



Community Development Department – Engineering Division
10770 West Oakland Park Boulevard, Sunrise, FL 33351
P: 954.746.3270 F: 954.746.3287

SHOP DRAWING SUBMITTALS & APPROVED UTILITY PRODUCTS LIST

The Underground Utility Contractor shall submit the following items separately for approval by the City prior to the scheduling of the Preconstruction Meeting. The submittal package(s) shall be submitted to the attention of the Plans Processing Technician, Kathy Crisci.

1. **One** (1) set of the following attached “City of Sunrise Approved Product List” pages 1 through 14 to be submitted for the materials on each project. *The First page shall bear the signature of the Underground Contractor and Engineer of Record. The subsequent pages shall bear the initials of the Underground Contractor and Engineer of Record on bottom right corner of every page. It must bear the original signature and initials. Only one single brand name will be circled in every block of items that will be installed on the project. Do not circle multiple brand names under any single item. Circle “Not Applicable” if that block item is not going to be used.* For all items not listed on the “City of Sunrise Approved Products List”, the Contractor shall submit **one** (1) original set of standard shop drawings or manufacturer’s catalogs with the model number or type of the item circled or otherwise designated. The City shall have the right to reject any product not listed within the “City of Sunrise Approved Product List”. *The submittal shall bear the signed approval of the Underground Utility Contractor and the Engineer of Record.*
2. **One** (1) original complete set of detailed sanitary sewer shop drawings for all sanitary manholes shall be *submitted bearing the stamped approval and initials/signature of the Underground Utility Contractor and the Engineer of Record on every sheet.*
3. **One** (1) original complete of detailed wet well shop drawings and a complete set of the lift station pump sizes and electrical shop drawings are also required as applicable and shall be *submitted bearing the stamped approval and initials/signature of the Underground Utility Contractor and the Engineer of Record on every sheet.*
4. **One** (1) original complete set of detailed drainage shop drawings for all drainage pipe, pollution baffles, filter fabric, catch basins, storm manholes, control structures and headwalls, including castings shall be *submitted bearing the stamped approval and initials/signature of the Underground Utility Contractor and the Engineer of Record on every sheet.*

Each of the above listed items shall be submitted separately for approval and must be accompanied by a letter of transmittal indicating the contents of the package, project name, project location, contact person and contact information (email, phone, address, company, etc.). The separate packages can be included on one transmittal.

No water, sewer, or drainage construction permits will be issued by the City of Sunrise until the shop drawings and product list for all items have been approved by the Community Development Department, Engineering Division and a Preconstruction Meeting has been held.



Community Development Department – Engineering Division
10770 West Oakland Park Boulevard, Sunrise, FL 33351
P: 954.746.3270 F: 954.746.3287

APPROVED PRODUCTS LIST FOR WATER DISTRIBUTION/SANITARY SEWER UTILITY CONSTRUCTION

Effective November 2011

ALL ITEMS TO BE MANUFACTURED IN THE
UNITED STATES

Project Name: _____

Concurrence of Underground
Utility Contractor:

Signature Date

Print Name

Company

Concurrence of the Engineer:

Signature Date

Print Name

Firm

By signature above, the Underground Utility Contractor for referenced project agrees to adhere to the following product specifications. It is understood that the Engineering Division of the Community Development Department will reject construction not in accordance with this document.

Basis: The following products and specifications have been found to be acceptable and/or desirable in their respective groups. Shop drawings need not be submitted for approval if the contractor uses products on this list. Any substitutions or changes for these products must be submitted to the City of Sunrise, Community Development Department, Engineering Division for approval prior to their use. For all items not listed on the “City of Sunrise Approved Products List”, the Contractor shall submit **one** (1) original set of standard shop drawings or manufacturer’s catalogs with the model number or type of the item circled or otherwise designated. The City shall have the right to reject any product not listed within the “City of Sunrise Approved Product List”.

WATER DISTRIBUTION SECTION

WATER DISTRIBUTION PVC PIPE

Brand Name	Model Type	Specifications and Requirements
J-M Pipe	Push-On Pipe	PVC shall conform to ANSI/AWWA C900-07: <ul style="list-style-type: none"> • Class 305 DR14 for 4" and 6" • Class 235 DR18 for 8" through 12" • PVC 14" and up shall conform to ANSI/AWWA C905 DR25 Pipe shall be blue in color
Diamond		
North American (NAPCO)		
National Pipe & Plastics		
Not Applicable		

WATER DISTRIBUTION DUCTILE PIPE

Brand Name	Model Type	Specifications and Requirements
American Cast Iron Co.	Push-on Pipe	Conforms to ANSI/AWWA C.150/A21.50 and C151/A21.51 with Interior Cement lining and seal coating ANSI/AWWA C104/A21.4 and Exterior Asphaltic Coating <ul style="list-style-type: none"> • Class 52 or better for 4" and 6" • Pressure class 350 for 8" through 24" • Pressure class 250 for 30" through 64" • Class 50 or higher for 8" and up Pipe shall be color coded per FAC 62-555.320
U.S. Pipe		
McWane/Clow		
Griffin Pipe		
Not Applicable		

WATER DISTRIBUTION LOCATION WIRE AND TAPE

Brand Name	Model Type	Specifications and Requirements
Any Manufacturer	Blue coated wire	Wire shall be 14 gauge multiple stranded
	Location tape	2" wide for water main installation
Not Applicable		

WATER DISTRIBUTION PIPE FITTINGS

Brand Name	Model Type	Specifications and Requirements
American Cast Iron Pipe	Full Body	Mechanical joint full body ductile per ANSI/AWWA C110/A21.10, cement lined and seal coated per ANSI/AWWA C104/A21.4
Tyler/Union/McWane		
Star Pipe Products		
U.S. Pipe		
Not Applicable		

WATER DISTRIBUTION PIPE RESTRAINTS – Fittings & Valves

Brand Name	Model Type	Specifications and Requirements
Ebba Iron	DIP – Megalug – 1100 Series	For DIP @ MJ connections – Fittings and Valves
	PVC – Megalug 2000 PV Series	For PVC @ MJ connections – Fittings and Valves
Sigma	DIP – One-Lok D-SLDE (Domestic)	For DIP @ MJ connections – Fittings and Valves
	PVC – One-Lok D-SLCE (Domestic)	For PVC @ MJ connections – Fittings and Valves
Star Pipe Products	DIP-Stargrip series 3000 (Domestic)	For DIP @ MJ connections – Fittings and Valves
	PVC-Stargrip series 4000 (Domestic)	For PVC @ MJ connections – Fittings and Valves
Tyler Union	DIP – TufGrip – 1000 Series (Domestic)	For DIP @ MJ connections – Fittings and Valves
	PVC- TufGrip – 2000 Series (Domestic)	For PVC @ MJ connections – Fittings and Valves
Not Applicable		

WATER DISTRIBUTION PIPE RESTRAINTS – Bell & 2nd MJ Restraint

Brand Name	Model Type	Specifications and Requirements
Ebba Iron	Series 1500TD	For bell and second MJ restraint
Star Pipe Products	1100 Series (Domestic)	
Ford/Uniflange	Series 1390-CU	
Not Applicable		

WATER DISTRIBUTION PIPE RESTRAINTS – Restraining Gaskets

Brand Name	Model Type	Specifications and Requirements
U.S. Pipe/McWane	Field LOC gasket	To be used for ductile pipe through a casing only
American Cast Iron Pipe	Fast grip gasket	
Griffin Pipe Products	Talon RJ gasket	
Not Applicable		

WATER DISTRIBUTION TAPPING SLEEVES – Mechanical Joint

Brand Name	Model Type	Specifications and Requirements
American Flow Control	2800 series	Mechanical joint tapping sleeve for the tapping of Cast Iron, Ductile and C-900 PVC pipe
Mueller	H615	
Tyler/Union/McWane	MJ Cast Iron 5-149-CI	
Not Applicable		

WATER DISTRIBUTION TAPPING SLEEVES – Stainless Steel

Brand Name	Model Type	Specifications and Requirements
Mueller	H-304SS	Full Stainless Steel with wrap around gasket for the tapping of Asbestos Cement and Class 160-200 SDR 26-21 PVC (SCH 40 OD) pipe
JCM Industries	JCM 432	
Smith-Blair	664-665	
Ford Meter Box Co.	FTSS Series	
Not Applicable		

WATER DISTRIBUTION TAPPING SLEEVES – Epoxy Coated

Brand Name	Model Type	Specifications and Requirements
JCM Industries	JCM 412	Epoxy coated with stainless steel bolts to be pre-approved by City Engineering Inspector for use
Smith-Blair	622	
Not Applicable		

WATER DISTRIBUTION TAPPING VALVES

Brand Name	Model Type	Specifications and Requirements
American Flow Control	2500 series	Conforms to ANSI/AWWA C509 or C515 Flange by mechanical joint with centering ring and stainless steel flange accessories – resilient wedge
Clow/McWane	F-6114	
Mueller	T2360	
Not Applicable		

WATER DISTRIBUTION BUTTERFLY VALVES

Brand Name	Model Type	Specifications and Requirements
Mueller	Lineseal III	Conforms to ANSI/ASTM C504
Pratt	Groundhog	
Dezurik	BAW	
Clow/M&H Valve/McWane	4500 Series	
Not Applicable		

WATER DISTRIBUTION GATE VALVES

Brand Name	Model Type	Specifications and Requirements
American Flow Products	2500 series	Mechanical joint; conforms to ANSI/AWWA C509 or C515 Resilient seat or resilient wedge non rising stem
Mueller	A-2360	
M&H/McWane	Style 4067	
Kennedy Valve/McWane	Ken-seal-FW	
Clow/McWane	F-6100 resilient wedge	
Not Applicable		

WATER DISTRIBUTION AIR RELEASE VALVES

Brand Name	Model Type	Specifications and Requirements
Val-matic	45	Stainless steel trim AWWA C-512 Meeting application and type of main
Crispin	PL-20A	
DeZurik/Apco	200-A	
Empire/Golden-Anderson	920	
Not Applicable		

WATER DISTRIBUTION VALVE BOX AND COVER

Brand Name	Model Type	Specifications and Requirements
Tyler/Union/McWane	6850 Series 461-S Type	Screw Type with Cast iron cover marked "WATER"
Bingham Taylor	4905 Series	
Not Applicable		

WATER DISTRIBUTION CAST IRON BLOW OFF BOX

Brand Name	Model Type	Specifications and Requirements
U.S. Foundry	USF #7630	Raised "W" on lid
Not Applicable		

FIRE HYDRANTS

Brand Name	Model Type	Specifications and Requirements
Mueller	Centurion #A-423	Breakaway traffic type with 5-1/4" minimum main valve opening. Factory yellow. Bury to suit. No drain vents or plugs. No extensions will be allowed.
American Flow Control	B84B 5-1/4"	
Clow/McWane	Medallion F-2545	
Kennedy Valve/McWane	Guardian K-81-A	
American Flow Control	B84B 6"	If required by project specifications
Not Applicable		

WATER DISTRIBUTION BRASS ID TAGS

Brand Name	Model Type	Specifications and Requirements
Wager Company	Bronze ID Disk	Permanent tags required at the valve box and fittings
Not Applicable		

WATER DISTRIBUTION CASING SPACERS AND END SEALS

Brand Name	Model Type	Specifications and Requirements
Cascade	Style CCS Style CCES	Casing spacers to be stainless steel for pipe to be positioned in center of casing. End seals to be neoprene with stainless steel bands.
PSI	Spacer S12G-2 End Seal Model "S"	
Not Applicable		

SERVICE SADDLE

Brand Name	Model Type	Specifications and Requirements
Ford Meter Box Co.	202B	Bronze saddle with brass bales Iron pipe thread
Mueller	BR2B Series	
AY McDonald	#3826	
Not Applicable		

CORPORATION STOPS

Brand Name	Model Type	Specifications and Requirements
Ford Meter Box Co.	FB1100-I.P.	Brass ball valve type - conforms to ANSI/AWWA C800 Iron pipe threads by PJ/110 Compression
Mueller	B25028-I.P.	
AY McDonald	4704B-22-I.P.	
Not Applicable		

WATER SERVICE LINE POLYETHYLENE TUBING

Brand Name	Model Type	Specifications and Requirements
Performance Pipe/Chevron Phillips	Driscoplex 5100 Black with blue stripes and blue writing	P.E. 3408/4710-DR-9 AWWA C-901 ASTM D2737
Endot	Endopure- Blue with white or black writing	
Vanguard	Bruiser HDPE –Blue with white or black	
Charter Plastics	Blue Ice-Blue with white or black writing	
Not Applicable		

WATER SERVICE CASING PIPE

Brand Name	Model Type	Specifications and Requirements
Charlotte	Schedule 40 PVC Pipe	ASTM D1785/D2665
National Pipe and Plastics		
North American Pipe		
J-M Pipe		
Not Applicable		

CURB STOPS

Brand Name	Model Type	Specifications and Requirements
AY McDonald	4602B-22 IP	Lock wing angle ball valve type Brass - conforms to ANSI/AWWA C800
Mueller	300 Series	
Ford Meter Box Co.	BA-43 Series BFA-43 Series	
Not Applicable		

BRANCH VALVE ASSEMBLIES

Brand Name	Model Type	Specifications and Requirements
Mueller	H-15363	1 1/2" compression X M.I.P. with lock wing angle ball curb stops
AY McDonald	O9U2EW	
Ford Meter Box Co.	UVB43-62W	
Not Applicable		

SERVICE FITTINGS, COUPLINGS, CLAMPS & HARDWARE

Brand Name	Model Type	Specifications and Requirements
Mueller	110 Conductive	Compression couplings for Polyethylene tubing. Not allowed to be used to extend tubing lengths.
Ford Meter Co.	C14;C84;C44	
AY McDonald	4753-22,4754-22 and 4758-22	
Not Applicable		

WATER METERS LARGER THAN 2-INCH *(Meter size and type will be noted on plans)*

Brand Name	Model Type	Specifications and Requirements
Neptune	HP Turbine	Turbine meters over 2" in size
Sensus	OMNI C-2	Compound meters over 2" in size
Not Applicable		

Note: City to supply meters and meter boxes for meters 2-inch in size and smaller.

SANITARY SEWER SECTION

GRAVITY SANITARY SEWER PVC PIPE *(Circle appropriate brand & specifications)*

Brand Name	Model Type	Specifications and Requirements
J-M Pipe	Push-on Pipe	PVC Pipe shall conform to: <ul style="list-style-type: none"> • ASTM D3034 SDR 26 for 4" through 15" • ASTM F679 PS115 for 18" through 48" Heavy Wall Pipe Pipe shall be green in color
North American (NAPCO)		
National Pipe & Plastics		
Diamond		
J-M Pipe	Push-on Pipe	PVC Pipe shall conform to: <ul style="list-style-type: none"> • ANSI/AWWA C900-07: Class 235 DR18 for 4" through 12" • PVC 14" and up shall conform to ANSI/AWWA C905 DR25 Pipe shall be green in color
North American (NAPCO)		
National Pipe & Plastics		
Diamond		
Not Applicable		

SANITARY SEWER FORCE MAIN PVC PIPE

Brand Name	Model Type	Specifications and Requirements
J-M Pipe	Push-on Pipe	PVC shall conform to ANSI/AWWA C900-07: <ul style="list-style-type: none"> • Class 305 DR14 for 4" through 12" Pipe shall be green in color
North American (NAPCO)		
National Pipe & Plastics		
Diamond		
Not Applicable		

GRAVITY SANITARY SEWER AND FORCE MAIN DUCTILE PIPE

Brand Name	Model Type	Specifications and Requirements
American Cast Iron Pipe	Push-on Pipe	Conforms to ASTM A716/A746 Ceramic Epoxy Lined – Protecto 401 (40 mils); asphalt coated on the outside <ul style="list-style-type: none"> • Pressure Class 350 for 4" through 24" <p style="text-align: center;">OR</p> <ul style="list-style-type: none"> • Class 50 or higher for 4" through 24" Pipe shall be green stripped
McWane/Clow		
U.S. Pipe		
Griffin Pipe		
Not Applicable		

GRAVITY SANITARY SEWER PVC PIPE FITTINGS (Circle appropriate brand & specs)

Brand Name	Model Type	Specifications and Requirements
Multi Fittings	Push - on	PVC Pipe shall conform to: <ul style="list-style-type: none"> • ASTM D3034 SDR 26 for 4" through 15" • ASTM F679 PS115 for 18" through 48" Heavy Wall
Plastic Trends		
Harco		
Multi Fittings	Push - on	PVC Pipe shall conform to: <ul style="list-style-type: none"> • C900 DR18 for 4" through 12" • C905 DR25 for 14" and up Non-pressure (gravity sewer only)
Plastic Trends		
Harco		
Not Applicable		

SANITARY SEWER DUCTILE PIPE FITTINGS

Brand Name	Model Type	Specifications and Requirements
U.S. Pipe	Full body	Mechanical joint full body ductile per ANSI/AWWA C110/A21.10, Conforms to ASTM A716/A746 Ceramic Epoxy Lined – Protecto 401 (40 mils); asphalt coated on the outside
American Cast Iron Pipe		
Star Pipe Products		
Tyler/Union Foundry/McWane		
Not Applicable		

SANITARY SEWER FORCE MAIN PIPE RESTRAINTS – Fittings & Valves

Brand Name	Model Type	Specifications and Requirements
Ebba Iron	DIP – Megalug – 1100 Series	For DIP @ MJ connections – Fittings and Valves
	PVC – Megalug 2000 PV Series	For PVC @ MJ connections – Fittings and Valves
Sigma	DIP – One-Lok D-SLDE (Domestic)	For DIP @ MJ connections – Fittings and Valves
	PVC – One-Lok D-SLCE (Domestic)	For PVC @ MJ connections – Fittings and Valves
Star Pipe Products	DIP-Stargrip series 3000 (Domestic)	For DIP @ MJ connections – Fittings and Valves
	PVC-Stargrip series 4000 (Domestic)	For PVC @ MJ connections – Fittings and Valves
Tyler Union	DIP – TufGrip – 1000 Series (Domestic)	For DIP @ MJ connections – Fittings and Valves
	PVC- TufGrip – 2000 Series (Domestic)	For PVC @ MJ connections – Fittings and Valves
Not Applicable		

SANITARY SEWER FORCE MAIN PIPE RESTRAINTS – Bell & 2nd MJ Restraint

Brand Name	Model Type	Specifications and Requirements
Ebba Iron	Series 1500TD	For bell and second MJ restraint
Star Pipe Products	1100 Series (Domestic)	
Ford/Uniflange	Series 1390-CU	
Not Applicable		

SANITARY SEWER FORCE MAIN PIPE RESTRAINTS – Restraining Gaskets

Brand Name	Model Type	Specifications and Requirements
U.S. Pipe/McWane	Field LOC gasket	To be used for ductile pipe through a casing only
American Cast Iron Pipe	Fast grip gasket	
Griffin Pipe Products	Talon RJ gasket	
Not Applicable		

SANITARY SEWER FORCE MAIN TAPPING SLEEVES – Mechanical Joint

Brand Name	Model Type	Specifications and Requirements
American Flow Control	2800 series	Mechanical joint tapping sleeve for the tapping of Cast Iron, Ductile and C-900 PVC pipe
Mueller	H615	
Tyler/Union/McWane	MJ Cast Iron 5-149-CI	
Not Applicable		

SANITARY SEWER FORCE MAIN TAPPING SLEEVES – Stainless Steel

Brand Name	Model Type	Specifications and Requirements
Mueller	H-304SS	Full Stainless Steel with wrap around gasket for the tapping of Asbestos Cement and Class 160-200 SDR 26-21 PVC (SCH 40 OD) pipe
JCM Industries	JCM 432	
Smith-Blair	665	
Not Applicable		

SANITARY SEWER FORCE MAIN TAPPING SLEEVES – Epoxy Coated

Brand Name	Model Type	Specifications and Requirements
JCM Industries	JCM 412	Epoxy coated with stainless steel bolts to be pre-approved by City Engineering Inspector for use
Smith-Blair	622	
Not Applicable		

SANITARY SEWER FORCE MAIN TAPPING VALVES

Brand Name	Model Type	Specifications and Requirements
American Flow Control	2500 series	Conforms to ANSI/AWWA C509 or C515 Flange by mechanical joint with centering ring and Stainless Steel flange accessories – resilient wedge
Clow/McWane	F-6114	
Mueller	T2360	
Not Applicable		

SANITARY SEWER FORCE MAIN GATE VALVES

Brand Name	Model Type	Specifications and Requirements
American Flow Products	2500 series	Mechanical joint; conforms to ANSI/AWWA C509 or C515 Resilient seat or resilient wedge non rising stem
Mueller	A-2360	
M&H/McWane	Style 4067	
Kennedy Valve/McWane	Ken-seal-FW	
Clow/McWane	F-6100 resilient wedge	
Not Applicable		

SANITARY SEWER FORCE MAIN AIR RELEASE VALVES

Brand Name	Model Type	Specifications and Requirements
Val-matic	48	Stainless steel trim AWWA C-512 Meeting application and type of main
Crispin	SL-20(sewer)	
DeZurik/Apco	400	
Empire/Golden-Anderson	925	
Not Applicable		

SANITARY FORCE MAIN VALVE BOX AND COVER

Brand Name	Model Type	Specifications and Requirements
Tyler/Union/McWane	6850 Series 461-S Type	Screw Type with Cast iron cover marked "SEWER"
Bingham Taylor	4905 Series	
Not Applicable		

SANITARY SEWER FORCE MAIN BRASS ID TAGS

Brand Name	Model Type	Specifications and Requirements
Wager Company	Bronze ID Disk	Permanent tags required at the valve box and fittings
Not Applicable		

SANITARY SEWER PVC MANHOLE ADAPTORS

Brand Name	Model Type	Specifications and Requirements
Harco	PVC Sewer Adapter	Grouted repair coupling for connecting to existing manholes only
Not Applicable		

SANITARY SEWER CAST IN PLACE FLEXIBLE MANHOLE BOOTS

Brand Name	Model Type	Specifications and Requirements
Chardon Rubber Co./Wabtec Rubber Products	LockJoint flexible Manhole Sleeve CP-Series	Manhole boot supplied by precast company with stainless steel bands
A-LOK Products	Z-LOK F208-8	
Not Applicable		

SANITARY SEWER MANHOLE RING AND COVER

Brand Name	Model Type	Specifications and Requirements
U.S. Foundry	420-SU	Raised letters "SANITARY SEWER" & "CITY OF SUNRISE"
U.S. Foundry	420-C	Raised letters "SANITARY SEWER" Only for Manholes not Maintained by the City of Sunrise (Private)
Not Applicable		

SANITARY SEWER CLEAN OUT BOX IN ASPHALT

Brand Name	Model Type	Specifications and Requirements
U.S. Foundry	7635	Raised "S" on lid
Not Applicable		

SANITARY SEWER FORCE MAIN CASING SPACERS AND END SEALS

Brand Name	Model Type	Specifications and Requirements
Cascade	Style CCS Style CCES	Casing spacers to be stainless steel for pipe to be positioned in center of casing. End seals to be neoprene with stainless steel bands.
PSI	Spacer S12G-2 End Seal Model "S"	
Not Applicable		

SANITARY SEWER PRECAST INTERIOR MANHOLE & LIFT STATION COATING

Brand Name	Model Type	Specifications and Requirements
Madewell Products Corp.	Mainstay Composite Liner	ML-72(Half inch application) DS-5 (100 mil application)
Not Applicable		

SANITARY SEWER FORCE MAIN LOCATION WIRE AND TAPE

Brand Name	Model Type	Specifications and Requirements
Any Manufacturer	Green coated wire	Wire shall be 14 gauge multiple stranded
	Location tape	2" wide for force main installation
Not Applicable		