

# 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.

<b><u>SIZE</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
4" and larger	U.S. Pipe Clow Water Systems Co.	N/A N/A (Optional for Epoxy Lining)
	American Ductile Iron Pipe Griffin Pipe Products	N/A N/A

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## Approved Materials



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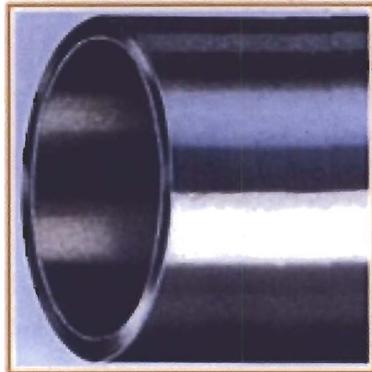
**DESCRIPTION:**

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.

<b>SIZE</b>	<b>MANUFACTURER</b>	<b>MODEL #</b>
4" to 36"	JM Eagle Corporation	N/A
	North American Pipe	N/A
	Diamond Plastics Corp.	N/A
	National Pipe & Plastics, Inc.	N/A
	Sanderson Pipe Corp.	N/A

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

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**DESCRIPTION:**

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

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**SIZE**  
Varies**MANUFACTURER**  
N/A**MODEL #**  
N/A

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STEEL CASING PIPE**PAGE**  
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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.

**PVC Pipe, Sewer**

<b><u>SIZE</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
4" and above	JM Manufacturing Company, Inc.	N/A
	North American Pipe Corp.	N/A
	Extrusion Technologies, Inc.	N/A
	Diamond Plastics Corp.	N/A
	Hawk Plastics Corp.	N/A
	National Pipe & Plastics, Inc.	N/A
	Bristol Pipe Corp.	N/A
	Sanderson Pipe Corp.	N/A
	Freedom Plastics, Inc.	N/A
<b><u>ITEM</u></b>		<b><u>PAGE</u></b>
	PVC PIPE, SEWER	S-4

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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.

<b><u>SIZE</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
2" and smaller	JM Manufacturing Company, Inc.	N/A
	North American Pipe Co.	N/A
	National Pipe & Plastics, Inc.	N/A
	Sanderson Pipe (River City Plastics, Inc.)	N/A
	Colonial Pipe	N/A
	Universal 100/Accord	N/A
	Charlotte Pipe & Foundry Co.	N/A

PVC Pipe (3" and Smaller)

**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

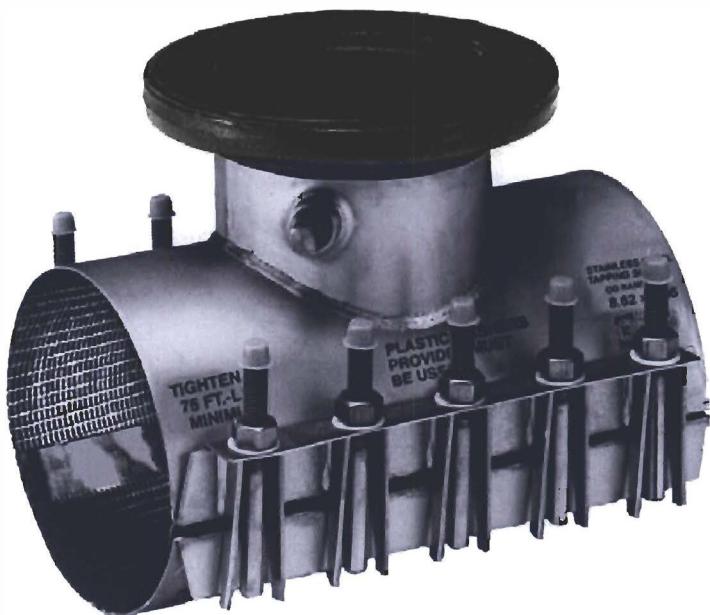
**REVISION DATE**  
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**ITEM**  
WIDE RANGE COUPLING

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# City of Green Cove Springs

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

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### **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

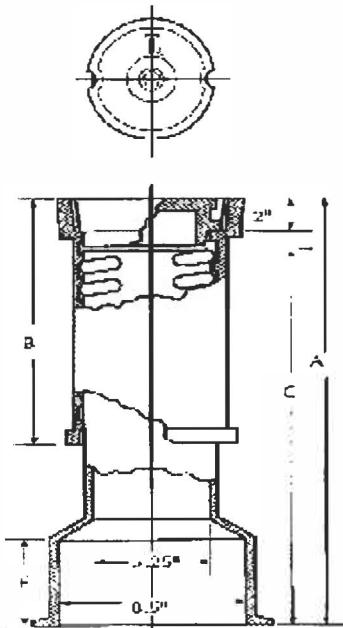
**REVISION DATE**  
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**ITEM**  
STAINLESS STEEL TAPPING SLEEVE

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# City of Green Cove Springs

## Approved Materials



*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.

<b><u>SIZE</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
N/A	Tyler Pipe (McWane, Inc.)	461-S
	U.S. Foundry	7500
	Opelika Foundry (Bingham & Taylor)	4905 (size 18)
	PCI Fastech	N/A
	Sigma Corp./Russell	N/A

# City of Green Cove Springs

## Approved Materials



*Note: For Ductile Iron only.*

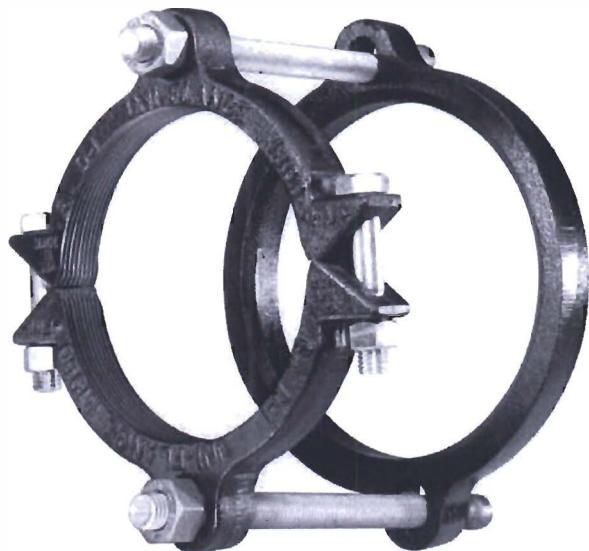
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**DESCRIPTION:**

Mechanical Joint Retainer Gland for Ductile Iron Pipe only.

<b>SIZE</b>	<b>MANUFACTURER</b>	<b>MODEL #</b>
4" and larger	Union Foundry Co. (McWane, Inc.)	N/A
	Tyler Pipe (McWane, Inc.)	N/A
	American Ductile Iron Pipe	N/A
	U. S. Pipe	N/A
	Star Pipe Products	Series 600 MJRGHD
	Star Pipe Products	Series 3000
	Star Pipe Products (Repairs Only)	Series 3000S
	Tyler Union	Series TGD
	Tyler Union	Series 1000
	Tyler Union	Series 1500 (Dual Wedge)
	Ebaa Iron Inc.	Series 1100
	Smith-Blair	CAM-Lock 111
	Ford Meter Box Company	UFR 1400 Dxl
	SIP Industries	EZDP08

## City of Green Cove Springs Approved Materials



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**DESCRIPTION:**

PVC Pipe - Joint Restraining Devices.

<b><u>SIZE</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
4" and larger	Ford Meter Box Company, Inc.	Uni-Flange 1300 series
	Ford Meter Box Company, Inc.	Uni-Flange 1350 series
	Ford Meter Box Company, Inc.	Uni-Flange 1390 series
	Ebaa Iron, Inc.	6500 Series
	Star Pipe Products	1000 Series
	Star Pipe Products	1100 Series
	Sigma Corporation	PV-Lok, PVM & PVP Series
	Ebaa Iron	Series 6506 PF/MJ
	Ebaa Iron	Series 6506

# City of Green Cove Springs

## Approved Materials



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

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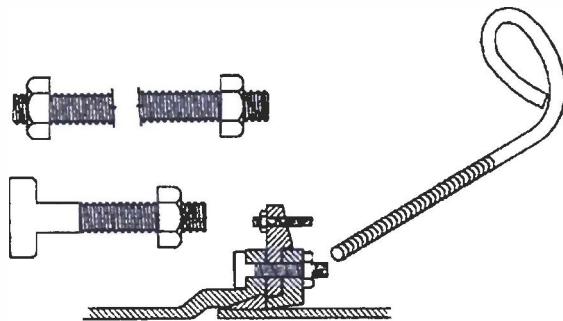
### **DESCRIPTION:**

Mechanical Joint Accessory Pack

<b><u>SIZE</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
4" and larger	Union Foundry Co. (McWane, Inc.)	N/A
	Tyler Pipe (McWane, Inc.)	N/A
	American Ductile Iron Pipe	N/A
	U. S. Pipe	N/A
	Star Pipe Products	N/A
	NAPAC, Inc. Waterworks	N/A

# City of Green Cove Springs

## Approved Materials



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**DESCRIPTION:**

Mechanical Joint Fasteners / Tie Lugs

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**SIZE**  
 $\frac{3}{4}$ "**MANUFACTURER**  
N/A**MODEL #**  
N/A

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

Mechanical Joint Fasteners

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**REVISION DATE**  
**07/09/18****ITEM**  
**MECHANICAL JOINT FASTENERS****PAGE**  
**S-12**

# City of Green Cove Springs

## Approved Materials



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**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

# City of Green Cove Springs

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*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.

<b><u>SIZE</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
4" and larger	American Flow Control	2500 Series
	American Flow Control with ALPHA™ Ends	2500 Series
	Mueller Company	2300 Series
	Mueller Company	A-2361
	M&H Valve Co.	7000 Series
	Clow Valve Co.	2638 Series
	American AVK Company	45 & 55 Series

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**ITEM**  
RESILIENT SEATED GATE VALVE

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# 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.

<u>SIZE</u>	<u>MANUFACTURER</u>	<u>MODEL #</u>
4" and larger	Milliken Valve Co.	600 N (MJ)
	Milliken Valve Co.	601 N (Flg.)
	Dezurik	Fig. 118
	Clow Valve Co.	5400 Series
	Pratt (Henry Pratt Co.)	551 (MJ)
	Pratt (Henry Pratt Co.)	583 (Flg.)
	Val-Matic Valve & Mfg. Co.	5800RN Series (Flg.)
	Val-Matic Valve & Mfg. Co.	5900RN Series (MJ)

Plug Valve

# City of Green Cove Springs

## Approved Materials



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**DESCRIPTION:**

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

<b>SIZE</b>	<b>MANUFACTURER</b>	<b>MODEL #</b>
4" and larger	M & H Valve Co.	259
4" thru 8"	Mueller Co. American AVK Company	A2602-2-02 45-45

Check Valve

# City of Green Cove Springs

## Approved Materials



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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

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**REVISION DATE**  
07/09/18**ITEM**  
BALL CHECK VALVE, BELOW GROUND**PAGE**  
S-18

# City of Green Cove Springs

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**DESCRIPTION:**

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

<b><u>SIZE</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
2" Only (Sewer Force Main)	Ford Meter Box Company, Inc.	FS313
	Romac Industries	306
	Smith-Blair, Inc.	372
	PowerSeal Pipeline Product Corp.	3412 AS 3414 AS

Tapping Sleeve

City of Green Cove Springs  
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SCH80 Solvent Weld Fittings

**DESCRIPTION:**

Schedule 80 Solvent Welded Fittings

**SIZE**

2" and smaller

**MANUFACTURER**

Lasco Fluid Distribution Products

**MODEL #**

N/A

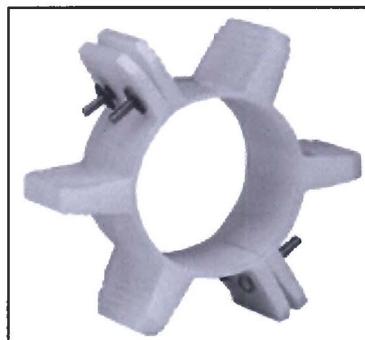
**REVISION DATE**  
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**ITEM**  
SCH80 SOLVENT WELD FITTINGS

**PAGE**  
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# City of Green Cove Springs

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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.

### **Casing Spacer**

<b>SIZE</b>	<b>MANUFACTURER</b>	<b>MODEL #</b>
4" thru 16"	The BWM Co.	BWM-SS (6 Legs @ 60°)
18" thru 36"	The BWM Co.	BWM-SS (8 Legs @ 45°)
4" thru 12"	The BWM Co.	KP Poly (2 pc. w/ 6 Legs)
8" thru 12"	Advanced Products & Systems, Inc.	(Stainless Steel only)
14" thru 36"	Advanced Products & Systems, Inc.	(Poly)
8" thru 12"	Pipeline Seal & Insulator, Inc. (PSI)	(Stainless Steel only)
4" thru 16"	RACI Spacers North America, Inc.	F/G, P/Q, M/N

# 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.

<b><u>SIZE</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
4" thru 16"	The BWM Co.	BWM-SS (6 Legs @ 60°)
18" thru 36"	The BWM Co.	BWM-SS (8 Legs @ 45°)
8" thru 12"	Advanced Products & Systems, Inc.	(Stainless Steel only)
8" thru 12"	Pipeline Seal & Insulator, Inc. (PSI)	(Stainless Steel only)

**City of Green Cove Springs**  
Approved Materials



**DESCRIPTION:**

Combination Air/Vacuum and Air Release Valve

**SIZE**

Varies

**MANUFACTURER**

Val-Matic Corp.  
Golden-Anderson  
Crispin Valve

**MODEL #**

802 A

US20 SB

# City of Green Cove Springs

## Approved Materials



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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.

<b><u>SIZE (SDR-26)</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
6" and Larger	Harco	N/A
	JM Manufacturing Co, Inc.	N/A
	GPK	N/A
	Multi-Fittings	N/A
	Plastic Trends	S.T.I.

<b><u>Size (SDR-18)</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
8" and Larger	IPEX Sewer Wye	CIOD
10" and Larger	IPEX Sewer Wye	Prefabricated
6"45 degree bend	IPEX	CIOD
6" Transition	Multi-Fittings	C-900 x 6" SDR-26
Coupling		

## City of Green Cove Springs

### Approved Materials



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

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#### **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)

Transition Coupling

# 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

# City of Green Cove Springs

## Approved Materials



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**DESCRIPTION:**

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

<b><u>SIZE</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
Varies	Standard Precast	N/A
	Hanson Pipe & Products	N/A
	Oldcastle Precast East, Inc.	N/A
	Del Zotto Products	N/A
	Mack Industries, Inc.	N/A

## Manholes

**City of Green Cove Springs**  
Approved Materials



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**DESCRIPTION:**

Flexible manhole connector for precast manhole

**SIZE**

Varies  
Varies

**MANUFACTURER**

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

**MODEL #**

N/A  
Toggle Style

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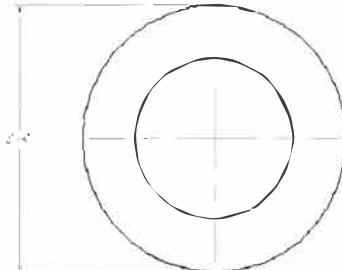
**REVISION DATE**  
07/09/18

**ITEM**  
FLEXIBLE MANHOLE CONNECTOR

**PAGE**  
S-28

# City of Green Cove Springs

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### DESIGN NOTES:

- 1 - CONCRETE 4000 PSI AT 28 DAYS.
- 2 - REINFORCED WITH .277" DIA STEEL 1900

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**DESCRIPTION:**  
Manhole Collar adjusting ring, concrete.

**SIZE**  
Varies

**MANUFACTURER**  
Precast manhole suppliers

**MODEL #**  
N/A

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**ITEM**  
MANHOLE ADJUSTING RING

**PAGE**  
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Manhole Adjusting Ring

# City of Green Cove Springs

## Approved Materials



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**DESCRIPTION:**

Manhole Ring and Cover, 24" diameter.

<u>SIZE</u>	<u>MANUFACTURER</u>	<u>MODEL #</u>
24"	U.S. Foundry	USF 170E
24"	U.S. Foundry	USF ORS
24"	U.S. Foundry	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



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**DESCRIPTION:**

Lift Station Ring and Cover.

**SIZE**  
34 $\frac{3}{4}$ "

**MANUFACTURER**  
U.S. Foundry (only)

**MODEL #**  
USF 1307-CR-E  
cast iron ring & cover  
not hinged

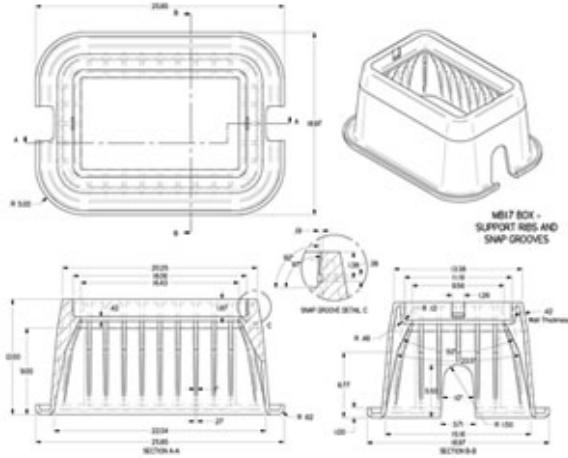
32"

Pamrex

RE32R8FS  
ductile iron ring & cover  
hinged, with gasket

# 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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# City of Green Cove Springs

## Approved Materials



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**DESCRIPTION:**

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

**SIZE**

3/4" to 2"

**MANUFACTURER**

Ford Meter Box Company, Inc.  
Mueller Co.

**MODEL #**

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

# City of Green Cove Springs

## Approved Materials



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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

# 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

### **PAGE**

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City of Green Cove Springs  
Approved Materials



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**DESCRIPTION:**  
Hair Interceptor

**SIZE**  
70 GPM

**MANUFACTURER**  
Josam Co.

**MODEL #**  
61805

Hair Interceptor

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**REVISION DATE**  
07/09/18

**ITEM**  
HAIR INTERCEPTOR

**PAGE**  
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# 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.

<b><u>SIZE</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
4" and larger	Union Foundry Corp. (McWane, Inc.)	N/A
	Tyler Pipe (McWane, Inc.)	N/A
	American Cast Iron Pipe Co.	N/A
	U.S. Pipe	N/A
	Star Pipe Products	N/A
	NAPAC, Inc. Waterworks	N/A
	NACIP, Inc.	N/A
	SIP Industries	N/A
	Sigma	N/A

## **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"

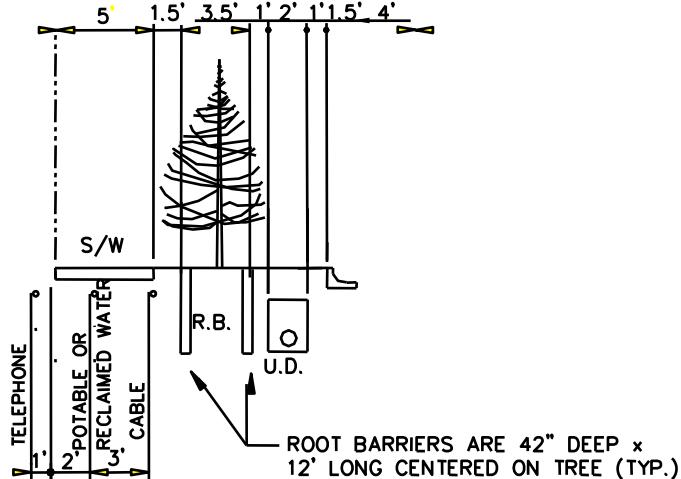
#### **Manufacturer**

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**  
N/A

**MANUFACTURER**  
N/A

**MODEL #**  
N/A

**REVISION DATE**  
07/09/18

**ITEM**  
ROOT BARRIER

**PAGE**  
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# City of Green Cove Springs

## Approved Materials



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**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.

**Sewer Service Locate Ball**

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

# City of Green Cove Springs

## Approved Materials



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**DESCRIPTION:**

Mechanical Joint Restrainer Gland. For PVC pipe only.

<b>SIZE</b>	<b>MANUFACTURER</b>	<b>MODEL #</b>
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



### **DESCRIPTION:**

Tracer wire for Horizontal Directional Drilling Installation shall be a 8 gauge soild, 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 Soild 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 Soild 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.

Tracer Wire

<b><u>SIZE</u></b>	<b><u>MANUFACTURER</u></b>	<b><u>MODEL #</u></b>
<b><u>DIRECTIONAL DRILLING ONLY</u></b>		
8 Gauge	Pro-Line Safety Products	HD-CCS PE 45
8 Gauge	Copperhead	845-EHS
<b><u>DIRECT BURY ONLY</u></b> <b><u>(NON-HORIZONTAL DIRECTIONAL DRILLING)</u></b>		
10 Gauge	Pro-line SafetyProducts	HF-CCS PE 30
10 Gauge	Copperhead	1030 SF
<b><u>ITEM</u></b>		<b><u>PAGE</u></b>
TRACER WIRE		S-42

## City of Green Cove Springs Approved Materials



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**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.

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