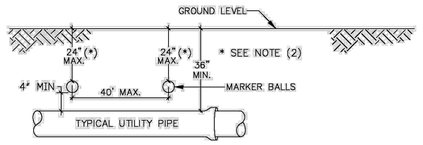


GENERAL NOTES:

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:

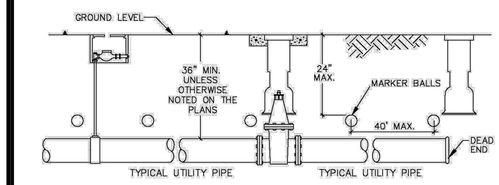
   POTABLE WATER.
   A. COLOR: BLUE PER 62-555.320(21)(b)(3) F.A.C.
   B. LETTERING: WATER
   C. FREQUENCY OF MARKER BALLS SHALL BE 145.7 Khz.
   D. THE MARKER BALLS CAN BE BURIED IN ANY ORIENTATION.

   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

ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE: S.S. 01/12; S.S. 06/16	ENGINEERING DIVISION CITY OF POMPANO BEACH	WATER PIPE IDENTIFICATION	DATE: JAN. 2022 DWG. NO. 119-1
	SCALE: N.T.S.		

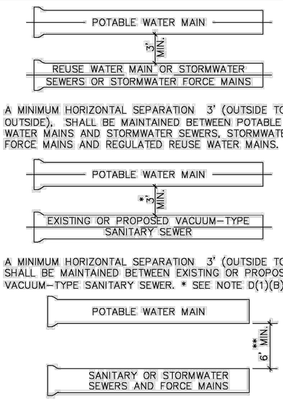


GENERAL NOTES:

1. ALL NONMETALLIC PIPE SHALL BE INSTALLED WITH 12 THHN SOLID COPPER TRACING WIRE.
2. THE MARKER BALLS MUST BE INSTALLED DIRECTLY ABOVE THE PIPE.
3. MARKER BALLS SHALL BE INSTALLED AT 40' O.C.
4. BALL COLOR CODING:
   POTABLE WATER SYSTEM: BLUE PER 62-555.320(21)(b)(3) F.A.C.

UTILITY PIPE AND MARKER BALLS LOCATION

ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE: S.S. 01/12; S.S. 06/16	ENGINEERING DIVISION CITY OF POMPANO BEACH	UTILITY PIPE AND MARKER BALLS LOCATION	DATE: JAN. 2022 DWG. NO. 120-1
	SCALE: N.T.S.		



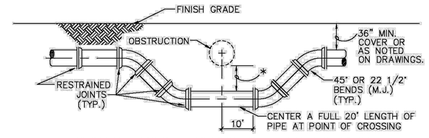
A MINIMUM HORIZONTAL SEPARATION 3' (OUTSIDE TO OUTSIDE), SHALL BE MAINTAINED BETWEEN POTABLE WATER MAINS AND STORMWATER SEWERS, STORMWATER FORCE MAINS AND REGULATED REUSE WATER MAINS.

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

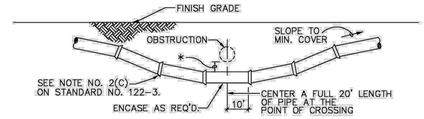
ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE: S.S. 01/12	ENGINEERING DIVISION CITY OF POMPANO BEACH	MIN. HORIZONTAL SEPARATION FOR POTABLE WATER	DATE: JAN. 2022 DWG. NO. 121-1
	SCALE: N.T.S.		



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.

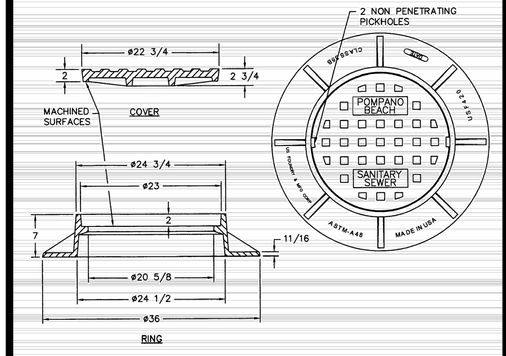


STANDARD UTILITY CROSSING - DEFLECTION TYPE

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".

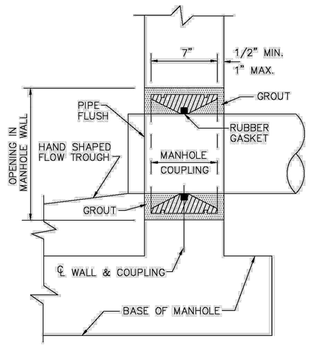
UTILITY CROSSINGS

ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE: S.S. 01/12	ENGINEERING DIVISION CITY OF POMPANO BEACH	UTILITY CROSSINGS	DATE: JAN. 2022 DWG. NO. 122-1
	SCALE: N.T.S.		



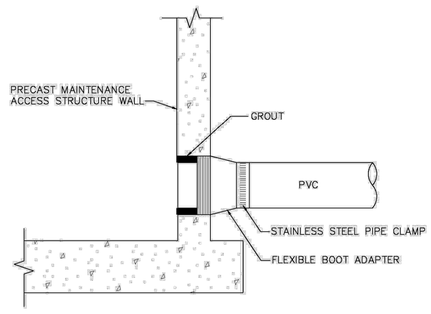
TRAFFIC RATED FRAME & COVER

ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	TRAFFIC RATED SEWER COVER	DATE: JUNE 2022 DWG. NO. 211-1
	SCALE: N.T.S.		



MANHOLE COUPLING

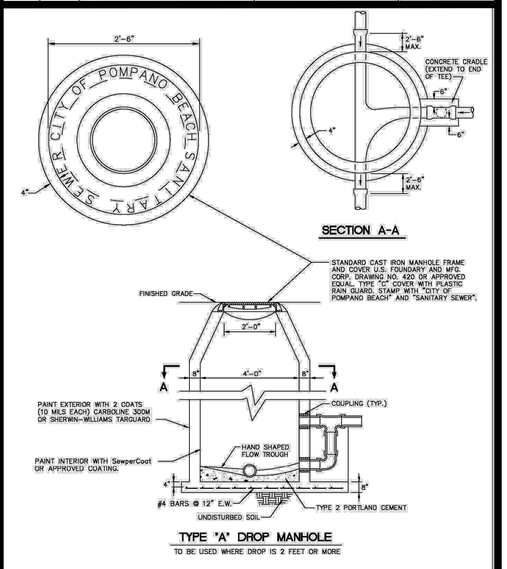
ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE: S.S. JUNE 2005	ENGINEERING DIVISION CITY OF POMPANO BEACH	MANHOLE COUPLING	DATE: JUNE 2022 DWG. NO. 212-1
	SCALE: N.T.S.		



STANDARD PRECAST MAINTENANCE ACCESS STRCTURE PIPE CONNECTION

NOTE:
C.O.P.B. MAY APPROVE ALTERNATE WATER TIGHT CONNECTION.

ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	MAINTENANCE ACCESS STRUCTURE	DATE: JUNE 2022 DWG. NO. 212-2
	SCALE: N.T.S.		



TYPE "A" DROP MANHOLE

TO BE USED WHERE DROP IS 2 FEET OR MORE

ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE: S.S. JUNE 2005; T.W. 11-2007; S.S. 12-2013; A.S. 09-2021	ENGINEERING DIVISION CITY OF POMPANO BEACH	TYPE "A" DROP MANHOLE	DATE: JUNE 2022 DWG. NO. 213-1
	SCALE: N.T.S.		

DRC
PZ25-0112000028
03/18/2026

Plotted: Feb 10, 2026 - 9:00:39am Xref Attachment Set:MILLCREEK POMPANO Layout:C-403 WATER & SEWER DETAILS February 10, 2026 09:00:39pm K:\fll_civil\043 jobs\043175014 mill creek pompano\Design\CADD\plansheets\C-UTIL-DETL.dwg
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No.	REVISIONS	DATE	BY

Kimley»Horn
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WWW.KIMLEY-HORN.COM REGISTRY No. 35106

COLEMAN VALDEZ No. 85495 STATE OF FLORIDA PROFESSIONAL ENGINEER
DATE:2/10/2026

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY COLEMAN VALDEZ ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

KHA PROJECT	043175014
DATE	12/1/2025
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-403