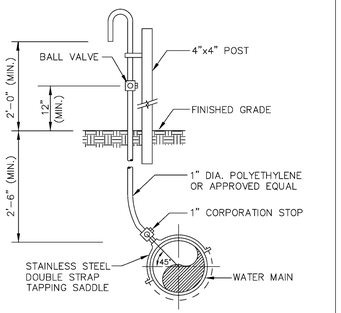
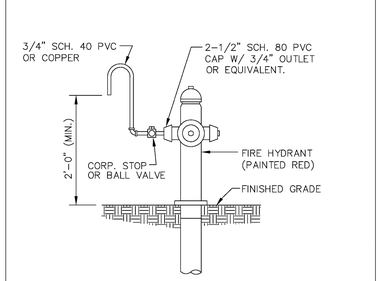


SAMPLE POINT (MAIN)

ALL D.I.P. TO BE PAINTED BLUE ON TOP HALF OF PIPE.

ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	SAMPLE POINT (MAIN)	
S.S. / 04-2005			DATE: MAY 2022
	SCALE: N.T.S.		DWG. NO. 100-1

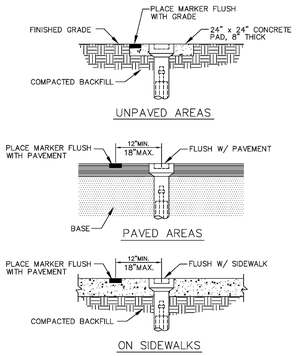


SAMPLE POINT (HYDRANT)

ALL POMPANO BEACH HYDRANTS SHALL BE PAINTED RED.

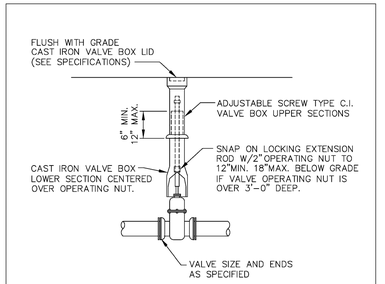
ALL D.I.P. TO BE PAINTED BLUE ON TOP HALF OF PIPE.

ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	SAMPLE POINT (HYDRANT)	
S.S. / 04-2005			DATE: MAY 2022
	SCALE: N.T.S.		DWG. NO. 101-1



VALVE BOX SETTINGS

ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	VALVE BOX SETTINGS	
S.S. / 04-2005			DATE: MAY 2022
	SCALE: N.T.S.		DWG. NO. 102-1

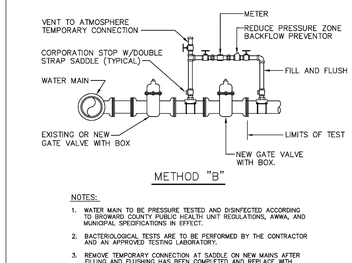


GATE OR PLUG VALVE SETTING

USE MEGALUGS AT ALL PIPE JOINTS

ALL D.I.P. TO BE PAINTED BLUE ON TOP HALF OF PIPE.

ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	GATE OR PLUG VALVE SETTINGS	
S.S. / 04-2005			DATE: MAY 2022
T.W. / 11-2007	SCALE: N.T.S.		DWG. NO. 103-1



METHOD "B"

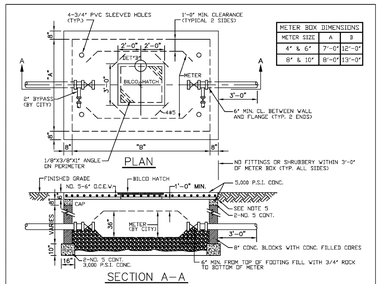
NOTES:

1. WATER MAIN TO BE PRESSURE TESTED AND DISINFECTED ACCORDING TO BROWARD COUNTY PUBLIC HEALTH UNIT REGULATIONS, AWWA, AND MUNICIPAL SPECIFICATIONS IN EFFECT.
2. BACTERIOLOGICAL TESTS ARE TO BE PERFORMED BY THE CONTRACTOR AND AN APPROVED TESTING LABORATORY.
3. REMOVE TEMPORARY CONNECTION AT SADDLE ON NEW MAINS AFTER FILLING AND FLUSHING HAS BEEN COMPLETED AND REPLACE WITH BRASS PLUG
4. PROVIDE ALL NECESSARY THRUST BLOCKS OR OTHER RESTRAINTS.
5. FILLING AND FLUSHING LOCATIONS SHALL BE COORDINATED BY THE CONTRACTOR, ENGINEER, AND CITY.
6. VENT TO ATMOSPHERE SHALL REMAIN OPEN DURING ALL PHASES OF PRESSURE TESTING.
7. AFTER COMPLETION FILL AND FLUSH CONNECTION
8. USE MEGALUGS AT ALL PIPE JOINTS

FILLING AND FLUSHING CONNECTION

ALL D.I.P. TO BE PAINTED BLUE ON TOP HALF OF PIPE.

ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	FILLING / FLUSHING CONNECTION	
S.S. / 04-2005			DATE: MAY 2022
T.W. / 11-2007			
S.S. / 01-2012	SCALE: N.T.S.		DWG. NO. 104-1

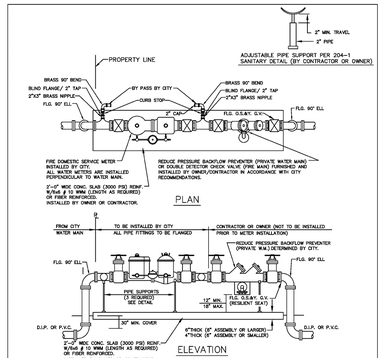


NOTES

1. THIS STRUCTURE & LID ARE FOR NON-TRAFFIC BEARING ONLY.
2. DO NOT CONSTRUCT METER BOX UNTIL AFTER METER IS IN PLACE.
3. CENTER BOX AROUND METER.
4. DO NOT POUR CONCRETE LID TO CONCRETE WALLS.
5. TOP OF LID TO BE @ FINISH GRADE ELEV.
6. CUT OUT REPLACEABLE 10" SQUARE OVER EACH READING HEAD & FASTEN W/CHAIN.
7. FITS NEPTUNE R450 ANTENNA.
8. BILCO HATCH MODEL J-AL OR JD-AL OR EQUAL

LARGE METER BOX

ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	LARGE METER BOX	
T.W. / 03-2008			DATE: MAY 2022
S.S. / 01-2012			
S.S. / 11-2012	SCALE: N.T.S.		DWG. NO. 105-1

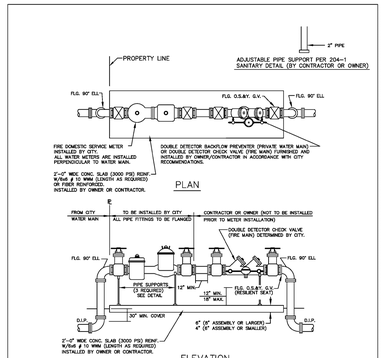


MASTER METER AND BACKFLOW DEVICE DETAILS FIRE AND DOMESTIC COMBINED SOURCE

NOTES

1. THE BACKFLOW PREVENTOR FOR THE BY-PASS SHALL BE DDCV OR RPZ.
2. PLEASE NOTE THAT WATER METERS 3" AND LARGER ARE SUBJECT TO AN APPROXIMATE ORDER LEAD TIME OF 60 TO 75 DAYS AFTER FULL PAYMENT. PLEASE CONTACT CUSTOMER SERVICE AT 954-786-4637 TO ARRANGE FOR METER PROCUREMENT AND INSTALLATION.
3. USE MEGALUGS AT ALL PIPE JOINTS
4. PLEASE SEE METER INSTALL DIMENSION LIST ON STANDARD NO. 106-4

ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	MASTER METER AND BACKFLOW DEVICE	
S.S. / 05-2011			DATE: MAY 2022
S.S. / 12-2013			
S.S. / 11-2016	SCALE: N.T.S.		DWG. NO. 106-2



FIRE ONLY METER AND BACKFLOW DEVICE DETAILS

NOTES

1. THE BACKFLOW PREVENTOR FOR THE BY-PASS SHALL BE DDCV OR RPZ.
2. PLEASE NOTE THAT WATER METERS 3" AND LARGER ARE SUBJECT TO AN APPROXIMATE ORDER LEAD TIME OF 60 TO 75 DAYS AFTER FULL PAYMENT. PLEASE CONTACT CUSTOMER SERVICE AT 954-786-4637 TO ARRANGE FOR METER PROCUREMENT AND INSTALLATION.
3. USE MEGALUGS AT ALL PIPE JOINTS
4. PLEASE SEE METER INSTALL DIMENSION LIST ON STANDARD NO. 106-4

ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	FIRE ONLY METER AND BACKFLOW DEVICE	
S.S. / 05-2011			DATE: MAY 2022
S.S. / 11-2012			
S.S. / 12-2013	SCALE: N.T.S.		DWG. NO. 106-3

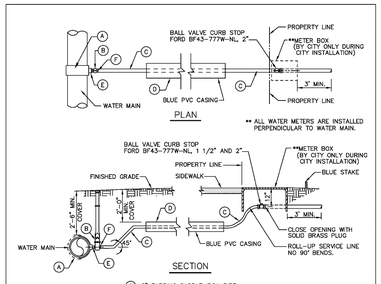
FIRE METERS - OS & Y VALVES, GASKETS & METER (NEPTUNE MACH 10 Ultrasonic Meter)					2" MIN. TRAVEL	
SIZE	VALVES (2)	GASKETS (4)	METER w/ Strainer	TOTAL LENGTH		
3" w/ 4" X 3" Reducer **	16"	1/2"	30" **	46 1/2"		
4"	18"	1/2"	27 1/2"	46"		
6"	21"	1/2"	33"	54 1/2"		
8"	23"	1/2"	30"	53 1/2"		
10"	26"	1/2"	41"	67 1/2"		

FIRE &/or Domestic Water SERVICE METERS - TEES, OS & Y VALVES, GASKETS & METERS (NEPTUNE MACH 10 Ultrasonic Meter)						
SIZE	TEES (2)	VALVES (2)	GASKETS (6)	Meter w/ Strainer	TOTAL LENGTH	
3" w/ 4" X 3" Reducer **	3" X 3" - 22"	16"	3/4"	30" **	68 3/4"	
4"	4" X 3" - 26"	18"	3/4"	27 1/2"	72 1/4"	
6"	6" X 4" - 32"	21"	3/4"	33"	86 3/4"	
8"	8" X 4" - 36"	23"	3/4"	30"	89 3/4"	
10"	10" X 6" - 44"	26"	3/4"	41"	111 3/4"	

*All fittings, valves and meters are flanged & all dimensions are from face of flange to face of flange.

NOTE:
PLEASE NOTE THAT WATER METERS 3" AND LARGER ARE SUBJECT TO AN APPROXIMATE ORDER LEAD TIME OF 60 TO 75 BUSINESS DAYS AFTER FULL PAYMENT. PLEASE CONTACT CUSTOMER SERVICE AT 954-786-4637 TO ARRANGE FOR METER PROCUREMENT AND INSTALLATION. LARGE METERS MUST BE AT MINIMUM ORDERED PRIOR TO INITIAL INSPECTIONS.

ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	METER INSTALL DIMENSION LIST	
T.W. / 02-2006			DATE: JAN. 2022
A.S. / 01-2022	SCALE: N.T.S.		DWG. NO. 106-4



A 2" TAPPING SADDLE IRON PIPE THREADED FORD FC-202 OR EQUAL.
B 2" RESILIENT SEATED GATE VALVE CLOW F61-03 MUELLER A-23-60-B 2" OPERATING NUT BOXED TO GRADE - C.I. BOX
C 2" POLYETHYLENE BLUE
D 2 1/2" SCH. 40
E 2" X 3" BRASS NIPPLE
F 2" MIP COUPLING C-84-77 - PACK JOINT - CTS

TYPICAL 1 1/2" AND 2" WATER SERVICE

ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	TYPICAL 2" WATER SERVICE	
S.S. / 05-2011			DATE: APRIL 2022
S.S. / 05-2012			
S.S. / 11-2018	SCALE: N.T.S.		DWG. NO. 107-2
A.S. / 08-2021			

COSTCO WHOLESALE
POMPANO BEACH

COSTCO WHOLESALE CORPORATION
999 LAKE DRIVE
ISSAQUAH, WA 98027
T: 425.313.8100
www.costco.com

THOMAS ENGINEERING GROUP
6300 NW 31st AVENUE
FORT LAUDERDALE, FL 33309
PH: (954) 202-7000
www.ThomasEngineeringGroup.com

40 20 10 0 40
1"= 40'

Matthew J Cigale
Digitally signed by Matthew J Cigale
DN: c=US, o=Unaffiliated, dnQualifier=A01410C00000192E2C786CB00090EE, cn=Matthew J Cigale
Date: 2025.10.29 10:23:53 -04'00'
FLORIDA BUSINESS CERTIFICATE NO. 29828

△	DATE	DESCRIPTION

F240051
OCT. 29, 2025

WATER & SEWER DETAILS

C-11

DRC
PZ25-12000023
12/03/2025

COSTCO - POMPANO BEACH
POMPANO BEACH, FLORIDA

WATER & SEWER DETAILS
OCT. 29, 2025

O:\PROJECTS\2024\F240051 - COSTCO - POMPANO BEACH\DWG\FINAL ENGINEERING PLANS\F240051-WATER & SEWER DETAILS.dwg -----JLAYOUT: WS DETAILS