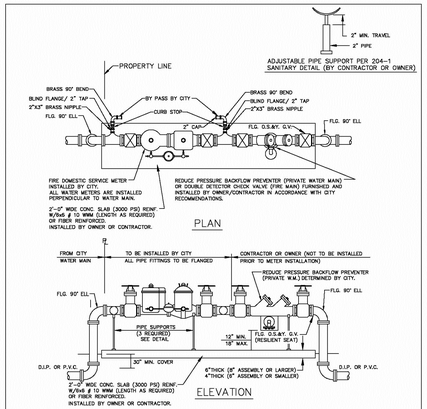


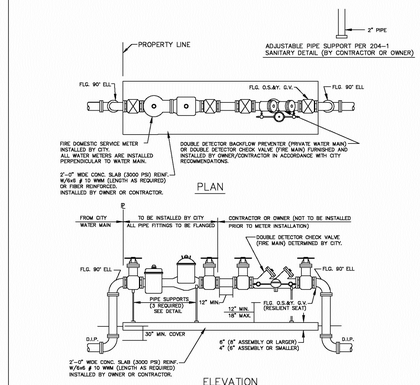
MASTER METER AND BACKFLOW DEVICE DETAILS
FIRE AND DOMESTIC COMBINED SOURCE

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		
S.S.	11-2012		
S.S.	12-2013		DATE: MAY 2022
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		
S.S.	11-2012		
S.S.	12-2013		DATE: MAY 2022
S.S.	11-2016	SCALE: N.T.S.	DWG. NO. 106-3

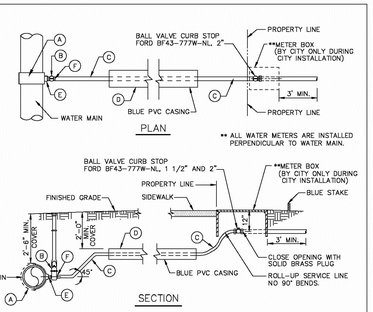
FIRE METERS - OS & Y VALVES, GASKETS & METER					2" MIN. TRAVEL	
(NEPTUNE MACH 10 Ultrasonic Meter)						
			METER w/ Strainer	TOTAL LENGTH		
SIZE	VALVES (2)	GASKETS (4)				
3" w/ 4" X 3" Reducer **	16"	1/2"	30" **	46 1/2"		
4"	18"	1/2"	27 1/2"	46"		
6"	21"	1/2"	33"	54 1/2"		
8"	23"	1/2"	30"	53 1/2"		
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)				Meter w/	TOTAL	
SIZE	TEES (2)	VALVES (2)	GASKETS (6)	Strainer	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.	02-2008		
S.S.	11-2016		
A.S.	01-2022		DATE: JAN. 2022
		SCALE: N.T.S.	DWG. NO. 106-4

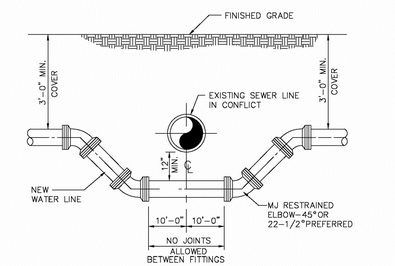


(A) 2" TAPPING SADDLE IRON PIPE THREADED FORD FC-202 OR EQUAL.
(B) 2" RESILIENT SEATED GATE VALVE CLOW F61-03 MUELLER A-23-60-B 2" OPERATING NUT BOXED TO GRADE - C.I. BOX
(C) 2" POLYETHYLENE BLUE
(D) 2 1/2" SCH. 40
(E) 2" X 3" BRASS NIPPLE
(F) 2" MIP COUPLING C-84-77 - PACK JOINT - CTS

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		
S.S.	05-2012		
S.S.	11-2018		DATE: APRIL 2022
A.S.	08-2021	SCALE: N.T.S.	DWG. NO. 107-2



NOTES

WHERE CONDITIONS PERMIT, PIPE DEFLECTION MAY BE USED INSTEAD OF BENDS TO OBTAIN THE MINIMUM CLEARANCE. FACTORY OFFSETS MAY BE USED.

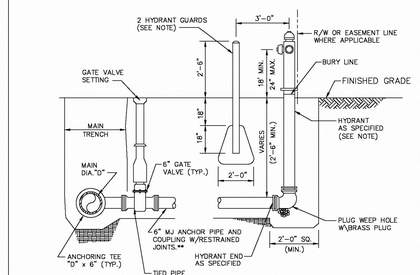
TYPICAL CONFLICT DETAIL

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	TYPICAL CONFLICT (WATER)
S.S.	04-2005		
S.S.	01-2012		
			DATE: MAY 2022
		SCALE: N.T.S.	DWG. NO. 108-1



NOTES

HYDRANT GUARDS TO BE 6" DIAMETER GALVANIZED STEEL PIPE PAINTED YELLOW FILLED WITH CONCRETE. OMIT GUARDS IN LOCATIONS WHERE SIDEWALKS EXIST.

**USE 2-3/4" S.S. TIE RODS WHEN DISTANCE BETWEEN MAIN AND HYDRANT < 10'. TIE RODS WILL BE USED W/RESTRAINED JOINTS OR USE MEGALUGS AT ALL PIPE JOINTS

HYDRANTS INSTALLED ON EXISTING WATER MAINS MUST USE A MUELLER MJ DI TAPPING SLEEVE, H-615 OR APPROVED EQUAL.

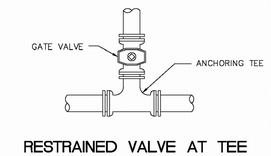
HYDRANTS CONNECTED TO NEW MAINS SHALL BE CONNECTED USING A HYDRANT TEE.

ALL POMPANO BEACH HYDRANTS SHALL BE PAINTED RED.

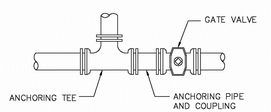
TYPICAL FIRE HYDRANT ASSEMBLY

ENGINEERING STANDARDS 2025

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	FIRE HYDRANT ASSEMBLY
T.W.	11-2007		
T.W.	10-2010		
S.S.	2-2012		DATE: MAY 2022
S.S.	11-2012	SCALE: N.T.S.	DWG. NO. 109-1



RESTRAINED VALVE AT TEE (BRANCH)



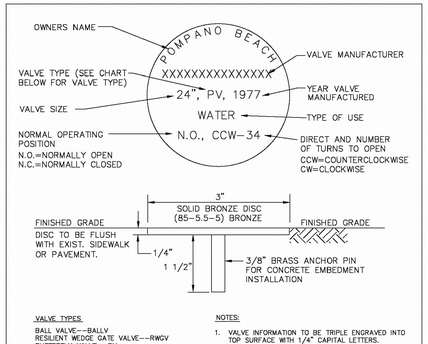
RESTRAINED VALVE AT TEE (IN LINE)

USE MEGALUGS AT ALL PIPE JOINTS

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

ENGINEERING STANDARDS 2025

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	RESTRAINED VALVE AT TEE
S.S.	JUNE 2005		
			DATE: MAY 2022
		SCALE: N.T.S.	DWG. NO. 111-1



VALVE TYPES

BALL VALVE--BALLY
RESILIENT WEDGE GATE VALVE--RWGV
BUTTERFLY VALVE--BV
PLUG VALVE--PV

NOTES:

1. VALVE INFORMATION TO BE TRIPLE ENGRAVED INTO TOP SURFACE WITH 1/4" CAPITAL LETTERS.
2. ENTIRE MARKER TO BE COATED WITH CLEAR EPOXY TO PREVENT TARNISHING.
3. VALVE INFORMATION TO BE APPROVED BY CITY OF POMPANO BEACH UTILITIES DEPARTMENT.
4. MARKERS SHALL BE MANUFACTURED BY RG WRENCH, OR APPROVED EQUAL

UNDERGROUND VALVE IDENTIFICATION MARKER

ENGINEERING STANDARDS 2025

REVISIONS BY	DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	UNDERGROUND VALVE IDENTIFICATION MARKER
S.S.	JUNE 2005		
T.W.	11-2007		
T.W.	02-2008		DATE: FEB. 2022
S.S.	1-24-12	SCALE: N.T.S.	DWG. NO. 115-1

FLYNN ENGINEERING
241 COMMERCIAL BLVD., LAUDERDALE-BY-THE-SEA, FL 33308
PHONE (954) 522-1004 | WWW.FLYNNENGINEERING.COM
EB# 6578

Job Title: 1600 S FEDERAL HIGHWAY (MIXED-USE PROJECT)
1600 S FEDERAL HIGHWAY
POMPANO BEACH, FLORIDA 33062

Sheet Title: WATER DETAILS

Revisions		
1	06/02/26	AAC
2		
3		
4		
5		
6		
7		
8		

Phase: PERMIT DOCUMENTS

BLAKE M. KIDWELL LICENSE No 91488 STATE OF FLORIDA PROFESSIONAL ENGINEER

Scale: N.T.S.	Date 01/27/25
Job No. 24-1832.00	Plot Date 04/22/26
Drawn by BMK	Sheet No. C5.2
Proj. Mgr. BMK	
Appr. by BMK	— of —

PZB
PZ24-12000027
06/24/2026

Blake M Kidwell
Digitally signed by Blake M Kidwell
DN: c=US, o=Unaffiliated, dnQualifier=A01410C0000018E75F903E100026EDE, cn=Blake M Kidwell
Date: 2026.04.23 09:18:31 -04'00'

This document has been digitally signed and sealed by Blake M. Kidwell on 04/23/2026.

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