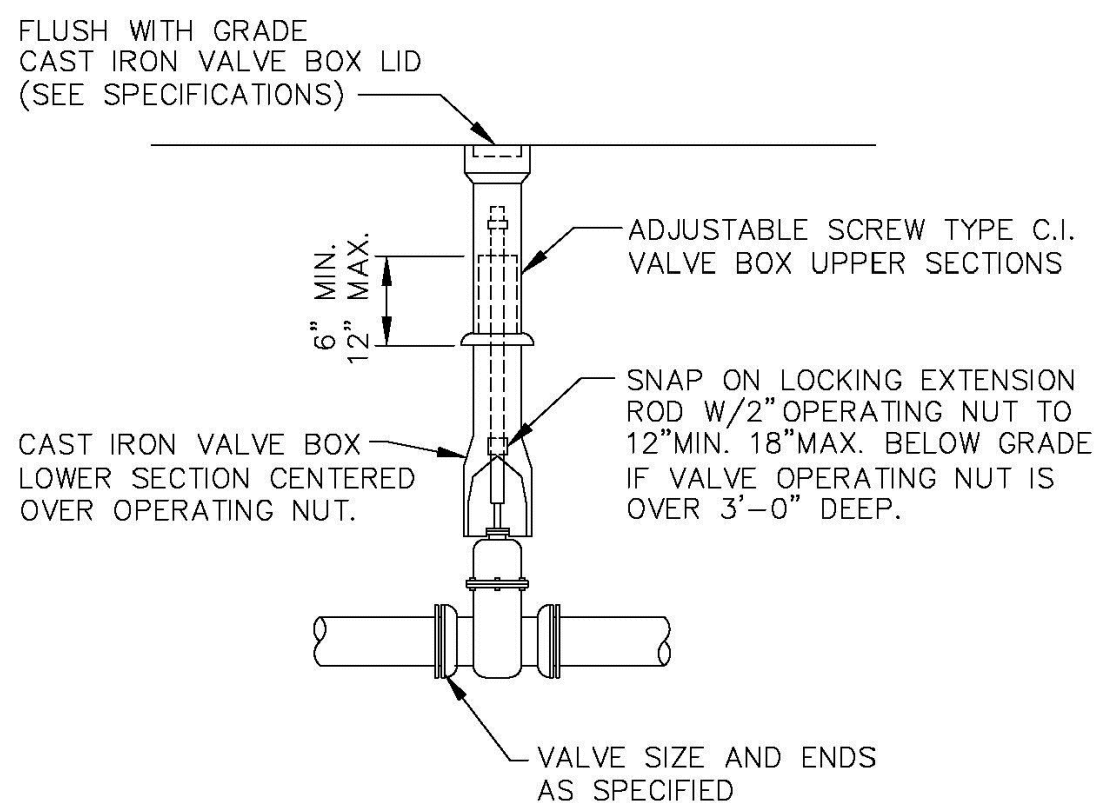


VALVE BOX SETTINGS

ENGINEERING STANDARDS 2025

REVISIONS		ENGINEERING DIVISION CITY OF POMPAÑO BEACH	VALVE BOX SETTINGS	DATE: MAY 2022 DWG. NO.
BY	DATE			
S.S.	04-2009			
		SCALE: N.T.S.		102-1



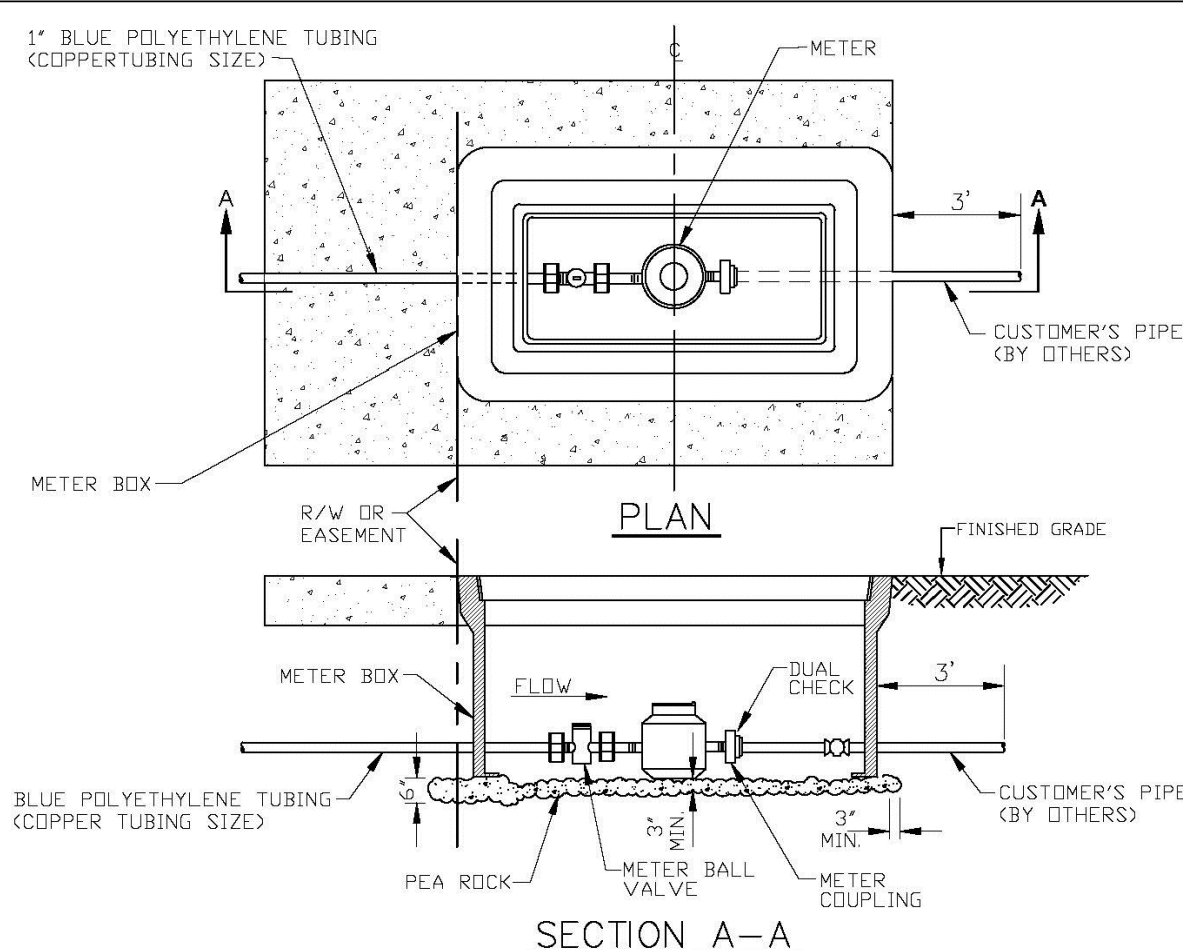
GATE OR PLUG VALVE SETTING

USE MEGALUGS AT ALL PIPE JOINTS

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

ENGINEERING STANDARDS 2025

REVISIONS		ENGINEERING DIVISION CITY OF POMPAÑO BEACH	GATE OR PLUG VALVE SETTINGS	DATE: MAY 2022 DWG. NO.
BY	DATE			
S.S.	04-2009			
T.W.	11-2007			
		SCALE: N.T.S.		103-1



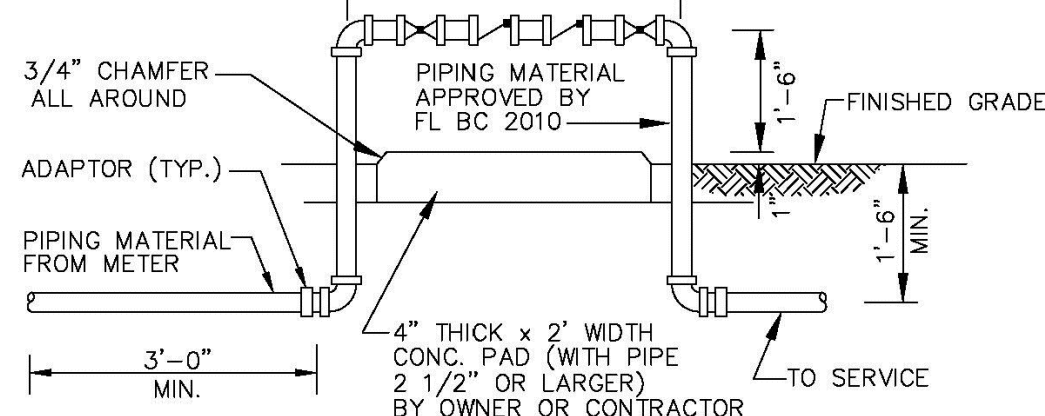
- NOTES:
1. ALL METERS WILL BE SUPPLIED AND INSTALLED BY CPB UTILITIES. METERS HAVE IRON PIPE THREAD MALE CONNECTION ON EACH END.
 2. METER SHALL BE CENTERED IN BOX.
 3. DUAL CHECK IS SAME SIZE AS CUSTOMER'S SERVICE LINE.

METER SIZE	LAYING LENGTH (FOOT)	HEIGHT (FOOT)
3/4"	7.5	4.56
1"	10.75	5.75

METER BOX INSTALLATION

ENGINEERING STANDARDS 2025

REVISIONS		ENGINEERING DIVISION CITY OF POMPAÑO BEACH	METER BOX INSTALLATION FOR 5/8" AND 1" METERS	DATE: JAN. 2022 DWG. NO.
BY	DATE			
S.S.	11-2012			
		SCALE: N.T.S.		105-2

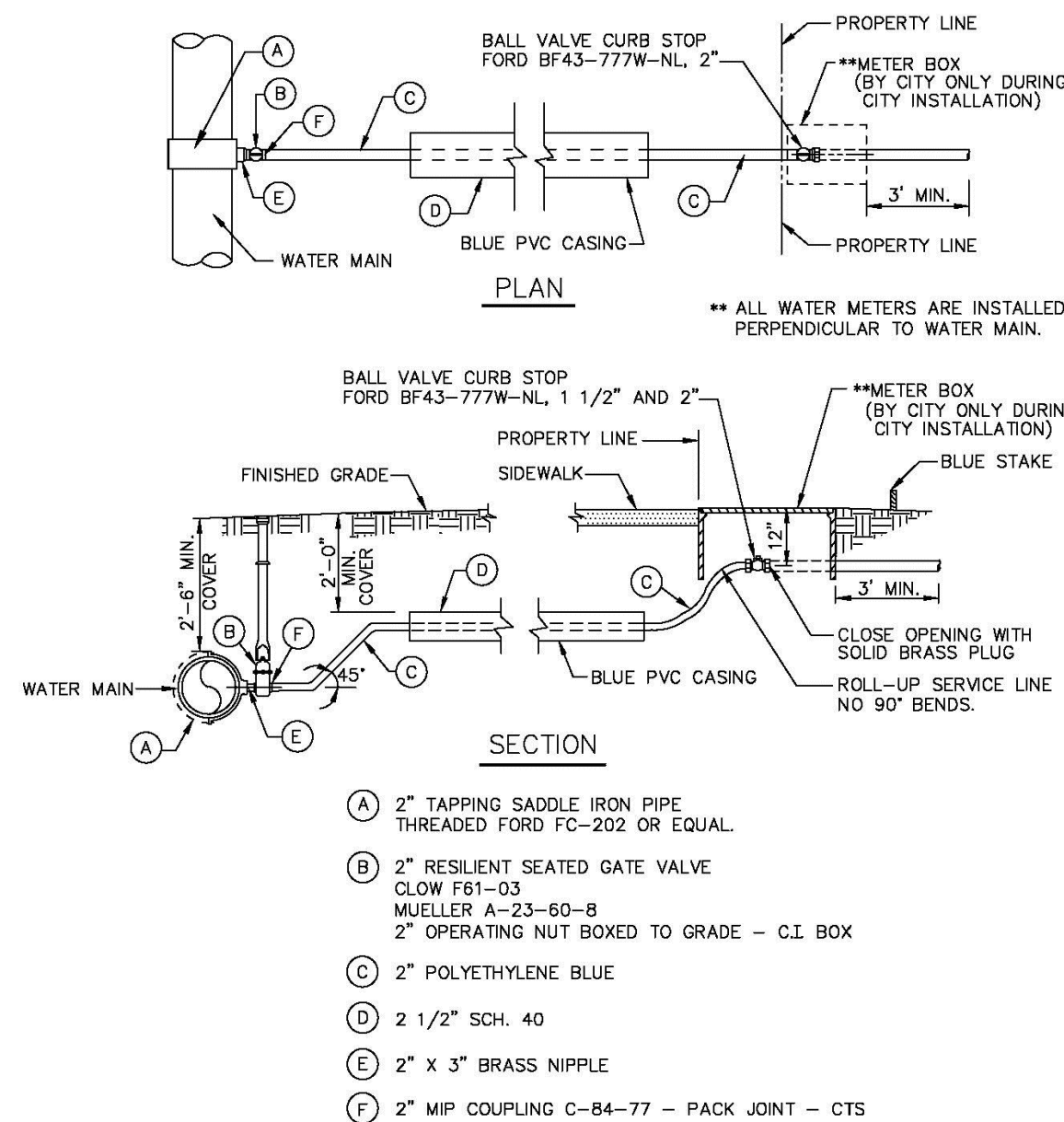


BACKFLOW PREVENTER

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 2025

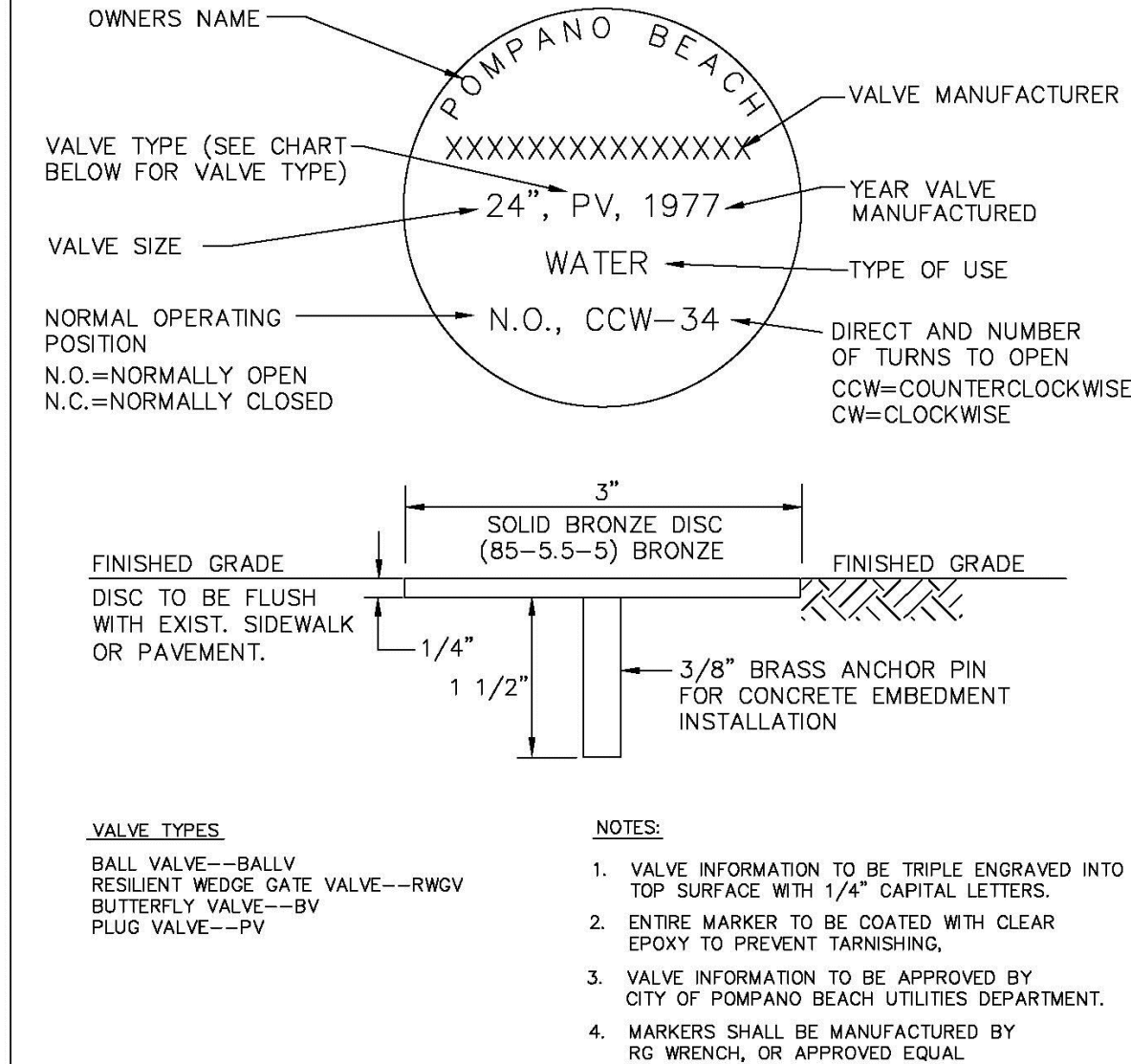
REVISIONS		ENGINEERING DIVISION CITY OF POMPAÑO BEACH	BACKFLOW PREVENTER	DATE: MAY 2022 DWG. NO.
BY	DATE			
S.S.	04-2008			
S.S.	03-2009			
S.S.	11-2012			
S.S.	01-2013			
		SCALE: N.T.S.		106-1



TYPICAL 1 1/2" AND 2" WATER SERVICE

ENGINEERING STANDARDS 2025

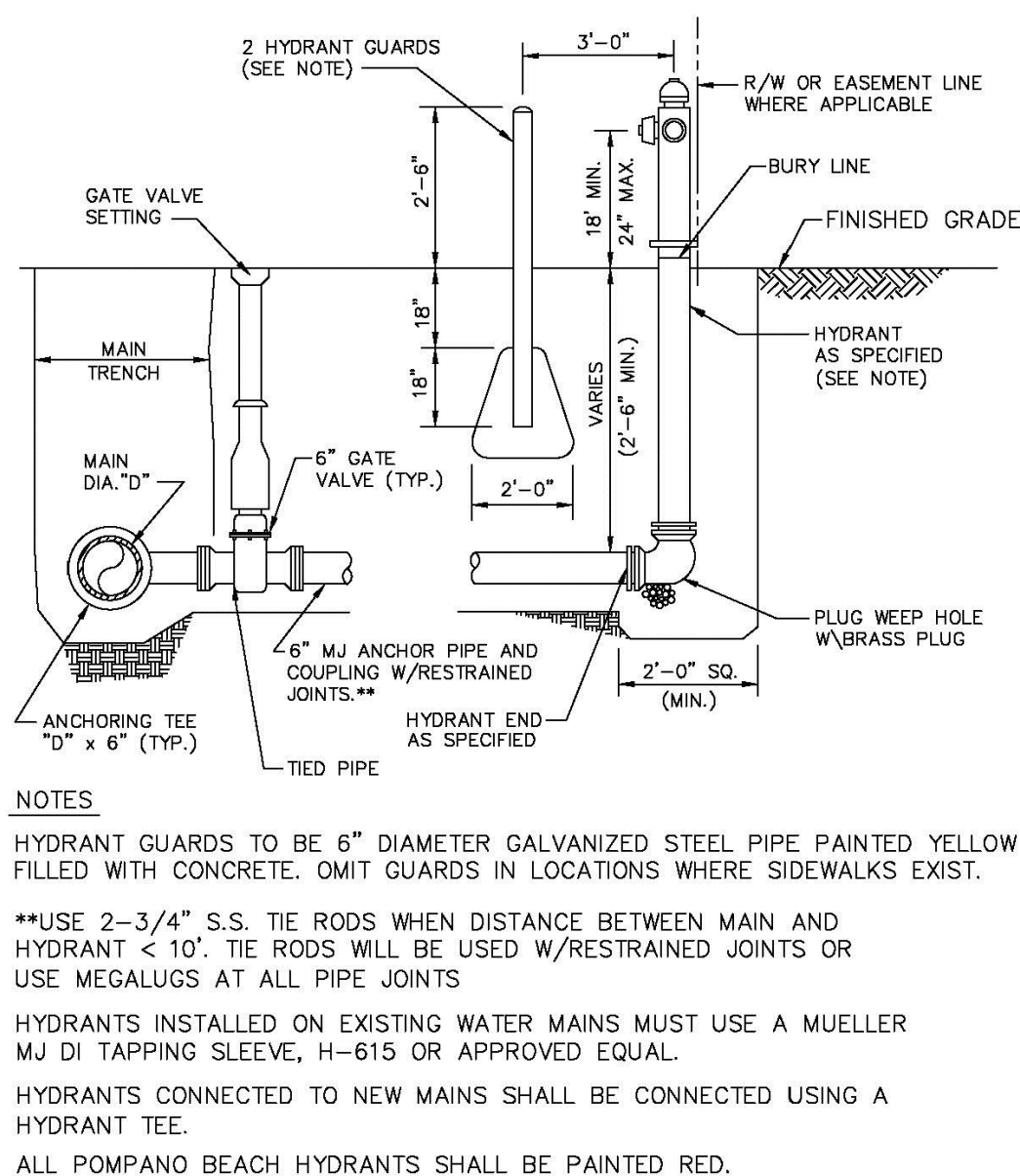
REVISIONS		ENGINEERING DIVISION CITY OF POMPAÑO BEACH	TYPICAL 2" WATER SERVICE	DATE: APRIL 2022 DWG. NO.
BY	DATE			
S.S.	05-2011			
S.S.	05-2012			
S.S.	11-2018			
A.S.	08-2021			
		SCALE: N.T.S.		107-2



UNDERGROUND VALVE IDENTIFICATION MARKER

ENGINEERING STANDARDS 2025

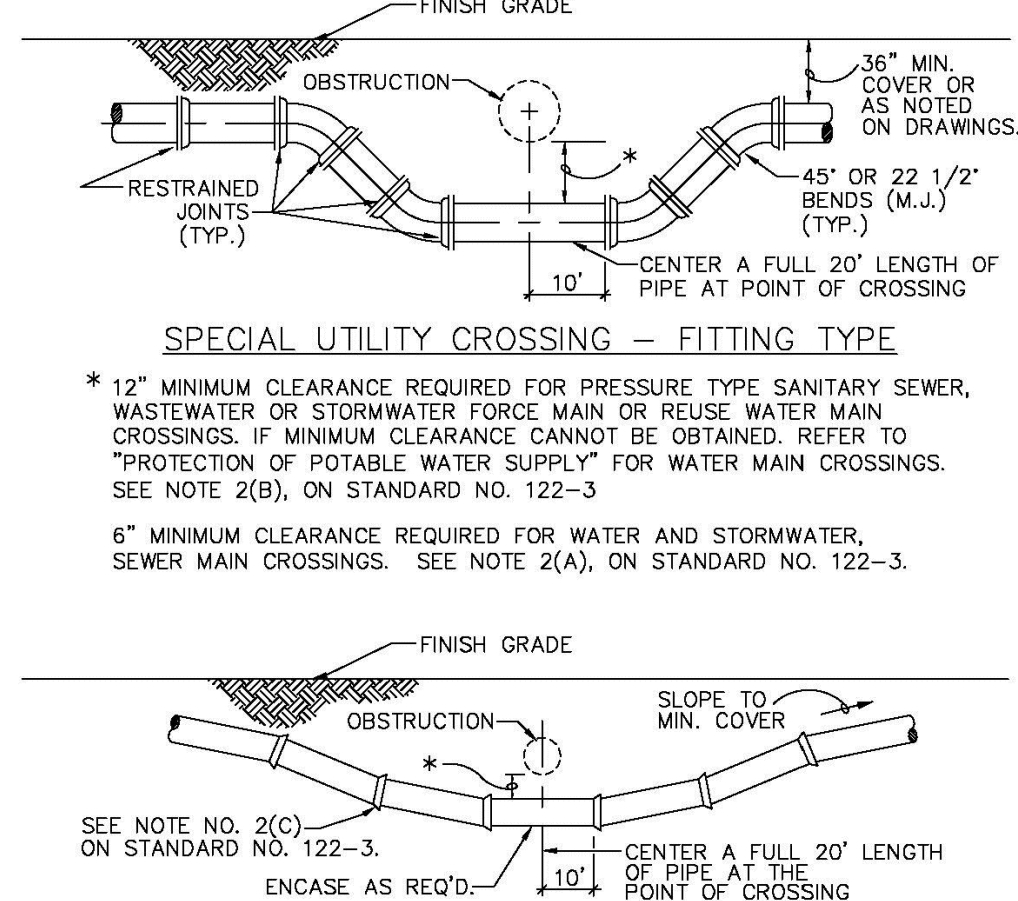
REVISIONS		ENGINEERING DIVISION CITY OF POMPAÑO BEACH	UNDERGROUND VALVE IDENTIFICATION MARKER	DATE: FEB. 2022 DWG. NO.
BY	DATE			
S.S.	JUNE 2009			
T.W.	11-2007			
T.W.	02-2008			
S.S.	1-24-12			
		SCALE: N.T.S.		115-1



TYPICAL FIRE HYDRANT ASSEMBLY

ENGINEERING STANDARDS 2025

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



UTILITY CROSSINGS

ENGINEERING STANDARDS 2025

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

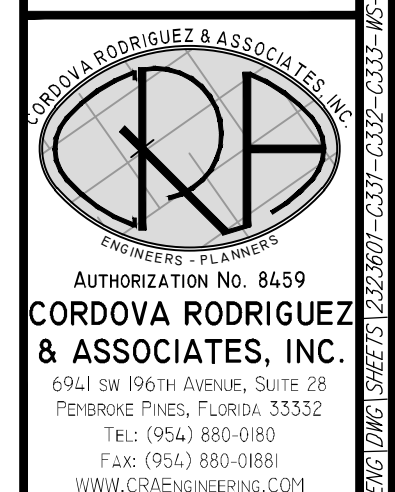
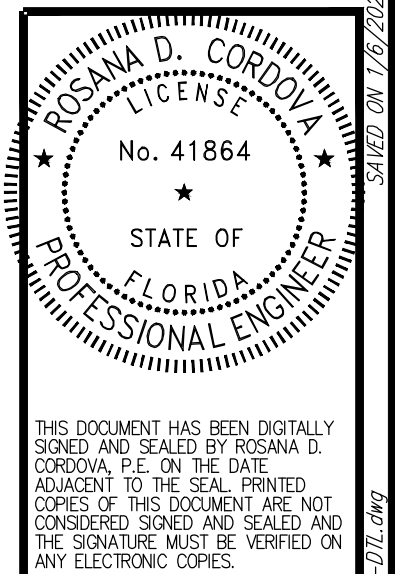
DRC

PZ21-12000052
02/19/2025

FOR REVIEW ONLY		NO.	REVISION	DATE
BY	DATE			

FIBERBUILT UMBRELLA

2201 WEST ATLANTIC BOULEVARD, POMPAÑO BEACH, FL, 33069
FOR: FIBERBUILT UMBRELLA



DESIGN: OG	CHECKED: RDC
SCALE: AS NOTED	
DATE: 07/30/2024	
PROJECT NO. 23.236-01	
SHT 09 OF 13	
DWG NO.	
C331	

WATER AND SEWER
DETAILS 01



REVISONS		ENGINEERING DIVISION CITY OF POMPANO BEACH	TRENCH BACKFILL / BEDDING	
BY	DATE			
			DATE: MAY 2022 DWG. NO. 504-1	
SCALE: N.T.S.				

1. OUTLINE OF TRENCH EXCAVATION IS TO BE ILLUSTRATIVE PURPOSES ONLY. ACTUAL TRENCH WIDTH AND SHAPE WILL VARY WITH SOIL CONDITIONS. TRENCH EXCAVATION SHALL BE IN ACCORDANCE WITH THE "FLORIDA TRENCH SAFETY ACT" AND OSHA TRENCH SAFETY STANDARDS.
2. TYPICAL TRENCH BACKFILL/BEDDING FOR REUSE WATER MAIN AND FORCE MAIN INSTALLATIONS SHALL BE CLASS "A" AS SHOWN IN DETAIL.
3. TYPICAL TRENCH BACKFILL/BEDDING FOR GRAVITY SEWER INSTALLATION SHALL BE CLASS "B" AS SHOWN IN DETAIL.
4. TRENCH BACKFILL/BEDDING CLASS "C" AND CLASS "D" SHALL BE USED FOR PIPE INSTALLATIONS WHERE UNSUITABLE TRENCH MATERIALS ARE ENCOUNTERED.
5. TRENCH ZONE BACKFILL SHALL BE MATERIAL TYPE 1 OR TYPES A THRU H, OR ANY MIXTURE THEREOF. WHERE SURFACE RESTORATION TYPE "1" IS APPLICABLE, TRENCH ZONE BACKFILL SHALL BE PLACED IN 12" LIFTS, IS COMPACTED TO 90% OF THE MATERIAL'S MAXIMUM DENSITY AS DETERMINED BY ASTM D-697 (AASHTO T-99). WHERE SURFACE RESTORATION TYPES "2", "3" AND "4" ARE APPLICABLE, TRENCH BACKFILL SHALL BE PLACED IN 8" LIFTS COMPACTED TO 98% OF THE MATERIAL'S DENSITY AS DETERMINED BY ASTM D-698 (AASHTO T-99).
6. BEDDING MATERIAL FOR TYPICAL REUSE WATER MAIN INSTALLATION SHALL BE TYPE C. BEDDING SHALL BE COMPACTED TO 95% OF THE MATERIAL'S MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557 (AASHTO T-180).
7. BEDDING MATERIAL FOR TYPICAL GRAVITY SEWER INSTALLATION AND ANY INSTALLATION WHERE UNSUITABLE TRENCH BOTTOM CONDITIONS ARE FOUND SHALL BE TYPE E. BEDDING SHALL BE PLACED IN LIFTS NOT TO EXCEED 6" AND COMPACTED TO 95% OF THE MATERIAL'S MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557 (AASHTO T-180).
8. UNSUITABLE MATERIAL SHALL BE REMOVED TO UNDISTURBED ROCK OR SAND TO DEPTH AS SPECIFIED BY ENGINEER. BACKFILL MATERIAL SHALL BE TYPE C. BACKFILL SHALL BE PLACED IN 8" LIFTS COMPACTED TO 95% OF THE MATERIAL'S MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557 (AASHTO T-180).

REVISONS		ENGINEERING DIVISION CITY OF POMPANO BEACH	TRENCH BACKFILL / BEDDING
BY	DATE		
SCALE: N.T.S.		DATE: MAY 2022	504-3
		DWG. NO.	

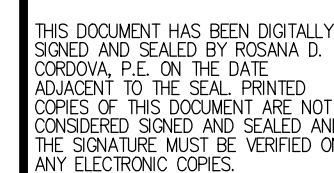
- | <u>SIEVE SIZE</u> | <u>PERCENTAGE PASSING</u> |
|-------------------|---------------------------|
| 2 INCH | 100 |
| 1-1/2 INCH | 90-100 |
| 1 INCH | 20-55 |
| 3/4 INCH | 0-15 |
| NO. 200 | 0-3 |

ENGINEERING STANDARDS 2025			
REVISIONS		ENGINEERING DIVISION CITY OF POMPANO BEACH	TRENCH BACKFILL / BEDDING
BY	DATE		
		SCALE: N.T.S.	DATE: MAY 2022 DWG. NO. 504-4

FOR REVIEW ONLY

FIBERBUILT UMBRELLA

22201 WEST ATLANTIC BOULEVARD, POMPANO BEACH, FL, 33069
FOR: FIBERBUILT UMBRELLA



6941 SW 196TH AVENUE, SUITE 28
PEMBROKE PINES, FLORIDA 33332
TEL: (954) 880-0180
FAX: (954) 880-0188
WWW.CRAENGINEERING.COM

DESIGN: OG	CHECKED: RDO
------------	--------------

SCALE:
AS NOTED

DATE: 07/30/2024

PROJECT NO.
23.236-01

SHT 11 OF 13
DWG NO

C333

NO.	PLOTTED ON 01/06/2025 4:23:55 PM
-----	----------------------------------

333