

City of Green Cove Springs

Approved Materials

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Note: Push on joint shown as an example only. See plans and specifications for joint type. Must be of domestic origin and have been cast and machined in the United States.

DESCRIPTION:

Ductile Iron Pipe, asphaltic coated exterior, epoxy lined or ceramic epoxy lined, 40 mil minimum, to be used only with prior approval. Marking tape must be used in this material installation. GCS does not permit 3" pipe in the GCS owned and maintained utility system.

SIZE

4" and larger

MANUFACTURER

U.S. Pipe
Clow Water Systems Co.

American Ductile Iron Pipe
Griffin Pipe Products

MODEL #

N/A

N/A

(Optional for Epoxy Lining)

N/A

N/A

Ductile Iron Pipe

REVISION DATE

07/09/18

ITEM

DUCTILE IRON PIPE

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City of Green Cove Springs

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DESCRIPTION:

DR-18, (C900) 235 PSI PVC for Force Main, conforming to ASTM D-2241, D-3139 and F-477, color coded green (no white pipe accepted) and marked on at least 2 sides with the words "FORCE MAIN" and at every 12" along barrel of pipe. Couplings shall be rubber gasketed, push-on type, conforming to ASTM D-2122.

SIZE

4" to 36"

MANUFACTURER

JM Eagle Corporation
North American Pipe
Diamond Plastics Corp.
National Pipe & Plastics, Inc.
Sanderson Pipe Corp.

MODEL #

N/A
N/A
N/A
N/A
N/A

PVC Pipe, Force Main

REVISION DATE

07/09/18

ITEM

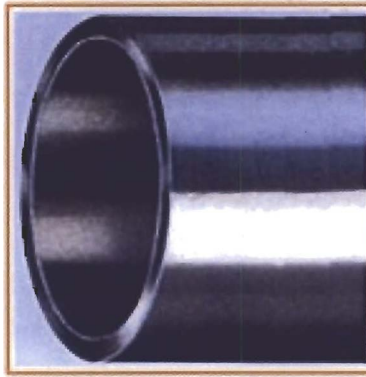
PVC PIPE, FORCE MAIN

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City of Green Cove Springs

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Note: Must be of domestic origin, and must have been cast and manufactured in the United States.

DESCRIPTION:

Steel Casing Pipe, Wall thickness (as per DOT specifications), ASTM A139, maximum yield strength of 35,000 p.s.i.

SIZE

Varies

MANUFACTURER

N/A

MODEL #

N/A

REVISION DATE

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ITEM

STEEL CASING PIPE

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Steel Casing Pipe

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: DESCRIPTION

Gravity sewer pipe, SDR-26 PVC, conforming to ASTM D-1784, ASTM D-3034, ASTM D-2412, and ASTM D-3212. Pipe shall be color coded green and clearly marked in 5 foot intervals (or less) with manufacturer's name, nominal size, cell classification, and legend. Maximum depth of gravity sewer using SDR -26 PVC, shall be less than 13 feet.

Where the depth of a gravity sewer is 13 feet or greater the pipe and fittings shall be DR-18 PVC. The pipe shall be installed with a locate warning tape placed one foot above the pipe and marked with the words "Gravity Sewer" continuously on the warning tape.

Specifications for the DR-18 PVC pipe see pages S-2 of the GCS Approved Materials Manual. Specifications for the DR-18 PVC sewer fittings see pages S-24 of the GCS Approved Materials Manual.

SIZE

4" and above

MANUFACTURER

JM Manufacturing Company, Inc.
North American Pipe Corp.
Extrusion Technologies, Inc.
Diamond Plastics Corp.
Hawk Plastics Corp.
National Pipe & Plastics, Inc.
Bristol Pipe Corp.
Sanderson Pipe Corp.
Freedom Plastics, Inc.

MODEL #

N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A

ITEM

PVC PIPE, SEWER

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PVC Pipe, Sewer

City of Green Cove Springs

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DESCRIPTION:

PVC Sch80 Pipe Force Main as per ASTM D1785, bell and spigot with marking tape. GCS does not permit 3" pipe in the GCS owned and maintained utility system.

SIZE

2" and smaller

MANUFACTURER

JM Manufacturing Company, Inc.
North American Pipe Co.
National Pipe & Plastics, Inc.
Sanderson Pipe (River City Plastics, Inc.)
Colonial Pipe
Universal 100/Accord
Charlotte Pipe & Foundry Co.

MODEL #

N/A
N/A
N/A
N/A
N/A
N/A
N/A

City of Green Cove Springs

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DESCRIPTION:

Wide Range Coupling

SIZE

4" thru 12"

MANUFACTURER

Ford Meter Box Company, Inc.
Mueller Company
JCM

MODEL #

FC2W Ultra-Flex
Max-Range Coupling
Optimum Range 242

Wide Range Coupling

REVISION DATE

07/09/18

ITEM

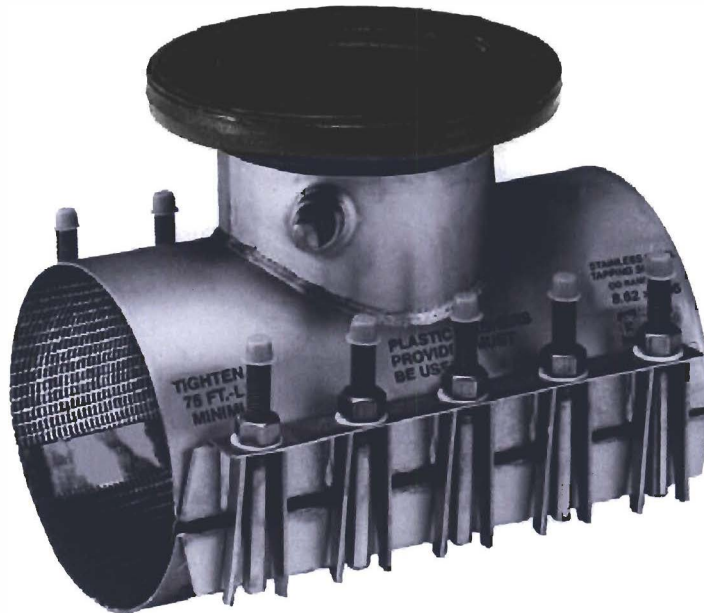
WIDE RANGE COUPLING

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City of Green Cove Springs

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Note: Must be all Stainless Steel. No dissimilar metals allowed.

DESCRIPTION:

Stainless Steel Tapping Sleeve (No Dual Range)

SIZE

4" and larger

MANUFACTURER

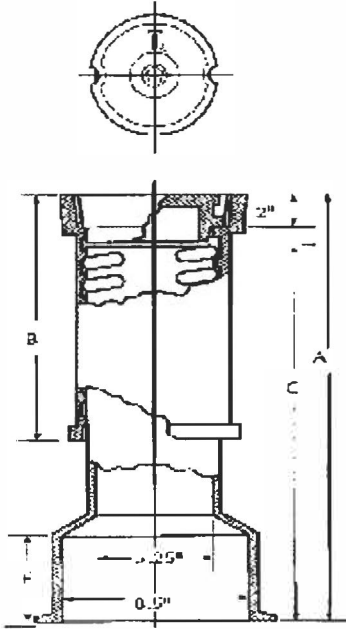
Ford Meter Box Company, Inc.
Romac Industries, Inc.
Smith Blair, Inc.
Cascade Waterworks Mfg.
Dresser
Mueller Co.
PowerSeal Pipeline Products Corp.

MODEL #

FAST Series
SST
663 & 665
CST-EX
Style 630
H304
3490MJ

City of Green Cove Springs

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Note: Must be of domestic origin and must have been cast and machined in the United States.

DESCRIPTION:

Cast Iron Screwed Valve Box and Cover, shall be non-tacky tar enamel coated, with the word "SEWER" cast into the cover.

SIZE
N/A

MANUFACTURER
Tyler Pipe (McWane, Inc.)
U.S. Foundry
Opelika Foundry (Bingham & Taylor)
PCI Fastech
Sigma Corp./Russell

MODEL #
461-S
7500
4905 (size 18)
N/A
N/A

REVISION DATE
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ITEM
CAST IRON VALVE BOX & COVER

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Cast Iron Valve Box & Cover

City of Green Cove Springs

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Note: For Ductile Iron only.

DESCRIPTION:

Mechanical Joint Retainer Gland for Ductile Iron Pipe only.

SIZE

4" and larger

MANUFACTURER

Union Foundry Co. (McWane, Inc.)
Tyler Pipe (McWane, Inc.)
American Ductile Iron Pipe
U. S. Pipe
Star Pipe Products
Star Pipe Products
Star Pipe Products (Repairs Only)
Tyler Union
Tyler Union
Tyler Union
Ebaa Iron Inc.
Smith-Blair
Ford Meter Box Company
SIP Industries

MODEL #

N/A
N/A
N/A
N/A
Series 600 MJRGHD
Series 3000
Series 3000S
Series TGD
Series 1000
Series 1500 (Dual Wedge)
Series 1100
CAM-Lock 111
UFR 1400 Dxl
EZDP08

REVISION DATE

07/09/18

ITEM

DUCTILE IRON PIPE RETAINER GLAND

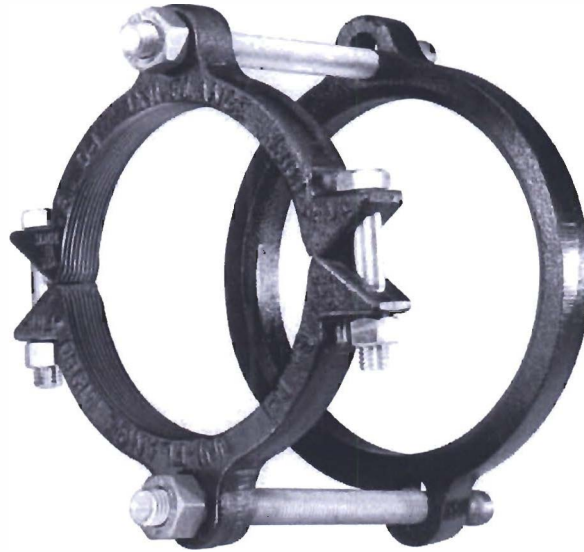
PAGE

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Ductile Iron Pipe Retainer Gland

City of Green Cove Springs

Approved Materials



DESCRIPTION:

PVC Pipe - Joint Restraining Devices.

SIZE

4" and larger

MANUFACTURER

Ford Meter Box Company, Inc.
Ford Meter Box Company, Inc.
Ford Meter Box Company, Inc.
Ebba Iron, Inc.
Star Pipe Products
Star Pipe Products
Sigma Corporation
Ebba Iron
Ebba Iron

MODEL #

Uni-Flange 1300 series
Uni-Flange 1350 series
Uni-Flange 1390 series
6500 Series
1000 Series
1100 Series
PV-Lok, PVM & PVP Series
Series 6506 PF/MJ
Series 6506

REVISION DATE

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ITEM

JOINT RESTRAINING DEVICES

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Joint Restraining Devices

City of Green Cove Springs

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Note: Must be of domestic origin and must have been cast and machined in the United States.

DESCRIPTION:

Mechanical Joint Accessory Pack

SIZE

4" and larger

MANUFACTURER

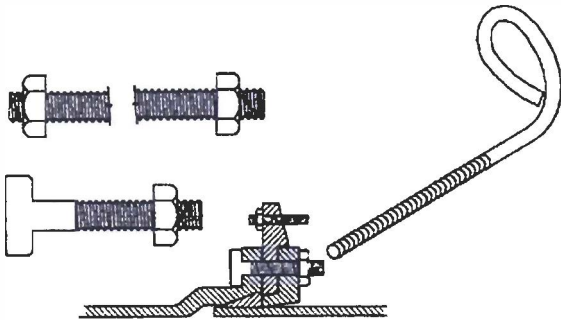
Union Foundry Co. (McWane, Inc.)
Tyler Pipe (McWane, Inc.)
American Ductile Iron Pipe
U. S. Pipe
Star Pipe Products
NAPAC, Inc. Waterworks

MODEL #

N/A
N/A
N/A
N/A
N/A
N/A

City of Green Cove Springs

Approved Materials



DESCRIPTION:
Mechanical Joint Fasteners / Tie Lugs

<u>SIZE</u>	<u>MANUFACTURER</u>	<u>MODEL #</u>
3/4"	N/A	N/A

*See specifications for all Thread Rods, Eye Bolts, Nuts and Washers

Mechanical Joint Fasteners

City of Green Cove Springs

Approved Materials



DESCRIPTION:

Flange Adapters, Ductile Iron Pipe Only.

SIZE

4" and larger

MANUFACTURER

Ford Meter Box Company, Inc.
Ford Meter Box Company, Inc.
Ford Meter Box Company, Inc.
Ebba Iron, Inc.
Ebba Iron, Inc.
Star Pipe Products
Star Pipe Products
Sigma

MODEL #

Uni-Flange 200 series
Uni-Flange 400 series
Uni-Flange 900 series
1000 Series
3500 Series
200 Series
400 Series
ZF2-ZF4 Series

REVISION DATE

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ITEM

FLANGE ADAPTOR

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Flange Adaptor

City of Green Cove Springs

Approved Materials



Note: All valves shall open by turning to the left. Mechanical Joint shown as an example only. See specifications for additional joints.

DESCRIPTION:

All gate valves including tapping valves, regardless of size shall be AWWA C-515 D.I.

Note: Any manufacturer who wishes to pour Ductile Iron into the mold of a C-509 type valve, creating a full wall D.I. valve, will be permitted to do so.

All gate valves shall be equipped with the following items: all bolts, nuts, and washers shall be stainless steel 304 or 316 grade, assembled with anti-seize compounds; the wedge shall be ductile iron; all resilient wedge material shall be EPDM rubber with the wedge fully encapsulated in a manner to prevent the rubber from separating from the metal wedge; the entire gate valve shall be fusion-bonded epoxy coated conforming to AWWA C550 and NSF 61 certified; all stems shall be stainless steel, lead free, type 304 through 430 S.S. per ASTM A276; valve shall have a 2" operating nut and open left. All gate valves 10" and larger in size shall have four bolthole slots in the upper quadrant of M.J. Flange, or supplier shall supply equivalent hardware, including eyebolts and properly shaped restraining bolts, to accomplish the same installation, as part of the gate valve cost.

SIZE

4" and larger

MANUFACTURER

American Flow Control
American Flow Control with ALPHA™ Ends
Mueller Company
Mueller Company
M&H Valve Co.
Clow Valve Co.
American AVK Company

MODEL #

2500 Series
2500 Series
2300 Series
A-2361
7000 Series
2638 Series
45 & 55 Series

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ITEM

RESILIENT SEATED GATE VALVE

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Resilient Seated Gate Valve

City of Green Cove Springs

Approved Materials



Note: Flange Joint shown as an example only. See specifications for additional joints.

DESCRIPTION:

Plug Valve, Actuator may be required to achieve 150 p.s.i. drip tight shut-off in both directions. Contact valve manufacturer for requirement. Valve shall open to the left.

SIZE

4" and larger

MANUFACTURER

Milliken Valve Co.
Milliken Valve Co.
Dezurik
Clow Valve Co.
Pratt (Henry Pratt Co.)
Pratt (Henry Pratt Co.)
Val-Matic Valve & Mfg. Co.
Val-Matic Valve & Mfg. Co.

MODEL #

600 N (MJ)
601 N (Flg.)
Fig. 118
5400 Series
551 (MJ)
583 (Flg.)
5800RN Series (Flg.)
5900RN Series (MJ)

Plug Valve

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ITEM

PLUG VALVE

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City of Green Cove Springs

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DESCRIPTION:

Cast Iron Check Valve, swing type with lever and stainless steel spring.

SIZE

4" and larger

4" thru 8"

MANUFACTURER

M & H Valve Co.

Mueller Co.

American AVK Company

MODEL #

259

A2602-2-02

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Check Valve

ITEM

CHECK VALVE

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City of Green Cove Springs
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DESCRIPTION:

Buried Check Valve, ball type

SIZE

4" and larger
2"

MANUFACTURER

Flomatic/Danfoss Socla
Flomatic/Danfoss Socla

MODEL #

408, Cast Iron
508, Cast Iron

Ball Check Valve, Below Ground

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ITEM

BALL CHECK VALVE, BELOW GROUND

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City of Green Cove Springs

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DESCRIPTION:

Tapping Sleeve, stainless steel band with stainless steel threaded outlet (NPT).

SIZE

2" Only
(Sewer Force Main)

MANUFACTURER

Ford Meter Box Company, Inc.
Romac Industries
Smith-Blair, Inc.
PowerSeal Pipeline Product Corp.

MODEL #

FS313
306
372
3412 AS
3414 AS

Tapping Sleeve

REVISION DATE

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ITEM

TAPPING SLEEVE

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City of Green Cove Springs
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DESCRIPTION:
Schedule 80 Solvent Welded Fittings

SIZE
2” and smaller

MANUFACTURER
Lasco Fluid Distribution Products

MODEL #
N/A

REVISION DATE
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ITEM
SCH80 SOLVENT WELD FITTINGS

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SCH80 Solvent Weld Fittings

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DESCRIPTION:

Casing Spacer, Poly or stainless steel center line type. Poly spaced at 3 L.F. maximum on center or closer, if recommended by manufacturer. Stainless steel spaced at 6 L.F. on center or closer, if recommended by manufacturer. Casing Spacer shall not be less than 1/4" or more than 1/2" from top of casing. Casing Spacer shall have 6 runners equally spaced at 60° intervals around the spacer, for pipe sizes 4" through 16". Casing Spacer shall have 8 runners equally spaced at 45° intervals around spacer, for pipe sizes 18" through 36". All spacers for pipe 36" and larger require a separate submittal for GCS review and approval. The distance between spacers for 36" pipe and larger will be determined by GCS, depending on the type of pipe to be installed.

SIZE

4" thru 16"
18" thru 36"
4" thru 12"
8" thru 12"
14" thru 36"
8" thru 12"
4" thru 16"

MANUFACTURER

The BWM Co.
The BWM Co.
The BWM Co.
Advanced Products & Systems, Inc.
Advanced Products & Systems, Inc.
Pipeline Seal & Insulator, Inc. (PSI)
RACI Spacers North America, Inc.

MODEL #

BWM-SS (6 Legs @ 60°)
BWM-SS (8 Legs @ 45°)
KP Poly (2 pc. w/ 6 Legs)
(Stainless Steel only)
(Poly)
(Stainless Steel only)
F/G, P/Q, M/N

Casing Spacer

REVISION DATE

07/09/18

ITEM

CASING SPACER

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City of Green Cove Springs

Approved Materials



DESCRIPTION:

Casing Spacer, Stainless Steel center line type, spaced at 6 L.F. maximum on center, or closer if recommended by manufacturer. Casing Spacer shall not be less than 1/4" or more than 1/2" from top of casing. Casing Spacer shall have 6 runners equally spaced at 60° intervals around the spacer for sizes 4" through 16". Casing spacer shall have 8 runners equally spaced at 45° intervals around the spacer, for pipe sizes 18" through 36". All spacers for pipe 36" and larger require a separate submittal for GCS review and approval. The distance between spacers for 36" pipe and larger will be determined by GCS, depending on the type of pipe to be installed.

SIZE

4" thru 16"
18" thru 36"
8" thru 12"
8" thru 12"

MANUFACTURER

The BWM Co.
The BWM Co.
Advanced Products & Systems, Inc.
Pipeline Seal & Insulator, Inc. (PSI)

MODEL #

BWM-SS (6 Legs @ 60°)
BWM-SS (8 Legs @ 45°)
(Stainless Steel only)
(Stainless Steel only)

City of Green Cove Springs

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DESCRIPTION:

Combination Air/Vacuum and Air Release Valve

SIZE

Varies

MANUFACTURER

Val-Matic Corp.
Golden-Anderson
Crispin Valve

MODEL #

802 A

US20 SB

REVISION DATE

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ITEM

AIR/VACUUM AND AIR RELEASE VALVE

PAGE

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Air / Vacuum and Air Release Valve

City of Green Cove Springs

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DESCRIPTION:

PVC Sewer Fittings, molded type only. "Wyes" are to be "Tee-Wyes" only, Unless approved by GCS. Any sewer main 13' or deeper use SDR-18.

Heavy wall sewer fittings and SDR-18 pipe are described on page S-4 of the GCS Approved Materials Manual.

SIZE (SDR-26)

6" and Larger

MANUFACTURER

Harco
JM Manufacturing Co, Inc.
GPK
Multi-Fittings
Plastic Trends

MODEL #

N/A
N/A
N/A
N/A
S.T.I.

Size (SDR-18)

8" and Larger
10" and Larger
6" 45 degree bend
6" Transition
Coupling

MANUFACTURER

IPEX Sewer Wye
IPEX Sewer Wye
IPEX
Multi-Fittings

MODEL #

CIOD
Prefabricated
CIOD
C-900 x 6" SDR-26

ITEM

PVC SEWER FITTINGS SDR26

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PVC Sewer Fittings, SDR18 & SDR26

City of Green Cove Springs

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Note: O.D. Ranges may vary. Refer to manufacturer's specifications.

DESCRIPTION:

Transition Coupling, stainless steel or ductile iron epoxy lined with stainless steel hardware.

SIZE

4" and larger

MANUFACTURER

Romac Industries, Inc.
Ford Meter Box Company, Inc.
Ford Meter Box Company, Inc.
Smith-Blair, Inc.
Dresser Hymax
PowerSeal Pipeline Products Corp.

MODEL #

501
FC2A
FC2W
441
262
3506-AS
(Stainless steel only)

City of Green Cove Springs

Approved Materials



DESCRIPTION:

Full Circle Repair Clamps (Stainless Steel) (No Dual Range)

SIZE

All Sizes
2" to 12"
10" and larger
All Sizes
2" to 12"
4" to 60"
2" to 12"
All Sizes

MANUFACTURER

Ford Motor Box Company, Inc.
Smith-Blair, Inc.
Smith-Blair, Inc.
Romac Industries, Inc.
JCM Industries, Inc.
JCM Industries, Inc.
Krause
PowerSeal Pipeline Products Corp.
Mueller Company

MODEL #

"F" or "FS" Series
Series 226 or 256
Series 228 or 263
"SS" or "CL" Series
101 or 131
102 or 132
E.Z. Max
3121 AS
Series 500

REVISION DATE

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ITEM

FULL CIRCLE REPAIR CLAMP

PAGE

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Full Circle Repair Clamps

City of Green Cove Springs

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DESCRIPTION:

Manhole, see plans and specifications (Drycasting is not permitted)

SIZE

Varies

MANUFACTURER

Standard Precast
Hanson Pipe & Products
Oldcastle Precast East, Inc.
Del Zotto Products
Mack Industries, Inc.

MODEL #

N/A
N/A
N/A
N/A
N/A

Manholes

City of Green Cove Springs

Approved Materials



DESCRIPTION:

Flexible manhole connector for precast manhole

SIZE

Varies
Varies

MANUFACTURER

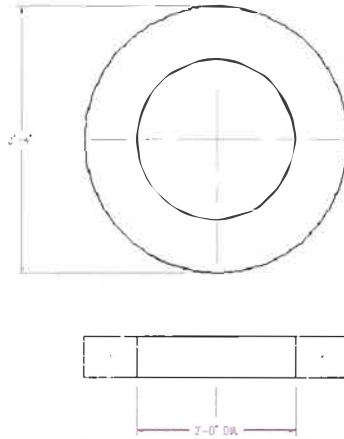
Kor-N-Seal
International Precast Supply, Inc. (IPS)

MODEL #

N/A
Toggle Style

City of Green Cove Springs

Approved Materials



DESIGN NOTES:

- 1 - CONCRETE 4000 PSI AT 28 DAYS
- 2 - REINFORCING WITH 2.77" DIA STEEL ROD

DESCRIPTION:

Manhole Collar adjusting ring, concrete.

SIZE

Varies

MANUFACTURER

Precast manhole suppliers

MODEL #

N/A

City of Green Cove Springs

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DESCRIPTION:

Manhole Ring and Cover, 24" diameter.

SIZE

24"

24"

24"

MANUFACTURER

U.S. Foundry

U.S. Foundry

U.S. Foundry

MODEL #

USF 170E

USF ORS

USF EBWT

cast iron ring & cover

24"

U.S. Foundry

USF 750KI

ductile iron ring & cover

hinged, with gasket

24"

Pamrex

RE24R8FS

ductile iron ring & cover

hinged, with gasket

City of Green Cove Springs

Approved Materials



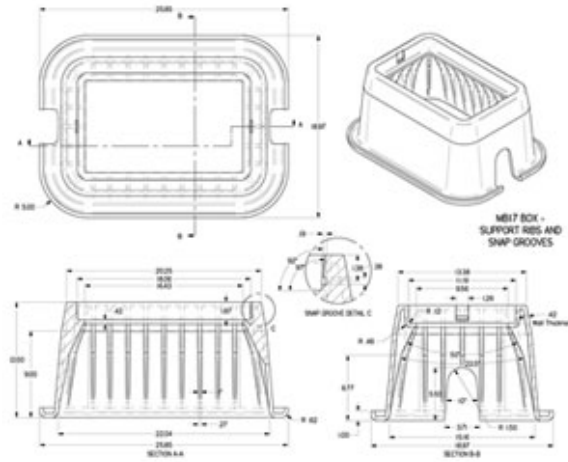
DESCRIPTION:
Lift Station Ring and Cover.

SIZE	MANUFACTURER	MODEL #
34¾"	U.S. Foundry (only)	USF 1307-CR-E cast iron ring & cover not hinged
32"	Pamrex	RE32R8FS ductile iron ring & cover hinged, with gasket

Lift Station Ring and Cover

City of Green Cove Springs

Approved Materials



DESCRIPTION:

Rectangular Cast Iron Meter Box/Valve Box for Grinder Pump Force Main connection. "SEWER" identification shall be cast into the lid.

Rectangular Polyethylene Meter Box for Grinder Pump Force Main connection.

"SEWER" identification in the lid, including a touch read hole in the lid.

Lid shall be green in color.

SIZE

13" x 24" x 12"

MANUFACTURER

Southeastern Distributors, Inc.
DFW

MODEL

MB-17
DFW1324C-12-2

ITEM

VALVE BOX,
SEWAGE F.M. CONNECTION

PAGE

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Valve Box, sewage F.M. Connection

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DESCRIPTION:

Curb Stop, Ball Valve, Full Bore Opening, Locking Wing, FIPxFIP. Valve shall open to the left.

SIZE

¾" to 2"

MANUFACTURER

Ford Meter Box Company, Inc.
Mueller Co.

MODEL #

B11-333W to B11-777 Series
B-20200

Curb Stop, Ball Valve

REVISION DATE

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ITEM

CURB STOP, BALL VALVE

PAGE

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City of Green Cove Springs

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DESCRIPTION:

Manhole Seals, for repairs only, or other circumstances where a manhole boot cannot accommodate the PVC pipe connection to manhole.

SIZE

6" or Smaller
8" or Larger

MANUFACTURER

Cretex
Cretex

MODEL #

WS-25
WS-30

Manhole Seals

City of Green Cove Springs

Approved Materials



DESCRIPTION:

Lift Station generator electrical receptacle. 100 Amp shall be female end. 200 Amp shall be male end.

RECEPTACLE

AMPS

100 Amps
100 Amps
200 Amps
200 Amps

MANUFACTURER

Appleton Electric
Crouse-Hinds
Appleton Electric
Crouse-Hinds

MODEL #

ACR-1034
AR-1042
ACR-20034RS
AR-2042S22

ANGLE ADAPTOR

AMPS

100
200

MANUFACTURER

Crouse-Hinds or Appleton Electric
Crouse-Hinds or Appleton Electric
(NO SUBSTITUTIONS ALLOWED)

MODEL #

AJA-100
AJA-200

REVISION DATE

06/30/05

ITEM

LIFT STATION
GENERATOR RECEPTACLE

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Lift Station Generator Receptacle

City of Green Cove Springs

Approved Materials



DESCRIPTION:
Hair Interceptor

SIZE
70 GPM

MANUFACTURER
Josam Co.

MODEL #
61805

REVISION DATE
07/09/18

ITEM
HAIR INTERCEPTOR

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Hair Interceptor

City of Green Cove Springs

Approved Materials



Note: Mechanical Joint Cross shown as an example only.

DESCRIPTION:

Fittings shall be C110 Ductile Iron or gray Cast Iron, epoxy lined or ceramic epoxy lined. Epoxy lining material shall be Protecto 401, manufactured by Custom Fab. Ceramic epoxy lining material shall be SP2000W, manufactured by Fast Industries, Inc. All lining shall be a minimum of 40 mils thickness and shall cover the entire surface which will be in contact with liquids.

SIZE

4" and larger

MANUFACTURER

Union Foundry Corp. (McWane, Inc.)
Tyler Pipe (McWane, Inc.)
American Cast Iron Pipe Co.
U.S. Pipe
Star Pipe Products
NAPAC, Inc. Waterworks
NACIP, Inc.
SIP Industries
Sigma

MODEL #

N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A
N/A

Force Main Fittings

ITEM

FORCE MAIN FITTINGS

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City of Green Cove Springs

Approved Material



DESCRIPTION

Fusible Polyvinylchloride Pipe (PVC) for force main distribution 4" thru 24". Fusible PVC pipe shall conform to AWWA C900, AWWA C905, ASTM D2241 or ASTM D1785 for standard dimensions, as applicable. Testing shall be in accordance with referenced AWWA standards of all pipe types. Fusible PVC pipe shall be extruded with plain ends. The ends shall be square to the pipe and free of bevel or chamfer. There shall be no bell or gasket of any kind incorporated into the pipe. Fusible PVC pipe shall be manufactured in standard 40' nominal lengths, or customs lengths as specified. Fusible PVC shall be green in color for high pressure sewer use.

Size

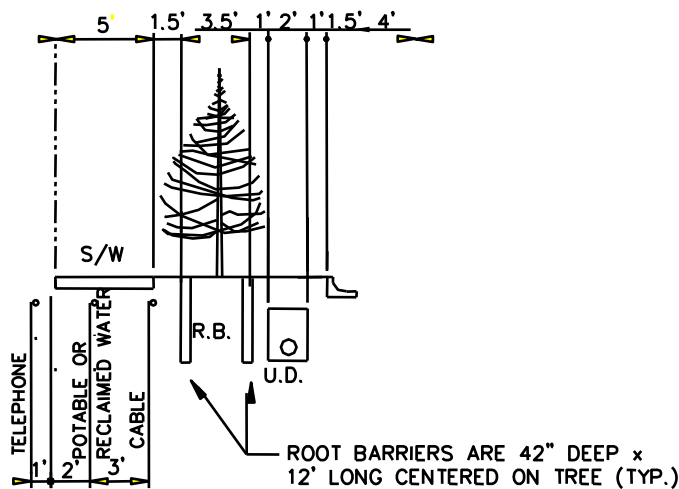
4" to 24"

Manufacturer

Underground Solutions Inc.

Item- Fusible Polyvinylchloride Pipe

City of Green Cove Springs
Approved Materials



DESCRIPTION:
Extruded sheets or panels with integral male/female sliding lock connection ends. Material shall be HDPE with a minimum thickness of 60 mil, and shall be ribbed. Root barrier shall extend to a minimum depth of 42" below finish grade. The root barrier shall be a minimum of 12' long, centered on the tree and parallel to the utility main or service line being protected, unless shown otherwise on the plans. Root barrier shall be installed at any tree planted in a GCS utility easement, or any tree planted within 7.5' of all GCS utility mains or services. No trees shall be planted in a GCS utility easement without the approval of GCS. No trees shall be closer than 5' to any GCS utility line or services.

SIZE	MANUFACTURER	MODEL #
N/A	N/A	N/A

City of Green Cove Springs
Approved Materials



DESCRIPTION:
Electronic Marker Sewer Service Locate Ball. Sewer service shall be equipped with an electronic locate ball. Locate ball shall be buried directly over the end of the service with the ball being 3' below finish grade.

SIZE	MANUFACTURER	MODEL #
N/A	3M Corporation	EMS1404 Sanitary XR
N/A	GreenLee	OmniMaker-162

Sewer Service Locate Ball

City of Green Cove Springs
Approved Materials



DESCRIPTION:
Mechanical Joint Restrainer Gland. For PVC pipe only.

SIZE	MANUFACTURER	MODEL #
4" through 24"	Ford Meter Box Company	Uni-Flange Series 1500 S (IPS)
	Ford Meter Box Company	Uni-Flange Series 1500 C (PVC)
	Ford Meter Box Company	UFR1500 (PVC)
	Star Pipe Products	Series 4000
	Ebaa Iron, Inc.	Series 2000 (PV)
	Tyler Union	Series 1500 (Dual Wedge)
	Tyler Union	Series 2000
	Tyler Union	Series 3000
	Smith & Blair	Cam-Lock 120
	SIP Industries	EZPVCP08

City of Green Cove Springs

Approved Materials



Tracer Wire

DESCRIPTION:

Tracer wire for Horizontal Directional Drilling Installation shall be a 8 gauge solid, Pro-Trace HD-CCS PE45. Tracer Wire shall be copper clad steel conductor with a minimum break load of 2,150 lbs (or 165,800 psi) and shall be extruded with a 45 mil. HDPE coating. The coating shall be of the proper color to meet the APWA color code of the buried utility line. Tracer wire shall meet the specs as that of Pro-Line Safety Products. 8 AWG Solid Pro-Trace HD CCS PE45, Hard Drawn, 21% IACS conductivity, copper clad steel, break load of 2,150 LBS, 45 Mil HDPE coating, 30 Volts and ROHS compliant, Pro-Trace or approved equal.

Tracer wire for open-trench direct bury shall be a 10 gauge solid, Pro-Trace HF-CCS PE30. Tracer wire shall meet the specs as that of Pro-line SafetyProducts. 10 AWG Solid Pro-Trace HF-CCS PE30, consist of a dead soft annealed, 21%IACS conductivity, copper clad steel conductor, break load of 448 LBS (or 55,000 PSI), with a 30 mil HDPE coating, 30 volts and ROHS compliant, the coating shall be of the proper color to meet the APWA color code of the buried utility line, Pro-Trace or approved equal.

<u>SIZE</u>	<u>MANUFACTURER</u>	<u>MODEL #</u>
<u>DIRECTIONAL DRILLING ONLY</u>		
8 Gauge	Pro-Line Safety Products	HD-CCS PE 45
8 Gauge	Copperhead	845-EHS
<u>DIRECT BURY ONLY (NON-HORIZONTAL DIRECTIONAL DRILLING)</u>		
10 Gauge	Pro-line SafetyProducts	HF-CCS PE 30
10 Gauge	Copperhead	1030 SF

City of Green Cove Springs
Approved Materials



DESCRIPTION:

Tracer Wire Boxshall be designed to be easily detected by magnetic and electronic locators even when box is covered by a minimum of four (4) inches of soil, sod and / or paving material.

* Where utility mains are to be installed beneath sidewalk, Tyler Union (461-S) valve boxes shall be installed instead of locate wire boxes.

SIZE	MANUFACTURER	MODEL #
	Copperhead	Snake Pit
	Sigma Corp./Russell	Rome 1910
		Box MB282T
		Lid MB2821T
	Tyler Union	461S

Tracer Wire Box