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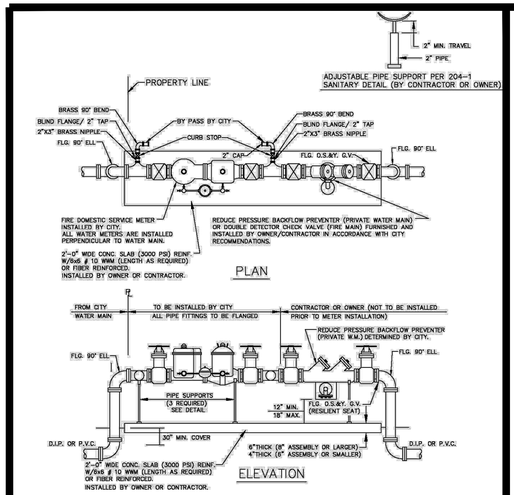
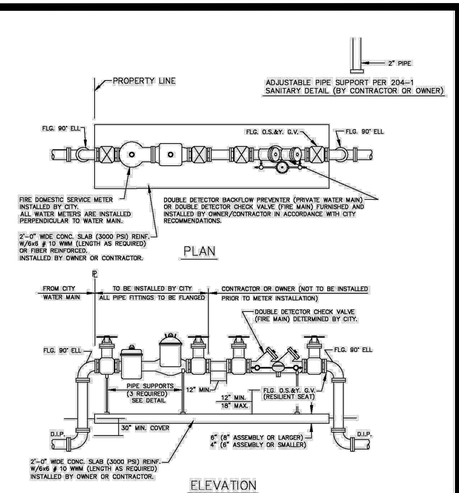


MASTER METER AND BACKFLOW DEVICE DETAILS FIRE AND DOMESTIC COMBINED SOURCE

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: S.S. 05-2011; S.S. 11-2012; S.S. 12-2013; S.S. 11-2016	ENGINEERING DIVISION CITY OF POMPANO BEACH	MASTER METER AND BACKFLOW DEVICE	DATE: MAY 2022 DWG. NO. 106-2
	SCALE: N.T.S.		



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

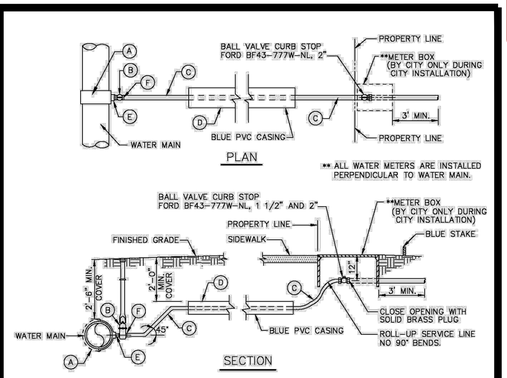
ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE: S.S. 05-2011; S.S. 11-2012; S.S. 12-2013; S.S. 11-2016	ENGINEERING DIVISION CITY OF POMPANO BEACH	FIRE ONLY METER AND BACKFLOW DEVICE	DATE: MAY 2022 DWG. NO. 106-3
	SCALE: N.T.S.		

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"	24"	1/2"	33"	54 1/2"	
8"	23"	1/2"	30"	53 1/2"	
10"	28"	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: T.W. 02-2008; S.S. 11-2016; A.S. 01-2022	ENGINEERING DIVISION CITY OF POMPANO BEACH	METER INSTALL DIMENSION LIST	DATE: JAN. 2022 DWG. NO. 106-4
	SCALE: N.T.S.		



(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

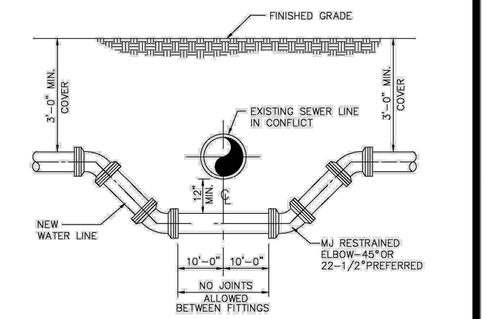
(D) 2 1/2" SCH. 40

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



NOTES

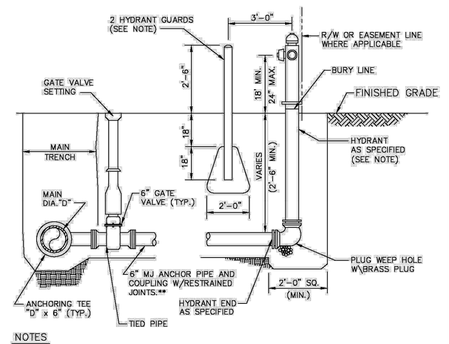
WHERE CONDITIONS PERMIT, PIPE DEFLECTION MAY BE USED INSTEAD OF BENDS TO OBTAIN THE MINIMUM CLEARANCE. FACTORY OFFSETS MAY BE USED.

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: S.S. 04-2005; S.S. 01-2012	ENGINEERING DIVISION CITY OF POMPANO BEACH	TYPICAL CONFLICT (WATER)	DATE: MAY 2022 DWG. NO. 108-1
	SCALE: N.T.S.		



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

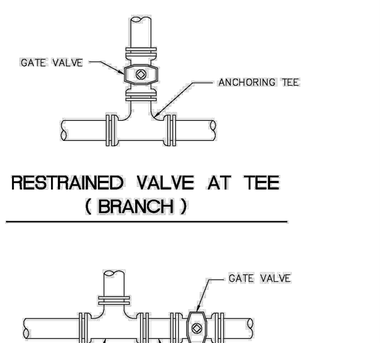
HYDRANTS INSTALLED ON EXISTING WATER MAINS MUST USE A MUELLER MJ DI TAPPING SLEEVE, H-615 OR APPROVED EQUAL.

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

ALL POMPANO BEACH HYDRANTS SHALL BE PAINTED RED.

TYPICAL FIRE HYDRANT ASSEMBLY

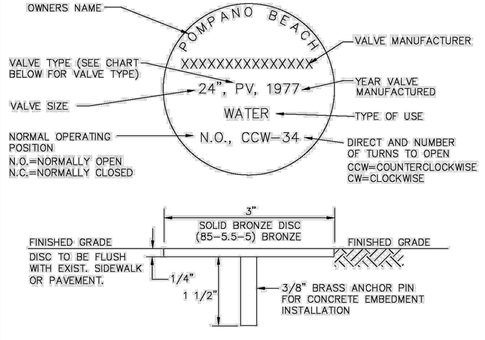
ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE: T.W. 11-2007; T.W. 10-2010; S.S. 2-2012; S.S. 11-2012	ENGINEERING DIVISION CITY OF POMPANO BEACH	FIRE HYDRANT ASSEMBLY	DATE: MAY 2022 DWG. NO. 109-1
	SCALE: N.T.S.		



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



VALVE TYPES

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

No.	REVISIONS	DATE	BY

Kimley»Horn

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8201 PETERS ROAD, SUITE 2200, PLANTATION, FL 33324
PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM REGISTRY No. 35106

GIOVANNI VALERON POMPEE — LICENSE — No 97495 — STATE OF FLORIDA — PROFESSIONAL ENGINEER
DATE:11/21/2025

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KHA PROJECT 043175014	DATE 11/6/2025	SCALE AS SHOWN	DESIGNED BY GVF	DRAWN BY EA	CHECKED BY GVF

WATER & SEWER DETAILS

MODERA POMPANO BEACH

PREPARED FOR
MCRT INVESTMENTS LLC
FLORIDA
POMPANO BEACH

SHEET NUMBER
C-402

Plotted By:Fernandez, Giovanni Sheet Set:MILLCREEK-POMPANO Layout:C-402 WATER & SEWER DETAILS November 21, 2025 04:05:34pm K:\FTL_Civil\043 jobs\043175014 Mill Creek Pompano\Design\CADD\PlanSheets\C-UTIL-DETL.dwg
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