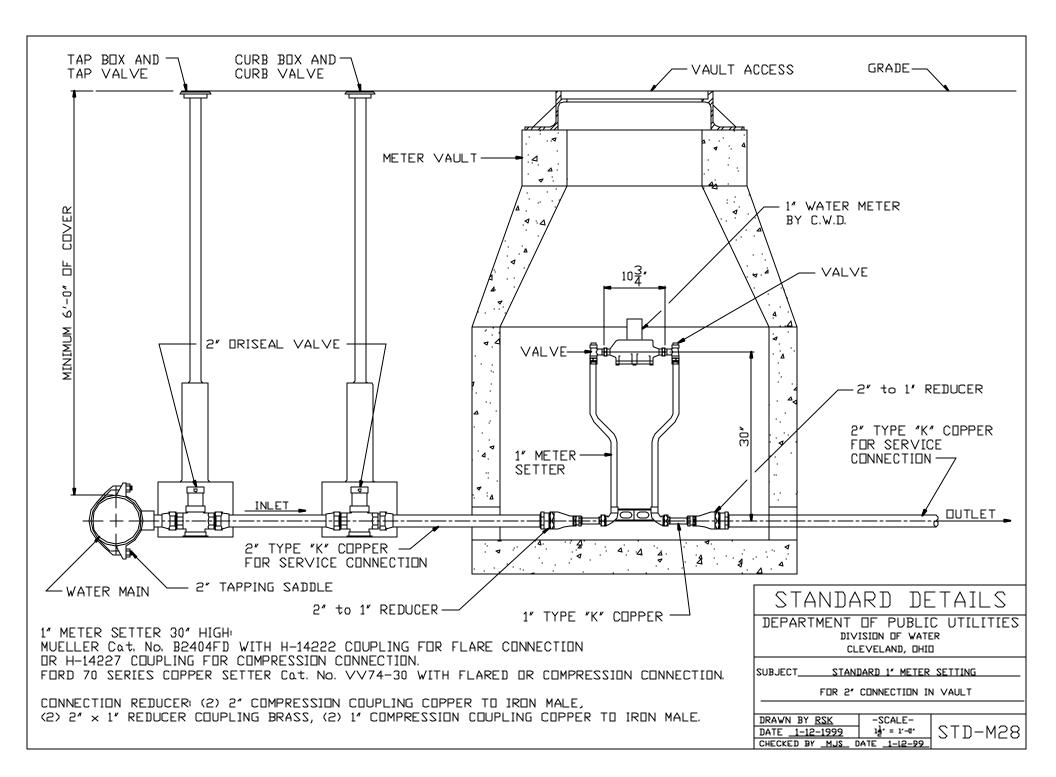
## STANDARD 1-1/2" METER SETTING WITH 1-1/2" METER FOR 2" CONNECTION

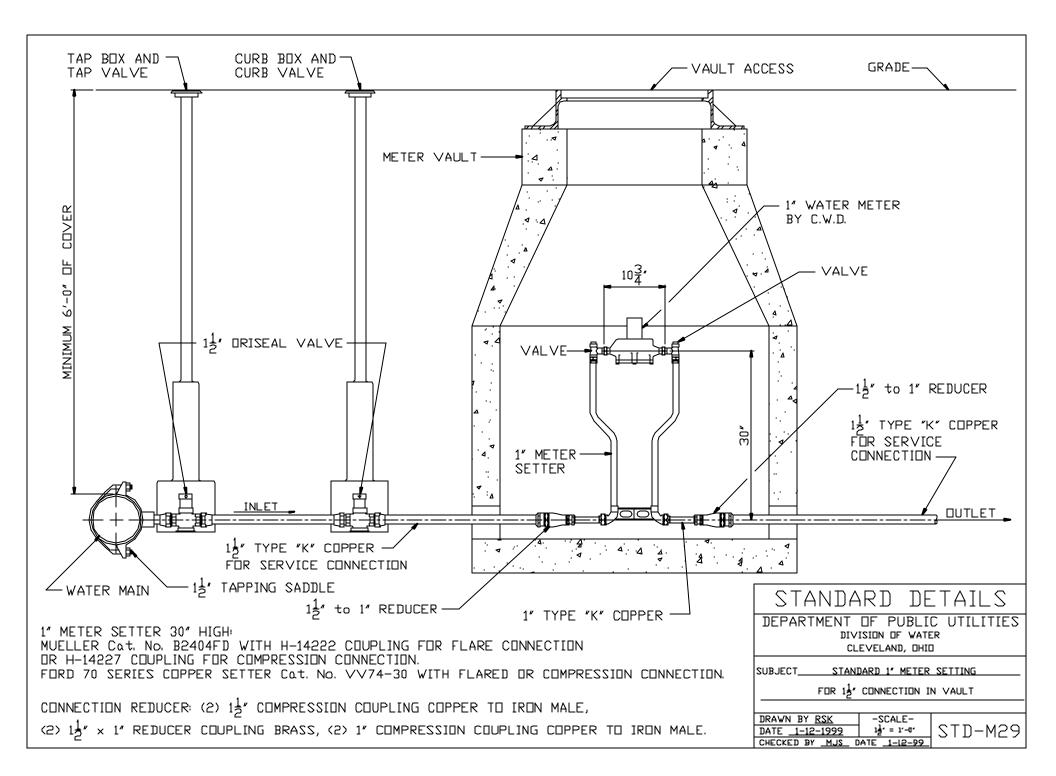
<u>ITEM</u>	<u>REQ'D</u>	SIZE	DESCRIPTION
1	1	1-1/2"	METER BY C.W.D.
2	1	1-1/2"	STREAMLINE SWING CHECK VALVE, COPPER TO COPPER
3	2	1-1/2"	STREAMLINE HAND WHEEL GATE VALVES
4	1	1"	STREAMLINE O.S. & Y. GATE VALVE
5	2	1-1/2"	STREAMLINE STREET ELBOW, COPPER TO COPPER
6	1	1-1/2"	STREAMLINE TEE, COPPER TO COPPER
7	2	1-1/2" x 1" x 1-1/2"	STREAMLINE TEE, COPPER TO IRON, FEMALE
8	1	1-1/2"	STREAMLINE COUPLING, COPPER TO IRON, FEMALE
9	1	1"	STREAMLINE UNION, COPPER TO COPPER
10	1	1-1/2"	STREAMLINE COUPLING, COPPER TO IRON, MALE
11	1	1-1/2"	BRASS SCREW PLUG
12	1	1-1/2"	STREAMLINE COUPLING, COPPER TO IRON, FEMALE
13	2	1-1/2"	OVAL FLANGES, FEMALE
14	2	1"	STREAMLINE COUPLING, COPPER TO IRON, FEMALE
15	2	1-1/2"	STREAMLINE COUPLING, COPPER TO IRON, FEMALE
16	37"	1-1/2"	COPPER TUBING – HARD
17	30"	1"	COPPER TUBING – HARD
18	2	1-1/2"	BRASS CLOSE NIPPLE
19	2	2" x 1-1/2"	BRASS REDUCER COUPLING
20	2	2"	COMPRESSION COUPLING, COPPER TO IRON, MALE
21	11b.		SPECIAL SOLDER

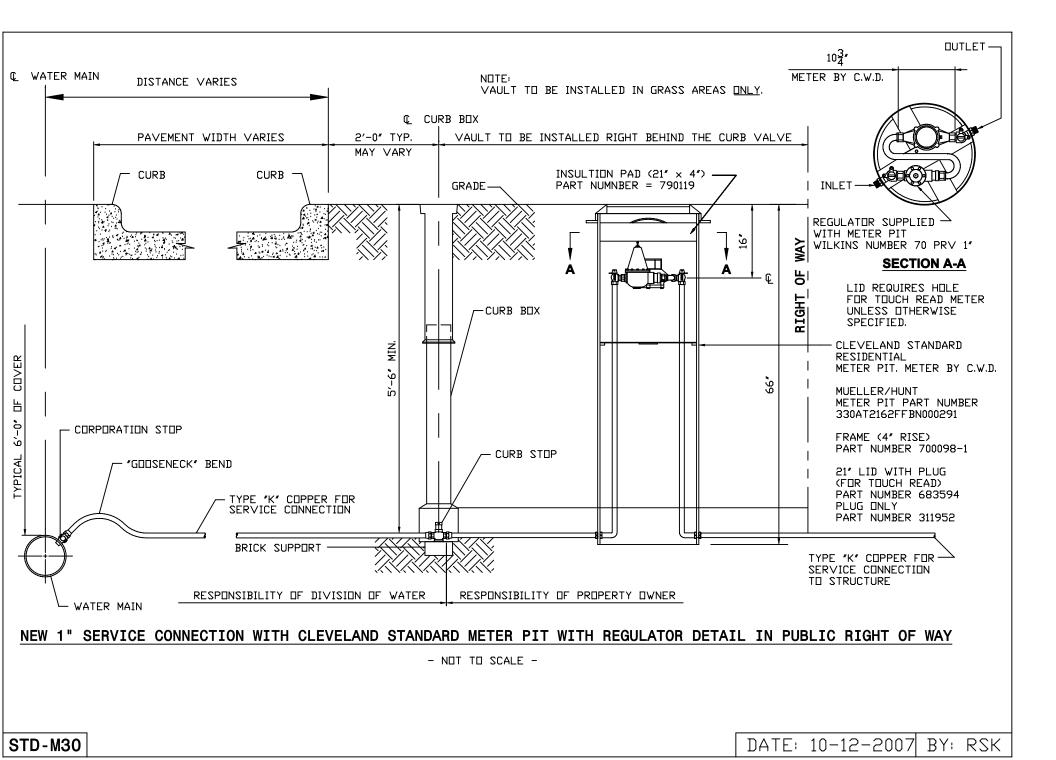
(SEE DRAWING No. STD-M25 and STD-V01). 1-12-1999

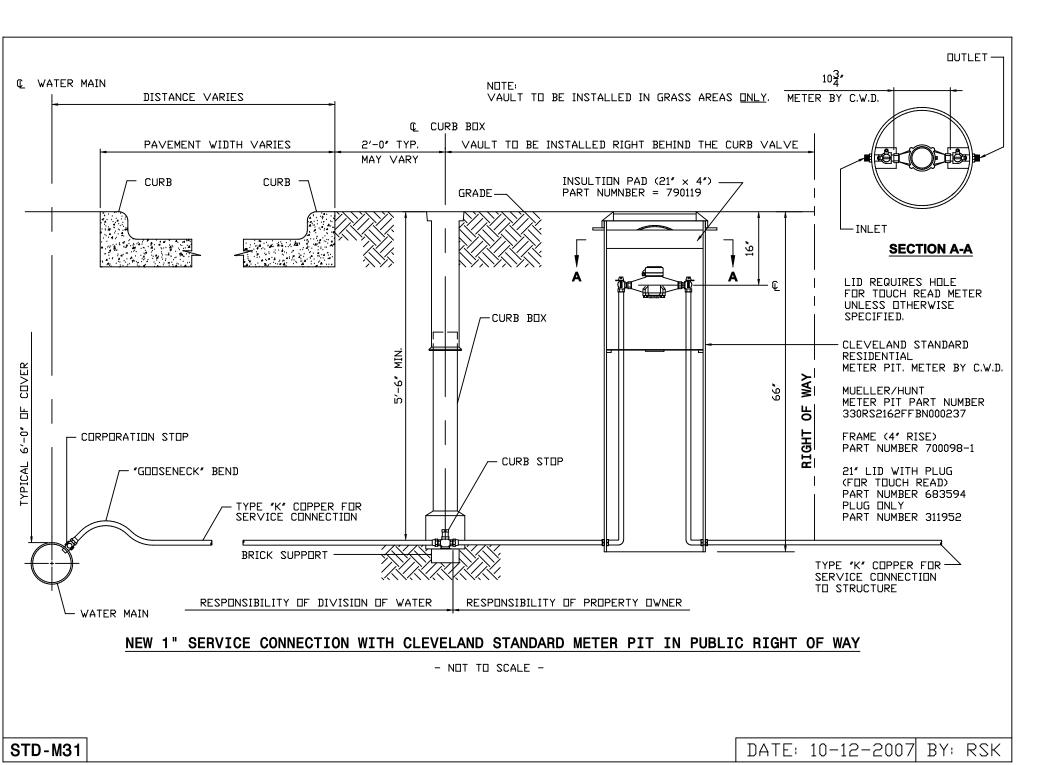


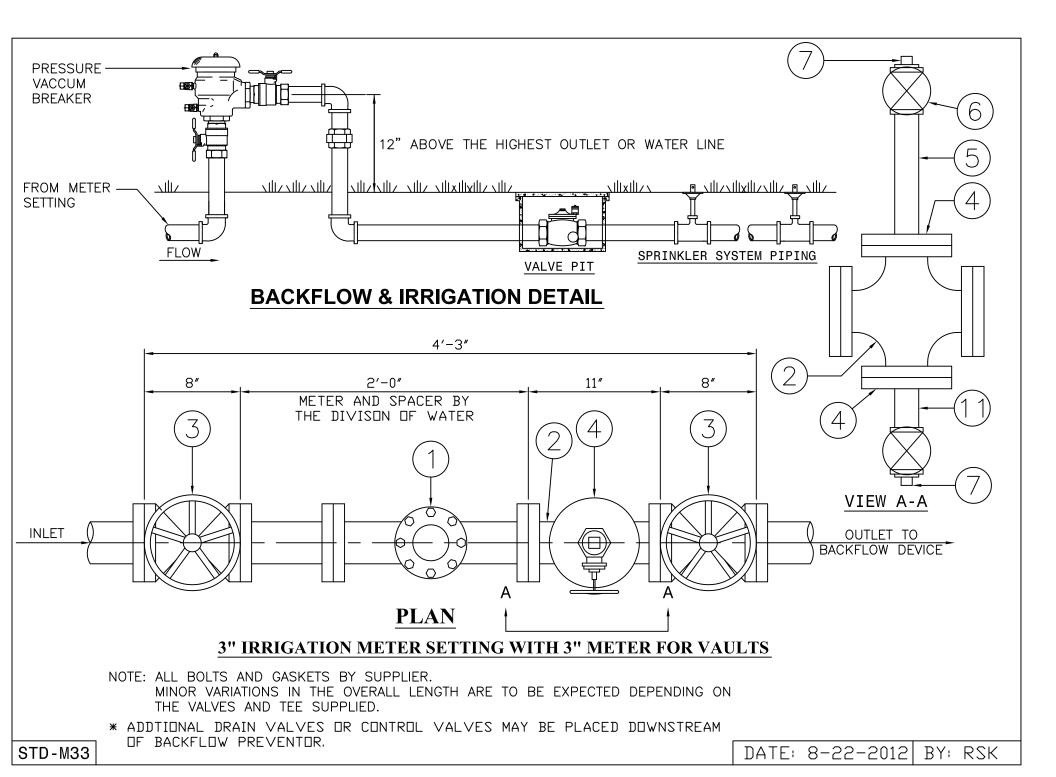








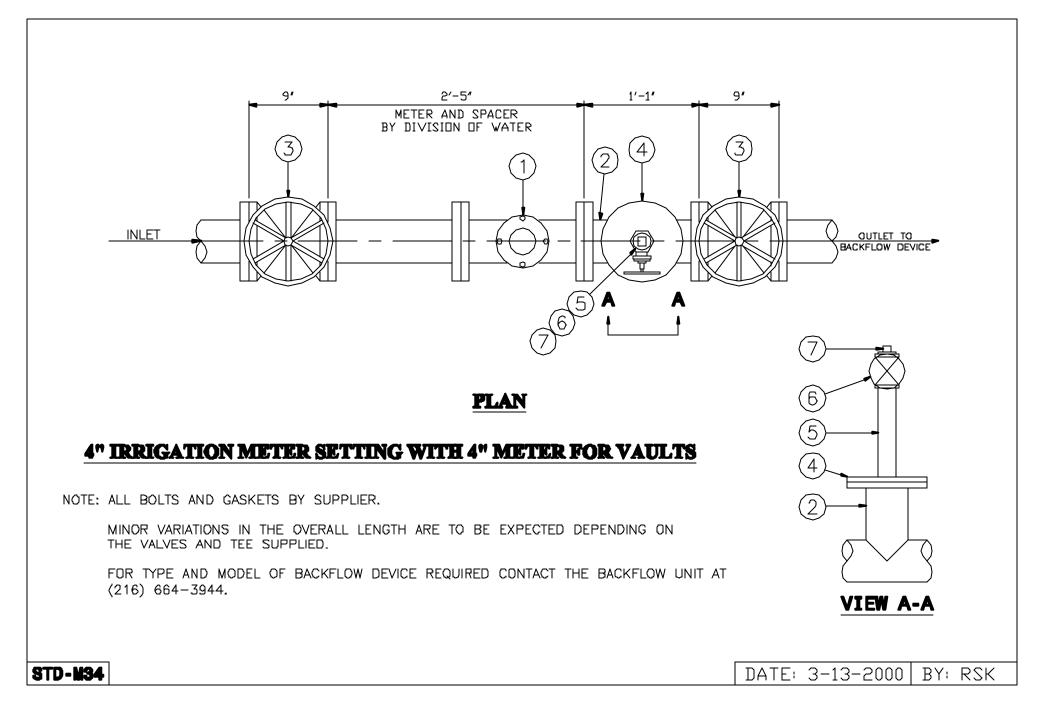




# 3" IRRIGATION METER SETTING WITH 3" METER - FLANGED

ITEM	<u>Req'd</u>	SIZE	DESCRIPTION	
1	1	3 "	TURBINE METER & SPACER (PROVIDED BY C.W.D.)	
2	1	3" x 3" x 3" x 3"	CROSS, FLANGED	
3	2	3 "	HAND WHEEL GATE VALVES, FLANGED	
4	2	3 "	BLIND FLANGES, DRILLED & TAPPED FOR 2" BRASS NIPPLE	
5	1	2" x 10"	BRASS NIPPLE	
6	2	2 "	HAND WHEEL GATE VALVE, SCREWED	
7	2	2 "	BRASS PLUG	
8	8	3 "	RING GASKETS	
9	32	5/8" x 2-1/2"	MACHINE BOLTS	
10	32	5/8"	HEX NUTS	
11	1	2" x 6"	BRASS NIPPLE	
(SEE DRAWING STD-M33 & STD-V01).				

8-22-2012

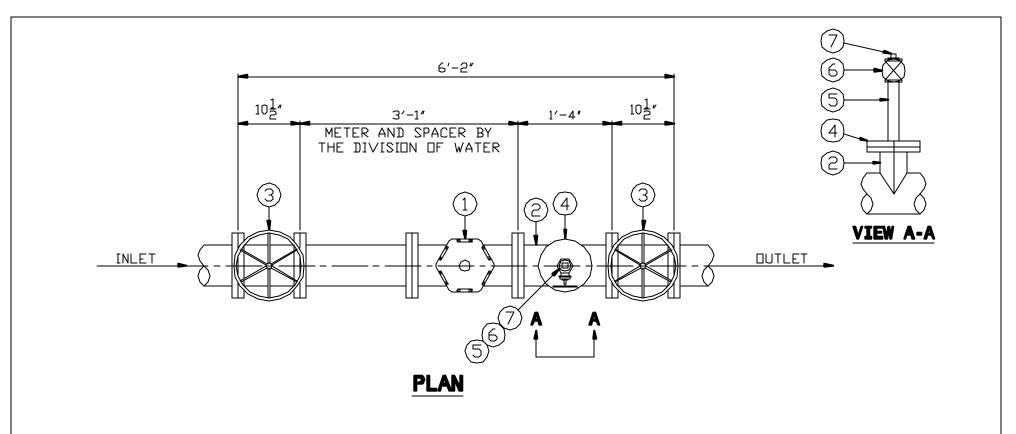


### 4" IRRIGATION METER SETTING WITH 4" METER - FLANGED

ITEM	<u>Req'd</u>	SIZE	DESCRIPTION
1	1	4 "	TURBINE METER & SPACER (PROVIDED BY C.W.D.)
2	1	4" x 4" x 4"	TEE, FLANGED
3	2	4 "	HAND WHEEL GATE VALVES, FLANGED
4	1	4 "	BLIND FLANGES, DRILLED & TAPPED FOR 2" BRASS NIPPLE
5	1	2" x 10"	BRASS NIPPLE
6	1	2 "	HAND WHEEL GATE VALVE, SCREWED
7	1	2 "	BRASS PLUG
8	7	4 "	RING GASKETS
9	56	5/8" x 3"	MACHINE BOLTS
10	56	5/8"	HEX BOLTS

(SEE DRAWING STD-M34 & STD-V01).

4-19-2000



# **6" IRRIGATION METER SETTING WITH 6" METER FOR VAULTS**

DATE: 4-19-2000 | BY: RSK

NOTE: ALL BOLTS AND GASKETS BY SUPPLIER,

MINOR VARIATIONS IN THE OVERALL LENGTH ARE TO BE EXPECTED DEPENDING ON THE VALVES AND TEE SUPPLIED,

FOR TYPE AND MODEL OF BACKFLOW DEVICE REQUIRED CONTACT THE BACKFLOW UNIT AT (216) 664-3944.

SIZE THE METER VAULT ACCORDINGLY WITH THE BACKFLOW DEVICED USED,

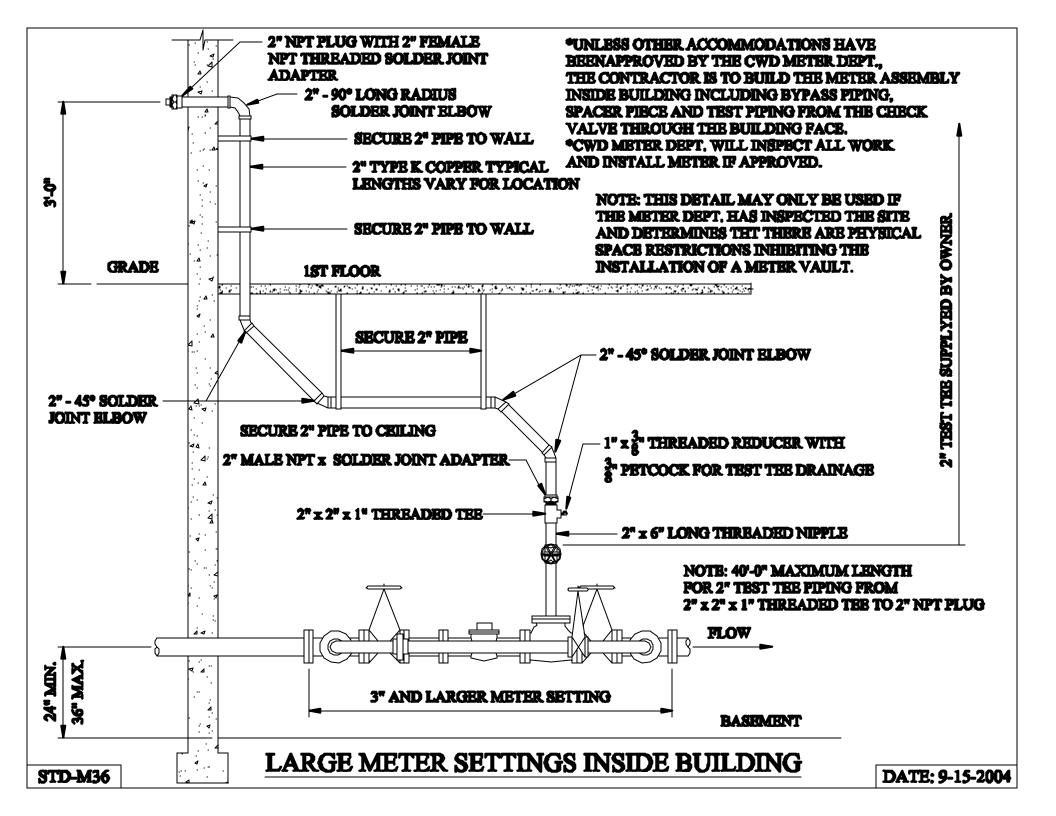
STD-M35

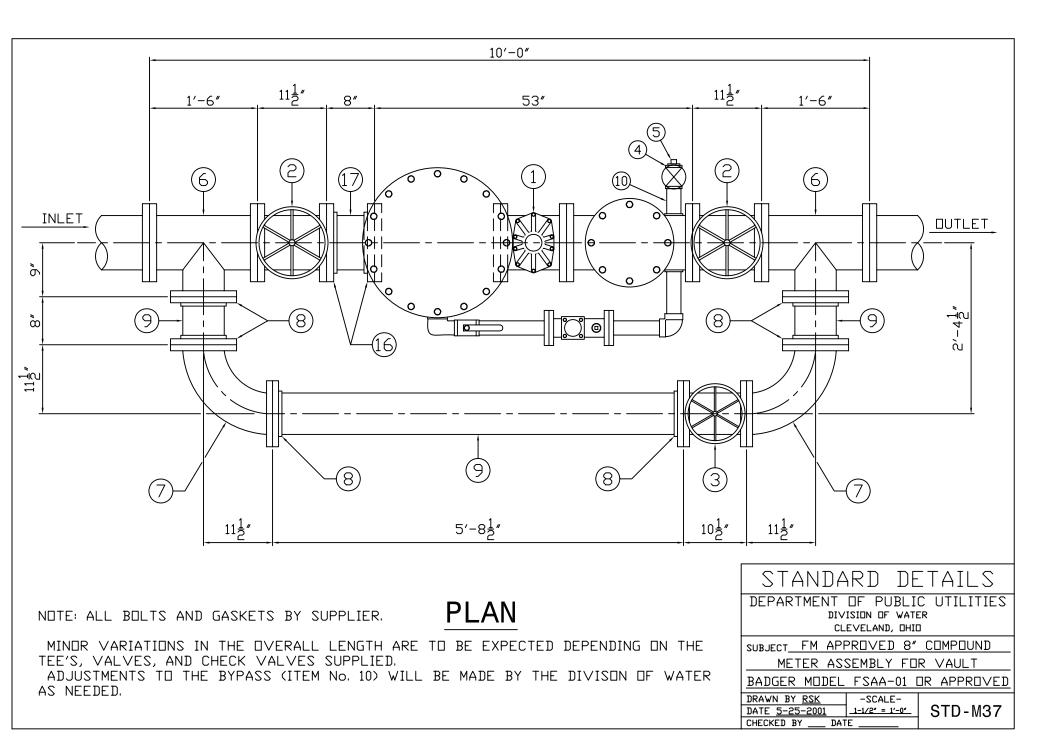
# 6" IRRIGATION METER SETTING WITH 6" METER - FLANGED

ITEM	<u>Req'd</u>	SIZE	DESCRIPTION
1	1	6 "	TURBINE METER & SPACER (PROVIDED BY C.W.D.)
2	1	6" x 6" x 6"	TEE, FLANGED
3	2	6 "	HAND WHEEL GATE VALVES, FLANGED
4	1	6 "	BLIND FLANGES, DRILLED & TAPPED FOR 2" BRASS NIPPLE
5	1	2" x 10"	BRASS NIPPLE
6	1	2 "	HAND WHEEL GATE VALVE, SCREWED
7	1	2 "	BRASS PLUG
8	7	6 "	RING GASKETS
9	56	3/4" x 3-1/2"	MACHINE BOLTS
10	56	3/4"	HEX BOLTS

(SEE DRAWING STD-M35 & STD-V01).

4-19-2000



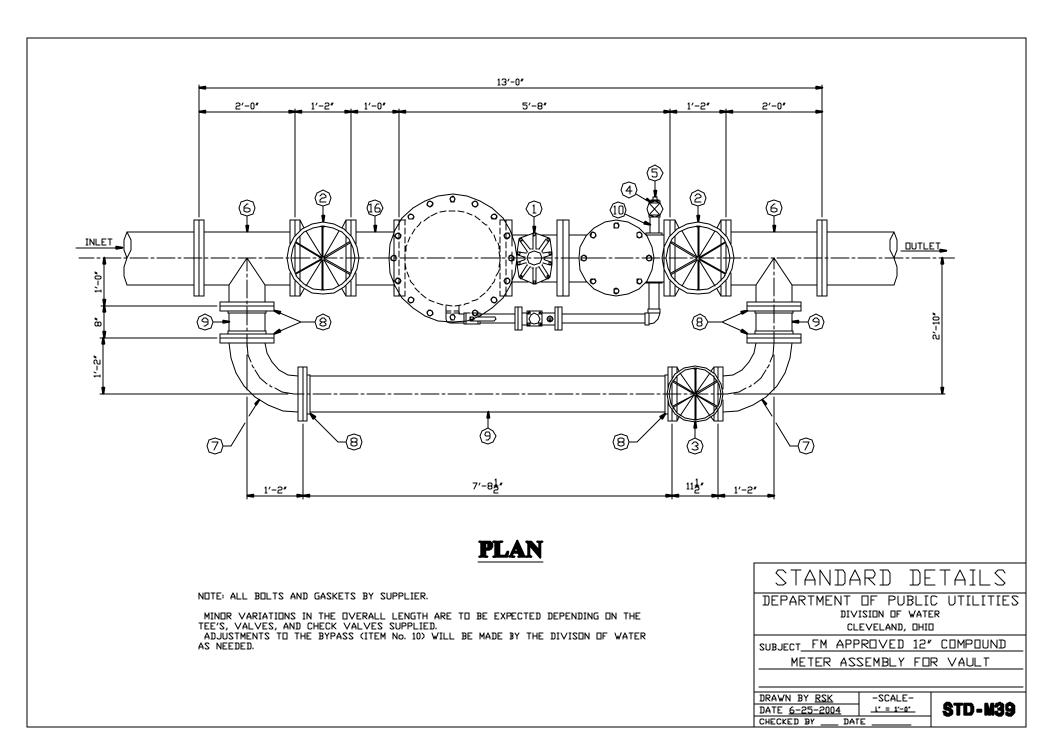


# FM APPROVED 8" COMPOUND METER ASSEMBLY FOR VAULT

ITEM	<u>req'd</u>	SIZE	DESCRIPTION
1	1	8 "	FM APPROVED COMPOUND METER ASSEMBLY (BY CONTRACTOR)
2	2	8 "	HAND WHEEL GATE VALVES, FLANGED
3	1	6 "	O.S.Y. VALVE, FLANGED
4	1	2 "	HAND WHEEL GATE VALVE, SCREWED
5	1	2 "	BRASS PLUG
6	2	8" x 6"	CAST IRON TEES, FLANGED
7	2	6 "	CAST IRON ELBOWS, FLANGED LR
8	6	6" x 11"	CAST IRON FLANGE, 8 HOLE
9	85"	6 "	GALVANIZED PIPE, EXTRA HEAVY
10	1	2" x 4-1/2"	BRASS NIPPLE
11	7	8 "	FLANGE GASKETS
12	7	6 "	FLANGE GASKETS
13	112	3/4" x 3-1/2"	MACHINE BOLTS
14	8	3/4" x 4-1/4"	STUD BOLTS
15	120	3/4"	HEX NUTS
16	2	8" x 13-1/2"	CAST IRON FLANGE, 8 HOLE
17	8 "	8 "	GALVANIZED PIPE, EXTRA HEAVY

(SEE DRAWING No. STD-M37 & STD-V01).

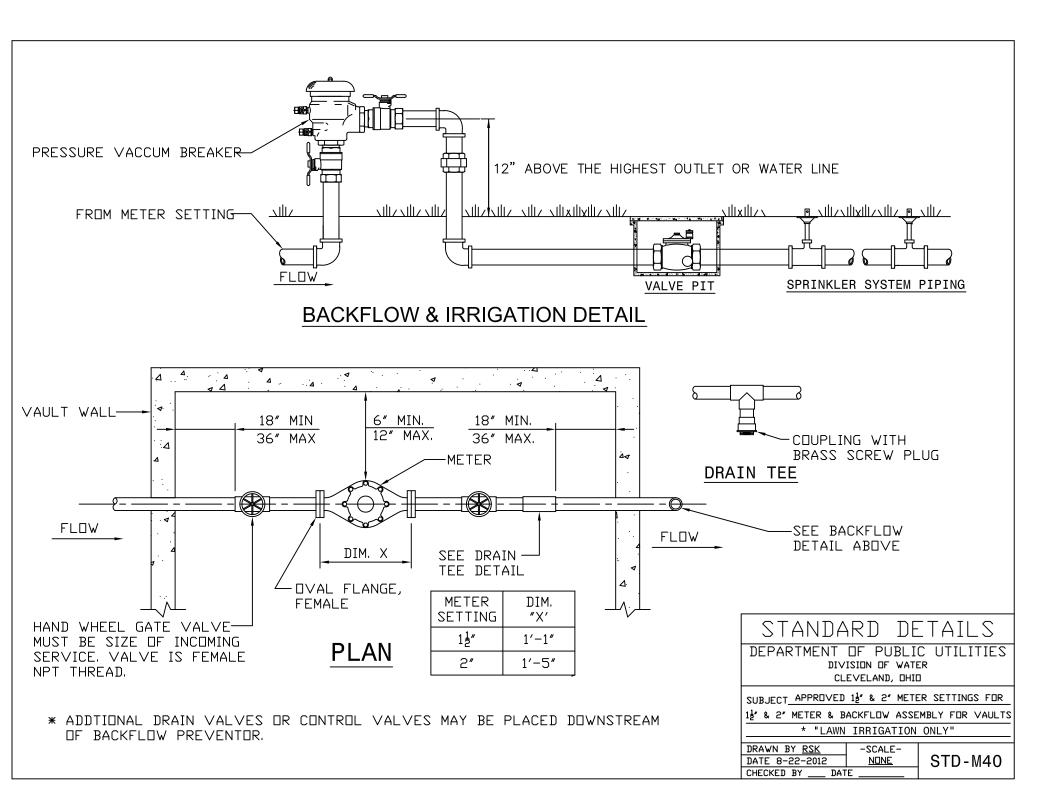
5-25-2001



# FM APPROVED 12" COMPOUND METER ASSEMBLY FOR VAULT

ITEM	<u>req'd</u>	SIZE	DESCRIPTION
1	1	12"	FM APPROVED COMPOUND METER ASSEMBLY (BY CONTRACTOR)
2	2	12"	HAND WHEEL GATE VALVES, FLANGED
3	1	8 "	O.S.Y. VALVE, FLANGED
4	1	2 "	HAND WHEEL GATE VALVE, SCREWED
5	1	2 "	BRASS PLUG
6	2	12" x 8"	CAST IRON TEES, FLANGED
7	2	8 "	CAST IRON ELBOWS, FLANGED LR
8	6	8" x 13-1/2"	CAST IRON FLANGE, 8 HOLE
9	110"	8 "	GALVANIZED PIPE, EXTRA HEAVY
10	1	2" x 4-1/2"	BRASS NIPPLE
11	7	12"	FLANGE GASKETS
12	7	8 "	FLANGE GASKETS
13	84	7/8" x 4"	MACHINE BOLTS
14	8	7/8" x 4-3/4"	STUD BOLTS
15	100	7/8"	HEX NUTS
16	1	12" x 12"	LONG FLANGED DUCTILE IRON PIPE
17	56	3/4" x 3-1/2"	MACHINE BOLTS
18	56	3/4"	HEX NUTS

(SEE DRAWING No. STD-M39 & STD-V01) 6-25-2004



STANDARD	<u>3" METER SE</u>	TTING - 2" METER	
ITEM	<u>Req'd</u>	SIZE	DESCRIPTION
1	1	2 "	HAND WHEEL GATE VALVE, SCREWED
2	2	2" x 6"	GALVANIZED NIPPLES
3	2	3 "	HAND WHEEL GATE VALVE NRS, FLANGED
4	1	3 "	SWING GATE CHECK VALVE, FLANGED
5	1	2"	O.S.Y. VALVE, SCREWED
6	2	3" x 3" x 3"	TEE, FLANGED
7	2	2" x 10"	GALVANIZED NIPPLE
8	2	2 "	GALVANIZED ELBOWS - 90 DEGREES
9	2	2 "	GALVANIZED STREET ELBOWS
10	1	2 "	GALVANIZED UNION, MALE TO FEMALE
11	36"	2 "	GALVANIZED PIPE, EXTRA HEAVY
12	2	2" x 2-1/2"	BRASS NIPPLES
13	2	3" x 7-1/2" DIA.	FLANGES (4 HOLE) WITH 2" TAP
14	2	2 "	ELLIPTICAL FLANGES (2 HOLE) (BY C.W.D.)
15	1	2 "	DISPLACEMENT METER (METER BY C.W.D.)
16	1	2" x 10"	BRASS NIPPLE
17	2	3 "	BLIND FLANGES, DRILLED & TAPPED FOR 2" x 6" NIPPLES FOR ITEM No. 2
18	1	2 "	BRASS PLUG
19	9	3 "	RING GASKETS
20	2	2 "	ELLIPTICAL GASKETS
21	36	5/8" x 2-1/2"	MACHINE BOLTS
22	2	5/8" x 3"	STUD BOLTS
23	38	5/8"	HEX BOLTS

(SEE DWG. STD-M04 & STD-M05 & STD-V01). 11-19-98