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TOWN ENGINEER

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EFFECTIVE:

9-9-03

TOWN OF PALM BEACH

DATE:

JULY '96 APPROVED: AUG. '03 James

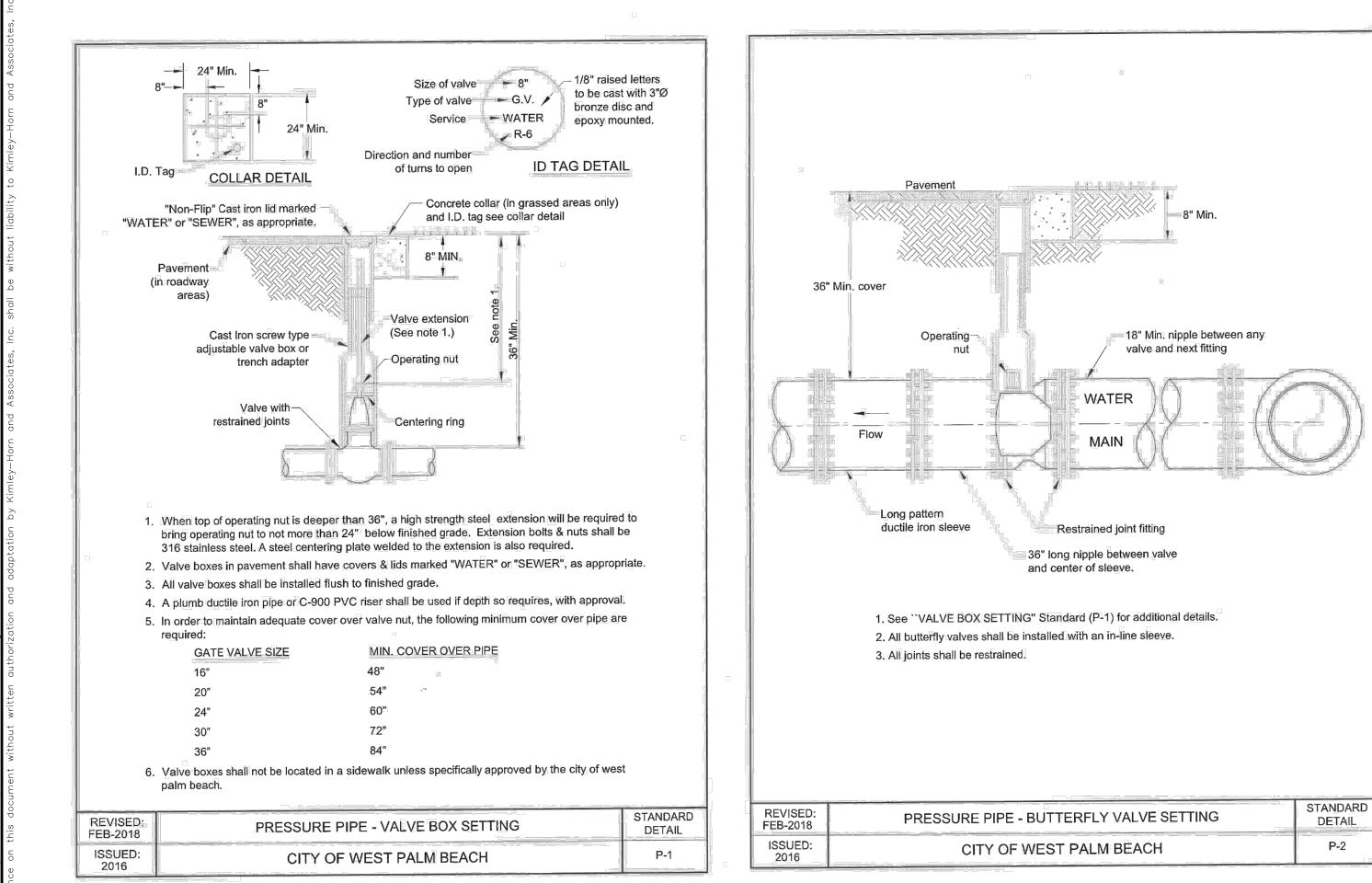
PUBLIC WORKS DEPARTMENT

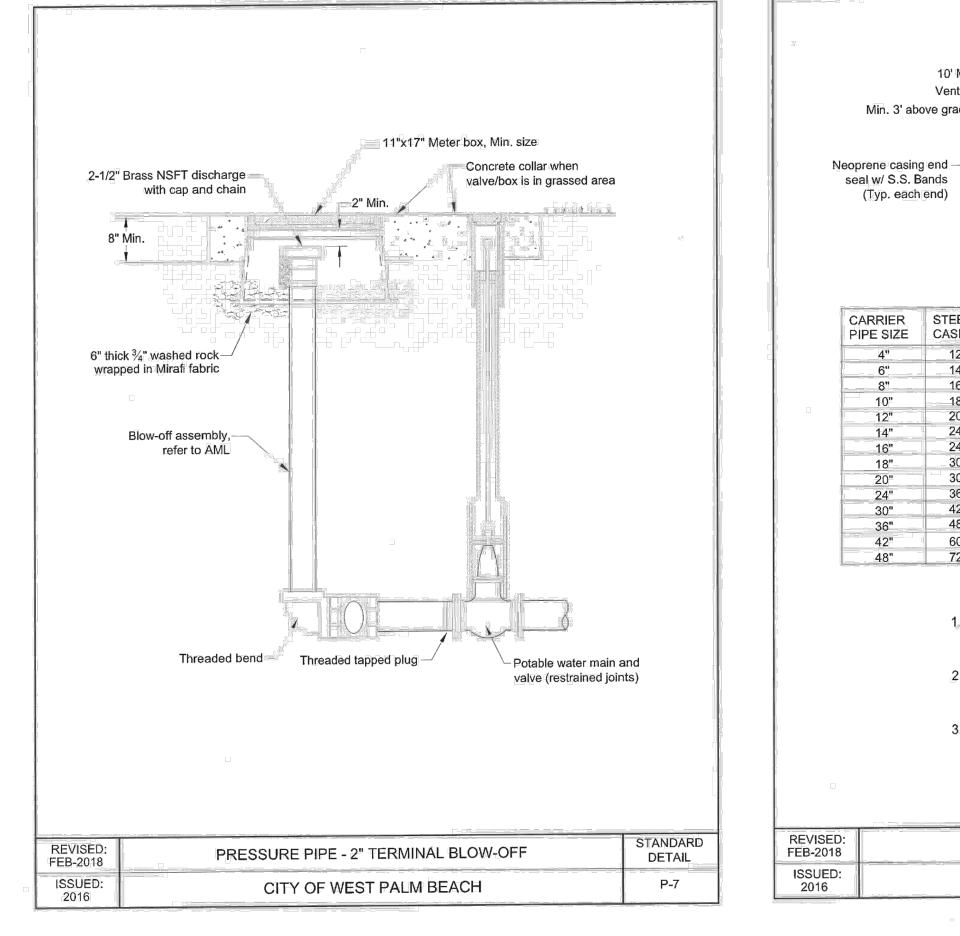
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CH MENT	STANDARD SANITARY MANHOLE	DRAWING NO.
DATE:	NOTES	100
	APPROVED: Sames M. Bourer	EFFECTIVE:
	TOWN ENGINEER	1 1 11

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DATE
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Kimley »Horn sociates, inc. 1615 S. CONGRESS AVE, SUITE 201, DELRAY BEACH, FL 33445 PHONE: 561-330-2345 FAX: 561-863-8175 WWW.KIMLEY-HORN.COM REGISTRY NO. 35106
KHA PROJECT 140802001LICENSED PROFESSIONAL 140802001DATE DATE JAN. 2025JOSHUA D. HORNINGSCALE AS SHOWN SCALE AS SHOWNJOSHUA D. HORNINGDESIGNED BYMXE 67505DESIGNED BYMXE 67505DEAWN BYMXE ATE:CHECKED BYJOTE:
UTILITY DETAILS
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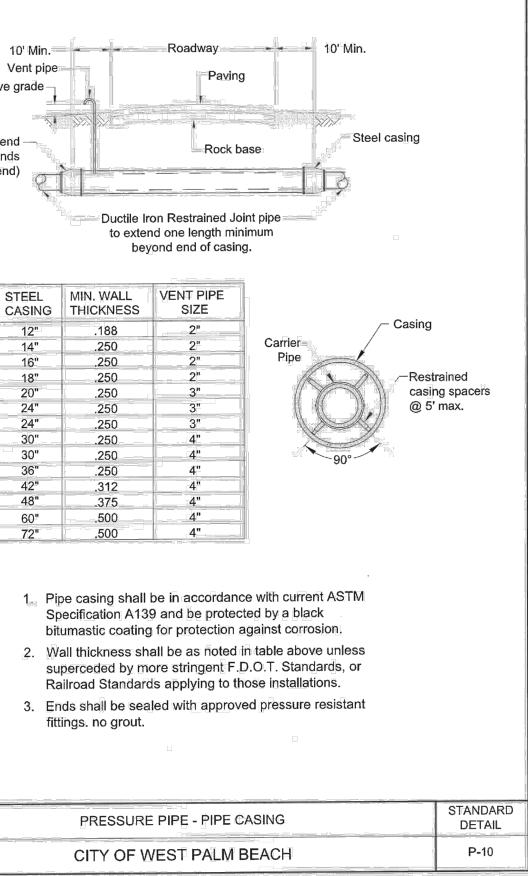
CARRIER STEEL MIN. WALL VENT PIPE PIPE SIZE CASING THICKNESS SIZE 10" 16" 18" 30" 42 30" 36" 42" 48" 60" 48" 72"

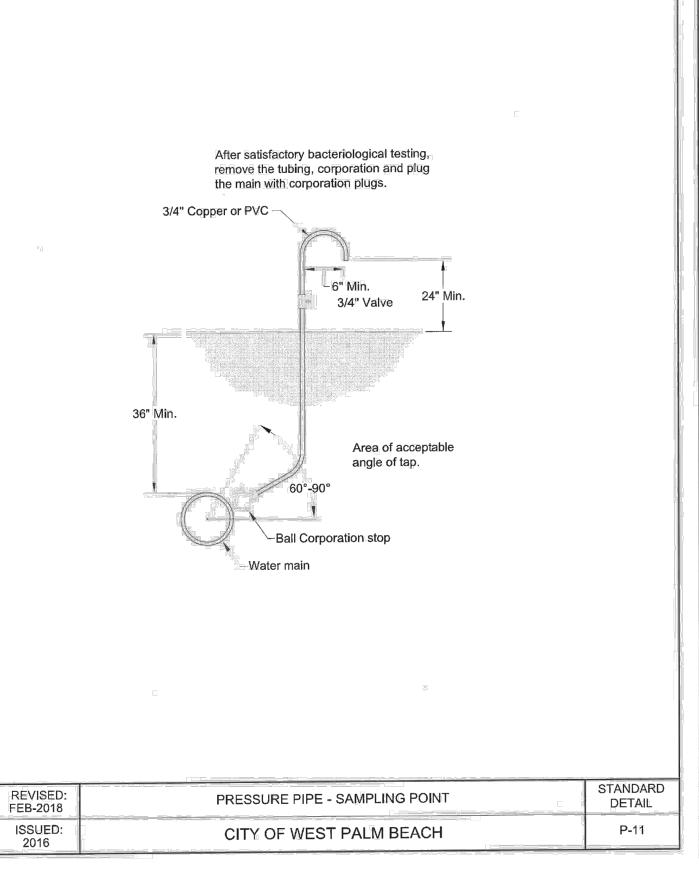
Min. 3' above grade-

(Typ. each end)

E PIPE - BUTTERFLY VALVE SETTING	STANDARD DETAIL
ITY OF WEST PALM BEACH	P-2

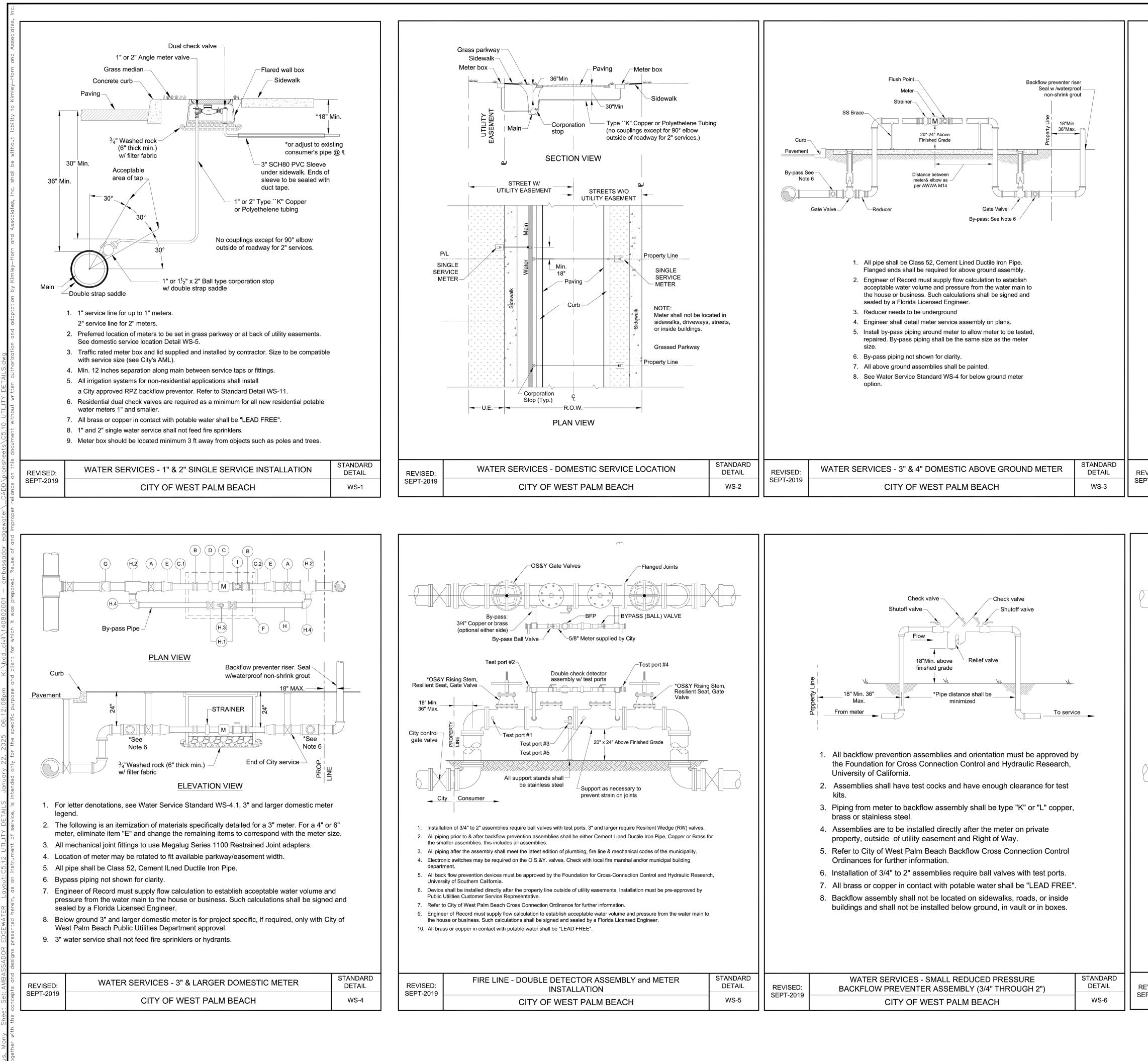
MIN. LENGTH OF PIPE (FEET) TO BE RESTRAINED SOURCE: THAUST RESTRAINT OBSIGN FOR OUCTLE IRON PIPE, DIPRA OTH EDUTION, 2006 FIFTING TYPE # 0° # 10° 122 kd 16° 13° 20° 20 kd 16° 13° 20° 20 HORZ 50° BEND 10 8 10 10 kd 16° 13° 20° 20 kd 16° 13° 20° 20° HORZ 250° BEND 20 7 15° 10° 12° 12° 12 kd 16° 13° 20° 20° kd 16° 13° 22° 24° 13° HORZ 250° BEND 20 7 15° 13° 13° 14° 16° 13° 20° 21° 13° 14° 16° 13° 20° 14° HORZ 250° BEND 20 7 15° 13° 13° 14° 16° 13° 20° 14° 13° 14° 14° 13° 22° 14° 13° 14° 14° HORZ 250° BEND 20 7 15° 13° 13° 14° 16° 13° 20° 14° 13° 14° 148° 14° 20° 13° 13° 14° 14° 14° 13° 14° 14° 14° 14° 14° 14° 14° 14° 14° 14	 Concrete used for vaults, manholes, and risers shall have an ultimate compressive strength at 28 days of 4000 P.S.I. Cement shall be TYPE II Portland. Vault shall be precast or poured in place concrete in accordance with ASTM C478. Air release valve shall be type and size appropriate for service intended. All openings shall be sealed with waterproof non-shrink mortar. Coatings on interior & exterior of manholes and vaults shall be in accordance with City of West Palm Beach approved materials list, and applied in two different colored coats. Reinforced concrete collar required when manhole or vault is outside pavement. No weep holes shall be allowed in vaults for force main & water main ARVS. For vault to be constructed over existing pipe, see "DOG HOUSE MANHOLE" Standards, DETAIL GS-7. ARV'S shall be installed at high point of water main/force main. Contractor shall adjust location in field as required for installation to be at high point. ARV'S shall be installed with S.S.Saddle Assembly. Direct tap is not acceptable. 	No.ScienceDateNo.Fax:561-863-8175No.RevisionsDateNo.RevisionsDate
NOTES: 1. THE DATA IN THE ABOVE TABLE ARE BASED UPON THE FOLLOWING INSTALLATION CONDITIONS: SOIL TYPE: SAND DEPTH OF BURY: 3 FEET TRENCH TYPE: 2: TEST PRESSURE: 150 PSI SAFETY FACTOR: 1.5 MINIMUM DIPE LENGTHA ALONG TEE RUN: 5 FEET 2: THE RESTRAINED PIPE LENGTHA SAPPLY TO DUCTILE IRON PIPE ONLY. 3: RESTRAINED PIPE LENGTHA SAPPLY TO DUCTILE IRON PIPE ONLY. 4: MULTIPLY PPE LENGTHA SAPPLY TO DUCTILE IRON PIPE ONLY. 5: ALL JOINTS BETWEEN UPPER AND LOWER BERNDS SHALL BE RESTRAINED. 6: DESIGN ENGINEER IS RESPONSIBLE TO PROJEKTIVEMENE REACASED PIPE. 7: MINIMUM NUMBER OF JOINTS TO DE RESTRAINED SHALL BE MINIMUM LENGTH AS LISTED ABOVE PULL LENGTH. REVISED: PRESSURE PIPE - DESIGN TABLE FOR THRUST RESTRAINED 1: SSUED: CITY OF WEST PALM BEACH P-3	REVISED: PRESSURE PIPE - AIR RELEASE VALVE AND VAULT NOTES STANDARD DETAIL ISUED: CITY OF WEST PALM BEACH P-5.1	PROJECT LICENSED PROFESSIONAL JBATE JOSHUA D. HORNING V. 2025 JOSHUA D. HORNING AS SHOWN JOSHUA D. HORNING BY MXE 67505 BY JDH DATE D BY JDH DATE D BY JDH DATE D BY JDH DATE D BY JDH DATE
After satisfactory bacteriological testing, remove the tubing, corporation and plug the main with corporation plugs.	1* 4* NIPPLE 1* 4* NIPPLE 1* 4* NIPPLE 1* 4* NIPPLE 1* X8* NIPPLE 1* MALE ADAPTER FIRE HYDRANT ADAPTER (BRASS) W/ 1* MALE OUTLET 1* 4* NIPPLE 1* 4* NIPPLE	UTILITY DETAILS SCALE AS SCALE AS SCALE AS SCALE AS SCALE AS SCALE BY DESIGNED BY DESIGNED BY DESIGNED BY CHECKED BY
REVISED: FEB-2018 PRESSURE PIPE - SAMPLING POINT STANDARD DETAIL ISSUED: 2016 CITY OF WEST PALM BEACH P-11	NOTES: 1. USE HYDRANT WRENCH ONLY 2. ALL PIPES AND FITTINGS SCHEDULE 40 PVC (PIPE COLOR: WHITE) REVISED: FEB-2018 ISSUED: 2016 CITY OF WEST PALM BEACH P-11.1	AMBASSADOR EDGEWATER PREPARED FOR PREPARED FOR OKO GROUP





C5.11

SHEET NUMBER



LI	STING OF COMPONENTS:	ATE
A.	Two 4" Resilient Wedge (RW) valves, with locking valve boxes & lids each side of the meter. Valves to be installed in line with or as close as possible to the meter.	
B.	Two Series 2100 3" Megalug, locking style flange adapters, one on each side of the meter, strainer and test tee.	
C.	One 3" flanged meter to be paid for by contractor and supplied by the City of West Palm Beach. Call for length of meter.	
	C.1 A length of straight pipe equal to 5 times the diameter shall be installed	S S S S S S S S S S S S S S S S S S S
	installed before the meter & after the strainer. C.2 A length of straight pipe equal to 3 times the diameter shall be installed after the meter.	REVISIONS
D.	One strainer, same size as meter, flanged, bronze case with strainer to be supplied by the contractor. Ccall for dimensions.	
E.	4" x 3" Mechanical Joint reducers before and after the meter. These may not be used in lieu of the straight pipe (see c.1 & c.2).	
F.	4' x 6' vault with a lock down heavy duty aluminum traffic lid with spring loaded hinges. Vault & lid are to be positioned so meter dial is centered under meter reader's lid.	
G.	Service is to be offset to the proper height using one grouping of the following:	8175
	G.1 - One 4" mechanical joint offset G.2 -Two 4" mechanical joint 90° bends w/ straight pipe as required.	201, 201, 863–8
н	G.3 -Two 4" mechanical joint 45° bends w/ straight pipe as required. Install bypass piping around meter to allow meter to be tested, repaired or	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -
	replaced. Bypass piping shall be the same size as the meter size.	AXSSOCIA AX: 56 AX: 56 EGISTE
	H.1- Two F.J. Resilient Wedge valves w/ wheel handles & megalug flange adapters series 2100. H.2 - Two Mechanical Joint tees	R R R R
	H.3 - One flanged tee, one flange plate tapped for 2" N.P.T., one	HORN SRESS BEAC
	2" brass nipple, one locking style 2" curb stop w/ 2" brass plug H.4 - Two Mechanical Joint 90° elbows.	LEY-H LEY-HORN HORN
I.	Flush point to test meters and to flush system.	561-3 LEY-H
	I.1- 3" flanged tee tapped for 2", attached to meter.I.2 - 2"x 3" brass nipple	
	I.3 - 2" locking style curb stop I.4 - 2" brass plug	© 2 PHONE: WWW.KII
EVISED: PT-2019	WATER SERVICES - 3" & LARGER DOMESTIC METER LEGEND DETAIL	SSIONAL
	CITY OF WEST PALM BEACH WS-4.1	PROFE
		. PROJECT DATE DATE N. 2025 JOSI AS SHOWN ED BY MXE BY MXE D BY JDH DATE:
	18" Min. 36" Max. PLAN	SCAL DRA
City co gate v		TY DETAIL:
	ity Consumer	
	allation of 3/4" to 2" assemblies require ball valves with test ports. 3" and larger require Resilient Wedge	
2. All p	') valves. iping before & after backflow prevention assemblies shall be either cement lined ductile iron pipe, copper or s for the smaller assemblies. This includes all assemblies, irrigation & fire line devices. All piping after the	
asse	embly shall meet the local Plumbing/Mechanical Codes (latest edition) of the municipality. Packflow prevention devices must be approved by the Foundation for Cross-Connection Control and	
Hyd	raulic Research, University of Southern California. er to City of West Palm Beach Cross Connection Ordinance for further information.	
	embly shall be installed directly after the meter on private property outside of utility easements. Allation must be pre-approved by City of West Palm Beach customer service representative.	
7. Eng wate	neer of Record must supply flow calculation to establish acceptable water volume and pressure from the er main to the house or business. Such calculations shall be signed and sealed by a Florida Licensed	
8. Only	neer. one RP backflow preventor required, second backflow preventor shown for redundancy. rass or copper in contact with potable water shall be "LEAD FREE".	SSADC NATE GROUP

REVISED: SEPT 2019	WATER SERVICES - 3" & LARGER REDUCED PRESSURE BACKFLOW PREVENTER ASSEMBLY	STANDARD DETAIL
	CITY OF WEST PALM BEACH	WS-7

sheet number C5.12

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