



1930 N Commerce Parkway, Suite 1 / Weston, Florida 33326

info@conengineers.com

PINECREST CONSTRUCTION SUBMITTAL FORM

SUBMITTAL N°	SUBMITTAL NAME	PROJECT ID	PROJECT NAME		
16	WATER AND SEWER	2025-017	GARY MATZNER PARK CONSTRUCTION		
	PROJECT LOCATION :	6610 NORTH KENDALL DRIVE / PINECREST, FLORIDA 33156			
PROJECT MANAGER		DATE OF SUBMISSION			
MAURICIO MANCO		Monday, November 17, 2025			
SUBMITTED TO		SUBMITTAL TYPE			
DISTRIBUTION LIST		SHOP DRAWING X PRODUCT DATA COMP. FORM / QUALITY REC. QUALITY SYSTEM DOC SPECIFICATIONS			
VILLAGE OF PINECREST		<-- OTHER (DESCRIBE) -->			
DESCRIPTION OF SUBMITTAL					
This submittal is being submitted for approval by the Village of Pinecrest and contains the information regarding the WATER AND SEWER to be installed in the park. * WATER AND SEWER * DETAILS AND REQUIREMENTS INCLUDED IN THE CIVIL CU-101 / CU-501 / CU-502 DRAWINGS  JUAN CARLOS PEREZ					
ATTACHMENTS					
PDF FORMAT ARCHIVES: 2025 11 13 - 0 SMT 16 - WATER AND SEWER Complete Package					
APPROVAL COMMENTS					
Materials provide are approved. Contractor to provide submittal to the City for their concurrence that the materials are acceptable. Contractor to use plans dated 9/24/2025.		STAMP KEITH AND ASSOCIATES, INC. SHOP DRAWING REVIEW ☐ Approved, No Comments ☒ Approved, As Noted ☐ Rejected, Revise and Resubmit ☐ Not Reviewed Review of the shop drawing is limited to general design concepts and general compliance with the information in the project plans and specifications only, and is not intended to be a verification of total material required or that all items required are shown. Review shall not relieve the Contractor from the responsibility of details of design, dimensions, job conditions, construction means and methods, coordination with other trades, or any other requirements of the plans, specifications or contract. Any notations on this shop drawing made by Keith and Associates, Inc. shall not be construed to authorize additional work or cost. Review of design calculations and drawings prepared by specialty engineers is limited to design intent and does not constitute a detailed check of calculations, nor does it relieve the specialty engineers from the responsibility of the detailing of the specialty component or system. By: Jonathan Weymouth Date: 11/25/2025			
CLIENT POINT OF CONTACT		REVIEW STATUS			
		APPROVED APPROVED AS NOTED DISAPPROVED - RESUBMIT INCOMPLETE - RESUBMIT			
		<-- OTHER (DESCRIBE) -->			
PREPARED BY	PREPARER TITLE	DATE	APPROVED BY	APPROVING TITLE	DATE
JUAN CARLOS PEREZ	ENGINEER	November 17, 2025	MAURICIO MANCO	PROJECT MANAGER	November 17, 2025



LETTER OF TRANSMITTAL

TO: Conengineers Builders LLC
ATTN: John Mauricio Manco
1930 N. Commerce Parkway, Suite 1
Weston, FL 33326

DATE: 11/17/2025
DHE JOB NO.: 25-011
RE: Gary Matzner Park
TRANSMITTAL NO.: 001

WE ARE SENDING YOU THE FOLLOWING ITEMS:

☐	Shop Drawings	☐	Prints
☐	Specifications	☐	Plans
☐	Copy of Letter	☒	Samples
☐	Change Order	☐	Other

COPIES	DATE	NO.	DESCRIPTION
1	11/17/25		Water & Sewer

VIA:

☒	Airmail	☐	Facsimile
☐	Courier	☐	FedEx
☐	Pick-up	☐	Hand Delivered

THESE ARE TRANSMITTED AS CHECKED BELOW:

☒	For approval	☐	Returned for corrections
☒	For your use	☐	Resubmit ___ copies for approval
☐	As requested	☐	Submit ___ copies for distribution
☐	For review and comment	☐	Return ___ corrected prints
☐	Approved as submitted	☐	FOR BIDS DUE:
☐	Approved as noted	☐	PRINTS RETURNED AFTER LOAN TO US

REMARKS:

COPIES TO:	Will Rodriguez Digitally signed by Will Rodriguez DN: C=US, E=project-manager@darcoheavyequipment.com, O=Darco Heavy Equipment, CN=Will Rodriguez
	Signed by: Will Rodriguez V.P of Construction

Received By: (please sign, and return copy)



Submittal Package

Darco @ Gary Matzner Park (Water & Sewer)

Provided By: (check one)

HD Waterworks # 062 7374 Commercial Circle Ft. Pierce, FL 34951 (772)466-5955	☐	HD Waterworks #039 1101 W. 17 th Street Riviera Beach, FL 33404 (561)848-4396	☐
HD Waterworks #157 4310 N.W.10 AVE. Oakland Park, FL.33039 (954)772-7343	☐	HD Waterworks #046 18701 SW 108 th Ave. Miami, FL 33157 (786)573-3401	☒

Submittal Summary Sheet

Project Name: _____

Project No: _____

Submittal Date: _____

ITEM FURNISHED	SUBMITTED	NOTES	
		APPLICATION	SIZE
1.0 PIPE			
1.1 DUCTILE IRON PIPE	☒		
1.2 PVC PIPE	☐		
1.2.1 C900/90	☒		
1.2.2 SDR 26	☐		
1.2.3 Schedule 80	☐		
1.3 HIGH DENSITY POLYETHENE PIPE (HDPE)	☐		
2.0 PIPE FITTINGS			
2.1 DUCTILE IRON FITTINGS	☒		
2.2 PVC FITTINGS	☒		
2.3 HDPE FITTINGS	☐		
3.0 JOINT RESTRAINTS			
3.1 DUCTILE IRON JOINT RESTRAINTS	☒		
3.2 PVC JOINT RESTRAINTS	☐		
4.0 VALVES			
4.1 BUTTERFLY	☐		
4.2 RESILIENT SEATED GATE VALVE	☒		
4.3 TAPPING	☐		
4.4 PLUG	☐		
4.5 CHECK	☐		
4.6 BACK FLOW PREVENTION ASSEMBLIES	☒		
4.7 AIR RELEASE	☐		
4.8 OTHERS	☐		
4.9 BALL VALVES	☐		
5.0 CASING SPACERS	☐		
6.0 TAPPING SLEEVES	☒		

ITEM FURNISHED	SUBMITTED	NOTES	
		APPLICATION	SIZE
7.0 SADDLES	☐		
8.0 WATER SERVICES			
8.1 PRESSURE COUPLINGS	☐		
8.2 METER COUPLINGS	☒		
8.3 CORPORATION STOPS	☐		
8.4 CURB STOPS	☒		
8.5 METER VALVES	☐		
8.6 SERVICE FITTINGS /ACCESSORIES	☒		
8.7 WATER SERVICE PIPE	☐		
9.0 FIRE HYDRANTS	☒		
10.0 MISCELLANEOUS			
10.1 ENCASEMENTS	☐		
10.2 DETECTABLES TAPES /TRACERS	☐		
10.3 COUPLINGS	☐		
10.4 METER BOXES, COVERS & VALVE BOXES	☒		
10.5 MANHOLE AND RISER RINGS AND I&I PROTECTORS	☐		
10.6 STANDARD MANHOLE COATING	☐		
10.7 WET WELL COATING	☐		
10.8 BRICKS	☐		

QUALITY. VALUE. ECONOMIC GROWTH.

WWW.MIAMIDADE.GOV/WATER



Sheet Number: 1.1

Product Specifications

Miami-Dade Water & Sewer Department
Address: 3071 SW 38th Ave, Miami, FL 33146
Phone: (305) 665-7477

Ductile Iron Pipe (D.I.P.)

Minimum Standards

- AWWA C104, C110, C111, C115, C151
- ASTM A536, D1248
- ANSI A21.51, A21.10, A21.11, A21.15, A21.4, B 16.1
- MDWASD Specification: Section 33 14 00 (15060)

Other Requirements

- ANSI/NSF 61 for potable water applications
- Linings:
 - ✓ Water application: Cement-lined
 - ✓ Sewer application: Protecto 401 liner with neoprene gaskets; Permax CTF
- Min. Pressure per Class:

Size	Class
4" - 12"	350
14" - 20"	250
24"	200
30" and above	150

- Approved Joints:
 - ✓ Push-on: Tyton, Fastite,
 - ✓ Mechanical
 - ✓ Flanged
 - ✓ Grooved-end
- Approved Restrained Joints:
 - ✓ Push-on with Gasket Restraint: Tyton /Field Lok, Amarillo Fastite, Fast-Grip, Barracuda Tyton, Sure Stop
 - ✓ Lok-Ring
 - ✓ Flex-Ring
 - ✓ TR-Flex
- Zinc Coating required in saltwater intrusion areas

Applications

- Water and Sewer

PRE-APPROVED MANUFACTURER

- 1) American Ductile Iron Pipe
- 2) McWane Inc. Ductile Iron Pipe Group
- 3) U.S PIPE

Issue Date: 4/4/2016

Revised Date: 2/5/2021



APPROVED PRODUCTS / MODELS

PIPE SIZE	MANUFACTURER	MODEL	SUBMITTED
4" - 54"	American Ductile Iron Pipe	Fastite American Ductile Iron Pipe	☐
4" - 30"	American Ductile Iron Pipe	Amarillo Fast-Grip Gasket with Fastite American Ductile Iron Pipe	☐
4" - 54"	American Ductile Iron Pipe (C&B, Custom Fab, ASAP)	Flanged Ductile Iron Pipe	☐
4" - 42"	American Ductile Iron Pipe	Lok-Ring Ductile Iron Pipe	☐
4" - 30"	American Ductile Iron Pipe	Flex-Ring Ductile Iron Pipe	☐
4" - 30"	McWane Inc. Ductile Iron Pipe	TYTON JOINT Pipe	☐
4" - 30"	McWane Inc. Ductile Iron Pipe	TR FLEX® RESTRAINED JOINT PIPE	☐
4" - 16"	McWane Inc. Ductile Iron Pipe	Barracuda Restrained Joint Gasket	☐
4" - 24"	McWane Inc. Ductile Iron Pipe	Sure Stop Restrained Joint Gasket	☐
4" - 30"	U.S PIPE	TR - Flex Restrained Joint Pipe	☐
4" - 54"	U.S PIPE	TYTON JOINT Pipe	☒
4" - 36"	U.S PIPE	Tyton/ Field-Lok	☐
4" - 16"	U.S PIPE	Barracuda Restrained Joint Gasket	☐
4" - 54"	U.S PIPE, Custom Fab	Flange Ductile Iron Pipe	☐
12" - 48"	U.S PIPE	HDSS® High Deflection High Pressure Restrained Pipe	☐

Note: Pipe sizes larger than 42" require MDWASD Approval

SIZES FURNISHED

☒ 4"	☐ 12"	☐ 20"	☐ 42"
☒ 6"	☐ 14"	☐ 24"	☐ 48"
☐ 8"	☐ 16"	☐ 30"	☐ 54"
☐ 10"	☐ 18"	☐ 36"	☐ Other

REMARKS:

☒ Potable Water	☐ Sanitary Sewer
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GASKET MATERIAL (PUSH-ON, MJ, GASKET RESTRAINED)

POTABLE WATER

☒ SBR	☐ Other
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SEWER

☐ Neoprene	☐ EPDM
☐ Other	

SALTWATER INTRUSION AREAS (EAST OF I-95 OR SALTWATER INTRUSION LINE):

☐ Zinc Coating

COMMENTS:

APPROVED PRODUCTS / MODELS

PIPE SIZE	MANUFACTURER	MODEL	SUBMITTED
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Approved by: MDWASD Departmental Standards, Specifications, and Product Committee

Revision History:

2-5-2021: Added HDSS® High Deflection High Pressure Restrained Pipe by U.S. Pipe



Sheet Number: 1.2.1

Product Specifications

Miami-Dade Water & Sewer Department
Address: 3071 SW 38th Ave, Miami, FL 33146
Phone: (305) 665-7477
Email: WASD-STANDARDS@miamidade.gov

Poly Vinylchloride (PVC) Pipe- C900



Minimum Standards

- AWWA C900
- ASTM D1784, D3139, F477
- MDWASD Specifications: Sections 33 31 11 (UC-250), 33 14 00 (15060), 33 05 31.16 (15067)

Other Requirements

- For C900 – DR 14, 18, 25
- For Pressure applications – DR 18
- For wellfields and gravity sewer deeper than 13 feet
- Color Green for sanitary sewer application
- Color Blue for potable water application
- Saddles are required for all corporation stops and service connections.
- All PVC installed shall have the ability to be located aboveground. Tracer Wire, Magnetic Balls and Location Safety Tape are all required per WASD Standards.
- No deflections are allowed at the joints. Longitudinal deflection along the pipe barrel shall be limited to the Table provided in Specification 33 05 31.16.
- Pipe shall have a gasket locking system at the bell end (MJ Joints).

Applications

- Sewer – For gravity and pressure applications approved by the Department.
- Potable Water – Acceptable for use 4 to 16-inches in diameter due to supply chain disruptions. The Department will return to the original standard of only for use in saltwater intrusion areas on 9-30-2023.

PRE-APPROVED MANUFACTURER

- 1) CertainTeed/North American Specialty Products
- 2) Diamond Plastics Corp
- 3) IPEX Inc.
- 4) JM Eagle
- 5) National Pipe & Plastics, Inc.
- 6) North American Pipe Corp
- 7) Sanderson Pipe Corp.
- 8) Next Polymers

Issue Date:

4-4-2016

Revised Date:

2-28-24

APPROVED PRODUCTS / MODELS			
PIPE SIZE	MANUFACTURER	MODEL	SUBMITTED
PRESSURE PIPE			
4" - 16"	CertainTeed/North American Specialty Products	Certa-Lock C900/RJ	☐
4" - 12"	Diamond Plastics Corp	C900 PVC Pressure Pipe	☐
14" - 30"	Diamond Plastics Corp	Trans-21	☐
4" - 30"	IPEX Inc.	Ipex Centurion	☐
4" - 12"	IPEX Inc.	Blue Brute Pipe	☐
14" - 24"	JM Eagle	C900 Big Blue	☐
4" - 12"	JM Eagle	Blue Brute C900	☐
4" - 12"	National Pipe & Plastics, Inc.	Dura-Blue C900	☐
14" - 24"	National Pipe & Plastics, Inc.	Dura-Blue C900	☐
4" - 30"	North American Pipe Corp	Gasketed Integral Bell PVC Pipe C900	☐
4" - 12"	Sanderson Pipe Corp.	C900 (Blue)	☒
4" - 16"	Next Polymers	Aqualoc	☐
Note: Other sizes require MDWASD Approval			
SIZES FURNISHED:			
☐ 4"	☐ 12"	☐ 20"	
☒ 6"	☐ 14"	☐ 24"	
☒ 8"	☐ 16"	☐ 30"	
☐ 10"	☐ 18"	☐ Other	
REMARKS - PROVIDE SDR RATING: _____			
APPLICATION _____			
PIPE COLOR			
☒ Green (Sewer) ☐ Blue (Potable Water))			
COMMENTS: _____			

Approved by: MDWASD Departmental Standards, Specifications and Products Committee			
Revision History:			
9-22-2022: Removed All References to C905; Allowed the use of PVC DR 18 (4-inch to 16-inch) countywide for potable water due to supply chain disruptions until 9-30-2023.			
2-28-2024 Added Next Polymers Aqualoc PVC Pipe;			

Product Specifications

Miami-Dade Water & Sewer Department
Address: 3071 SW 38th Ave, Miami, FL 33146
Phone: (305) 665-7477

Ductile Iron Pipe Fittings



Minimum Standards

- AWWA C105, C110/A21.10, C111/A21.11, C115/A21.15, C153/A21.53, C600
- MDWASD specification: Sections 15060, UC-250

Other Requirements

- NSF61/ANSI for potable water applications
- Cement Lining for water application
- Ceramic Epoxy Lining for sewer application
- C110 Fittings may be required by the Department projects in saltwater areas or at locations with severe corrosion issues when specified on Plans
- Zinc Coating (brush applied for fittings) required in saltwater intrusion areas

Applications

- Water and Sewer

PRE-APPROVED MANUFACTURER

- | | |
|------------------------------------|-------------------|
| 1) American | 5) SIP Industries |
| 2) Integrity Fusion Products, Inc. | 6) Star Pipe |
| 3) Romac Industries Inc. | 7) Tyler Union |
| 4) Sigma Corporation | 8) U.S. Pipe |

Issue Date: 4/4/2016

Revised Date: 11/29/2018

APPROVED PRODUCTS / MODELS

SIZE	MANUFACTURER	MODEL	SUBMITTED
4" - 48"	American	Flexible Ring and Lok Ring Fittings	☐
4" - 48"	Integrity Fusion Products, Inc.	Backup Rings, 316 stainless steel, Epoxy Coated	☐
4" - 48"	Romac Industries	Alpha EC Wide Range End Cap	☐
4" - 48"	Sigma Corporation	C110 MJ D.I. Fittings Full body	☐
4" - 48"	Sigma Corporation	C153 MJ Compact Fittings	☐
4" - 48"	Sigma Corporation	C110 Flanged Fittings Cast Iron/ DI	☐
4" - 48"	SIP Industries	DI Flange Fittings	☐
4" - 48"	SIP Industries	DI Compact MJ Fittings	☐
4" - 54"	Star Pipe	DI Compact MJ Fittings	☐
4" - 54"	Star Pipe	DI Full Body MJ Fittings	☒
4" - 54"	Star Pipe	DI Compact Push-On Fittings	☐
4" - 54"	Star Pipe	DI Flanged Fittings	☐
4" - 54"	Tyler Union	DI C110 Full body MJ	☐
4" - 54"	Tyler Union	DI C153 Compact MJ	☐
4" - 54"	Tyler Union	DI C110 Flanged Fittings	☐
4" - 48"	U.S. PIPE	MJ FITTINGS	☐

SIZES FURNISHED:

- | | | | |
|--|------------------------------|------------------------------|--|
| ☒ 4" | ☐ 12" | ☐ 20" | ☐ 42", 48", 54" |
| ☒ 6" | ☐ 14" | ☐ 24" | |
| ☐ 8" | ☐ 16" | ☐ 30" | |
| ☐ 10" | ☐ 18" | ☐ 36" | |

REMARKS:

☒ Potable Water ☐ Sanitary Sewer

SALTWATER INTRUSION AREAS (SALTWATER INTRUSION AREAS):

☐ Zinc Coating

COMMENTS:

Approved by: MDWASD Departmental Standards, Specifications, and Product Committee

Revision History:

11-29-2018 – Increase size range for Star Pipe and Tyler Union; defined zinc coating in saltwater intrusion area per latest county map; zinc coating is applied by brush coating for fittings;

Product Specifications

Miami-Dade Water & Sewer Department
Address: 3071 SW 38th Ave, Miami, FL 33146
Phone: (305) 665-7477

PVC Pipe Fittings



Minimum Standards

- For SDR 26: ASTM D3034, F477
- For C900/C905: AWWA C105, C110/A21.10, C111/A21.11, C115/A21.15, C153/A21.53, C600
- For Sch. 80: ASTM D2467, D2464, 2564
- MDWASD specification: Sections 15060

Other Requirements

- NSF61/ANSI for potable water applications
- Cement Lining for water application
- Protecto 401 Lining for sewer application
- SDR C900 : 14, 18, 25
- SDR C905 : 14, 18, 21, 25, 32.5, 41, 51
- SDR 35 is not allowed, except for hub cleanout with threaded plug at property line in cleanout box.

Applications

- Water and Sewer

PRE-APPROVED MANUFACTURER

- | | |
|-----------------------------|-------------------------|
| 1) GF Central Plastics | 4) Ipex |
| 2) Harrington Corp. (HARCO) | 5) Royal Plastic Trends |
| 3) MultiFittings | |

Issue Date:

4-4-2016

Revised Date:

10-25-2017

APPROVED PRODUCTS / MODELS

SIZE	MANUFACTURER	MODEL	SUBMITTED
4" - 12"	GF Central Plastics	SDR 26 PVC, Molded PE2406/PE2708, PE3408/PE4710	☐
4" - 12"	HARCO	PVC C-900 GASKETED FITTINGS	☒
4" - 15"	HARCO	SDR-26 PVC Gasketed sewer fittings	☐
4" - 12"	IPEX	Blue Brute (Molded Gasketed PVC fittings)	☐
4" - 12"	IPEX	Blue Brute (Fabricated Gasketed PVC fittings)	☐
14" - 30"	IPEX	IPEX Centurion (Fabricated Gasketed PVC fittings)	☐
4" - 30"	IPEX	PVC Trench Tough for SDR26 Gasket Sewer Fittings	☐
4" - 12"	IPEX	PVC Trench Tough for C900/C905 PIPE, Gasket Sewer & Drain Fittings (non-pressure)	☐
4" - 24"	IPEX	PVC Trench Tough for Heavy Wall Sewer Fittings	☐
4" - 30"	Royal Plastic Trends	G-Series, Injection Molded/Fabricated Gasketed PVC Sewer fittings	☐
4" - 15"	MultiFittings	SDR-26 PVC Gasketed sewer fittings	☐

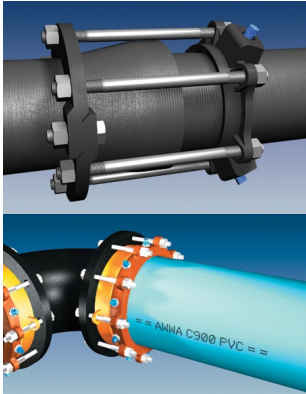
SIZES FURNISHED:

- | | | |
|--|------------------------------|--------------------------------|
| ☐ 4" | ☐ 12" | ☐ 20" |
| ☒ 6" | ☐ 14" | ☐ 24" |
| ☒ 8" | ☐ 16" | ☐ 30" |
| ☐ 10" | ☐ 18" | ☐ Other |

COMMENTS:

Approved by: David Vazquez, PE

Title: Specifications Manager

		Sheet Number: 3.1	
Miami-Dade Water & Sewer Department Address: 3071 SW 38th Ave, Miami, FL 33146 Phone : (305) 665-7477 Email: WASD-STANDARDS@miamidade.gov		Product Specifications	
		Minimum Standards • ANSI/AWWA: C111, C151, C110 • ASTM A536 • MDWASD Specification: Section 33 14 00 (15060) Other Requirements • NSF61/ANSI for potable water applications Applications • Water and Sewer	
PRE-APPROVED MANUFACTURER			Issue Date:
1) EBAA Iron, Inc. 2) Ford 3) Sigma Corporation 4) SIP 5) Smith Blair 6) Star Pipe 7) Tyler Union 8) American Flow Control			4-4-2016 Revised Date: 6-20-2023
APPROVED PRODUCTS / MODELS			
SIZE	MANUFACTURER	MODEL	SUBMITTED
4" - 30"	EBAA Iron, Inc.	Series 1700	☐
4" - 30"	EBAA Iron, Inc.	Series 2100	☐
4" - 30"	EBAA Iron, Inc.	Series 1100	☒
4" - 12"	EBAA Iron, Inc.	Series 1600TD	☐
4" - 30"	EBAA Iron, Inc.	Series 1100HD	☐
4" - 12"	EBAA Iron, Inc.	Tru-Dual Series 1500TD	☐
4" - 30"	EBAA Iron, Inc.	Megaflange Series 2100	☐
4" - 30"	Ford	Uni-flange Series 400, UFA 400-C-x series, adapter flange	☐
4" - 12"	Ford	Uni-Flange Series 1390C	☐
4" - 12"	Ford	FFCA-xxx style	☐
4" - 30"	Sigma Corporation	SigmaFlange with One Lock SLDE	☐
4" - 30"	Sigma Corporation	SIGMA ONE-LOK™ Series SLDEH	☐
4" - 30"	Sigma Corporation	SIGMA ONE-LOK™ Series SLD	☐
4" - 30"	Sigma Corporation	PV-LOK™ Series PWP for DIP	☐
4" - 30"	Sigma Corporation	Series SSLDH	☐
4" - 30"	Sigma Corporation	ONE-LOK Series SLDE	☐
4" - 30"	Sigma Corporation	ONE-LOK Series SSLD Split Gland for DIP	☐
4" - 30"	SIP	EZ Grip	☐
4" - 30"	Smith Blair	Cam Lok Series 111	☐

APPROVED PRODUCTS / MODELS			
SIZE	MANUFACTURER	MODEL	SUBMITTED
4" - 30"	Smith Blair	Bell-Lock Series 165	☐
4" - 30"	Smith Blair	911 Flange - Lock Restrained FCA	☐
4" - 30"	Smith Blair	Cam Lok Series 120	☐
4" - 16"	Star Pipe	Series 1100C	☐
4" - 30"	Star Pipe	Stargrip Series 3100P	☐
4" - 30"	Star Pipe	Stargrip Series 3000	☐
4" - 30"	Star Pipe	Super Flange Series 7200	☐
4" - 30"	Star Pipe	Split Stargrip Series 3100S	☐
4" - 12"	Star Pipe	Series 100	☐
4" - 16"	Star Pipe	StarFlange Series 3200	☐
4" - 30"	Star Pipe	Stargrip Series 3000OS	☐
4" - 30"	Star Pipe	Split Stargrip Series 3000S	☐
4" - 30"	Star Pipe	Tandem Stargrip Series 3000T	☐
4" - 30"	Tyler Union	Tufgrip TLD	☐
4" - 12"	Tyler Union	Tufgrip Series 3000C	☐
4" - 12"	American Flow Control	Series 2500 RW RNS Alpha Ends (Fire Hydrants and Gate Valves) American-Darling	☐

SIZES FURNISHED:

☒ 4"	☐ 12"	☐ 20"
☒ 6"	☐ 14"	☐ 24"
☐ 8"	☐ 16"	☐ 30"
☐ 10"	☐ 18"	☐ Other

COMMENTS:

Approved by: MDWASD Departmental Standards, Specifications and Products Committee

Revision History:
 6-20-2023: Modified American Flow Control Model; Tyler Union Series corrected.

QUALITY. VALUE. ECONOMIC GROWTH. WWW.MIAMIDADE.GOV/WATER MIAMI-DADE COUNTY	Sheet Number: 4.2 Product Specifications		
Miami-Dade Water & Sewer Department Address: 3071 SW 38th Ave, Miami, FL 33146 Phone: (305) 665-7477	Resilient Seated Gate Valve		
	Minimum Standards - AWWA C500, C509, C515, C550, C11/A21.11 - ASTM A123, A153, D429 - ANSI B16.1 Class 125 - MDWASD Specifications: Sections 15100, 15120 Other Requirements - NSF61/ANSI for potable water applications - Non Rising Stem (NRS) - Design working water pressure : 250psi (3" - 30") Applications - Water - In bevel position, blowoff assembly required, see STD 4.70		
PRE-APPROVED MANUFACTURER	Issue Date: 4-4-2016 Revised Date: 7-30-2019		
APPROVED PRODUCTS / MODELS			
SIZE	MANUFACTURER	MODEL	SUBMITTED
4" - 48"	American Flow Control	Series 2500, DI (Resilient Wedge)	☐
3" - 12"	Clow	2639 & 2640	☒
24"	Clow	2638	☐
14" - 30"/4" - 12"	J & S Valve	Series 6000/6000.5, (Resilient Seated)	☐
4" - 12"	Kennedy	Model KS_FW, (Resilient Wedge)	☐
4" - 12"	Kennedy	Model KS_RW, (Resilient Wedge)	☐
24" - 48"	Kennedy	Rotating Disc Gate Valve	☐
4" - 12"	Mueller	Series A-2362, (Resilient Wedge)	☐
4" - 12"	Mueller	Series A-2361 DI (Resilient Wedge)	☐
4" - 12"	Mueller	Series A-2362 Thick wall DI (Resilient Wedge)	☐
14" - 36"	Mueller	Series A-2361-23 (Resilient Wedge)	☐
4" - 36"/4" - 12"	US Pipe	Series A-USP1/A-USP2, (Resilient Wedge)	☐
4" - 12"	Matco-Norca	Series 225 (Resilient Wedge)	☐
SIZE FURNISHED:			
☒ 4"	☐ 12"	☐ 20"	☐ 42"
☒ 6"	☐ 14"	☐ 24"	☐ 48"
☐ 8"	☐ 16"	☐ 30"	☐ other
☐ 10"	☐ 18"	☐ 36"	

POSITION:

Vertical Position



Bevel Position with Blow-off Assembly – WASD



Approval required prior to use in bevel position
due to debris accumulation in tracks

COMMENTS:

Approved by: MDWASD Departmental Standards, Specifications, and Product Committee

Revision History:

7-30-2019: Added Matco-Norca Series 225 valve; Specified WASD approval required for use in bevel position; changed picture;

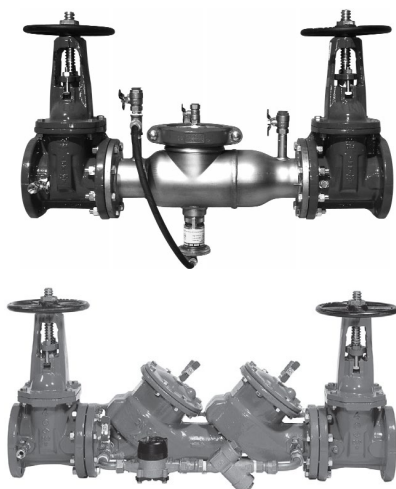


Sheet Number: 4.6

Product Specifications

Miami-Dade Water & Sewer Department
Address: 3071 SW 38th Ave, Miami, FL 33146
Phone: (786) 552-4438
Email: WASD-STANDARDS@miamidade.gov

Backflow Prevention Assemblies



Minimum Standards

- MDWASD Specifications: Section 33 14 51 (15130) & 40 05 58 (15100)

Other Requirements

- Minimum Working Pressure: 150 psi

Applications

- Water

PRE-APPROVED MANUFACTURER

Issue Date:

4/4/2016

Backflow Prevention Assemblies approved to be used in WASD facilities are the ones listed in the University of Southern California Foundation at www.usclist.com or <https://fccchr.usc.edu/list.html>

Revised Date:

02/23/2022

APPROVED PRODUCTS / MODELS

SIZE	MANUFACTURER	MODEL	SUBMITTED
2	Wilkins	975XL2 RPZ	☐
2	Wilkins	720A PVB	☐
			☐

SIZE FURNISHED:

- | | | |
|---------------------------------|--|--------------------------------|
| ☐ 3/4" | ☒ 2" | ☐ 8" |
| ☐ 1" | ☐ 4" | ☐ Other |
| ☐ 1 1/2" | ☐ 6" | |

COMMENTS:

Approved by: MDWASD DEPARTMENTAL STANDARDS, SPECIFICATIONS AND PRODUCTS COMMITTEE

Revision History:

02/23/2022 – Added URL of University of Southern California Foundation List of Approved Backflow Prevention Assemblies.

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MIAMI-DADE
COUNTY

Sheet Number: 6.0

Product Specifications

Miami-Dade Water & Sewer Department
Address: 3071 SW 38th Ave, Miami, FL 33146
Phone: (305) 665-7477

Tapping Sleeves



Minimum Standards

- AWWA C110, C111
- ANSI 21.10, A21.11
- MDWASD Specifications: Sections 15100, 15102, 15120

Other Requirements

- Construction: Cast Iron, Stainless Steel AISI 316/316L
- Minimum working pressure: 150 PSI

Applications

- Water and Sewer

PRE-APPROVED MANUFACTURER

- | | |
|--------------------------|---------------------------|
| 1) American Flow Control | 4) PowerSeal |
| 2) Ford | 5) Tyler Union |
| 3) JCM | 6) Total Piping Solutions |

Issue Date:

4/4/2016

Revised Date:

9/9/016

APPROVED PRODUCTS / MODELS

PIPE SIZE	MANUFACTURER	MODEL	SUBMITTED
DUCTILE IRON			
4" - 24"	American Flow Control	Series 2800 (DI)	☐
6" - 12"	Tyler Union	25U Compact DI MJ	☐
STAINLESS STEEL			
14" - 24"	Ford	FTSS-xxxx-MJ-Q style (with SS Mechanical Joint outlet)	☐
4" - 12"	Ford	FTSS-xxxx-MJ-Q style (with Mechanical Joint outlet)	☐
4" - 24"	JCM	JCM 6439 & 6459 (SS)	☒
4" - 12"	PowerSeal	3490AS (SS)	☐
4" - 30"	PowerSeal	3490MJ-SST316	☐
4" - 12"	Total Piping Solutions	Extended Range 316 SS Tapping Sleeve	☐

SIZE FURNISHED:

- | | | |
|------------------------------|---|--------------------------------|
| ☐ 4" | ☐ 12" | ☐ 20" |
| ☐ 6" | ☐ 14" | ☐ 24" |
| ☐ 8" | ☒ 16" | ☐ 30" |
| ☐ 10" | ☐ 18" | ☐ Other |

COMMENTS:

Plans call for 16" x 4" and 16" x 6" tapping sleeves. Confirm manufacture to be used and that the Village approves of the manufacture.
Jonathan Weymouth for KEITH.

Approved by: David Vazquez, PE

Title: Specifications Manager



Sheet Number: 8.2

Product Specifications

Miami-Dade Water & Sewer Department
Address: 3071 SW 38th Ave, Miami, FL 33146
Phone: (786) 665-7477
Email: WASD-STANDARDS@miamidade.gov

Water Services – Meter Couplings



Minimum Standards

- AWWA C700, C800
- MDWASD Specifications: Section 33 05 98 (15065)

Other Requirements

- ANSI/NSF Standard 61
- No Lead – All brass components shall be marked “NL”

Applications

- Water

PRE-APPROVED MANUFACTURER

- 1) A.Y. McDonald
- 2) Ford
- 3) Mueller
- 4) Cambridge Brass

Issue Date: 4/4/2016

Revised Date: 3/28/2022

APPROVED PRODUCTS / MODELS

SIZE	MANUFACTURER	MODEL	SUBMITTED
5/8" - 1 x 2 13/16"	A.Y. McDonald	74624 meter swivel nut x MNPT	☐
2"	A.Y. McDonald	7611-44 2 PVC Comp x MNPT	☐
1 1/2" - 2"	A.Y. McDonald	7611-55 x IP Comp x MNPT	☐
1"	A.Y. McDonald	74638-22 meter swivel nut x CTS	☐
5/8" - 2"	A.Y. McDonald	74620 meter swivel nut with wire seal hole x MNPT	☐
5/8" - 1"	Ford	C34-xx-NL style meter swivel nut x pack joint CTS	☐
1 1/2" - 2"	Ford	CT35-xx-NL style Lok-Pak Meter Coupling	☒
1/2" - 1"	Mueller	H10890N meter x MIP	☐
3/4" - 2"	Mueller	H10891N meter nut x MIP	☐
1/2" - 1"	Mueller	H10896N meter x MIP	☐
3/4" - 1"	Mueller	H14201N meter swivel nut x CTS	☐
5/8" - 1"	Cambridge Brass	417NL-TXBX meter swivel nut x CTS	☐

SIZE FURNISHED:

Inlet Size: _____ Outlet Size: _____

COMMENTS: _____

Approved by: MDWASD Departmental Standards, Specifications & Products Committee

Revision History:

5-09-2018 – Added Cambridge Brass; Added Product Description to all Couplings.

3-28-2022 – Added size 1½" to A.Y. McDonald, Model 7611-55 x.

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MIAMI-DADE
COUNTY

Sheet Number: 8.4

Product Specifications

Miami-Dade Water & Sewer Department
Address: 3071 SW 38th Ave, Miami, FL 33146
Phone: (305) 665-7477

Water Services – Curb Stops



Minimum Standards

- AWWA C800
- MDWASD Specifications: 15065

Other Requirements

- ANSI/NSF Standard 61
- No Lead – All brass components shall be marked “NL”
- Ball Style Curb Stops 300 psi rated

Applications

- Water

PRE-APPROVED MANUFACTURER

- | | |
|------------------|--------------------|
| 1) A.Y. McDonald | 3) Mueller |
| 2) Ford | 4) Cambridge Brass |

Issue Date:

4/4/2016

Revised Date:

5/09/2018

APPROVED PRODUCTS / MODELS

SIZE	MANUFACTURER	MODEL	SUBMITTED
2"	A.Y. McDonald	74606B-44 2 PVC Comp. x FNPT	☐
1/2 x 5/8 x 1/2 - 2 1/2 x 2 x 2 1/2	A.Y. McDonald	76101 FNPT x FNPT	☐
1/2 x 5/8 x 1/2 - 2 1/2 x 2 x 2 1/2	A.Y. McDonald	76101W FNPT x FNPT with lockwing	☐
3/4 x 5/8 x 3/4 - 2"	A.Y. McDonald	76102-22 CTS x FNPT	☐
3/4 x 5/8 x 3/4 - 2"	A.Y. McDonald	76102WG grip joint CTS x FIP	☐
3/4 x 5/8 x 3/4 - 2"	A.Y. McDonald	76100-22 CTS x CTS	☐
3/4"-2"	A.Y. McDonald	76100-44 PVC inlet and outlet	☐
3/4"-2"	A.Y. McDonald	76102W copper flare x FNPT	☐
1 1/2" - 2"	Ford	B11-xxx-NL FIP x FIP	☐
3/4" - 2 1/2"	Ford	B11-xxxW-NL FIP x FIP with lockwing	☒
2"	Ford	B41-xxx-NL CTS inlet x FIP outlet	☐
2"	Ford	B41-xxxW-G-NL grip joint CTS x FIP	☐
3/4" - 1 1/4"	Ford	B44-xxx-NL CTS x CTS	☐
1 1/2" - 2"	Ford	B77-xxx-NL PVC inlet and outlet	☐
3/4"-1"	Ford	B21-xxxW-NL copper flare inlet x FIP outlet	☐
2"	Mueller	B20200N	☐
3/4"-2"	Cambridge	202NL-FxFx FIP x FIP	☐
3/4"-2"	Cambridge	202NL-FxFx FIP x FIP with lockwing	☐
3/4"-2"	Cambridge	202NL BxFx CTS inlet x FIP outlet	☐
3/4"-2"	Cambridge	202NL-BxBx CTS x CTS	☐

3/4"-2"	Cambridge	202NL-PJxPJx PVC inlet and outlet	☐
3/4"-1"	Cambridge	212NL-CxFx copper flare inlet x FIP outlet	☐
SIZE FURNISHED:			
Inlet Size: _____		Outlet Size: _____	
COMMENTS: _____			

Approved by: MDWASD Departmental Standards, Specifications, and Product Committee			
Revision History:			
5-09-2018 – Added Cambridge Brass; Added Product Description for Curb Stops.			

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MIAMI-DADE
COUNTY

Sheet Number: 8.6

Product Specifications

Miami-Dade Water & Sewer Department
Address: 3071 SW 38th Ave, Miami, FL 33146
Phone: (305) 665-7477

Service Fittings & Accessories



Minimum Standards

- AWWA C800, C901
- ASTM B62
- ANSI B-16.18, B-16.22
- MDWASD Specifications: 15065

Other Requirements

- ANSI/NSF Standard 61
- No Lead – All brass components shall be marked “NL”

For Copper Fittings:

- Cast Bronze Solder Joint
- Wrought Copper Solder Joint

Applications

- Water

PRE-APPROVED MANUFACTURER

- | | |
|------------------|--------------------|
| 1) A.Y. McDonald | 5) Merit Brass |
| 2) Ford | 6) Cambridge Brass |
| 3) BMI | 7) Matco-Norca |
| 4) Mueller | |

Issue Date:

4/4/2016

Revised Date:

11/29/2018

APPROVED PRODUCTS / MODELS

SIZE	MANUFACTURER	MODEL	SUBMITTED
3/4" - 2"	A.Y. McDonald	74761-44	☐
1/2" - 2 1/2"	A.Y. McDonald	74753-22 (CTS x MNPT Adapter)	☐
1" x 3/4" x 7 1/2"	A.Y. McDonald	709U2BW (CTS x meter swivel nut)	☐
3/4" - 2"	A.Y. McDonald	6137 (SS Inserts for CTS Tubing)	☐
1" x 3/4" x 7.5"	A.Y. McDonald	708U2M	☐
1/2" - 2"	A.Y. McDonald	Brass threaded fittings	☐
1 1/4" - 6"	BMI	125# LEAD FREE CAST BRONZE THREADED FITTINGS	☒
1/8" - 4"	BMI	RED BRASS PIPE NIPPLES	☒
5/8" - 1"	Ford	Axx-NL Extended Body Style	☐
2" x 2"	Ford	QT67 style	☐
3/4" - 2"	Ford	Insert-xx style	☐
1"	Ford	KV23-444W-NL	☐
3/4"-1" x 5/8 or 3/4 x 7.5"	Ford	UV23-42W-NL	☐
3/4"-1-1/2" x 7.5"	Ford	UVB43-42WNL	☐
3/4" - 2"	Ford	U48-xx-xx-NL	☐
1/2" - 2"	Mueller	H-10033N (threaded fitting)	☐
1" x 3/4"	Mueller	U-Branch P15363 (dual meters)	☐
1"	Mueller	Pack Joint Connection (CTS) P-15428N	☐

2"	Mueller	Pack Joint Connection (IPS) V-15440N	☐
1/8" - 4"	Merit Brass	125# BRASS FITTINGS	☐
1/8" - 4"	Merit Brass	RED BRASS PIPE NIPPLES	☐
3/4" - 2"	Cambridge Brass	117NL-BxMx (Pack Joint CTS x MIP Adapter)	☐
1"X5/8"or3/4"	Cambridge Brass	234NL-Seies (U-branch with meter valves)	☐
3/4" - 2"	Cambridge Brass	86-X (SS Inserts for CTS Tubing)	☐
1"X3/4"X7.5	Cambridge Brass	172NL-B4M37500 (u-branch)	☐
3/4" - 1"	Cambridge Brass	105NL-PJxPJx (1/2" & 3/4") elbow coupling Pack Joint for PVC	☐
1/8" - 4"	Matco-Norca	125# Brass Pipe Fittings and Nipples	☐

SIZE FURNISHED:

☐ 1/2"	☐ 1 1/2"
☐ 3/4"	☐ 2"
☐ 1"	☐ 2 1/2"
☐ 1 1/4"	☐ Other

COMMENTS: _____

Approved by: MDWASD Departmental Standards, Specifications, and Product Committee

Revision History:
5-09-2018 - Added Cambridge Brass; 11-29-2018 Added Matco-Norca.



Sheet Number: 9.0

Product Specifications

Miami-Dade Water & Sewer Department
Address: 3071 SW 38th Ave, Miami, FL 33146
Phone: (305) 665-7477
Email: WASD-STANDARDS@miamidade.gov

Fire Hydrants



Minimum Standards

- AWWA C502
- MDWASD Specification Sections: 33 14 00 (15060) and 40 05 81.13 (15330)

Other Requirements

- Color: Chrome Yellow

Applications

- Water

PRE-APPROVED MANUFACTURER

- | | |
|-------------------------------------|----------------------|
| 1) American (American Flow Control) | 2) Clow |
| 3) Kennedy | 4) Mueller |
| 5) American AVK Company | 6) M&H Valve Company |

Issue Date:

4/4/2016

Revised Date:

12/19/2022

APPROVED PRODUCTS / MODELS

SIZE	MANUFACTURER	MODEL	SUBMITTED
5¼"	American (American Flow Control)	American-Darling B-84-B-5	☐
5¼"	Clow	Medallion #F2545	☒
5¼"	Kennedy	K-81-MD (DWG #80783 MD)	☐
5¼"	Mueller	A-423 Super Centurion	☐
5¼"	American AVK Company	AVK Series 2780 Nostalgic Hydrant	☐
5¼"	M&H Valve Company	129 Fire Hydrant	☐
			☐



MIAMI-DADE COUNTY FIRE HYDRANT



CITY OF MIAMI FIRE HYDRANT

COMMENTS:

APPROVED PRODUCTS / MODELS

SIZE	MANUFACTURER	MODEL	SUBMITTED
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Approved by: MDWASD Departmental Standards, Specifications and Products Committee

Revision History:

12-19-2022 – Added American AVK Series 2780 Nostalgic Hydrant and M&H 129 Fire Hydrant



Sheet Number: 10.4

Product Specifications

Miami-Dade Water & Sewer Department
Address: 3071 SW 38th Ave, Miami, FL 33146
Phone: (305) 665-7477
Email: WASD-STANDARDS@miamidade.gov

Miscellaneous- Meter Boxes, Covers & Valve Boxes



Minimum Standards

- ASTM C858, C31, C39, C192
- ASTM A36, A48 Class 35 B gray iron
- ASSHTO M306 Loading
- MDWASD Specifications: Sections 05 56 00 (05550), 33 05 61 (02536)

Other Requirements

- Manhole frames and covers shall be Department Type "A" with roadway cover
- Valve Boxes and Covers for Sewer application shall be Department No. 53, in accordance with Standard Details. Sewer Valve Boxes shall be cast labeled with letter "S"
- Valve Boxes and Covers for Water application shall be Department #2 & #3 in accordance with Standard Details. Water Valve Boxes shall be cast labeled with letter "W"
- Galvanized Cover required with Readers
- NSF61/ANSI for potable water applications

Applications

- Water and Sewer

PRE-APPROVED MANUFACTURER

- | | | |
|-----------------------------|---------------------------|----------------------------------|
| 1) Brooks Products | 5) U.S.F. | 9) Pamrex |
| 2) Central Pipe & Supply | 6) Star Pipe Products | 10) Trumbull Manufacturing, Inc. |
| 3) Circle Manufacturing Co. | 7) East Jordan Iron Works | |
| 4) Oldcastle Precast | 8) TJ Precast | |

Issue Date:

4-4-2016

Revised Date:

10-19-2023

APPROVED PRODUCTS / MODELS

DIMENSIONS	MANUFACTURER	MODEL	APPLICATION	SUBMITTED
-	Brooks Products	Series 700	Meter Vault	☒
4", 6" 8"	Central Pipe & Supply	Cast Iron Clean Out with Brass Plug	Sewer Cleanout	☐
4" - 10"	CIRCLE MANUFACTURING CO.	No Hub Cleanout	Sewer Cleanout	☒
For 1½" water meter	Oldcastle Precast	Series 38 (38-H4T CI HD)	Meter Box	☒
-	Oldcastle Precast	Series 700 Meter Vault (MV 700)	Meter Vault	☐
18" x 20" x 12"	Oldcastle Precast	MV Dual Meter Box	Dual Meter Box	☒
2' x 4'	U.S.F.	Galvanized Steel	Cover	☐
4' x 4'	U.S.F.	Galvanized Steel	Cover	☐
22¾"	U.S.F.	310 Ring & A Cover	Manhole Ring & Cover	☐
8½"	U.S.F.	7615 Ring & FC Cover	Valve Box No. 2	☒
13¼"	U.S.F.	7630 Ring & FD Cover	Valve Box No. 3	☐
7¼"	U.S.F.	7605 Ring & FB Cover	Valve Box No. 52	☐
13¼"	U.S.F.	7635 Ring & FJ Cover	Sewer Cleanout No. 53	☐
13¼"	U.S.F.	7620 Ring & FD Cover	Cleanout Ring & Cover	☐
14"	U.S.F.	7622 Ring & FF Cover	Cleanout Ring & Cover	☐

23¼"	U.S.F.	7715 Pull Box Cover	Pull Box Cover	☒
16½"	U.S.F.	7700-FQ	Dual Meter Box Cover	☐
26"	U.S.F.	924 Ring & US Cover	Hinged MH Frame and Cover to be used only subject to written approval from WASD	☐
8½"	Star Pipe Products	VBM7615W	No. 2 Valve Box	☐
13¼"	Star Pipe Products	VBM76130W	No. 3 Valve Box	☐
7¼"	Star Pipe Products	VBM7605S	No. 52 Valve Box	☐
13¼"	Star Pipe Products	VBM7635S	No. 53 Valve Box	☐
13-inch hexagon x 16-inch deep	Oldcastle Precast/Ebaa Iron	MSCO 3, Polyethylene Box and Ductile iron cover	Sewer Cleanouts in grass areas & driveways	☐
8½"	East Jordan Iron Works	1552Z, 1552A	(No. 2 Valve Box)	☐
13¼"	East Jordan Iron Works	1553Z, 1553A	(No. 3 Valve Box)	☐
7¼"	East Jordan Iron Works	1551Z, 1551A	(No. 52 Valve Box)	☐
13¼"	East Jordan Iron Works	1556Z, 1556A	(No. 53 Valve Box)	☐
22¾"	East Jordan Iron Works	08107252A01 – Standard MH	Manhole Ring & Cover	☐
24"	East Jordan Iron Works	Hinged Manhole Frame and Cover for Shallow ARV's	Hinged Manhole Frame and Cover (domestic)	☐
24"	East Jordan Iron Works	Storm Surge Access MH Ring and Cover Series1032	For areas subject flooding with exfiltration	☐
24x24 to 48x96	East Jordan Iron Works	Heavy Duty Ductile Iron Hatch (Airport Rated Extra Heavy Series)	Ductile Iron Hinged Hatch with lift assist for various applications subject to Department Approval.	☐
2", 4", 6", 8" and 10"	TJ Precast	Custom Fabricated Meter Boxes and Galvanized Steel Covers	Custom Precast Box and Covers for Meters 2", 4", 6", 8" and 10" fabricated per WASD details posted for Turbine and Sewer meters	☐
24"	Pamrex – imported MH frame and cover	24-600 Hinged Manhole Frame and Cover for Shallow ARV's	Hinged MH Frame and Cover to be used only subject to written approval from WASD	☐
26"	Trumbull Manufacturing, Inc.	367-5705 Frame & 367-5701 Sanitary Sewer Lid	Bolt Down Frame and Lid - to be used only subject to written approval from WASD	☐

COMMENTS: _____

Approved by: MDWASD Departmental Standards, Specifications, and Products Committee

Revision History:

9-1-2023 – Added East Jordan Iron Works hinged frame and cover (domestic manufacture); storm surge MH; and ductile iron hatch;

5-10-2022 – Added Trumbull Bolt Down Frame and Lid;

10-17-2019 – Added U.S.F. 924-US hinged frame and cover;

11-29-2018 – Added East Jordan Iron Works; Added TJ Precast custom meter boxes;

1-22-2013 – Added Pamrex hinged frame and cover;