

REVISIONS

NO.	DESCRIPTION	DATE
1	DRC APPLICATION	06/11/2024
2	DRC APPLICATION REV 1	11/13/2024

RESPONSIBILITY FOR THE USE OF THESE PLANS PRIOR TO OBTAINING PERMITS FROM ALL AGENCIES HAVING JURISDICTION OVER THE PROJECT WILL FALL SOLELY UPON THE USER.

ISSUE DATE: 11/13/2024

DESIGNED BY: NW

DRAWN BY: FA

CHECKED BY: NW

BID-CONTRACT:

This item has been digitally signed and sealed by
NILES T. WARRICK, P.E.
on the date adjacent to the seal.

Printed copies of this document are not considered signed and sealed on the date adjacent to the seal.

2024.11.12 13:52:27-05'00'

NILES T. WARRICK, P.E.
FLORIDA REG. NO. 94320
(FOR THE FIRM)

CLIENT

DUET PROPERTY
DEVELOPMENT, LLC

PROJECT

NORTH OCEAN PARK
3424 NE 16th STREET
POMPAÑO BEACH
FL, 33062

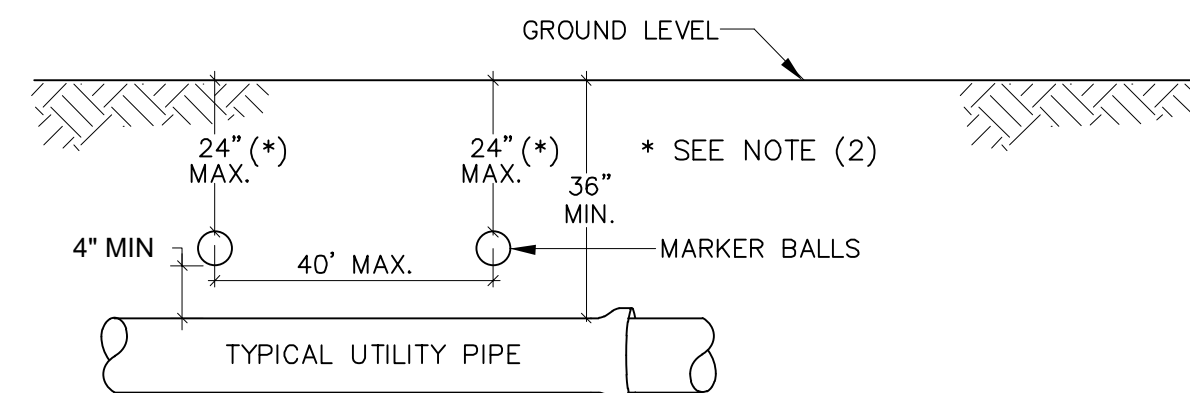
SHEET TITLE

WATER AND SEWER
DETAILS

SHEET NUMBER CU-501

PROJECT NUMBER 09520.05

STATUS: PRELIMINARY



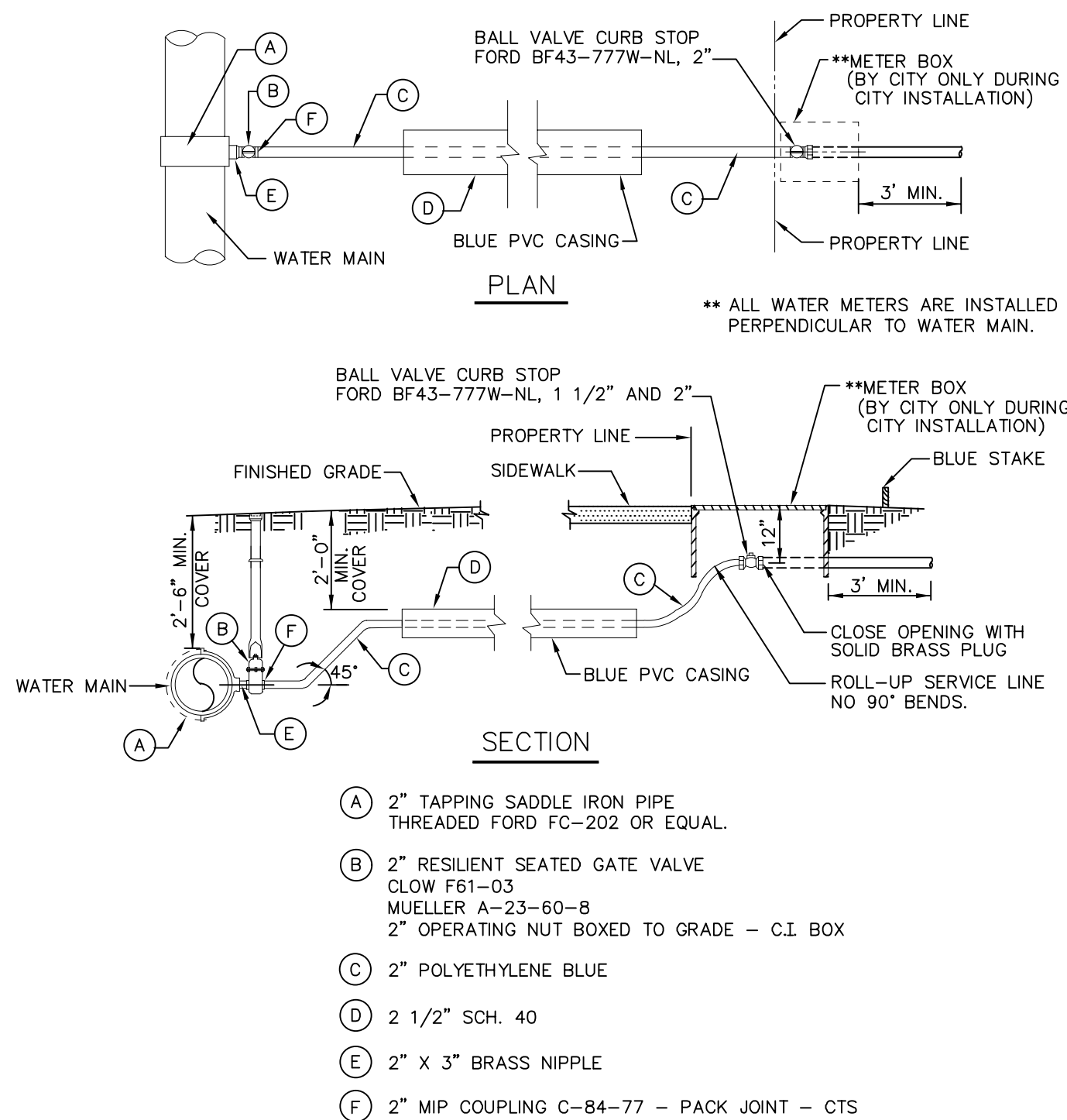
GENERAL NOTES:

1. ALL UTILITY PIPE SHALL BE INSTALLED WITH 4"Ø MARKING BALLS PLACED EVERY 40' AND AT EVERY FITTING, FOR IDENTIFICATION AND WARNING PURPOSES, BURIED ABOVE THE PIPE AT A MAXIMUM DEPTH OF 24 INCHES OR AS APPROVED BY THE OWNER. IT SHALL BE COLOR CODED AND WORDED AS FOLLOWS:

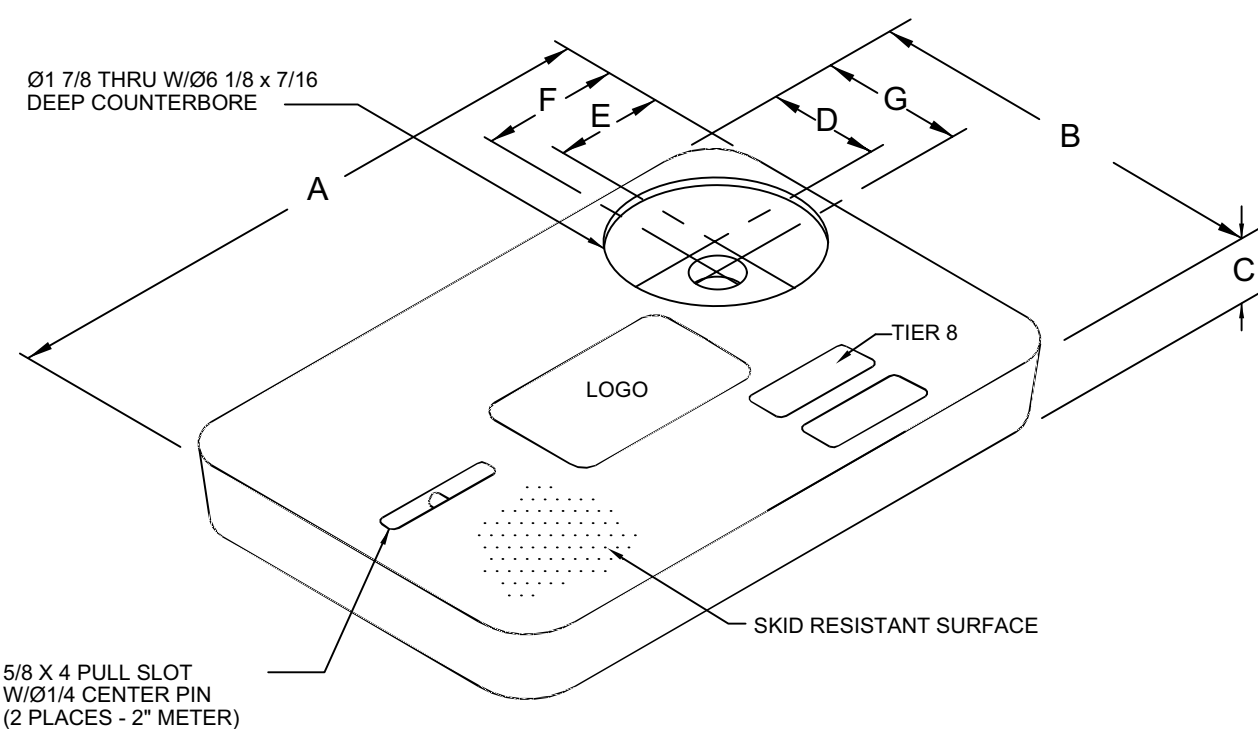
- POTABLE WATER.
A. COLOR: BLUE PER 62-555.320(21)(b)(3) F.A.C.
B. LETTERING: WATER
C. FREQUENCY OF MARKER BALLS SHALL BE 145.7 Khz.
D. THE MARKER BALLS CAN BE BURIED IN ANY ORIENTATION.

- THE MARKER BALLS SHALL BE DETECTABLE BY STANDARD METAL DETECTION EQUIPMENT AND SHALL BE MANUFACTURED BY TEMPO OR 3M LOCATOR SYSTEM OR EQUIVALENT (FREQUENCY 145.7 Khz)
2. FOR LARGE DIAMETER PIPE INSTALLED AT DEPTHS BELOW 4'-0" MARKER BALLS SHALL BE PLACED AT A MAXIMUM DEPTH OF 4'-0" BELOW GRADE *.

WATER PIPE IDENTIFICATION



TYPICAL 1 1/2" AND 2" WATER SERVICE

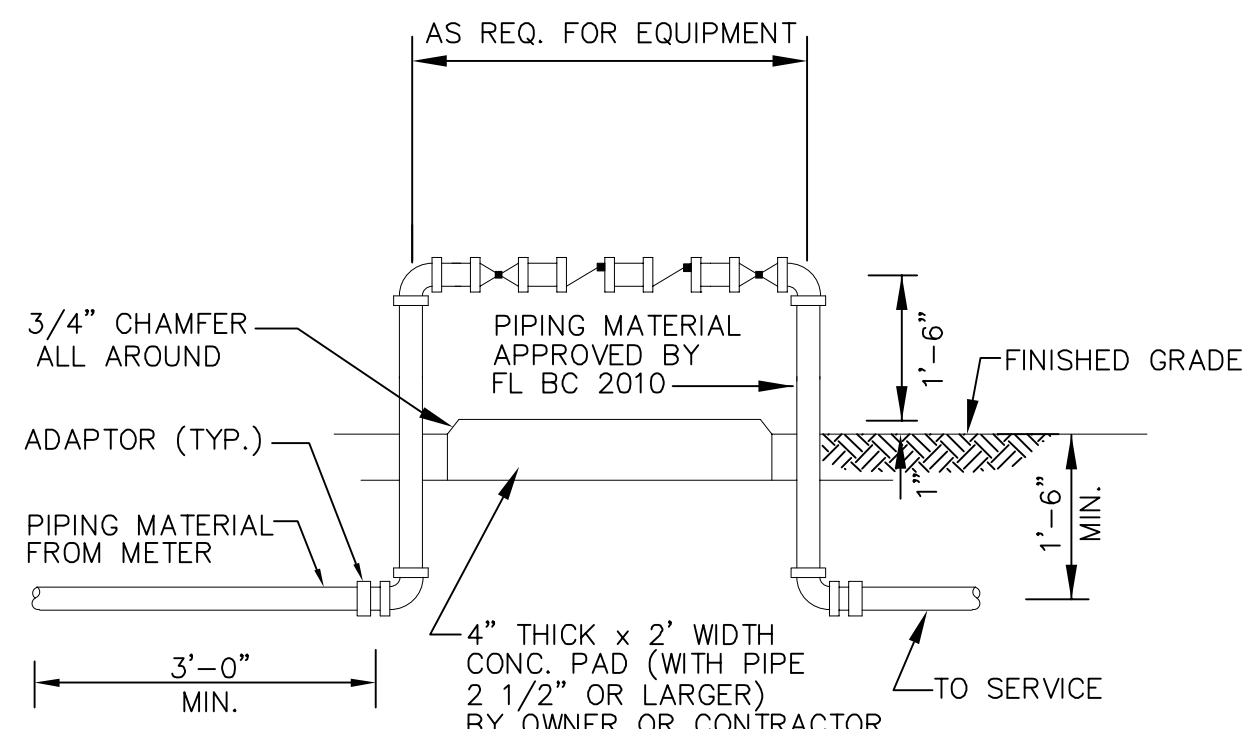


METER BOX COVER DIMENSIONS (IN)							
METER SIZE	A	B	C	D	E	F	G
1"	18 1/8"	11 1/4"	1 3/4"	3 3/4"	4"	4 9/16"	4 5/16"
1 1/2"	23 1/4"	13 3/4"	2"	4"	4"	4 9/16"	4 9/16"
2"	30 1/2"	17 1/2"	2"	4"	4"	4 9/16"	4 9/16"

NOTES

1. CUSTOMER IS CITY OF POMPAÑO BEACH FLORIDA. LOGO TO BE SPECIFIED: CITY OF POMPAÑO BEACH POTABLE WATER
2. FITS NEPTUNE R450 ANTENNA
3. THIS COVER IS RATED FOR A STATIC DESIGN LOAD OF 8,000 LBS. (35,548 N) OVER A 10 (254) X 10 (254) AREA AND MUST PASS A MINIMUM STATIC TEST LOAD OF 12,000 LBS (53,376 N).
4. METER BOX COVER SHOULD BE RATED FOR TRAFFIC CONDITION AS DETERMINED BY ENGINEER OF RECORD.

POTABLE WATER METER BOX COVER



BACKFLOW PREVENTER

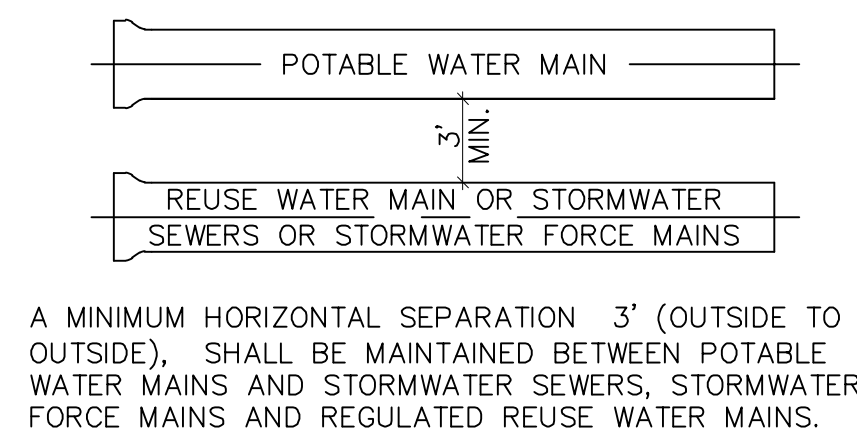
USE MEGALUGS AT ALL PIPE JOINTS 3" AND LARGER
PLEASE SEE METER INSTALL. DIMENSION LIST ON STANDARD NO. 106-4
SMALL UNITS UNI-STRUT SUPPORT

ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	
	S.S.	11-2012	
ENGINEERING DIVISION CITY OF POMPAÑO BEACH			
TYPICAL METER BOX COVER			
SCALE: N.T.S.			DATE: JAN. 2022 DWG. NO. 105-3

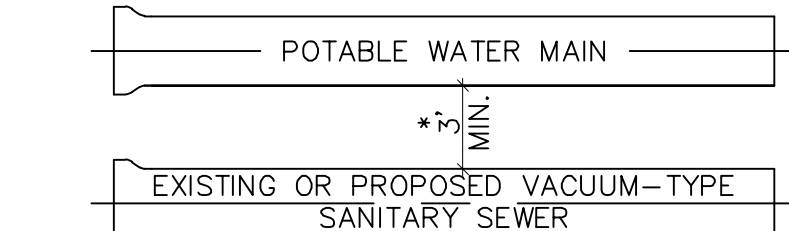
ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	
	T.W.	04-2008	
	S.S.	03-2009	
	S.S.	11-2012	
	S.S.	01-2013	
ENGINEERING DIVISION CITY OF POMPAÑO BEACH			
BACKFLOW PREVENTER			
SCALE: N.T.S.			DATE: MAY 2022 DWG. NO. 106-1

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

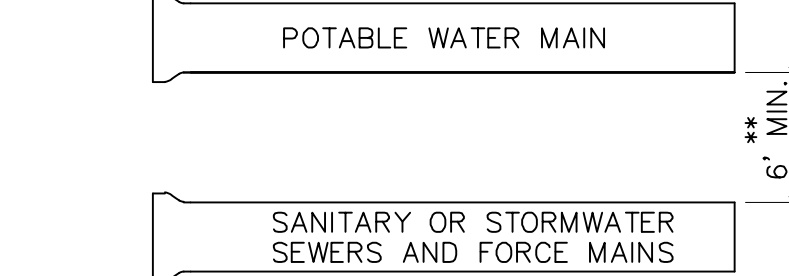
ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	
	S.S.	01/12	
	S.S.	06/16	
ENGINEERING DIVISION CITY OF POMPAÑO BEACH			
WATER PIPE IDENTIFICATION			
SCALE: N.T.S.			DATE: JAN. 2022 DWG. NO. 119-1



A MINIMUM HORIZONTAL SEPARATION 3' (OUTSIDE TO OUTSIDE), SHALL BE MAINTAINED BETWEEN POTABLE WATER MAINS AND STORMWATER SEWERS, STORMWATER FORCE MAINS AND REGULATED REUSE WATER MAINS.



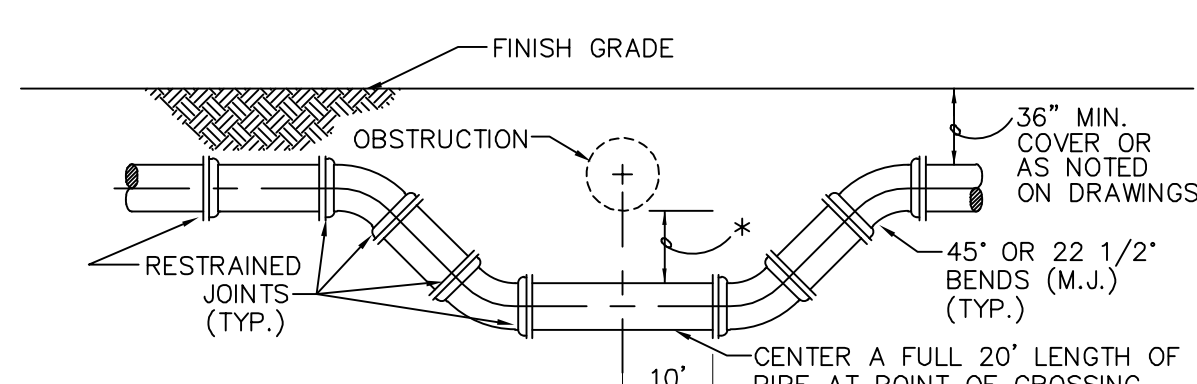
A MINIMUM HORIZONTAL SEPARATION 3' (OUTSIDE TO OUTSIDE), SHALL BE MAINTAINED BETWEEN EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER. * SEE NOTE D(1)(B).



A MINIMUM HORIZONTAL SEPARATION OF 6' (OUTSIDE TO OUTSIDE), SHALL BE MAINTAINED BETWEEN POTABLE WATER MAINS AND EXISTING OR PROPOSED GRAVITY-OR PRESSURE TYPE SANITARY SEWER, WASTEWATER FORCE MAIN OR NOT REGULATED REUSE WATER MAIN. ** SEE NOTE D(1)(C).

MINIMUM HORIZONTAL SEPARATION
REQUIREMENTS FOR POTABLE WATER,
REUSE, STORMWATER AND SEWER LINES

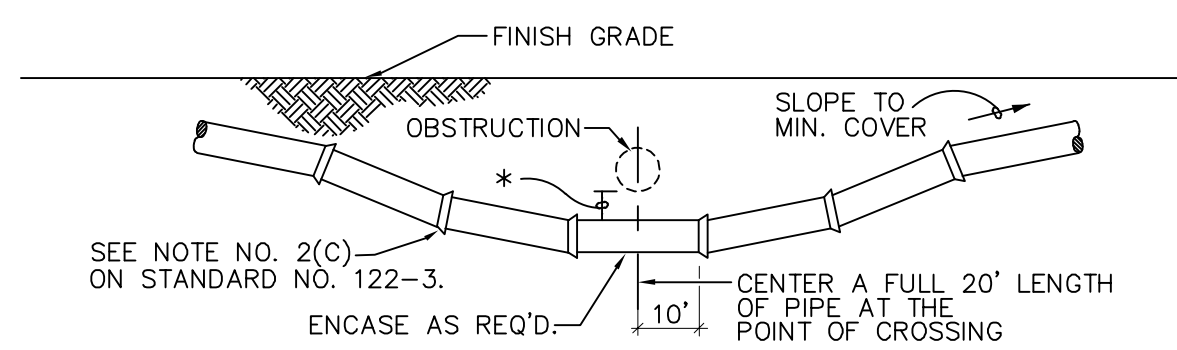
ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	
	S.S.	01/12	
ENGINEERING DIVISION CITY OF POMPAÑO BEACH			
MIN. HORIZONTAL SEPARATION FOR POTABLE WATER			
SCALE: N.T.S.			DATE: JAN. 2022 DWG. NO. 121-1



SPECIAL UTILITY CROSSING - FITTING TYPE

* 12" MINIMUM CLEARANCE REQUIRED FOR PRESSURE TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN OR REUSE WATER MAIN CROSSINGS. IF MINIMUM CLEARANCE CANNOT BE OBTAINED, REFER TO "PROTECTION OF POTABLE WATER SUPPLY" FOR WATER MAIN CROSSINGS. SEE NOTE 2(B), ON STANDARD NO. 122-3

6" MINIMUM CLEARANCE REQUIRED FOR WATER AND STORMWATER, SEWER MAIN CROSSINGS. SEE NOTE 2(A), ON STANDARD NO. 122-3.



STANDARD UTILITY CROSSING - DEFLECTION TYPE

NOTES:

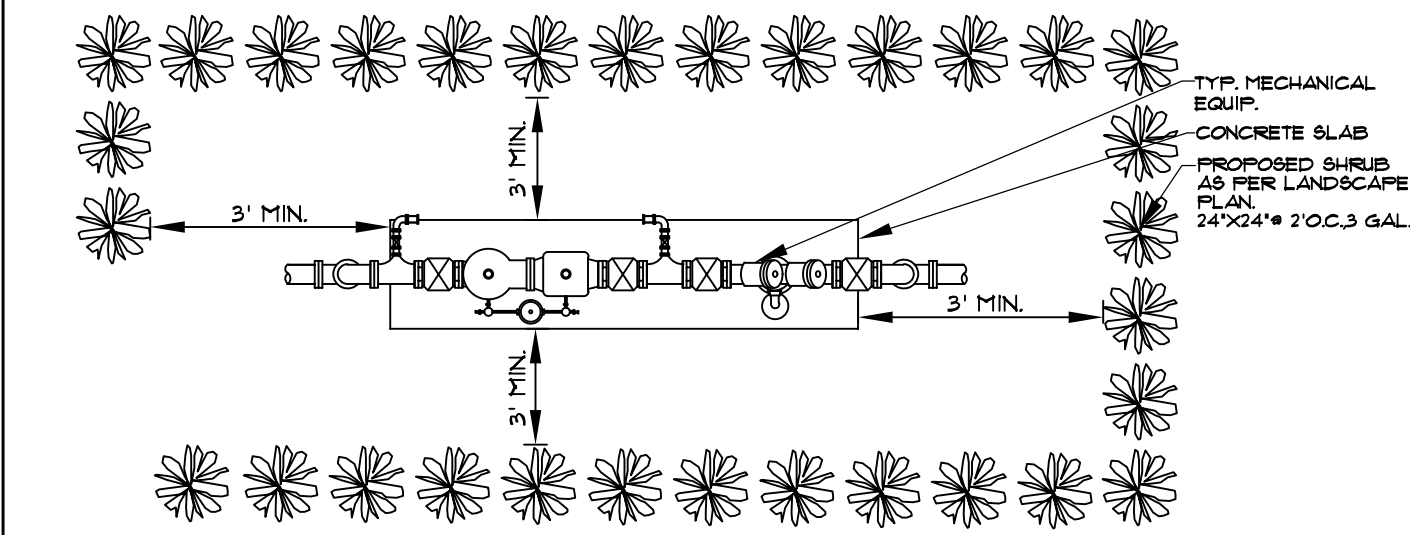
1. THE DEFLECTION TYPE CROSSING SHALL BE USED WHEREVER POSSIBLE. ONLY UNDER SPECIFIC ORDERS BY THE ENGINEER SHALL THE FITTING TYPE CROSSING BE ALLOWED.
2. CONSTRUCT STANDARD CROSSING USING NO MORE THAN 75% OF MANUFACTURERS' MAXIMUM JOINT DEFLECTION.
3. FOR POTABLE WATER MAINS, REFER TO "PROTECTION OF POTABLE WATER SUPPLY".

UTILITY CROSSINGS

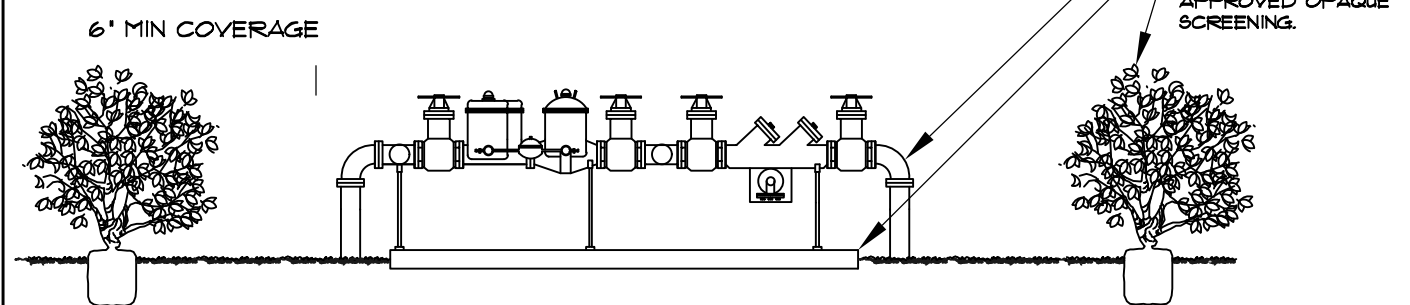
ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	
	S.S.	01/12	
ENGINEERING DIVISION CITY OF POMPAÑO BEACH			
UTILITY CROSSINGS			
SCALE: N.T.S.			DATE: JAN. 2022 DWG. NO. 122-1

PROTECTION OF POTABLE WATER SUPPLY NOTES

- A. GENERAL
IN ADDITION TO THESE REQUIREMENTS, ALL POTABLE WATER MAINS CONSTRUCTED IN THE VICINITY OF STORM SEWERS, SANITARY SEWERS OR FORCE MAINS SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF FLORIDA ADMINISTRATIVE CODE CHAPTER 62-555, GREAT LAKES-UPPER MISSISSIPPI RIVER BOARD OF STATE SANITARY ENGINEERS (GLUMRB) "RECOMMENDED STANDARDS FOR WATER WORKS", AND GLUMRB "RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES".
- B. DEFINITIONS
FOR THE PURPOSES OF THIS SPECIFICATION, THE WORDS "OTHER PIPE" OR "OTHER PIPES" SHALL MEAN SANITARY SEWER MAIN, SEWAGE FORCE MAIN, STORMWATER MAIN OR ANY COMBINATION THEREOF.
- C. CROSS CONNECTIONS PROHIBITED
THERE SHALL BE NO PHYSICAL CONNECTIONS BETWEEN A PUBLIC OR PRIVATE POTABLE WATER SUPPLY SYSTEM AND ANY OTHER PIPE OR APPURTENANCE THERE TO WHICH WOULD PERMIT THE PASSAGE OF ANY WASTEWATER, POLLUTED WATER, OR ANY OTHER WATER INTO THE POTABLE SUPPLY. NO WATER PIPE SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF A SANITARY SEWER MANHOLE OR STORMWATER MANHOLE.
- D. RELATION OF OTHER PIPES TO POTABLE WATER MAINS
1. HORIZONTAL SEPARATION
- A. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORMWATER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING REUSE WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610 F.A.C.
- B. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.
- C. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING REUSE WATER NOT REGULATED UNDER CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY TYPE SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.



PLAN



ELEVATION

TYPICAL SCREEN FOR UTILITIES

NOTES

PLEASE NOTE THAT AS PER CITY ORDINANCE(S) 50.02(A) (4) AND 100.35(E), STREET TREES SHALL NOT BE PLACED ON TOP OF OR 5' OF EITHER SIDE OF ANY CITY OWNED UTILITY INFRASTRUCTURE. ALSO, PLEASE NOTE THAT NO TREES SHRUBBERY OR OBSTRUCTION SHALL BE PLACED WITHIN A 3' RADIUS OF A CITY OWNED LATERAL CLEANOUT OR WATER & OR REUSE METER.

ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	
	S.S.	01/12	
ENGINEERING DIVISION CITY OF POMPAÑO BEACH			
POTABLE WATER SUPPLY NOTES			
SCALE: N.T.S.			DATE: JAN. 2022 DWG. NO. 122-2

ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	
	TCW	APRIL 2010	
ENGINEERING DIVISION CITY OF POMPAÑO BEACH			
TYPICAL SCREEN FOR UTILITIES			
APPROVED BY:			DATE: MAY 2022 DWG. NO. 315-1