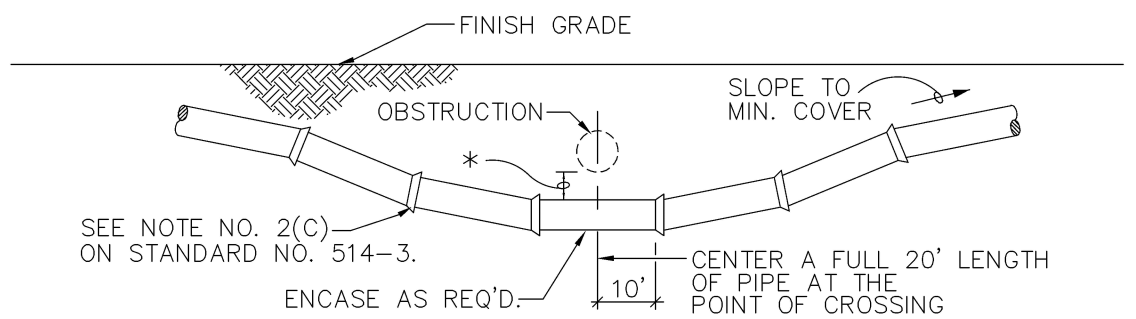


SPECIAL UTILITY CROSSING - FITTING TYPE

* 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. 514-3

6" MINIMUM CLEARANCE REQUIRED FOR WATER AND STORMWATER, SEWER MAIN CROSSINGS. SEE NOTE 2(A), ON STANDARD NO. 514-3



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		ENGINEERING DIVISION CITY OF POMPAÑO BEACH	UTILITY CROSSINGS	
BY	DATE		DATE: MAY 2022 DWG. NO.	514-1
S.S.	1/19/12			
		SCALE: N.T.S.		

APPROVED PRODUCT LIST

Valve Boxes Valve boxes shall either be a **Tyler** or **Turnbull** riser specified or an **& Risers:** Approved equal which shall meet the following standards:

- The gap between the cover/lid and the ring that is visible when installed must be no greater than 0.11 inches.
- The wall thickness of the ring that encircles the cover/lid shall have a wall thickness of no less than 0.65 inches.
- The valve box top shall weigh no less than 22 pounds.
- The valve box bottom shall weigh no less than 27 pounds.
- The valve box lid shall weigh no less than 11 pounds.
- The 1" riser shall weight 6 pounds, 2" 9.5 pound, 3" 14 pounds and 4" 20 pounds.
- The valve box lid shall be a non - locking design with two indentations to allow for easy removal.
- The brand of valve box bid shall have an option **extensikit**. The weight of the extension kits shall be +/- 29 lbs for 14 inches, +/- 30 lbs for 18 inches and +/- 37 lbs for 24 inches.
- Recognizing that some manufacturers may make conforming and non-conforming boxes, or risers vendors bidding such a manufacturer are advised to avoid shipping the incorrect part. The City reserves the right to return **at any time** any box delivered that is non-conforming. If the non-conforming box was installed, the vendor will be responsible for the cost of removal and installation of the conforming box. Depending on the severity and frequency of this type of oversight bidders may be restricted from future bids.

ENGINEERING STANDARDS 2022

REVISIONS		ENGINEERING DIVISION CITY OF POMPAÑO BEACH	APPROVED PRODUCT LIST	
BY	DATE		DATE: SEP 2022 DWG. NO.	520-1
		SCALE: N.T.S.		

DIP Fittings: **Mega lugs** and their accessory kits shall be as manufactured by **EBAA Iron, Inc.** or an approved equal which shall meet the following Standards:

- Each gland shall include one mechanical restraining gland as manufactured by EBAA Iron, Inc, Series 1100, or equal, sacrificial zinc anode hex head caps of one - half of the number of T - head bolts in each gland pack, one rubber gasket and the proper number of T - head bolts and nuts for the mechanical joint sizes shown on the order.
- For sizes 4 to 12 inches, package all gland materials to make one joint and mark each package to specify its weight and contents.
- Each gland shall be clearly marked with a "batch serial number". The "batch serial number" will allow the utility to identify the date of manufacture, plant and identify what ladle of metal was used to cast the gland. The vendor must be able to provide metallurgical reports for any specific gland based on the "batch serial number" that must be cast into the gland. The "batch serial number" must not be encoded and easily converted using common methods, such as the Julian Day.
- Each restraining gland shall have the following weights and have no less than the number wedges listed below. All wedges will be "auto - torquing" or designed such that the nut on the actuating bolt will separate at the manufacturers intended torque for to properly set the wedge. After being set, the actuating bolts will have a smaller remaining head that will allow for the disassembly of the joint.

Size	Minimum Weight	Number of Wedges	¾" Bolt Length
4	7	2	4
6	12	3	4
8	16	3	4.5
10	24	6	4.5
12	33	8	4.5

- The restraining gland shall be properly prepared and coated with a TGIC polyester - based coating. The gripping wedges and actuating bolts shall be properly prepared and coated with a Xylan Flourpolymer coating.

ENGINEERING STANDARDS 2022

REVISIONS		ENGINEERING DIVISION CITY OF POMPAÑO BEACH	APPROVED PRODUCT LIST	
BY	DATE		DATE: SEP 2022 DWG. NO.	520-2
		SCALE: N.T.S.		

Offsets, Couplings etcetera shall be as manufactured by **Tyler Products** Or an approved equal which shall meet the following standards:

The equivalent to the ELLS, 45, offsets, couplings, etcetra that are called for in various bids shall be the Tyler Product line. Equivalents shall have the same dimensions, bolt counts and certifications as the Tyler product line.

Flange Adapters shall be as manufactured by UniFlang or EZ Flange or An approved equal whish shall meet the following standards:

- Each fitting shall be clearly marked with a "batch serial number. The "batch serial number" will allow the utility to identify the date of manufacture, plant and identify what ladle of metal was used to cast the gland. The vendor must be able to provide metallurgical reports for any specific fitting based on the "batch serial number" that must be cast into the gland. The "batch serial number" must not be encoded and easily converted using common methods, such as the Julian Day.
- Each restraining fitting shall have the weights listed below.
- Set bolts will be "auto - torquing" or designed such that the nut on the actuating bolt will separate at the manufacturers intended torque for to properly set the wedge. After being set, the actuating bolts will have a smaller remaining head that will allow for the disassembly of the joint.

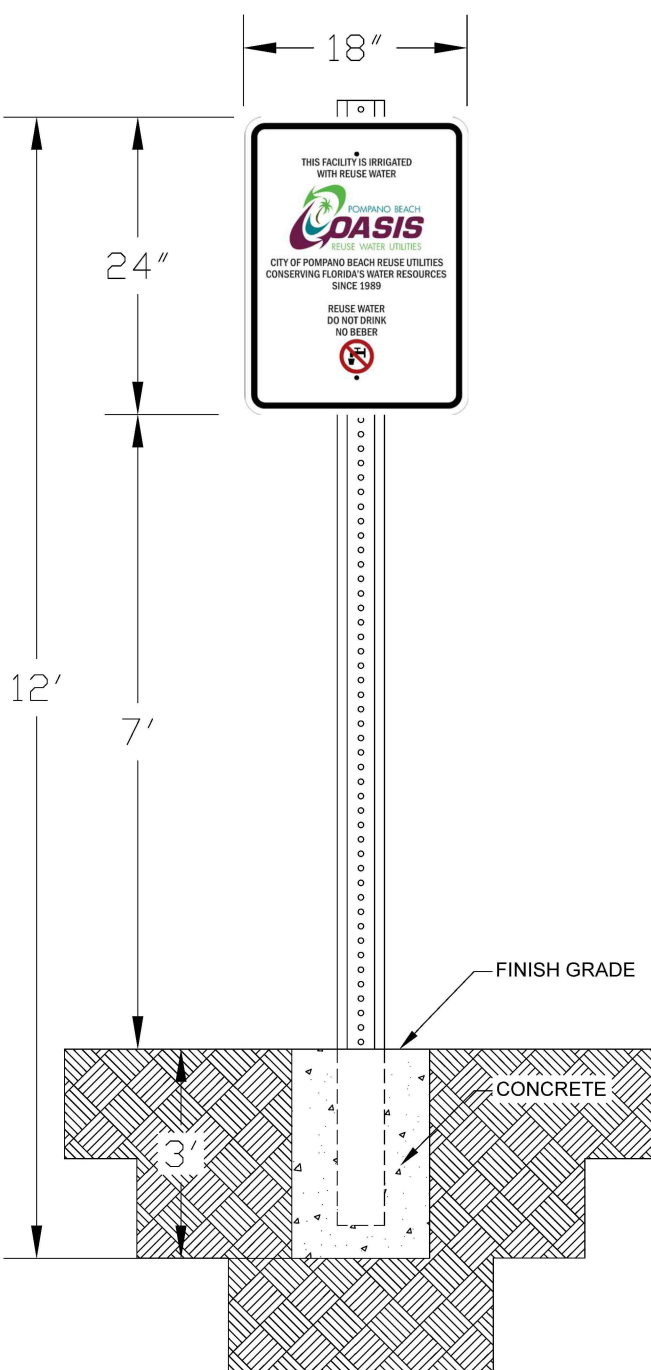
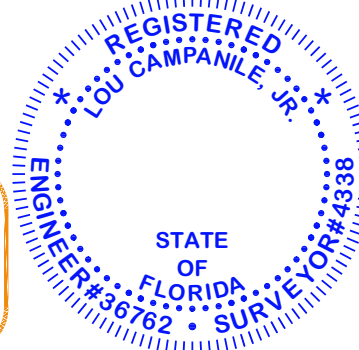
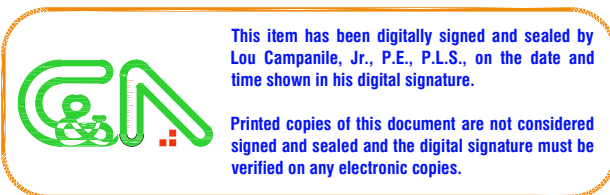
Size	Minimum Weight
4	6.3
6	8.8
8	12.9
10	23.1
12	29.5

- The fitting shall be properly prepared and coated with a TGIC polyester - based coating. The gripping wedges and actuating bolts shall be properly prepared and coated with a Xylan Flourpolymer coating.

ENGINEERING STANDARDS 2022

REVISIONS		ENGINEERING DIVISION CITY OF POMPAÑO BEACH	APPROVED PRODUCT LIST	
BY	DATE		DATE: MAY 2022 DWG. NO.	520-3
		SCALE: N.T.S.		

Lou Campanile



REUSE WATER SIGN

ENGINEERING STANDARDS 2022

REVISIONS		ENGINEERING DIVISION CITY OF POMPAÑO BEACH	REUSE WATER SIGN	
BY	DATE		DATE: MAY 2022 DWG. NO.	521-1
T.W.	10-2010			
		SCALE: N.T.S.		

CAMPANILE & ASSOCIATES, INC.
ENGINEERS PLANNERS SURVEYORS

6420 MAHI DRIVE
CORAL GABLES, FLORIDA 33158-1841
TEL: (305) 971-1988
LB 1678

10/9/24
Lou Campanile, Jr.
Professional Engineer No. 36762
Professional Surveyor No. 4338
State of Florida

for
R/S ARCHITECTS, INC.

ELIAS APARTMENT BUILDING
216 SE 23 AVENUE
POMPAÑO BEACH, FLORIDA 33062-5304

POMPAÑO BEACH WATER REUSE DETAILS

PROJECT NO. 5391

DATE 10/9/24

REVISIONS

DRC
PZ24-12000023
12/18/2024