

IFB NO. 19-R071301CB
WATER, SEWER, AND BACKFLOW PARTS
(658-28, 658-60, 659-33, 890-03)
MAY 9, 2019

Manatee County BCC
Procurement Division
1112 Manatee Avenue West Ste 803
Bradenton, FL 34205
purchasing@mymanatee.org



**ADVERTISEMENT
INVITATION FOR BID
NO. 19-R071301CB
WATER, SEWER, AND BACKFLOW PARTS**

Manatee County, a political subdivision of the State of Florida (hereinafter referred to as County), will receive sealed bids from individuals, corporations, partnerships, and other legal entities authorized to do business in the State of Florida, to provide Water, Sewer, and Backflow Parts, as specified in this Invitation for Bid to include Water and Sewer Materials and Accessories including No Lead Brass Water, Sewer, and Backflow Products.

DATE, TIME AND PLACE DUE:

The Due Date and Time for submission of Bids in response to this IFB is **June 12, 2019 at 3:00 P.M. ET.** Bids must be delivered to the following location: Manatee County Administration Building, 1112 Manatee Ave. W., Suite 803, Bradenton, FL 34205 prior to the Due Date and Time. Bids will be opened immediately following the Due Date and Time at the Manatee County Administration Building, Suite 803 and the Bidder's name and total bid amount will be read aloud. Interested parties may attend the opening.

SOLICITATION INFORMATION CONFERENCE:

A non-mandatory Information Conference will be held at 2:30PM on May 21, 2019 at the Manatee County Administration Building, 1112 Manatee Avenue West, Suite 803, Bradenton, FL 34205. Attendance to information conferences is not required but is strongly encouraged.

DEADLINE FOR QUESTIONS AND CLARIFICATION REQUESTS:

The deadline to submit all questions, inquiries, or requests concerning interpretation, clarification or additional information pertaining to this Invitation for Bid to the Manatee County Procurement Division is May 28, 2019. Questions and inquiries should be submitted via email to the Designated Procurement Contact shown below.

Important: A prohibition of lobbying is in place. Review Section A.15 carefully to avoid violation and possible sanctions.

DESIGNATED PROCUREMENT CONTACT: Charles Bentley, Senior Buyer
(941) 749-3036, Fax (941) 749-3034
Email: charles.bentley@mymanatee.org
Manatee County Financial Management Department
Procurement Division

AUTHORIZED FOR RELEASE: _____

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SECTION A
INSTRUCTIONS TO BIDDERS
IFB No. 19-R071301CB

To receive consideration, entities who submit a response to this Invitation for Bid (Bidders) must meet the minimum qualification requirements and comply with the following instructions. Bid responses (Bids) will be accepted from single business entities, joint ventures, partnerships or corporations.

A.01 BID DUE DATE

The Due Date and Time for submission of Bids in response to this Invitation for Bid (IFB) is **June 11, 2019 at 3:00 P.M. ET**. Bids must be delivered to the following location: Manatee County Administration Building, 1112 Manatee Ave. W., Suite 803, Bradenton, FL 34205 and time stamped by a Procurement representative prior to the Due Date and Time.

Bids received after the Due Date and Time will not be considered. It will be the sole responsibility of the Bidder to deliver its bid to the Manatee County Procurement Division for receipt on or before the Due Date and Time. If a bid is sent by U.S. Mail, courier or other delivery services, the Bidder will be responsible for its timely delivery to the Procurement Division. Bids delayed in delivery will not be considered, will not be opened at the public opening, and arrangements will be made for their return at the Bidder's request and expense.

A.02 PUBLIC OPENING OF BIDS

Sealed Bids will be publicly opened at Manatee County Administration Procurement Division, 1112 Manatee Avenue West, 8th Floor, Suite 803, Bradenton, Florida 34205, in the presence of County officials immediately upon expiration of the Due Date and Time. Bidders or their representatives may attend the Bid opening.

Manatee County will make public at the opening the names of the business entities which submitted a Bid, the city and state in which they reside, and the total bid price. No review or analysis of the Bids will be conducted at the bid opening.

A.03 SUBMISSION OF BIDS

The contents of the Bid sealed package must include:

- One (1) bound original clearly identifying Bidder and marked "ORIGINAL".
- Two (2) bound copies clearly identifying Bidder and marked "COPY" with all required information and identical to the original.
- One (1) electronic format copy clearly identifying Bidder.

Electronic format copy should be submitted on a Universal Serial Bus (USB) portable flash memory drive or compact disc (CD) in MicroSoft Office® or Adobe Acrobat® portable document format (PDF) in one continuous file. Do not password protect or otherwise encrypt electronic Bid copies. Electronic copies must be searchable and contain an identical Bid to the original.

Submit the Bid package in a sealed container with the following information clearly marked on the outside of the package: IFB No. 19-R071301CB, Water, Sewer, and Backflow Parts, Bidder's name, and Bidder's address. Bids must be delivered to the Manatee County Procurement Division prior to the Due Date and Time at the following address:

Manatee County
Procurement Division
1112 Manatee Avenue West, Suite 803
Bradenton, FL 34205

A.04 BID FORMS

Bids must include the forms provided in this IFB. If needed, additional pages may be attached to a form. Bidders must fully complete and execute all Bid Forms. Bid Forms must be executed by an authorized official of the company who has the legal authority to bind the company.

A.05 ENVIRONMENTAL SUSTAINABILITY

Bidder shall acknowledge in its Bid if Bidder has an environmental sustainability initiative. In addition, Bidder shall submit with its Bid a brief summary of its environmental sustainability initiative. This information will be used as a determining factor in the award decision when all other factors, including local preference, are otherwise equal.

A.06 STANDARDS FOR MATHEMATICAL ERRORS

1. Bid pricing forms without imbedded mathematical formulas: In the event of multiplication/extension error(s), the unit price shall prevail. In the event of addition error(s) the extension totals will prevail. In the event the dollar amount for contract contingency is omitted, it will be added to the total price of the Bid.
2. Bid pricing forms with imbedded mathematical formulas: Interactive bid pricing forms that contain mathematical formulas may be provided to automate lengthy and complex bid forms. In the event bid pricing forms with imbedded formulas are used and a multiplication/extension error(s) is discovered in the formula, the unit price entered by the Bidder shall prevail.
3. Bidder shall assume the responsibility and accuracy of the information input in the bid pricing form and therefore shall verify that the calculations are correct before submitting its Bid.
4. Regardless of the type of bid pricing form used, all Bids shall be reviewed mathematically by the County using these standards.

A.07 DISTRIBUTION OF SOLICITATION DOCUMENTS

All documents issued pursuant to this IFB are distributed electronically and available for download at no charge at www.mymanatee.org > Business, *Bids and Proposals*. This link is located on the top of the County website home page under the business tab. Documents may be viewed and downloaded for printing using Adobe Reader® software.

At its sole discretion, the County may utilize a third-party provider, such as DemandStar by Onvia® (DemandStar) to distribute Bids. Visit the DemandStar website at www.Demandstar.com for more information regarding this service. Participation in the DemandStar system is not a requirement for doing business with Manatee County.

Additionally, the IFB and all related documents are available for public inspection at the Manatee County Procurement Division, 1112 Manatee Avenue West, Suite 803, Bradenton, FL 34205. Call (941) 749-3014 to schedule an appointment. Documents are available between the hours of 8:00 A.M. and 5:00 P.M., Monday through Friday, with the exception of County holidays.

As a courtesy, Manatee County notifies the Manatee County Chamber of Commerce and the Manatee County Black Chamber of Commerce of all active solicitations, who then distributes the information to its members.

A.08 ADDENDA

Any interpretations, corrections or changes to this IFB will be made by addendum. Addenda will be posted on the Procurement Division's web page of the County website at <http://www.mymanatee.org/purchasing> > *Bids and Proposals*. For those solicitations that are advertised on DemandStar, addenda will also be posted on the DemandStar distribution system on the 'Planholders' link.

All addenda are a part of the IFB and each Bidder will be bound by such addenda. It is the responsibility of each Bidder to read and comprehend all addenda issued. Failure of any Bidder to acknowledge an issued addendum in its Bid will not relieve the Bidder from any obligation contained therein.

A.09 BID EXPENSES

All costs incurred by Bidder in responding to this IFB will be the sole responsibility of the Bidder.

A.10 QUESTION AND CLARIFICATION PERIOD

Each Bidder shall examine all terms, conditions and requirements in the IFB documents and will judge all matters relating to the adequacy and accuracy of such documents. Any questions or request for changes or interpretations, clarification or additional information pertaining to this IFB shall be made in writing via email to the Manatee County Procurement Division to the Designated Procurement Contact or to purchasing@mymanatee.org prior to the Deadline for Questions and Clarifications. Bidder shall furnish any data or information it deems necessary for the County to evaluate requests to modify the terms, conditions or requirements of this IFB. Any changes or modifications to the terms, conditions and requirements of this IFB will be at the sole discretion of the County. All questions received and responses given will be provided to potential Bidders via an addendum to this IFB.

Manatee County will not be responsible for oral interpretations given including from County staff, representative, or others. The issuance of a written addendum by the Procurement Division is the only official method whereby interpretation, clarification, modifications, or additional information will be given.

A.11 FALSE OR MISLEADING STATEMENTS

Bids which contain false or misleading statements or which provide references which do not support an attribute or condition claimed by the Bidder, may be rejected. If, in the opinion of the County, such information was intended to mislead the County in its evaluation of the Bid, and the attribute, condition or capability is a requirement of this IFB. Such Bidder will be disqualified from consideration for this IFB and may be disqualified from submitting a response on future solicitation opportunities with the County.

A.12 UNBALANCED BIDDING

County recognizes that large and/or complex projects will often result in a variety of methods, sources, and prices. However, where in the opinion of the County such variation does not appear to be justified given bid requirements and industry and market conditions, the Bid will be presumed to be unbalanced. Examples of unbalanced Bids will include:

1. Bids showing omissions, alterations of form, additions not specified, or required conditional or unauthorized alternate bids.
2. Bids quoting prices that substantially deviate, either higher or lower, from those included in the Bids of competitive Bidders for the same line item unit costs.
3. Bids where the unit costs offered are in excess of, or below reasonable cost analysis values.

In the event County determines that a Bid is presumed unbalanced, it will request the opportunity to and reserves the right to, review all source quotes, bids, price lists, letters of intent, and other supporting documentation which the Bidder obtained and upon which the Bidder relied upon to develop its Bid. County reserves the right to deem any presumptive unbalanced Bid where the Bidder is unable to demonstrate the validity and/or necessity of the unbalanced unit costs as non-responsive.

A.13 WITHDRAWAL OR REVISION OF BIDS

Bidders may withdraw Bids under the following circumstances:

- a. If Bidder discovers a mistake(s) prior to the Due Date and Time. Bidder may withdraw its Bid by submitting a written notice to the Procurement Division. The notice must be received in the Procurement Division prior to the Due Date and Time for receiving Bids. A copy of the request shall be retained and the unopened Bid returned to the Bidder; or
- b. After the Bids are opened but before a contract is signed, Bidder alleges a material mistake of fact if:
 1. The mistake is clearly evident in the solicitation document; or
 2. Bidder submits evidence which clearly and convincingly demonstrates that a mistake was made in the Bid. Request to withdraw a Bid must be in writing and approved by the Procurement Official.

A.14 JOINT VENTURES

Bidders intending to submit a bid as a joint venture with another entity are required to have filed proper documents with the Florida Department of Business and Professional Regulation and all other State or local licensing agencies as required by Florida Statute Section 489.119, prior to the Due Date and Time.

A.15 LOBBYING

After the issuance of any solicitation, no prospective Bidders, or their agents, representatives or persons acting at the request of such Bidder, shall contact, communicate with or discuss any matter relating in any way to the solicitation with any County officers, agents or employees, other than the Procurement Official or designee, unless otherwise directed by the Procurement

Official or designee. This prohibition includes copying such persons on written communications (including email correspondence) but does not apply to presentations made to evaluation committees or at a County Commission meeting where the Commission is considering approval of a proposed contract. This requirement ends upon final execution of the contract or at the time the solicitation is cancelled. Violators of this prohibition will be subject to sanctions as provided in the Manatee County Code of Ordinances Section 2-26-31 and 2-26-32. Sanctions may include (a) written warning; (b) termination of contracts; and (c) debarment or suspension.

A.16 IRREVOCABLE OFFER

Any Bid may be withdrawn up until the Due Date and Time. Any Bid not so withdrawn shall, upon opening, constitute an irrevocable offer for a period of ninety (90) days to provide the goods or services set forth in this IFB or until one or more of the Bids have been duly accepted by County, whichever occurs first.

A.17 ERRORS OR OMISSIONS

Once a Bid is opened, the County will not accept any request by Bidder to correct errors or omissions in the Bid other than as identified in paragraph A.13.

A.18 DETERMINATION OF RESPONSIBLENESS AND RESPONSIVENESS

The County will conduct a due diligence review of all Bids received to determine if the Bidder is responsible and responsive.

To be responsive a Bidder must submit a Bid that conforms in all material respects to the requirements of this IFB and contains all the information, fully completed attachments and forms, and other documentation required. Bids that are deemed non-responsive will not be considered.

To be responsible, a Bidder must meet the minimum qualification requirements and have the capability to perform the Scope of Services contained in this IFB. Bids submitted by Bidders that are deemed non-responsible will not be considered.

A.19 SCRUTINIZED COMPANIES FORM

Pursuant to Florida Statute Section 287.135, as of July 1, 2012, a company that, at the time of submitting a response for a new contract or renewal of an existing contract, is on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List, created pursuant to Florida Statute Section 215.473, is ineligible for, and may not submit a response for or enter into or renew a contract with an agency or local governmental entity for goods or services of \$1 million or more. To the extent certification is required, it shall be provided on Attachment F, *Vendor Certification Regarding Scrutinized Companies Lists*.

A.20 LOCAL PREFERENCE FORM

To qualify for local preference, a local business, as defined in Section B, Terms and Conditions, must provide certification to County by completing an 'Affidavit as to Local Business' form which is available for download at www.mymanatee.org/vendor. Click on 'Affidavit for Local Business' to access and print the form. Complete, notarize, and return the original with Bidder's Bid. It

is the responsibility of the Bidder to ensure accuracy of the affidavit and notify County of any changes affecting its local business status.

A.21 COLLUSION

Bidder certifies that its Bid is made without prior understanding, agreement, or connection with any other corporation, firm or person submitting a Bid for the same materials, services, supplies, or equipment and is in all respects fair and without collusion or fraud.

Any such violation may result in contract cancellation, return of materials or discontinuation of services and the possible removal of Bidder from participation in future County solicitations for a specified period.

The County reserves the right to disqualify a Bidder during any phase of the solicitation process and terminate for cause any resulting contract upon evidence of collusion with intent to defraud on the part of the Bidder.

A.22 PUBLIC ENTITY CRIMES

In accordance with Section 287.133, Florida Statutes, a person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases or real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017 for Category Two for a period of 36 months from the date of being placed on the convicted vendor list.

In addition, Manatee County Code of Laws Chapter 2-26 Article V prohibits the award of County contracts to any person or entity who/which has, within the past five years, been convicted of, or admitted to in court or sworn to under oath, a public entity crime or of any environmental law that, in the reasonable opinion of the Purchasing Official, establishes reasonable grounds to believe the person or business entity will not conduct business in a reasonable manner.

A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime, as that term is defined in Section 287.133, Florida Statutes, may not submit a bid to provide any goods or services to a public entity; may not submit a bid with a public entity for the construction or repair of a public building or public work; may not submit bids on leases of real property to a public entity; may not be awarded or perform Work as a contractor, supplier, Subcontractor, or consultant under an agreement with any public entity; and may not transact business with any public entity in excess of the threshold amount provided

in Section 287.017, Florida Statutes, for CATEGORY TWO for a period of thirty-six (36) months following the date of being placed on the convicted list.

In addition, the Manatee County Code of Laws prohibits the award of any bid to any person or entity who/which has, within the past five (5) years, been convicted of, or admitted to in court or sworn to under oath, a public entity crime or of any environmental law that, in the reasonable opinion of the Purchasing Official, establishes reasonable grounds to believe the person or business entity will not conduct business in a responsible matter.

To ensure compliance with the foregoing, the Code requires all persons or entities desiring to do business with County to execute and file with the Purchasing Official an affidavit, executed under the pain and penalties of perjury, confirming that person, entity and any person(s) affiliated with the entity, does not have such a record and is therefore eligible to seek and be awarded business with County. In the case of a business entity other than a partnership or a corporation, such affidavit shall be executed by an authorized agent of the entity. In the case of a partnership, such affidavit shall be executed by the general partner(s). A Public Contracting and Environmental Crimes Certification form is attached herein for this purpose.

A.23 DISCOUNTS AND PRICING

All discounts must be incorporated in the prices contained in the bid and not shown separately. Unless otherwise specified in this IFB, pricing must be all inclusive, including delivery costs. The prices indicated on the Pricing Form shall be the prices used in determining award. When there is a discrepancy between the unit prices and any extended prices, the unit prices shall prevail.

A.24 PROTEST

Any actual bidder, proposer, or contractor who is aggrieved in connection with the notice of intent to award of a contract with a value greater than \$250,000 where such grievance is asserted to be the result of a violation of the requirements of the Manatee County Procurement Code or any applicable provision of law by the officers, agents, or employees of the County, may file a protest to the Procurement Official.

Protest must be in writing and delivered via email at purchasing@mymanatee.org or by hand delivery to the Procurement Division at 1112 Manatee Avenue West, Suite 803, Bradenton, FL 34205 by 5:00 p.m. on the fifth business day following the date of posting of the Notice of Intent to Award on the County website. There is no stay of the procurement process during a protest. The Procurement Official shall have the authority to settle and resolve a protest concerning the intended award of a contract.

For additional information regarding the County protest process, visit the Procurement Division webpage on the County website.

A.25 LICENSES AND PERMITS

The successful Bidder shall be solely responsible for obtaining all necessary license and permit fees, including, but not limited to, all license fees, permit fees, impact fees, or inspection fees, and responsible for the costs of such fees. Successful Bidder is solely responsible for ensuring all work complies with all Federal, State, local, and Manatee County ordinances, orders, codes, laws, rules, regulations, directives, and guidelines.

A.26 CONFLICT OF INTEREST

Manatee County Code of Laws prohibits contracts where conflicts are found to exist. Bidder shall not be currently engaged in, or if awarded, will not become engaged in any obligations, undertakings or contracts that will require Bidder to maintain an adversarial role against the County or that will impair or influence the advice or recommendations it provides to the County.

A.27 BASIS OF AWARD

Award(s) will be made to the responsive, responsible Bidder having the lowest Bid. The County, at its sole discretion, may make multiple awards based upon groups, price, or other such criteria. Whenever the lowest Bid is submitted by two or more Bidders and are equal with respect to price, quality, and/or service, the Bid received from a local business shall be given preference in the award. Whenever two or more lowest Bids are received from local businesses and are equal with respect to price, quality, and/or service, the award shall be determined by a chance drawing to be conducted by the Procurement Official in a publicly noticed meeting.

Local business is defined as a business legally authorized to engage in the sale of goods and/or services which, for at least six months prior to the announcement of the solicitation for Bids, has maintained a physical place of business in Manatee, Desoto, Hardee, Hillsborough, Pinellas, or Sarasota County, and which has had at least one full-time employee at that location during the qualifying period.

A.28 OTHER PUBLIC ENTITIES

The successful Bidder agrees to make available to all governmental agencies, authorities, departments, and municipalities (collectively referred to as Public Entities) the terms, conditions and agreed upon prices of the award resulting from this solicitation. Any Public Entity electing to utilize the award will enter into its own agreement with successful Bidder and coordinate the requirements. The County shall in no way be responsible for any such agreement between successful Bidder and Public Entity.

A.29 SOLICITATION SCHEDULE

The following schedule has been established for this Solicitation process. Refer to the County's website (www.mymanatee.org > Business > *Bids & Proposals*) for meeting locations and updated information pertaining to any revisions to this schedule.

Scheduled Item	Scheduled Date
Non-Mandatory Solicitation Information Conference, 1112 Manatee Avenue West, Ste 803, Bradenton, FL 34205	May 21, 2019 2:30PM
Question and Clarification Deadline	May 28, 2019
Final Addendum Posted	June 4, 2019
Bid Response Due Date and Time	June 12, 2019, no later than 3:00 PM
Projected Award	July 2, 2019

END OF SECTION A

SECTION B
TERMS AND CONDITIONS
IFB No. 19-R071301CB

B.01 AGREEMENT

The agreement resulting from the acceptance of a bid shall be in the form of a contract and/or a purchase order. This agreement shall be for three years from the date of award with the option to renew for two one-year periods.

B.02 NON-EXCLUSIVE

Unless otherwise stated in this IFB, successful Bidder understands and agrees that any resulting contractual relationship is non-exclusive and the County reserves the right to contract with more than one Bidder or seek similar or identical goods and services elsewhere if deemed in the best interest of the County.

B.03 CONFIDENTIALITY OF SECURITY RELATED RECORDS

- a. Pursuant to Florida Statutes § 119.071(3), the following records (hereinafter referred to collectively as “the Confidential Security Records”) are confidential and exempt from the disclosure requirements of Florida Statutes § 119.07(1):
 1. A Security System Plan or portion thereof for any property owned by or leased to County or any privately owned or leased property held by County.
 2. Building plans, blueprints, schematic drawings, and diagrams, including draft, preliminary, and final formats, which depict the internal layout and structural elements of a building, arena, stadium, water treatment facility, or other structure owned or operated by County.
 3. Building plans, blueprints, schematic drawings, and diagrams, including draft, preliminary, and final formats, which depict the internal layout or structural elements of an attractions and recreation facility, entertainment or resort complex, industrial complex, retail and service development, office development, or hotel or motel development in the possession of, submitted to County.
- b. Successful Bidder agrees that, as provided by Florida Statute, it shall not, as a result of a public records request, or for other reason disclose the contents of, or release or provide copies of the Confidential Security Records to any other party absent the express written authorization of County’s Property Management Director or to comply with a court order requiring such release or disclosure. To the extent Successful Bidder receives a request for such records, it shall immediately contact the County’s designated Contract administrator who shall coordinate County’s response to the request.

B.04 PURCHASING COOPERATIVE

It is the intent of this IFB to include requirements and to obtain bids on behalf of Manatee County and reserve the right to authorize entities belonging to the Sarasota Bay Area Chapter of NIGP to obtain purchases utilizing the terms, conditions and pricing of this IFB. This opportunity is also made available to all local and county governments and agencies, public educational institutions, non-profits, and State of Florida agencies, pursuant to their own governing laws, and subject to the agreement of the supplier. Manatee County will not be financially responsible for the purchases of other entities utilizing this IFB and any resulting contract or purchase order.

B.05 LOCAL PREFERENCE

Local business is defined as a business legally authorized to engage in the sale of the goods and/or services, and which certifies within its Bid that for at least six (6) full months prior to the advertisement of this IFB it has maintained a physical place of business in Manatee, Desoto, Hardee, Hillsborough, Pinellas or Sarasota County with at least one full-time employee at that location. Local preference shall not apply to the following categories of agreements:

1. Purchases or agreements which are funded, in whole or in part, by a governmental or other funding entity, where the terms and conditions governing the funds prohibit the preference.
2. Any bid announcement which specifically provides that local preference, as set forth in this section, is suspended due to the unique nature of the goods or services sought, the existence of an emergency as found by either the County Commission or County Administrator, or where such suspension is, in the opinion of the County Attorney, required by law.
3. For a competitive solicitation for construction services in which fifty percent (50%) or more of the cost will be paid from state-appropriated funds which have been appropriated at the time of the competitive solicitation.
4. To qualify for local preference under this section, **a local business must certify to County** by completing an **"Affidavit as to Local Business Form,"** which is available for download at www.mymanatee.org/vendor. Click on "Affidavit for Local Business" to access and print the form. Complete, notarize, and mail the notarized original to the following address: Manatee County Procurement Division, 1112 Manatee Avenue West, Suite 803, Bradenton, FL 34205.
5. It is the responsibility of the bidder to ensure accuracy of the Affidavit as to Local Business and notify County of any changes affecting same.

B.06 SUPPLIER REGISTRATION

Registering your business will provide Manatee County a sourcing opportunity to identify suppliers of needed goods and services and identify local businesses. To register as a supplier with the County go to www.mymanatee.org/vendor. For assistance with supplier registration, call the Procurement Division main number at (941) 749-3014. Office hours are Monday – Friday, 8:00 A.M. to 5:00 P.M., excluding County holidays.

B.07 RESERVED RIGHTS

The County reserves the right to accept or reject any and all Bids, to waive irregularities and technicalities, to request additional information and documentation, and to cancel this solicitation at any time prior to execution of the contract. In the event only one bid is received, the County reserves the right to negotiate with the Bidder. The County reserves the right to award to the lowest responsive and responsible Bidder.

The County reserves the right to conduct an investigation as it deems necessary to determine the ability of any Bidder to perform the work or service requested. Upon request by the County, Bidder shall provide all such information to the County. Additional information may include, but will not be limited to, current financial statements prepared in accordance with generally accepted accounting practices and certified by an independent CPA or official of Bidder; verification of availability of equipment and personnel; and past performance records.

B.08 APPLICABLE LAWS

Bidder must be authorized to transact business in the State of Florida. All applicable laws and regulations of the State of Florida and ordinances and regulations of Manatee County will apply to any resulting contract. This solicitation process will be conducted in accordance with Manatee County Code of Ordinances, Chapter 2-26.

B.09 TAXES

Manatee County is exempt from Federal Excise and State Sales Taxes. (F.E.T. Cert. No. 59-78-0089K; Florida Sales Tax Exempt Cert. No. 85-8012622206C-6). Therefore, the Bidder is prohibited from delineating a separate line item in its bid for any sales or service taxes.

The Successful Bidder will be responsible for the payment of taxes of any kind, including but not limited to sales, consumer, use, and other similar taxes payable on account of the work performed and/or materials furnished under the award in accordance with all applicable laws and regulations.

B.10 CODE OF ETHICS

With respect to this and any bid, if a Bidder violates, directly or indirectly, the ethics provisions of the Manatee County Procurement Code and/or Florida criminal or civil laws related to public procurement, including but not limited to Florida Statutes Chapter 112, Part II, Code of Ethics for Public Officers and Employees, such Bidder will be ineligible for award to perform the work described in this IFB, and may be disqualified from submitting on any future quote or bid requests to supply goods or services to Manatee County. By submitting a bid, the Bidder represents to County that all statements made and materials submitted are truthful, with no relevant facts withheld.

B.11 AMERICANS WITH DISABILITIES

Manatee County does not discriminate upon the basis of any individual's disability status. This non-discrimination policy involves every aspect of County's functions including one's access to participation, employment, or treatment in its programs or activities. Anyone requiring reasonable accommodation for an information conference or bid opening should contact the person named on the cover page of this document at least twenty-four (24) hours in advance of either activity.

B.12 EQUAL EMPLOYMENT OPPORTUNITY

In accordance with Title VI of the Civil Rights Act of 1964, Title 15, Part 8 of the Code of Federal Regulations and the Civil Rights Act of 1992, Manatee County hereby notifies all Bidders that it will affirmatively ensure minority business enterprises are afforded full opportunity to participate in response to this Invitation for Bid and will not be discriminated against on the grounds of race, color, national origin, religion, sex, age, handicap, or marital status in consideration of award.

B.13 MINORITY AND/OR DISADVANTAGED BUSINESS ENTERPRISES

The State of Florida Office of Supplier Diversity provides the certification process and maintains the database of certified MBE/DBE firms. Additional information may be obtained at <http://www.osd.dms.state.fl.us/iframe.htm> or by calling (850) 487-0915.

B.14 QUALITY

Unless otherwise specifically provided in the IFB documents, all goods provided shall be new, the latest make or model, of the best quality, of the highest grade of workmanship, and of the most suitable for the purpose intended.

Unless otherwise specifically provided in the IFB documents, reference to any equipment, material, article or patented process, by trade name, brand name, make or catalog number, shall be regarded as establishing a standard of quality and shall not be construed as limiting competition.

B.15 DELIVERY

Unless otherwise specified, all prices shall include all delivery cost (FOB Destination).

B.16 AUTHORIZED PRODUCT REPRESENTATION

Bidder, by virtue of submitting the name and specifications of a manufacturer's product, will be required to furnish the named manufacturer's product. Failure to do so may, in the County's sole discretion, be deemed a material breach of the resulting agreement and shall constitute grounds for County's immediate termination of the resulting agreement.

B.17 ROYALTIES AND PATENTS

The successful Bidder shall pay all royalties and license fees for equipment or processes in conjunction with the equipment and/or services being furnished. Successful Bidder shall defend all suits or claims for infringement of any patent, trademark or copyright, and shall save County harmless from loss on account thereof, including costs and attorney's fees.

B.18 PUBLIC RECORDS

Upon receipt, all inquiries and responses to inquiries related to this Bid become "Public Records", and shall be subject to public disclosure consistent with Florida Statute, Chapter 119.

Bids become subject to disclosure thirty (30) days after the opening or when notice of intent to award is made, whichever occurs first, as provided by Florida Statutes § 119.071(1)(b).

If County rejects all Bids and concurrently notices its intent to reissue the solicitation, the rejected Bids are exempt from public disclosure until such time the County provides notice of an intended decision concerning the reissued solicitation or until County withdraws the reissued solicitation. A bid is not exempt for longer than twelve (12) months after the initial notice of rejection of all Bids.

Pursuant to Florida Statute 119.0701, to the extent Successful Bidder is performing services on behalf of County, Successful Bidder must:

1. Keep and maintain public records required by public agency to perform the service. That information and data it manages as part of the services may be public record in accordance with Chapter 119, Florida Statutes and Manatee County public record policies. Bidder agrees, prior to providing goods/services, it will implement policies and procedures, which are subject to approval by County, to maintain, produce, secure, and retain public records in accordance with applicable laws, regulations, and County policies including but not limited to Section 119.0701, Florida Statutes.
2. Upon request from the public agency's custodian of public records, provide the public agency with a copy of the requested records or allow the records to be inspected or copied within a reasonable time at a cost that does not exceed the cost provided in Florida Statutes, Chapter 119, or as otherwise provided by law.
3. Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law for the duration of the contract term and following completion of the contract if the Successful Bidder does not transfer the records to the public agency.
4. Upon completion of the contract, transfer, at no cost, to the public agency all public records in possession of contractor or keep and maintain public records required by the public agency to perform the service. If the Successful Bidder transfers all public records to County upon completion of the contract, the Successful Bidder shall destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. If the Successful Bidder keeps and maintains public records upon completion of the contract, the Successful Bidder shall meet all applicable requirements for retaining public records. All records stored electronically must be provided to County, upon request from County's custodian of public records, in a format that is compatible with the information technology systems of County.

IF THE SUCCESSFUL BIDDER HAS QUESTIONS REGARDING THE APPLICATION OF CHAPTER 119, FLORIDA STATUTES, TO ITS DUTY TO PROVIDE PUBLIC RECORDS RELATING TO ANY RESULTING CONTRACT, CONTACT COUNTY'S CUSTODIAN OF PUBLIC RECORDS AT: (941) 742-5845, DEBBIE.SCACCIAOCE@MYMANATEE.ORG, ATTN: RECORDS MANAGER, 1112 MANATEE AVENUE WEST, BRADENTON, FL 34205.

B.19 TRADE SECRETS

Manatee County is subject to Chapter 119, Florida Statutes. Therefore, all documents, materials, and data submitted as part of a Bid in response to a Request for Bid are governed by the disclosure, exemption and confidentiality provisions relating to public records in Florida Statutes.

Except for materials that are 'trade secrets' as defined by Chapter 812, Florida Statutes, ownership of all documents, materials and data submitted as part of a Bid in response to the Request for Bid shall belong exclusively to County.

To the extent that Bidder desires to maintain the confidentiality of materials that constitute trade secrets pursuant to Florida law, trade secret material submitted must be segregated from the portions of the Bid that are not declared as trade secret. In addition, Bidder shall cite, for each trade secret claimed, the Florida Statute number which supports the designation. Further, Bidder shall offer a brief written explanation as to why the cited Statute is applicable to the information claimed as trade secret. Additionally, Bidder shall provide a hard copy of its Bid that redacts all information designated as trade secret.

In conjunction with trade secret designation, Bidder acknowledges and agrees that:

- a. Trade secret requests made after the opening will not be considered. However, County reserves the right to clarify the Bidders request for trade secret at any time; and
- b. County and its officials, employees, agents, and representatives are hereby granted full rights to access, view, consider, and discuss the information designated as trade secret throughout the evaluation process and until final execution of any awarded purchase order or contract; and
- c. That after notice from County that a public records request has been made pursuant to Bidder's bid, the Bidder at its sole expense, shall be responsible for defending its determination that submitted material is a trade secret and is not subject to disclosure. Action by Bidder in response to notice from the County shall be taken immediately, but no later than 10 calendar days from the date of notification or Bidder will be deemed to have waived the trade secret designation of the materials.

Notwithstanding any other provision in this solicitation, designation of the entire bid as 'trade secret', 'proprietary', or 'confidential' is not permitted and may result in a determination that the Bid is non-responsive.

B.20 ePAYABLES

Manatee County Board of County Commissioners and the Manatee County Clerk of the Circuit Court have partnered to offer the ePayables program, which allows payments to be made to vendors via credit cards.

The Clerk of the Circuit Court will issue a unique credit card number to vendor after goods are delivered or services rendered, vendors submit invoices to the remit to address on the purchase order. When payments are authorized, an email notification is sent to the vendor. The email notification includes the invoice number(s), invoice date(s), and amount of payment. There is no cost for vendors to participate in this program; however, there may be a charge by the company that processes your credit card transactions.

If Bidder is interested in participating in this program, complete the ePayables Application attached herein and return the completed form via email to lori.bryan@manateeclerk.com.

B.21 FUNDING

This IFB is subject to the appropriation of funds in an amount sufficient to allow continuation of the County's performance in accordance with the terms and conditions herein. The County shall provide prompt written notice to the successful Bidder that sufficient funds have not been appropriated to continue its full and faithful performance under the terms of this IFB, and shall,

effective thirty (30) days after giving such notice or upon the expiration of the time for which funds were appropriated whichever occurs first, be thereafter released of all further obligations in any way related to this IFB.

B.22 CONDITIONS FOR EMERGENCY EVENTS

A critical challenge in emergency situations is to obtain essential supplies, goods and equipment in the affected areas. It is the County's priority that public property, life, safety, and health are protected during any emergency as declared by the State and/or the County. Therefore, before, during and after a disaster, hurricane, flood, act of terrorism, or other public emergency event, whether natural or man-made, successful Bidder shall make delivery to the County of the goods and services in this IFB its first-priority.

Successful Bidder will ensure that contract prices are billed to the County for deliveries as part of an emergency event. Upon award of a contract, successful Bidder shall furnish an email and phone number in which successful Bidder can be contacted twenty-four (24) hours per day, seven days per week for emergency services.

B.23 TERMINATION

The County, at its sole discretion, reserves the right to terminate any contract entered into pursuant to this IFB with or without cause immediately upon providing written notice to the successful Bidder. Upon receipt of such notice, the successful Bidder shall not incur any additional costs under the contract. The County shall be liable only for reasonable costs incurred by the successful Bidder prior to the date of the notice of termination.

The County reserves the right to terminate any contract entered into pursuant to this IFB, in part or in whole, or place the successful Bidder on probation in the event it fails to perform in accordance with the terms and conditions stated herein. Notification will be made by providing written notice of such failure or default and by specifying a reasonable time period within which the successful Bidder must cure any such failure to perform or default. If the successful Bidder fails to cure the default within the time specified, the County may then terminate the subject contract by providing written notice to the successful Bidder. The County further reserves the right to suspend or debar the successful Bidder in accordance with the appropriate County ordinances and/or policies. In the event of termination for default, the County may procure the required goods and/or services from any source and use any method deemed in its best interest.

B.24 PRECEDENCE

Statements contained in the Scope of Work or Bid Summary Sections of this IFB, which vary from the information contained in this Section D, shall have precedence.

B.25 E-VERIFY

Prior to the employment of any person under this contract, the Successful Bidder shall utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of (a) all persons employed during the contract term by the Successful Bidder to perform employment duties within Florida and (b) all persons, including subcontractors, assigned by the Successful Bidder to perform work pursuant to the contract with Manatee County. For more information on this process, please refer to United States Citizenship and Immigration Service site at: <http://www.uscis.gov/>.

Only those individuals determined eligible to work in the United States shall be employed under this contract. By submission of a bid in response to this IFB, the successful Bidder commits that all employees and subcontractors will undergo e-verification before placement on this contract.

The successful Bidder shall maintain sole responsibility for the actions of its employees and subcontractors. For the life of the contract, all employees and new employees brought in after contract award shall be verified under the same requirement stated above.

B.26 SUBCONTRACTORS

The successful bidder will obtain prior written approval from the County for any subcontractor(s) and the work they will perform. A subcontractor is defined as any entity performing work within the scope of the project who is not an employee of the successful Bidder.

Bidders subcontracting any portion of the work shall include a list of subcontractors along with their bid. The list shall include: name and address of subcontractor, type of work to be performed and the percent of the contract amount to be subcontracted.

Prior to the employment of any person under this contract, the successful Bidder shall utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of (a) all persons employed during the contract term by the successful Bidder to perform employment duties within Florida and (b) all persons, including subcontractors, assigned by the successful Bidder to perform work pursuant to the contract with Manatee County. For more information on this process, please refer to United States Citizenship and Immigration Service site at: <http://www.uscis.gov/>.

Only those individuals determined eligible to work within the United States shall be employed to perform the work specified in this IFB.

By submission of a Bid in response to this IFB, the successful Bidder commits that all employees and subcontractors will undergo e-verification before placement on this contract.

If County has reasonable objection to any subcontractor, the County may request the successful bidder to submit an acceptable substitute without an increase in contract sum or contract time.

If successful Bidder declines to make any such substitution, the County may award the resulting agreement to the next lowest qualified bidder that proposes to use acceptable subcontractors, who County does not make written objection to. In the event the successful Bidder declines to make any such substitution post award, the County may exercise its right to terminate the agreement.

The successful Bidder shall maintain sole responsibility for the actions of its employees and subcontractors. New employees brought in after contract award shall follow the same requirement stated above for the life of the contract.

B.27 RECOMMENDATION FOR AWARD

Upon successful completion of evaluations, a recommendation for award to the successful Bidder(s) will be presented for approval per County ordinances, policies and procedures.

END SECTION B

Bid Forms

(To be completed and returned with Bid)

ATTACHMENT A
ACKNOWLEDGMENT OF ADDENDA
IFB No. 19-R071301CB

The undersigned acknowledges receipt of the following addenda:

Addendum No. _____	Date Received:
Addendum No. _____	Date Received:
Addendum No. _____	Date Received:
Addendum No. _____	Date Received:
Addendum No. _____	Date Received:
Addendum No. _____	Date Received:
Addendum No. _____	Date Received:
Addendum No. _____	Date Received:
Addendum No. _____	Date Received:

Print or type Bidder's information below:

_____ Name of Bidder	_____ Telephone Number	
_____ Street Address	_____ City/State/Zip	
_____ Email Address	_____ Website Address	
_____ Print Name & Title of Authorized Officer	_____ Signature of Authorized Official	_____ Date

Bidder must fully execute and return this form with its Bid.

ATTACHMENT B
BID SIGNATURE FORM
IFB No. 19-R071301CB

The undersigned represents that:

- (1) By signing the bid, that he/she has the authority and approval of the legal entity purporting to submit the bid and any additional documentation which may be required such as the Joint Venture Agreement or Joint Venture Affidavit, if applicable;
- (2) All facts and responses set forth in the bid are true and correct;
- (3) By submitting a bid and signing below, the Bidder agrees to all terms and conditions in this IFB, which incorporates all addenda, appendices, exhibits, and attachments, in its entirety, and is prepared to sign the Contract as written. The Respondent understands that if it submits exceptions to the Contract in its Response, the Respondent's Response may be determined non-responsive; and
- (4) The Bidder, which includes all companies included in a partnership or joint venture, is not on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List.

Print or type Bidder's information below:

_____ Name of Bidder	_____ Telephone Number
_____ Street Address	_____ City/State/Zip
_____ Email Address	_____ Web Address
_____ Print Name & Title of Authorized Officer	_____ Signature of Authorized Officer Date

Bidder must fully execute and return this form with its Bid.

ATTACHMENT C
PUBLIC CONTRACTING AND ENVIRONMENTAL CRIMES CERTIFICATION
IFB No. 19-R071301CB

SWORN STATEMENT PURSUANT TO SECTION 2-26 ARTICLE V,
MANATEE COUNTY PROCUREMENT CODE

THIS FORM MUST BE SIGNED AND SWORN TO IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICIAL AUTHORIZED TO ADMINISTER OATHS.

This sworn statement is submitted to Manatee County by _____:
[print individual's name and title]

For _____
[name of entity submitting sworn statement]

whose business address is: _____

and (if applicable) its Federal Employer Identification Number (FEIN) is _____. If the entity has no FEIN, include the Social Security Number of the individual signing this sworn statement:

I understand that no person or entity shall be awarded or receive a county contract for public improvements, procurement of goods or services (including professional services) or a county lease, franchise, concession or management agreement, or shall receive a grant of county monies unless such person or entity has submitted a written certification to County that it has not:

(1) been convicted of bribery or attempting to bribe a public officer or employee of Manatee County, the State of Florida, or any other public entity, including, but not limited to the Government of the United States, any state, or any local government authority in the United States, in that officer's or employee's official capacity; or

(2) been convicted of an agreement or collusion among Bidders or prospective Bidders in restraint of freedom of competition, by agreement to bid a fixed price, or otherwise; or

(3) been convicted of a violation of an environmental law that, in the sole opinion of the County's Purchasing Director, reflects negatively upon the ability of the person or entity to conduct business in a responsible manner; or

(4) made an admission of guilt of such conduct described in items (1), (2) or (3) above, which is a matter of record, but has not been prosecuted for such conduct, or has made an admission of guilt of such conduct, which is a matter of record, pursuant to formal prosecution. An admission of guilt shall be construed to include a plea of nolo contendere; or

(5) where an officer, official, agent or employee of a business entity has been convicted of or has admitted guilt to any of the crimes set forth above on behalf of such and entity and pursuant to the direction or authorization of an official thereof (including the person committing the offense, if he is an official of the business entity), the business shall be chargeable with the conduct herein above set forth. A business entity shall be chargeable with the conduct of an affiliated entity, whether wholly owned, partially owned, or one which has common ownership or a common Board of Directors.

For purposes of this Form, business entities are affiliated if, directly or indirectly, one business entity controls or has the power to control another business entity, or if an individual or group of individuals controls or has the power to control both entities. Indicia of control shall include, without limitation, interlocking management or ownership, identity of interests amount family members, shared organization of a business entity following the ineligibility of a business entity under this Article, or using substantially the same management, ownership or principles as the ineligible entity.

Any person or entity who claims that this Article is inapplicable to him/her/it because a conviction or judgment has been reversed by a court of competent jurisdiction, shall prove the same with documentation satisfactory to Manatee County's Purchasing Official. Upon presentation of such satisfactory proof, the person or entity shall be allowed to contract with Manatee County.

I UNDERSTAND THAT ANY CONTRACT OR BUSINESS TRANSACTION SHALL PROVIDE FOR SUSPENSION OF PAYMENTS, OR TERMINATION, OR BOTH, IF THE PROCUREMENT DIVISION OR THE COUNTY ADMINISTRATOR DETERMINES THAT **SUCH PERSON OR ENTITY HAS MADE FALSE CERTIFICATION.**

[Signature]

STATE OF FLORIDA
COUNTY OF _____

Sworn to and subscribed before me this _____ day of _____, 201____ by _____.

Personally known _____ OR Produced identification _____
[Type of identification]

Notary Public Signature My commission expires _____.

[Print, type or stamp Commissioned name of Notary Public]

Signatory Requirement - In the case of a business entity other than a partnership or a corporation, this affidavit shall be executed by an authorized agent of the entity. In the case of a partnership, this affidavit shall be executed by the general partner(s). In the case of a corporation, this affidavit shall be executed by the corporate president.

Bidder must fully execute and return this form with its Bid.

ATTACHMENT D
INSURANCE AND BOND REQUIREMENTS
IFB No. 19-R071301CB

Work under the resulting Agreement cannot commence until all insurance coverages indicated herein have been obtained. The cost for insurance coverages is the sole responsibility of successful Proposer. The Successful Proposer shall obtain and submit to the Procurement Division within ten (10) calendar days from the date of notice of intent to award, proof the following minimum amounts of insurance on a standard ACORD form (inclusive of any amounts provided by an umbrella or excess policy):

STANDARD INSURANCES	REQUIRED LIMITS
1. <input checked="" type="checkbox"/> Automobile Liability:	<p>Coverage must be afforded under a per occurrence policy form including coverage for all owned, hired and non-owned vehicles for bodily injury and property damage of not less than: \$ <u>1,000,000</u> combined single limit; OR \$ <u>500,000</u> bodily injury and \$ <u>500,000</u> property damage. \$<u>10,000</u> Personal Injury Protection (No Fault) \$<u>1,000,000</u> Hired, Non-Owned Liability \$<u>10,000</u> Medical Payments. <i>This policy shall contain severability of interests' provisions.</i></p>
2. <input checked="" type="checkbox"/> Commercial General Liability: (Per Occurrence form only; claims-made form is not acceptable)	<p>Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured, and include limits not less than: \$ <u>1,000,000</u> single limit per occurrence; \$ <u>2,000,000</u> aggregate \$ <u>1,000,000</u> Products/Completed Operations Aggregate \$ <u>1,000,000</u> Personal and Advertising Injury Liability \$ <u>100,000</u> Fire Damage Liability \$ <u>10,000</u> Medical Expense, and \$ <u>1,000,000</u>, Third Party Property Damage. \$ _____ Project Specific Aggregate (Required on projects valued at over \$<u>10,000,000</u>) <i>This policy shall contain severability of interests' provisions.</i></p>
3. <input checked="" type="checkbox"/> Employer's Liability	<p>Coverage limits of not less than: \$<u>100,000</u> each accident \$<u>500,000</u> disease each employee \$<u>500,000</u> disease policy limit</p>
4. <input checked="" type="checkbox"/> Worker's Compensation <input type="checkbox"/> US Longshoremen & Harbor Workers Act coverage <input type="checkbox"/> Jones Act coverage	<p>Coverage limits of not less than:</p> <ul style="list-style-type: none"> • Statutory workers' compensation coverage shall apply for all employees in compliance with the laws and statutes of the State of Florida and the federal government. • If any operations are to be undertaken on or about navigable waters, coverage must be included for the US Longshoremen & Harbor Workers Act and Jones Act.

	<p>Should 'leased employees' be retained for any part of the project or service, the employee leasing agency shall provide evidence of Workers' Compensation coverage and Employer's Liability coverage for all personnel on the worksite and in compliance with the above Workers' Compensation requirements.</p> <p><u>Note:</u> Workers' Compensation coverage is a firm requirement. Elective exemptions are considered on a case-by-case basis and are approved in a very limited number of instances.</p>
OTHER INSURANCES	REQUIRED LIMITS
<p>5. <input type="checkbox"/> Aircraft Liability</p>	<p><input type="checkbox"/> Aircraft Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name 'Manatee County' a political subdivision of the State of Florida' as an Additional Insured, and include limits not less than: \$ _____ Each Occurrence Property and Bodily Injury with no less than <u>\$100,000</u> per passenger each occurrence or a 'smooth' limit. \$ _____ General Aggregate.</p> <p><input type="checkbox"/> Unmanned Aircraft (Drone) Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name 'Manatee County' a political subdivision of the State of Florida' as an Additional Insured, and include limits not less than: \$ _____ Each Occurrence Property and Bodily Injury. Coverage shall specifically include operation of Unmanned Aircraft Systems (UAS), including liability and property damage. \$ _____ General Aggregate.</p>
<p>6. <input type="checkbox"/> Installation Floater</p>	<p>When the contract or agreement does not include construction of, or additions to, above ground building or structures, but does involve the installation of machinery or equipment, Installation Floater Insurance shall be afforded under a per occurrence policy form, policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured, and include limits not less than:</p> <ul style="list-style-type: none"> • 100% of the completed value of such addition(s), building(s), or structure(s)
<p>7. <input type="checkbox"/> Professional Liability and/or Errors and Omissions (E&O) Liability Insurances</p>	<p>Coverage shall be afforded under either an occurrence policy form or a claims-made policy form. If the coverage form is on a claims-made basis, then coverage must be maintained for a minimum of three years from termination of date of the contract. Limits must not be less than:</p> <p>\$ _____ Bodily Injury and Property Damage Each Occurrence \$ _____ General Aggregate</p>

<p>8. <input type="checkbox"/> Builder's Risk Insurance</p>	<p>When the contract or agreement includes the construction of roadways and/or the addition of a permanent structure or building, including the installation of machinery and/or equipment, Builder's Risk Insurance shall be afforded under a per occurrence policy form, policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured, and include limits not less than:</p> <ul style="list-style-type: none"> • An amount equal to 100% of the completed value of the project, or the value of the equipment to be installed • The policy shall not carry a self-insured retention/deductible greater than \$10,000 <p>Coverage shall be for all risks and include, but not be limited to, storage and transport of materials, equipment, supplies of any kind whatsoever to be used on or incidental to the project, theft coverage, and Waiver of Occupancy Clause Endorsement, where applicable.</p>
<p>9. <input type="checkbox"/> Cyber Liability</p>	<p>Coverage shall comply with Florida Statute 501.171, shall be afforded under a per occurrence policy form, policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured, and include limits not less than:</p> <p>\$_____ Security Breach Liability \$_____ Security Breach Expense Each Occurrence \$_____ Security Breach Expense Aggregate \$_____ Replacement or Restoration of Electronic Data \$_____ Extortion Threats \$_____ Business Income and Extra Expense \$_____ Public Relations Expense</p> <ul style="list-style-type: none"> • Policy must not carry a self-insured retention/deductible greater than <u>\$25,000</u>.
<p>10. <input type="checkbox"/> Hazardous Materials Insurances (as noted)</p>	<p>Hazardous materials include all materials and substances that are currently designated or defined as hazardous by the law or rules of regulation by the State of Florida or federal government.</p> <p>All coverage shall be afforded under either an occurrence policy form or a claims-made policy form, and the policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured. If the coverage form is on a claims-made basis, then coverage must be maintained for a minimum of three years from termination of date of the contract. Limits must not be less than:</p> <p><input type="checkbox"/> Pollution Liability</p>

	<ul style="list-style-type: none"> Amount equal to the value of the contract, subject to a <u>\$1,000,000</u> minimum, for Bodily Injury and Property Damage to include sudden and gradual release, each claim and aggregate. <p><input type="checkbox"/> Asbestos Liability (If handling within scope of Contract)</p> <ul style="list-style-type: none"> Amount equal to the value of the contract, subject to a <u>\$1,000,000</u> minimum, for Bodily Injury and Property Damage to include sudden and gradual release, each claim and aggregate. <p><input type="checkbox"/> Disposal</p> <p>When applicable, Successful Proposer shall designate the disposal site and furnish a Certificate of Insurance from the disposal facility for Environmental Impairment Liability Insurance covering liability.</p> <ul style="list-style-type: none"> Amount equal to the value of the contract, subject to a <u>\$1,000,000</u> minimum, for Liability for Sudden and Accidental Occurrences, each claim and an aggregate. Amount equal to the value of the contract, subject to a <u>\$1,000,000</u> minimum, for Liability for Non-Sudden and Accidental Occurrences, each claim and an aggregate.
11. <input type="checkbox"/> Hazardous Waste Transportation Insurance	<p>Successful Proposer shall designate the hauler and have the hauler furnish a Certificate of Insurance for Automobile Liability insurance with Endorsement MCS-90 for liability arising out of the transportation of hazardous materials. EPA identification number shall be provided.</p> <p>All coverage shall be afforded under either an occurrence policy form or a claims-made policy form and the policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured. If the coverage form is on a claims-made basis, then coverage must be maintained for a minimum of three years from termination of date of the contract. Limits must not be less than:</p> <p>Amount equal to the value of the contract, subject to a <u>\$1,000,000</u> minimum, per accident.</p>
12. <input type="checkbox"/> Liquor Liability Insurance	<p>Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured, and include limits not less than:</p> <ul style="list-style-type: none"> <u>\$1,000,000</u> Each Occurrence and Aggregate.

<p>13. <input type="checkbox"/> Garage Keeper's Liability Insurance</p>	<p>Coverage shall be required if the maintenance, servicing, cleaning or repairing of any County motor vehicles is inherent or implied within the provision of the contract.</p> <p>Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured, and include limits not less than:</p> <ul style="list-style-type: none"> • Property and asset coverage in the full replacement value of the lot or garage.
<p>14. <input type="checkbox"/> Bailee's Customer Liability Insurance</p>	<p>Coverage shall be required for damage and/or destruction when County property is temporarily under the care or custody of a person or organization, including property that is on, or in transit to and from the person or organization's premises. Perils covered should include fire, lightning, theft, burglary, robbery, explosion, collision, flood, earthquake and damage or destruction during transportation by a carrier.</p> <p>Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured, and include limits not less than:</p> <p>Property and asset coverage in the full replacement value of the County asset(s) in the Successful Proposer's care, custody and control.</p>
<p>15. <input type="checkbox"/> Hull and Watercraft Liability Insurance</p>	<p>Coverage shall be afforded under a per occurrence policy form, policy shall be endorsed and name "Manatee County, a political subdivision of the State of Florida" as an Additional Insured, and include limits not less than:</p> <ul style="list-style-type: none"> • \$ _____ Each Occurrence; • \$ _____ General Aggregate • \$ _____ Fire Damage Liability • \$ <u>10,000</u> Medical Expense, and • \$ _____ Third Party Property Damage. • \$ _____ Project Specific Aggregate (Required on projects valued at over \$10,000,000)
<p>16. <input type="checkbox"/> Other (Please Specify)</p>	

BOND REQUIREMENTS

<p>17. <input type="checkbox"/> Bid Bond</p>	<p>A Bid Bond in the amount of \$ _____ or ____% of the total offer. Bid bond shall be submitted with the sealed response and shall include project name, location, and / or address and project number.</p> <p>In lieu of the bond, the bidder may file an alternative form of security in the amount of \$ _____ or ____% of the total offer. in the form of a money order, a certified check, a cashier's check, or an irrevocable letter of credit issued to Manatee County.</p> <p>NOTE: A construction project over \$200,000 requires a Bid Bond in the amount of 5% of the total bid offer.</p>
<p>18. <input type="checkbox"/> Payment and Performance Bond</p>	<p>A Payment and Performance Bond shall be submitted by Successful Bidder for 100% of the award amount and shall be presented to Manatee County within ten (10) calendar days of issuance of the notice of intent to award.</p> <p>NOTE: A construction project over \$200,000 requires a Payment and Performance Bond.</p>

Approved: _____

Date: _____

INSURANCE REQUIREMENTS

I. THE POLICIES BELOW ARE TO CONTAIN, OR BE ENDORSED TO CONTAIN, THE FOLLOWING PROVISIONS:

1. Commercial General Liability and Automobile Liability Coverages

- a. **“Manatee County, a Political Subdivision of the State of Florida,” is to be named as an Additional Insured in respect to:** Liability arising out of activities performed by or on behalf of the Successful Proposer, his agents, representatives, and employees; products and completed operations of the Successful Proposer; or automobiles owned, leased, hired or borrowed by the Successful Proposer. The coverage shall contain no special limitation(s) on the scope of protection afforded to the County, its officials, employees or volunteers.

In addition to furnishing a Certificate of Insurance, the Successful Proposer shall provide the endorsement that evidences Manatee County being listed as an Additional Insured. This can be done in one of two ways: (1) an endorsement can be issued that specifically lists “Manatee County, a Political Subdivision of the State of Florida,” as Additional Insured; or, (2) an endorsement can be issued that states that all Certificate Holders are Additional Insured with respect to the policy.

- b. The Successful Proposer's insurance coverage shall be primary insurance with respect to the County, its officials, employees and volunteers. Any insurance or self-insurance maintained by the County, its officials, employees or volunteers shall be excess of Successful Proposer's insurance and shall be non-contributory.
- c. The insurance policies must be on an occurrence form, unless specifically noted otherwise.

2. Workers' Compensation and Employers' Liability Coverages

The insurer shall agree to waive all rights of subrogation against the County, its officials, employees and volunteers for losses arising from work performed by the Successful Proposer for the County.

II. GENERAL INSURANCE PROVISIONS APPLICABLE TO ALL POLICIES:

1. Prior to the execution of contract, or issuance of a Purchase Order, and then annually upon the anniversary date(s) of the insurance policy's renewal date(s) for as long as this contract remains in effect, Successful Proposer shall furnish the County with a Certificate(s) of Insurance (using an industry accepted certificate form, signed by the Issuer, with applicable endorsements, and containing the solicitation or contract number, and title or description) evidencing the coverage set forth above and naming “Manatee County, a Political Subdivision of the State of Florida” as an Additional Insured on the applicable coverage(s) set forth above. In addition, when requested in writing from the County, Successful Proposer will provide the County with a certified copy of all applicable insurance policies. The address where such certificates and certified policies shall be sent or delivered is as follows unless otherwise provided:

**Manatee County, a Political Subdivision of the State of Florida
Attn: Purchasing Division - Procurement
1112 Manatee Avenue West
Bradenton, FL 34205**

2. The project's solicitation number and title shall be listed on each Certificate of Insurance or policy.
 3. If the policy contains an aggregate limit, confirmation is needed in writing (letter, email, etc.) that the aggregate limit has not been eroded to procurement representative when supplying Certificate of Insurance.
 4. Successful Proposer shall provide thirty (30) days written notice of any cancellation, non-renewal, termination, material change, or reduction in coverage of any insurance policies to procurement representative including solicitation number and title with all notices.
 5. Successful Proposer agrees that should at any time Successful Proposer fail to meet or maintain the required insurance coverage(s) as set forth herein, the County may terminate this contract.
 6. The Successful Proposer waives all subrogation rights against Manatee County, a Political Subdivision of the State of Florida, for all losses or damages which occur during the contract and for any events occurring during the contract period, whether the suit is brought during the contract period or not.
 7. The Successful Proposer has sole responsibility for all insurance premiums and policy deductibles.
 8. It is the Successful Proposer's responsibility to ensure that his agents, representatives and subcontractors comply with the insurance requirements set forth herein. Successful Proposer shall include his agents, representatives, and subcontractors working on the project or at the worksite as insured under its policies, or Successful Proposer shall furnish separate certificates and endorsements for each agent, representative, and subcontractor working on the project or at the worksite. All coverages for agents, representatives, and subcontractors shall be subject to all the requirements set forth to the procurement representative.
 9. All required insurance policies must be written with a carrier having a minimum A.M. Best rating of A- FSC VII or better. In addition, the County has the right to review the Successful Proposer's deductible or self-insured retention and to require that it be reduced or eliminated.
- III. Successful Proposer understands and agrees that the stipulated limits of coverage listed herein in this insurance section shall not be construed as a limitation of any potential liability to the County, or to others, and the County's failure to request evidence of this insurance coverage shall not be construed as a waiver of Successful Proposer's obligation to provide and maintain the insurance coverage specified.
- IV. Successful Proposer understands and agrees that the County does not waive its immunity and nothing herein shall be interpreted as a waiver of the County's rights, including the limitation of waiver of immunity, as set forth in Florida Statutes 768.28, or any other statutes, and the County expressly reserves these rights to the full extent allowed by law.
- V. The enclosed Hold Harmless Agreement shall be signed by the Successful Proposer and shall become a part of the contract.
- VI. No award shall be made until the Procurement Division has received the Certificate of Insurance and Hold Harmless Agreement in accordance with this section.

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ATTACHMENT E
INSURANCE STATEMENT
IFB No. 19-R071301CB

THE UNDERSIGNED has read and understands the insurance requirements applicable to any contract resulting from this solicitation and shall provide the insurances required by this Attachment within ten (10) days from the date of Notice of Intent to Award.

Bidder Name: _____ Date: _____

Signature
(Authorized
Official): _____

Printed Name/Title: _____

Insurance Agency: _____

Agent Name: _____ Agent Phone: _____

Return this signed statement with your bid or proposal.

ATTACHMENT F
CONFLICT OF INTEREST AFFIDAVIT
IFB No. 19-R071301CB

The award of this contract is subject to the provisions of Manatee County Code of Laws. Bidder must disclose within its Bid: the name of any officer, director, or agent who is also an employee of Manatee County. Furthermore, all Bidders must disclose the name of any County employee who owns, directly or indirectly, an interest of more than five percent (5%) in the Bidder's firm or any of its branches.

By signing below, Bidder confirms that it is not currently engaged or will not become engaged in any obligations, undertakings or contracts that will require the firm to maintain an adversarial role against the County or that will impair or influence the advice or recommendations it provides to the County.

Please check one of the following statements and attach additional documentation if necessary:

_____ To the best of our knowledge, the undersigned firm has no potential conflict of interest for this IFB.

_____ The undersigned firm, by attachment to this form, submits information which may be a potential conflict of interest for this IFB.

Acknowledged and attested to by:

Firm Name

Signature

Name and Title (Print or Type)

Date

Return this fully executed form with your bid.

ATTACHMENT G
Scrutinized Company Certification
IFB No. 19-R071301CB

This certification is required pursuant to Florida State Statute Section 287.135.

As of July 1, 2011, a company that, at the time of bidding or submitting a proposal for a new contract or renewal of an existing contract, is on the Scrutinized Companies with Activities in Sudan List or the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List is ineligible for, and may not bid on, submit a proposal for, enter into, or renew a contract with an agency or local governmental entity for goods or services **of \$1 million or more.**

Bidder must fully complete and return this form with its Bid.

Company _____ FID or EIN No. _____

Address _____

City _____ State _____ Zip _____

I, _____, as a representative of _____
certify and affirm that this company is not on the Scrutinized Companies with Activities in Sudan List or
the Scrutinized Companies with Activities in the Iran Petroleum Energy Sector List.

Signature Title

Printed Name Date

ATTACHMENT H
PRICING FORM
IFB No. 19-R071301CB

1. Bidders must complete **Attachment H in Micro Soft Excel® format, which is posted on the Procurement webpage of the County's website with this solicitation and available for download. Bidder must provide hard copies and electronic copies of the Pricing Form with its Bid per the requirements of this IFB.**
2. Provide a firm, fixed cost. Costs must be all-inclusive, including any delivery fees, to provide the goods and/or services.

Group	Item	MC Stock Number	Description	UOM	Three- Year Est. Usage	Manufacturer (MFG)	MFG Part Number	Mfg Part Description	Foreign (F)	Domestic (D)	Lead Time (Working Days)	Std Pack Qty	Price	3-Yr Ext Price (J x S)	Alternate MFG	Alternate MFG Part Number	Alternate Part Price	Alternate Part Ext Price (J x W)
Group A	A1	3A1102	ALIGNER SBOXLOK1	EA	3													
Group A	A2	3A1103	ALIGNER SBOXLOK2	EA	3													
Group A	A3	3A1104	ALIGNER SBOXLOK3	EA	3													
Group A	A4	3A1105	Alignment Ring Vlv Box Boxlok	EA	20													
Group A	A5	3L1200	Cement PVC CL Pt w/brush	EA	76													
Group A	A6	3L1205	Cement PVC Wet/Dry Pt	EA	375													
Group A	A7	3L1210	Pipe Dope Teflon Rector Seal	EA	60													
Group A	A8	3L1215	Paste Teflon 4oz	EA	110													
Group A	A9	3L1260	Primer PVC Pnt w/brush	EA	282													
Group A	A10	3N1211	Tape 3/4" Teflon	EA	3372													
Group A	A11	3P1055	Pipe 1/2"x20' PVC Sch40	EA	101													
Group A	A12	3P1060	Pipe 3/4"x20' PVC Sch40	EA	280													
Group A	A13	3P1065	Pipe 1"x20' PVC Sch40	EA	130													
Group A	A14	3P1070	Pipe 1-1/4"x20' PVC Sch40	EA	584													
Group A	A15	3P1075	Pipe 1-1/2"x20' PVC Sch40	EA	138													
Group A	A16	3P1080	Pipe 2"x20' PVC Sch40	EA	99													
Group A	A17	3P1085	Pipe 3"x20' PVC Sch40	EA	114													
Group A	A18	3P1090	Pipe 4"x20' PVC Sch40	EA	16													
Group A	A19	3P1095	Pipe 6"x20' PVC Sch40	EA	12													
Group A	A20	3V1250	Valve 1-1/4" Ball PVC TrUnion	EA	0													
Group A	A21	3V1255	Valve 1-1/2" Ball PVC TrUnion	EA	0													
Group A	A22	3V1260	Valve 2" Ball PVC TrUnion	EA	16													
Group A	A23	3V1395	Valve 1/2" Ball PVC TrUnion	EA	9													
Group A	A24	3V1405	Valve 1" Ball PVC TrUnion	EA	10													
Group A	A25	3V1410	Valve 1/2" Ball PVC SxS Tef	EA	10													
Group A	A26	3V1415	Valve 3/4" Ball PVC SxS Tef	EA	23													
Group A	A27	3V1420	Valve 1" Ball PVC SxS Tef	EA	10													
Group A	A28	3V1425	Valve 1-1/4" Ball PVC SxS Tef	EA	26													
Group A	A29	3V1430	Valve 1-1/2" Ball PVC SxS Tef	EA	12													
Group A	A30	3V1435	Valve 2" Ball PVC SxS Tef	EA	31													
Group A	A31	3Z1004	Plug 1-1/2" Flush PVC DWV	EA	0													
Group A	A32	3Z1010	Bushing 1-1/4"x1" MxF PVC	EA	3													
Group A	A33	3Z1015	Bushing 1-1/4"x3/4" MxF PVC	EA	31													
Group A	A34	3Z1020	Bushing 1-1/2"x3/4" MxF PVC	EA	2													
Group A	A35	3Z1025	Bushng 1-1/2x1-1/4 MxF Sch80	EA	12													
Group A	A36	3Z1030	Bushing 2-1/2"x2" MxF PVC	EA	35													
Group A	A37	3Z1035	Cap 3/4" PVC FIPT	EA	80													
Group A	A38	3Z1040	Cap 1-1/4" PVC FIPT	EA	8													
Group A	A39	3Z1045	Cap 1-1/2" PVC FIPT	EA	6													
Group A	A40	3Z1050	Cap 3" PVC FIPT	EA	5													
Group A	A41	3Z1055	Coupling 3/4" PVC FIPT	EA	1418													
Group A	A42	3Z1060	Coupling 1" PVC FIPT	EA	105													
Group A	A43	3Z1065	Ell 3/4" PVC FIPT 90deg Sch80	EA	1490													
Group A	A44	3Z1070	Ell 1/2" PVC FIPT 90deg Sch80	EA	0													
Group A	A45	3Z1075	Ell 1" PVC FIP 90deg Sch80	EA	33													
Group A	A46	3Z1080	Ell 1-1/4" PVC FIP 90deg Sch80	EA	2													
Group A	A47	3Z1085	Ell 1-1/2" PVC FIP 90deg Sch80	EA	3													
Group A	A48	3Z1090	Ell 2" PVC FIP 90deg Sch80	EA	8													
Group A	A49	3Z1095	Ell 3" PVC FIP 90deg Sch80	EA	10													
Group A	A50	3Z1100	Nipple 1"x12" PVC Sch80	EA	1													
Group A	A51	3Z1105	Nipple 1-1/4"x8" PVC Sch80	EA	0													
Group A	A52	3Z1110	Nipple 1-1/4"x12" PVC Sch80	EA	0													

Group	Item	MC Stock Number	Description	UOM	Three- Year Est. Usage	Manufacturer (MFG)	MFG Part Number	Mfg Part Description	Foreign (F)	Domestic (D)	Lead Time (Working Days)	Std Pack Qty	Price	3-Yr Ext Price (J x S)	Alternate MFG	Alternate MFG Part Number	Alternate Part Price	Alternate Part Ext Price (J x W)
Group A	A53	3Z1115	Nipple 1-1/2"x12" PVC Sch80	EA	8													
Group A	A54	3Z1120	Plug 3/4" MIPT PVC	EA	4													
Group A	A55	3Z1125	Plug 1" MIPT PVC	EA	466													
Group A	A56	3Z1135	Plug 1-1/2" MIPT PVC	EA	0													
Group A	A57	3Z1140	Plug 2" MIPT PVC	EA	2													
Group A	A58	3Z1145	Plug 3" MIPT PVC	EA	0													
Group A	A59	3Z1150	Tee 3/4" PVC FIPT Sch80	EA	0													
Group A	A60	3Z1155	Tee 1" PVC FIPT Sch80	EA	6													
Group A	A61	3Z1160	Tee 1-1/4" PVC FIPT Sch80	EA	12													
Group A	A62	3Z1165	Tee 1-1/2" PVC FIPT Sch80	EA	8													
Group A	A63	3Z1170	Tee 2" PVC FIPT Sch80	EA	18													
Group A	A64	3Z1175	Union 1/2" PVC FIPT Sch80	EA	0													
Group A	A65	3Z1180	Union 3/4" PVC FIPT Sch80	EA	1													
Group A	A66	3Z1185	Union 1" PVC FIPT Sch80	EA	3													
Group A	A67	3Z1190	Union 2" PVC FIPT Sch80	EA	1													
Group A	A68	3Z1195	Union 3" PVC FIPT Sch80	EA	10													
Group A	A69	3Z1200	Union 1-1/4" PVC FIPT Sch80	EA	0													
Group A	A70	3Z1205	Union 1-1/2" PVC FIPT Sch80	EA	30													
Group A	A71	3Z1225	Adapter 1/2" PVC SxMIP	EA	95													
Group A	A72	3Z1230	Adapter 3/4" PVC SxMIP	EA	119													
Group A	A73	3Z1235	Adapter 1" PVC SxMIP	EA	129													
Group A	A74	3Z1240	Adapter 1-1/4" PVC SxMIP	EA	25													
Group A	A75	3Z1245	Adapter 1-1/4"x1" PVC SxMIP	EA	23													
Group A	A76	3Z1250	Adapter 1-1/2" PVC SxMIP	EA	98													
Group A	A77	3Z1255	Adapter 2" PVC SxMIP	EA	55													
Group A	A78	3Z1260	Adapter 2-1/2" PVC SxMIP	EA	4													
Group A	A79	3Z1265	Adapter 3" PVC SxMIP	EA	30													
Group A	A80	3Z1270	Adapter 4" PVC SxMIP	EA	2													
Group A	A81	3Z1275	Adapter 6" PVC SxMIP	EA	0													
Group A	A82	3Z1280	Adapter 1/2" PVC SxFIP	EA	39													
Group A	A83	3Z1295	Adapter 3/4" PVC SxFIP	EA	546													
Group A	A84	3Z1300	Adapter 3/4"x1/2" PVC SxMIP	EA	31													
Group A	A85	3Z1305	Adapter 1" PVC SxFIP	EA	213													
Group A	A86	3Z1310	Adapter 1-1/4" PVC SxFIP	EA	29													
Group A	A87	3Z1315	Adapter 1-1/2" PVC SxFIP	EA	9													
Group A	A88	3Z1320	Adapter 2" PVC SxFIP	EA	39													
Group A	A89	3Z1325	Adapter 2-1/2" PVC SxFIP	EA	10													
Group A	A90	3Z1330	Adapter 3" PVC SxFIP	EA	2													
Group A	A91	3Z1335	Adapter 4" PVC SxFIP	EA	10													
Group A	A92	3Z1340	Adapter 6" PVC SxFIP	EA	6													
Group A	A93	3Z1345	Bushing 3/4"x1/2" PVC SxS	EA	123													
Group A	A94	3Z1350	Bushing 1"x1/2" PVC SxS	EA	12													
Group A	A95	3Z1355	Bushing 1"x3/4" PVC SxS	EA	171													
Group A	A96	3Z1360	Bushing 1-1/4"x3/4" PVC SxS	EA	14													
Group A	A97	3Z1365	Bushing 1-1/4"x1" PVC SxS	EA	58													
Group A	A98	3Z1370	Bushing 1-1/2"x3/4" PVC SxS	EA	108													
Group A	A99	3Z1375	Bushing 1-1/2"x1" PVC SxS	EA	39													
Group A	A100	3Z1380	Bushing 1-1/2"x1-1/4" PVC SxS	EA	36													
Group A	A101	3Z1385	Bushing 2"x3/4" PVC SxS	EA	26													
Group A	A102	3Z1390	Bushing 2"x1" PVC SxS	EA	20													
Group A	A103	3Z1395	Bushing 2"x1-1/4" PVC SxS	EA	34													
Group A	A104	3Z1400	Bushing 2"x1-1/2" PVC SxS	EA	59													

Group	Item	MC Stock Number	Description	UOM	Three- Year Est. Usage	Manufacturer (MFG)	MFG Part Number	Mfg Part Description	Foreign (F)	Domestic (D)	Lead Time (Working Days)	Std Pack Qty	Price	3-Yr Ext Price (J x S)	Alternate MFG	Alternate MFG Part Number	Alternate Part Price	Alternate Part Ext Price (J x W)
Group A	A105	3Z1410	Bushing 3"x2" PVC SxS	EA	30													
Group A	A106	3Z1415	Bushing 4"x2" PVC SxS	EA	2													
Group A	A107	3Z1420	Bushing 4"x3" PVC SxS	EA	14													
Group A	A108	3Z1425	Bushing 6"x4" PVC SxS	EA	22													
Group A	A109	3Z1430	Bushing 3/4"x1/2" PVC SxFIP	EA	108													
Group A	A110	3Z1435	Bushing 1"x1/2" PVC SxFIP	EA	81													
Group A	A111	3Z1440	Bushing 1"x3/4" PVC SxFIP	EA	136													
Group A	A112	3Z1445	Bushing 1-1/4"x3/4" PVC SxFIP	EA	3													
Group A	A113	3Z1450	Bushing 1-1/4"x1" PVC SxFIP	EA	2													
Group A	A114	3Z1455	Bushing 1-1/2"x3/4" PVC SxFIP	EA	17													
Group A	A115	3Z1460	Bushing 1-1/2"x1" PVC SxFIP	EA	1													
Group A	A116	3Z1465	Bushing 1-1/2"x1" PVC MxFIP	EA	0													
Group A	A117	3Z1470	Bushing 1-1/2x1-1/4 PVC SxFIP	EA	23													
Group A	A118	3Z1475	Bushing 2"x1/2" PVC SxFIP	EA	14													
Group A	A119	3Z1480	Bushing 2"x3/4" PVC SxFIP	EA	2													
Group A	A120	3Z1485	Bushing 2"x1" PVC SxFIP	EA	14													
Group A	A121	3Z1490	Bushing 2"x1-1/4" PVC SxFIP	EA	5													
Group A	A122	3Z1495	Bushing 2"x1" PVC MxFIP Sch80	EA	0													
Group A	A123	3Z1500	Bushing 2"x1-1/2" PVC SxFIP	EA	9													
Group A	A124	3Z1505	Bushing 2x1-1/4 MxFIP Sch80	EA	0													
Group A	A125	3Z1510	Bushing 2"x1-1/2" PVC MxFIP	EA	42													
Group A	A126	3Z1515	Bushing 2-1/2"x2" PVC SxFIP	EA	13													
Group A	A127	3Z1520	Cap 1/2" PVC Slip	EA	75													
Group A	A128	3Z1525	Cap 3/4" PVC Slip	EA	159													
Group A	A129	3Z1530	Cap 1" PVC Slip	EA	28													
Group A	A130	3Z1535	Cap 1" PVC FIP	EA	2													
Group A	A131	3Z1540	Cap 1-1/4" PVC Slip	EA	31													
Group A	A132	3Z1545	Cap 1-1/2" PVC Slip	EA	8													
Group A	A133	3Z1550	Cap 2" PVC Slip	EA	40													
Group A	A134	3Z1555	Cap 2" PVC FIP	EA	48													
Group A	A135	3Z1560	Cap 2-1/2" PVC Slip	EA	0													
Group A	A136	3Z1565	Cap 3" PVC Slip	EA	17													
Group A	A137	3Z1570	Cap 4" PVC Slip	EA	25													
Group A	A138	3Z1575	Cap 6" PVC Slip	EA	13													
Group A	A139	3Z1580	Cap 8" PVC Slip	EA	2													
Group A	A140	3Z1585	Coupling 1/2" PVC SxS	EA	210													
Group A	A141	3Z1590	Coupling 3/4" PVC SxS	EA	573													
Group A	A142	3Z1595	Coupling 1" PVC SxS	EA	235													
Group A	A143	3Z1600	Coupling 1-1/4" PVC SxS	EA	86													
Group A	A144	3Z1605	Coupling 1-1/2" PVC SxS	EA	351													
Group A	A145	3Z1610	Coupling 2" PVC SxS	EA	130													
Group A	A146	3Z1615	Coupling 2-1/2" PVC SxS	EA	5													
Group A	A147	3Z1620	Coupling 3" PVC SxS	EA	13													
Group A	A148	3Z1625	Coupling 4" PVC SxS	EA	14													
Group A	A149	3Z1630	Coupling 6" PVC SxS	EA	2													
Group A	A150	3Z1635	Ell 1/2" PVC SxS 45deg	EA	10													
Group A	A151	3Z1640	Ell 3/4" PVC SxS 45deg	EA	296													
Group A	A152	3Z1645	Ell 1" PVC SxS 45deg	EA	180													
Group A	A153	3Z1650	Ell 1-1/4" PVC SxS 45deg	EA	8													
Group A	A154	3Z1655	Ell 1-1/2" PVC SxS 45deg	EA	16													
Group A	A155	3Z1660	Ell 2" PVC SxS 45deg	EA	46													
Group A	A156	3Z1665	Ell 2-1/2" PVC SxS 45deg	EA	0													

Group	Item	MC Stock Number	Description	UOM	Three- Year Est. Usage	Manufacturer (MFG)	MFG Part Number	Mfg Part Description	Foreign (F)	Domestic (D)	Lead Time (Working Days)	Std Pack Qty	Price	3-Yr Ext Price (J x S)	Alternate MFG	Alternate MFG Part Number	Alternate Part Price	Alternate Part Ext Price (J x W)
Group A	A157	3Z1670	Ell 3" PVC SxS 45deg	EA	2													
Group A	A158	3Z1675	Ell 4" PVC SxS 45deg	EA	13													
Group A	A159	3Z1680	Ell 6" PVC SxS 45deg	EA	4													
Group A	A160	3Z1685	Ell 8" PVC SxS 45deg	EA	0													
Group A	A161	3Z1690	Ell 1/2" PVC SxS 90deg	EA	182													
Group A	A162	3Z1695	Ell 3/4" PVC SxS 90deg	EA	528													
Group A	A163	3Z1700	Ell 3/4" PVC 90deg St	EA	20													
Group A	A164	3Z1702	Ell 3/4" PVC FxM 90deg St	EA	67													
Group A	A165	3Z1703	Ell 3/4" PVC SxF 90deg	EA	140													
Group A	A166	3Z1704	Ell 1" PCV SxF 90deg	EA	198													
Group A	A167	3Z1705	Ell 1" PVC SxS 90deg	EA	297													
Group A	A168	3Z1710	Ell 1-1/4" PVC SxS 90deg	EA	18													
Group A	A169	3Z1715	Ell 1-1/2" PVC SxS 90deg	EA	60													
Group A	A170	3Z1720	Ell 2" PVC SxS 90deg	EA	126													
Group A	A171	3Z1725	Ell 2-1/2" PVC SxS 90deg	EA	0													
Group A	A172	3Z1730	Ell 3" PVC SxS 90deg	EA	8													
Group A	A173	3Z1735	Ell 4" PVC SxS 90deg	EA	16													
Group A	A174	3Z1740	Ell 6" PVC SxS 90deg	EA	7													
Group A	A175	3Z1745	Ell 8" PVC SxS 90deg	EA	0													
Group A	A176	3Z1750	Tee 1/2" PVC Slip	EA	58													
Group A	A177	3Z1755	Tee 3/4" PVC Slip	EA	61													
Group A	A178	3Z1760	Tee 1" PVC Slip	EA	52													
Group A	A179	3Z1765	Tee 1-1/4" PVC Slip	EA	0													
Group A	A180	3Z1770	Tee 1-1/2" PVC Slip	EA	45													
Group A	A181	3Z1775	Tee 2" PVC Slip	EA	43													
Group A	A182	3Z1780	Tee 2-1/2" PVC Slip	EA	1													
Group A	A183	3Z1785	Tee 3" PVC Slip	EA	22													
Group A	A184	3Z1790	Tee 4" PVC Slip	EA	0													
Group A	A185	3Z1795	Tee 6" PVC Slip	EA	0													
Group A	A186	3Z1800	Tee 8" PVC Slip	EA	0													
Group A	A187	3Z1810	Nipple 3/4"x2" PVC Sch80	EA	17													
Group A	A188	3Z1815	Nipple 3/4"x4" PVC Sch80	EA	2672													
Group A	A189	3Z1820	Nipple 3/4"x8" PVC Sch80	EA	0													
Group A	A190	3Z1825	Nipple 3/4"x12" PVC Sch80	EA	2													
Group A	A191	3Z1830	Nipple 1"x2" PVC Sch80	EA	1													
Group A	A192	3Z1835	Nipple 1"x4" PVC Sch80	EA	0													
Group A	A193	3Z1840	Nipple 1"x6" PVC Sch80	EA	0													
Group A	A194	3Z1845	Nipple 1-1/4"x2" PVC Sch80	EA	9													
Group A	A195	3Z1850	Nipple 1-1/4"x4" PVC Sch80	EA	6													
Group A	A196	3Z1855	Nipple 1-1/2"x2" PVC Sch80	EA	20													
Group A	A197	3Z1860	Nipple 1-1/2"x4" PVC Sch80	EA	0													
Group A	A198	3Z1865	Nipple 1-1/2"x8" PVC Sch80	EA	0													
Group A	A199	3Z1870	Nipple 2"xClose PVC Sch80	EA	20													
Group A	A200	3Z1875	Nipple 2"x4" PVC Sch80	EA	5													
Group A	A201	3Z1880	Nipple 2"x8" PVC Sch80	EA	22													
Group A	A202	3Z1885	Nipple 2"x12" PVC Sch80	EA	14													
Group A	A203	3Z1887	Nipple 3"xClose Sch 80	EA	10													
Group A	A204	3Z1950	Plug 4" PVC Screw	EA	779													
Group A	A205	3Z1955	Plug 6" PVC Screw	EA	1854													
Group A	A206	3Z1960	Adapter 3" PVC FIPxFLG	EA	6													
Group A	A207	3Z1965	Adapter 4" PVC FIPxFLG	EA	12													
Group A	A208	3Z1970	Adapter 6" PVC FIPxFLG	EA	2													

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Group A	A209	3Z1975	Adapter 3" PVC SxFLG	EA	7													
Group A	A210	3Z1980	Adapter 4" PVC SxFLG	EA	31													
Group A	A211	3Z1985	Adapter 6" PVC SxFLG	EA	8													
Group A	A212	3Z1986	FIng Spigot 4" Van Stone Sch80	EA	4													
Group A	A213	3Z1988	FIng Spig 2-1/2" VStone Sch80	EA	10													
Group A	A214	3Z2610	Coupling 4" PVC SxS Sch80	EA	22													
Group A	A215	3Z2615	Coupling 6" SxS PVC Sch80	EA	0													
Group A	A216	3Z2630	Ell 2" PVC SxS 90deg Sch80	EA	76													
Group A	A217	3Z2640	Ell 4" PVC SxS 90deg Sch80	EA	6													
Group B	B1	3J1030	Clmp 4" Bell Restraint C900	EA	44													
Group B	B2	3J1035	Clmp 6" Bell Restraint C900	EA	19													
Group B	B3	3J1040	Clmp 8" Bell Restraint C900	EA	53													
Group B	B4	3J1185	Clmp 6" Leak Bell Joint C900	EA	2													
Group B	B5	3J1186	Clmp 8" Leak Bell Joint C900	EA	3													
Group B	B6	3J1187	Clmp 10" Leak Bell Joint C900	EA	0													
Group B	B7	3J1188	Clmp 12" Leak Bell Joint C900	EA	0													
Group B	B8	3P1100	Pipe 4"x20' PVC C900 Blue	EA	33													
Group B	B9	3P1105	Pipe 4"x20' PVC C900 Green	EA	8													
Group B	B10	3P1115	Pipe 6"x20' PVC C900 Blue	EA	78													
Group B	B11	3P1120	Pipe 6"x20' PVC C900 Green	EA	28													
Group B	B12	3P1125	Pipe 8"x20' PVC C900 Blue	EA	9													
Group B	B13	3P1130	Pipe 8"x20' PVC C900 Green	EA	18													
Group B	B14	3P1140	Pipe 10"x20' PVC C900 Blue	EA	8													
Group B	B15	3P1145	Pipe 10"x20' PVC C900 Green	EA	7													
Group B	B16	3P1146	Pipe 12"x20' PVC C900 Green	EA	11													
Group B	B17	3P1147	Pipe 16"x20' PVC C900 Green	EA	0													
Group B	B18	3P1150	Pipe 12"x20' PVC C900 Blue	EA	23													
Group B	B19	3P1155	Pipe 16"x20' PVC C900 Blue	EA	2													
Group B	B20	3P1213	Pipe 4"x20' PVC C900 Purp	EA	0													
Group B	B21	3P1217	Pipe 6"x20' PVC C900 Purp	EA	8													
Group B	B22	3P1224	Pipe 8"x20' PVC C900 Purp	EA	13													
Group B	B23	3P1226	Pipe 10"x20' PVC C900 Purp	EA	0													
Group B	B24	3P1227	Pipe 12"x20' PVC C900 Purp	EA	0													
Group C	C1	3P1158	Pipe 10"x14' SDR26 Green	EA	8													
Group C	C2	3P1160	Pipe 4"x13' SDR26 Green	EA	224													
Group C	C3	3P1165	Pipe 6"x14' SDR26 Green	EA	482													
Group C	C4	3P1170	Pipe 8"x13' SDR26 Green	EA	54													
Group C	C5	3P1270	Cam Loc 3"x15" Hose Asm Strain	EA	143													
Group C	C6	3P1275	Hose Asm 3" Strain RHS35	EA	11													
Group C	C7	3P1280	Pipe 3/4"x100' Poly Purp	RO	2													
Group C	C8	3P1285	Pipe 3/4"x100' Poly Blue	RO	229													
Group C	C9	3P1290	Pipe 1"x100' Poly Blue	RO	954													
Group C	C10	3P1295	Pipe 1-1/2"x100' Poly Blue	RO	7													
Group C	C11	3P1300	Pipe 2"x100' Poly Blue	RO	461													
Group C	C12	3P1303	Pipe 2"x20'SDR 21 CL200 Purple	EA	0													
Group C	C13	3P1310	Pipe Cutter Poly #SC125	EA	103													
Group C	C14	3P1315	Pipe 1"x100' Poly Purp	RO	14													
Group C	C15	3P1318	Plastic Tube Cutter	EA	193													
Group C	C16	3P1320	Pipe 1-1/2"x100' Poly Purp	RO	0													
Group C	C17	3P1325	Pipe 2"x100' Poly Purp	EA	6													
Group C	C18	3P1334	Pump w/6' Hose Thirsty Mate	EA	175													
Group C	C19	3S1020	Adapter 4" Cleanout M PVC	EA	609													

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Group C	C20	3S1025	Adapter 6" Cleanout F PVC	EA	1580													
Group C	C21	3S1030	Ell 4" SDR26 BxB 45deg	EA	7													
Group C	C22	3S1035	Ell 4" SDR26 SxB 45deg	EA	651													
Group C	C23	3S1040	Ell 6" SDR26 BxB 45deg	EA	18													
Group C	C24	3S1045	Ell 6" SDR26 SxB 45deg	EA	1171													
Group C	C25	3S1050	Ell 4" SDR26 BxB 22-1/2deg	EA	3													
Group C	C26	3S1055	Ell 4" SDR26 SxB 22-1/2deg	EA	113													
Group C	C27	3S1060	Ell 6" SDR26 BxB 22-1/2deg	EA	12													
Group C	C28	3S1065	Ell 6" SDR26 SxB 22-1/2deg	EA	211													
Group C	C29	3S1085	Wye 4" SDR26 Gasketed	EA	537													
Group C	C30	3S1090	Wye 6" SDR26 Gasketed	EA	708													
Group C	C31	3S1091	WYE 10"x6" HW SWR GxGxG	EA	5													
Group C	C32	3S1095	Wye 8"x6" SDR26 Gasketed	EA	119													
Group C	C33	3S1096	Wye 6"x6"x6" SDR26 Gasketed	EA	98													
Group C	C34	3S1097	Plug 4" Push	EA	256													
Group C	C35	3S1098	Lug 6" Push	EA	221													
Group C	C36	3S1105	Increaser 6"x4" SDR26	EA	8													
Group C	C37	3S1107	Tee 6"x4" SDR26 Sanitary	EA	36													
Group D	D1	3C1005	Insert 3/4" Poly Tubing	EA	21													
Group D	D2	3C1010	Insert 1" Poly Tubing	EA	664													
Group D	D3	3C1015	Insert 2" Poly Tubing	EA	210													
Group D	D4	3C1020	Insert 1-1/2" Poly Tubing	EA	5													
Group E	E1	3V1042	Valve 3" w/pet cock OSY	EA	2													
Group E	E2	3V1045	Valve 4" w/pet cock OSY	EA	5													
Group E	E3	3V1050	Valve 6" w/pet cock OSY	EA	5													
Group E	E4	3V1053	Valve 10" w/pet cock OSY	EA	2													
Group E	E5	3V1055	Valve 3" Gate Flng	EA	1													
Group E	E6	3V1060	Valve 6" Gate Flng	EA	18													
Group E	E7	3V1065	Valve 4" Gate Flng	EA	35													
Group E	E8	3V1070	Valve 8" Gate Flng	EA	12													
Group E	E9	3V1072	Valve 10" Gate Flng	EA	0													
Group E	E10	3V1073	Valve 12" Gate Flng	EA	0													
Group E	E11	3V1075	Valve 3" Gate MJ EPDM	EA	1													
Group E	E12	3V1080	Valve 4" Gate MJ EPDM	EA	73													
Group E	E13	3V1085	Valve 6" Gate MJ EPDM	EA	136													
Group E	E14	3V1090	Valve 8" Gate MJ EPDM	EA	36													
Group E	E15	3V1095	Valve 10" Gate MJ EPDM	EA	6													
Group E	E16	3V1100	Valve 12" Gate MJ EPDM	EA	13													
Group E	E17	3V1105	Valve 16" Gate MJ EPDM	EA	3													
Group E	E18	3V1130	Valve 4" Tap MJ EPDM	EA	14													
Group E	E19	3V1135	Valve 6" Tap MJ EPDM	EA	24													
Group E	E20	3V1140	Valve 8" Tap MJ EPDM	EA	4													
Group E	E21	3V1145	Valve 10" Tap MJ EPDM	EA	5													
Group E	E22	3V1150	Valve 12" Tap MJ EPDM DI	EA	3													
Group E	E23	3V1175	Valve 3' Stem Ext	EA	7													
Group E	E24	3V1180	Valve 4' Stem Ext	EA	6													
Group E	E25	3V1185	Valve 5' Stem Ext	EA	4													
Group E	E26	3V1191	Valve ID Tag Brass Hyd GV	EA	57													
Group E	E27	3V1192	Valve ID Tag Brass GV	EA	320													
Group E	E28	3V1193	Valve ID Tag Brass BFV	EA	80													
Group E	E29	3V1194	Valve ID Tag Brass Blank	EA	109													
Group E	E30	3V1195	Valve ID Tag Brass BFV Reclaim	EA	5													

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Group E	E31	3V1196	Valve ID Tag Brass GV Reclaim	EA	5													
Group E	E32	3V1220	Valve 2" Air Release Sewer E	EA	323													
Group E	E33	3V1221	VALVE PRESSURE RELIEF 3/4"3000"	EA	20													
Group E	E34	3V1223	Valve 1" Air Release Water	EA	65													
Group E	E38	3X1050	Gauge Pressure 0-200# 1/4"npt	EA	97													
Group F	F1	3A1005	Adapter 3" FLGxMJ DI	EA	3													
Group F	F2	3A1010	Adapter 4" FLGxMJ DI	EA	3													
Group F	F3	3A1015	Adapter 6" FLGxMJ DI	EA	0													
Group F	F4	3A1016	Adapter 8" FLGxMJ DI	EA	20													
Group F	F5	3A1025	Adapter 3" Flng Coup DI	EA	0													
Group F	F6	3A1030	Adapter 4" Flng Coup DI	EA	4													
Group F	F7	3A1035	Adapter 6" Flng Coup DI	EA	0													
Group F	F8	3A1040	Adapter 8" Flng Coup DI	EA	8													
Group F	F9	3A1053	Adapter 3" Uniflg CI 400-C	EA	8													
Group F	F10	3A1055	Adapter 4" Uniflg CI MOD 400-C	EA	23													
Group F	F11	3A1060	Adapter 6" Uniflg CI MOD 400-C	EA	10													
Group F	F12	3A1080	Adapter 6" MJ w/kit SDR11	EA	62													
Group F	F13	3A1085	Adapter 8" MJ w/kit SDR11	EA	16													
Group F	F14	3F1006	Ell 4" Flng DI 45deg Epoxy	EA	0													
Group F	F15	3F1013	Ell 6" Flng DI 90deg Epoxy	EA	2													
Group F	F16	3F1016	Ell 8" Flng DI 90deg Epoxy	EA	4													
Group F	F17	3F1021	Blind 6" Flng DI Epoxy	EA	19													
Group F	F18	3F1022	Blind 8" Flng DI	EA	13													
Group F	F19	3F1027	Cross 4" Flng DI Epoxy	EA	0													
Group F	F20	3F1031	Cross 6" Flng DI Epoxy	EA	5													
Group F	F21	3F1034	Cross 8" Flng DI Epoxy	EA	1													
Group F	F22	3F1041	Ell 3" Flng DI 90deg Epoxy	EA	2													
Group F	F23	3F1048	Ell 4" Flng DI 90deg Epoxy	EA	2													
Group F	F24	3F1050	Ell 12" Flng DI 90deg	EA	0													
Group F	F25	3F1056	Ell 3" Flng DI 45deg Epoxy	EA	0													
Group F	F26	3F1061	Ell 6" Flng DI 45deg Epoxy	EA	0													
Group F	F27	3F1072	Flng 3"x2" Tapped DI Epoxy	EA	10													
Group F	F28	3F1076	Flng 4"x2" Tapped DI Epoxy	EA	15													
Group F	F29	3F1081	Flng 6"x2" Tapped DI Epoxy	EA	3													
Group F	F30	3F1084	Flng 8"x2" Tapped DI Epoxy	EA	2													
Group F	F31	3F1085	Spool 3"x2' Flng DI	EA	1													
Group F	F32	3F1091	Spool 4"x2' Flng DI Epoxy	EA	4													
Group F	F33	3F1095	Spool 6"x2' Flng DI	EA	2													
Group F	F34	3F1100	Spool 6"x4' Flng DI	EA	2													
Group F	F35	3F1105	Spool 6"x5' Flng DI	EA	0													
Group F	F36	3F1116	Tee 3" Flng DI Epoxy	EA	2													
Group F	F37	3F1121	Tee 4" Flng DI Epoxy	EA	12													
Group F	F38	3F1124	Tee 6" Flng DI Epoxy	EA	1													
Group F	F39	3F1130	Gasket 2" Flng Full Face	EA	14													
Group F	F40	3F1135	Gasket 3" Flng Full Face	EA	79													
Group F	F41	3F1140	Gasket 4" Flng Full Face	EA	234													
Group F	F42	3F1145	Gasket 6" Flng Full Face	EA	164													
Group F	F43	3F1150	Gasket 8" Flng Full Face	EA	117													
Group F	F44	3F1155	Gasket 10" Flng Full Face	EA	67													
Group F	F45	3F1160	Gasket 12" Flng Full Face	EA	83													
Group F	F46	3K1005	Kit 3" MJ Acc	EA	51													
Group F	F47	3K1006	Kit 3" MJ Acc w/gland	EA	0													

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Group F	F48	3K1010	Kit 4" MJ Acc	EA	256													
Group F	F49	3K1011	Kit 4" MJ Acc w/gland	EA	4													
Group F	F50	3K1015	Kit 6" MJ Acc	EA	698													
Group F	F51	3K1016	Kit 6" MJ Acc w/gland	EA	7													
Group F	F52	3K1020	Kit 8" MJ Acc	EA	181													
Group F	F53	3K1025	Kit 10" MJ Acc	EA	32													
Group F	F54	3K1026	Kit 10" MJ Acc w/gland	EA	2													
Group F	F55	3K1030	Kit 12" MJ Acc	EA	96													
Group F	F56	3K1035	Kit 4" Grip Ring w/acc	EA	0													
Group F	F57	3K1040	Kit 6" Grip Ring w/acc	EA	9													
Group F	F58	3K1045	Kit 8" Grip Ring w/acc	EA	0													
Group F	F59	3K1050	Kit 10" Grip Ring w/acc	EA	0													
Group F	F60	3K1055	Kit 12" Grip Ring w/acc	EA	1													
Group F	F61	3K1056	Kit 14" MJ Acc	EA	16													
Group F	F62	3K1057	Kit 16" MJ Acc	EA	31													
Group F	F63	3K1058	Kit 18" MJ Acc	EA	22													
Group F	F64	3K1059	Kit 20" MJ Acc	EA	24													
Group F	F65	3K1080	Clmp 3" Megalug DI	EA	37													
Group F	F66	3K1085	Clmp 4" Megalug DI	EA	121													
Group F	F67	3K1090	Clmp 6" Megalug DI	EA	273													
Group F	F68	3K1095	Clmp 8" Megalug DI	EA	120													
Group F	F69	3K1100	Clmp 10" Megalug DI	EA	10													
Group F	F70	3K1105	Clmp 12" Megalug DI	EA	42													
Group F	F71	3K1106	Clmp 14" Megalug DI	EA	10													
Group F	F72	3K1107	Clmp 16" Megalug DI	EA	13													
Group F	F73	3K1109	Clamp 3" Megalug C900 w/Kit	EA	40													
Group F	F74	3K1110	Clamp 4" Megalug C900 w/Kit	EA	295													
Group F	F75	3K1115	Clamp 6" Megalug C900 w/Kit	EA	513													
Group F	F76	3K1120	Clamp 8" Megalug C900 w/Kit	EA	110													
Group F	F77	3K1125	Clamp 10" Megalug C900 w/Kit	EA	51													
Group F	F78	3K1130	Clamp 12" Megalug C900 w/Kit	EA	112													
Group F	F79	3K1135	Clmp 14" Megalug C900	EA	0													
Group F	F80	3K1140	Clmp 16" Megalug C900	EA	8													
Group F	F81	3K1155	Clmp 20" Megalug C900	EA	12													
Group F	F82	3M1007	EII 4" MJ DI 11-1/4deg Epoxy	EA	2													
Group F	F83	3M1008	EII 6" MJ DI 11-1/4deg Epoxy	EA	2													
Group F	F84	3M1015	Cross 4" MJ DI	EA	5													
Group F	F85	3M1022	Cross 6" MJ DI Epoxy	EA	21													
Group F	F86	3M1027	Cross 8" MJ DI Epoxy	EA	1													
Group F	F87	3M1031	EII 4" MJ DI 22-1/2deg Epoxy	EA	12													
Group F	F88	3M1036	EII 6" MJ DI 22-1/2deg Epoxy	EA	8													
Group F	F89	3M1041	EII 8" MJ DI 22-1/2deg Epoxy	EA	5													
Group F	F90	3M1064	Cap 3" MJ DI Epoxy	EA	0													
Group F	F91	3M1067	Cap 4" MJ DI Epoxy	EA	2													
Group F	F92	3M1072	Cap 6" MJ DI Epoxy	EA	5													
Group F	F93	3M1077	Cap 8" MJ DI Epoxy	EA	2													
Group F	F94	3M1082	Cap 10" MJ DI Epoxy	EA	0													
Group F	F95	3M1092	Cap 3"x2" MJxFIPT MJ DI Epoxy	EA	12													
Group F	F96	3M1097	Cap 4"x2" MJxFIPT DI Epoxy	EA	32													
Group F	F97	3M1102	Cap 6"x2" MJxFIPT DI Epoxy	EA	12													
Group F	F98	3M1107	Cap 8"x2" MJxFIPT DI Epoxy	EA	0													
Group F	F99	3M1110	Cap 10"x2" MJxFIPT DI	EA	0													

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Group F	F100	3M1122	Ell 3" MJ DI 45deg Epoxy	EA	5													
Group F	F101	3M1127	Ell 4" MJ DI 45deg Epoxy	EA	14													
Group F	F102	3M1133	Ell 6" MJ DI 45deg Epoxy	EA	62													
Group F	F103	3M1137	Ell 8" MJ DI 45deg Epoxy	EA	24													
Group F	F104	3M1140	Ell 10" MJ DI 45deg	EA	1													
Group F	F105	3M1145	Ell 12" MJ DI 45deg	EA	10													
Group F	F106	3M1146	Ell 12" MJ DI 45deg Epoxy	EA	2													
Group F	F107	3M1167	Ell 3" MJ DI 90deg Epoxy	EA	0													
Group F	F108	3M1172	Ell 4" MJ DI 90deg Epoxy	EA	13													
Group F	F109	3M1177	Ell 6" MJ DI 90deg Epoxy	EA	7													
Group F	F110	3M1182	Ell 8" MJ DI 90deg Epoxy	EA	11													
Group F	F111	3M1187	Ell 10" MJ DI 90deg Epoxy	EA	0													
Group F	F112	3M1190	Ell 12" MJ DI 90deg	EA	8													
Group F	F113	3M1191	Ell 12" MJ DI 90deg Epoxy	EA	13													
Group F	F114	3M1200	Ell 16" MJ DI 90deg	EA	0													
Group F	F115	3M1205	Plug 20" MJ DI	EA	4													
Group F	F116	3M1214	Plug 3" MJ DI Epoxy	EA	0													
Group F	F117	3M1217	Plug 4" MJ DI Epoxy	EA	8													
Group F	F118	3M1222	Plug 6" MJ DI Epoxy	EA	0													
Group F	F119	3M1227	Plug 8" MJ DI Epoxy	EA	0													
Group F	F120	3M1230	Plug 10" MJ DI	EA	0													
Group F	F121	3M1242	Plug 3"x2" MJxFIP DI Epoxy	EA	3													
Group F	F122	3M1247	Plug 4"x2" MJxFIP DI Epoxy	EA	6													
Group F	F123	3M1252	Plug 6"x2" MJxFIP DI Epoxy	EA	7													
Group F	F124	3M1257	Plug 8"x2" MJxFIP DI Epoxy	EA	10													
Group F	F125	3M1262	Plug 10"x2" MJxFIP DI Epoxy	EA	0													
Group F	F126	3M1263	Plug 12"x2" MJxFIP DI Epoxy	EA	2													
Group F	F127	3M1272	Reducer 4"x3" MJ DI Epoxy	EA	8													
Group F	F128	3M1277	Reducer 6"x3" MJ DI Epoxy	EA	3													
Group F	F129	3M1282	Reducer 6"x4" MJ DI Epoxy	EA	10													
Group F	F130	3M1285	Reducer 8"x3" MJ DI	EA	0													
Group F	F131	3M1292	Reducer 8"x4" MJ DI Epoxy	EA	0													
Group F	F132	3M1297	Reducer 8"x6" MJ DI Epoxy	EA	6													
Group F	F133	3M1345	Reducer 20"x14" MJ DI	EA	2													
Group F	F134	3M1347	Reducer 20"x14" MJ DI Epoxy	EA	2													
Group F	F135	3M1357	Reducer 24"x12" MJ DI Epoxy	EA	2													
Group F	F136	3M1360	Reducer 30"x14" MJ DI	EA	2													
Group F	F137	3M1363	Reducer 8"x6" PExMJ DI	EA	3													
Group F	F138	3M1367	Tee 3" MJ DI Epoxy	EA	0													
Group F	F139	3M1369	Reducer 8"x6" PE DI Epoxy	EA	13													
Group F	F140	3M1372	Tee 4" MJ DI Epoxy	EA	8													
Group F	F141	3M1382	Tee 6"x4" MJ DI Epoxy	EA	3													
Group F	F142	3M1387	Tee 6" MJ DI Epoxy	EA	12													
Group F	F143	3M1390	Tee 8" MJ DI	EA	0													
Group F	F144	3M1392	Tee 8" MJ DI Epoxy	EA	3													
Group F	F145	3M1395	Tee 10" MJ DI	EA	0													
Group F	F146	3M1420	Tee 8"x6" MJ DI	EA	0													
Group F	F147	3M1422	Tee 8"x6" MJ DI Epoxy	EA	2													
Group F	F148	3M1427	Tee 10"x4" MJ DI Epoxy	EA	0													
Group F	F149	3M1430	Tee 10"x6" MJ DI	EA	0													
Group F	F150	3M1437	Tee 10"x8" MJ DI Epoxy	EA	2													
Group F	F151	3M1473	Sleeve 6" MJ DI Epoxy	EA	80													

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Group F	F152	3M1477	Sleeve 8" MJ DI Epoxy	EA	61													
Group F	F153	3M1482	Sleeve 3" MJ DI Epoxy	EA	10													
Group F	F154	3M1487	Sleeve 4" MJ DI Epoxy	EA	35													
Group F	F155	3M1488	Sleeve 4" MJ Protecto 401	EA	20													
Group F	F156	3M1489	Sleeve 6" MJ Protecto 401	EA	19													
Group F	F157	3M1491	Ell 4" Protecto 401 45 Deg	EA	6													
Group F	F158	3M1492	Sleeve 10" MJ DI Epoxy	EA	2													
Group F	F159	3M1493	Sleeve 8" MJ Protecto 401	EA	12													
Group F	F160	3M1494	Sleeve 10" MJ Protecto 401	EA	14													
Group F	F161	3M1496	Sleeve 12" MJ DI Epoxy	EA	24													
Group F	F162	3M1497	Sleeve 12" MJ Protecto 401	EA	17													
Group F	F163	3M1498	Ell 6" Protecto 401 45 Deg	EA	12													
Group F	F164	3M1499	Ell 8" Protecto 401 45 Deg	EA	14													
Group F	F165	3M1501	Ell 10" Protecto 401 45 Deg	EA	4													
Group F	F166	3M1502	Sleeve 14" MJ DI Epoxy	EA	2													
Group F	F167	3M1503	Ell 12" Protecto 401 45 Deg	EA	5													
Group F	F168	3M1507	Sleeve 16" MJ DI Epoxy	EA	3													
Group F	F169	3M1512	Sleeve 18" MJ DI Epoxy	EA	2													
Group F	F170	3M1516	Sleeve 20" MJ DI Epoxy	EA	3													
Group F	F171	3M1517	Sleeve 24" MJ DI	EA	2													
Group F	F172	3M1520	Sleeve 30" MJ DI	EA	0													
Group F	F173	3M1525	Sleeve 36" MJ DI	EA	0													
Group F	F174	3M1530	Gasket 3" MJ	EA	6													
Group F	F175	3M1540	Gasket 6" MJ	EA	18													
Group F	F176	3M1545	Gasket 8" MJ	EA	32													
Group F	F177	3M1550	Gasket 10" MJ	EA	19													
Group F	F178	3M1555	Gasket 12" MJ	EA	31													
Group F	F179	3M1560	Gasket 3" Trans	EA	9													
Group F	F180	3M1565	Gasket 4" Trans	EA	66													
Group F	F181	3M1570	Gasket 6" Trans	EA	84													
Group F	F182	3M1575	Gasket 8" Trans	EA	40													
Group F	F183	3M1580	Gasket 10" Trans	EA	3													
Group F	F184	3M1585	Gasket 12" Trans	EA	15													
Group F	F185	3M1595	Gasket 16" Trans	EA	7													
Group F	F186	3M1601	Sleeve 4" MJ C153 Permox	EA	20													
Group F	F187	3M1602	Sleeve 6" MJ C153 Permox	EA	20													
Group F	F188	3M1603	Sleeve 8" MJ C153 Permox	EA	10													
Group F	F189	3M1604	Sleeve 10" MJ C153 Permox	EA	10													
Group F	F190	3M1605	Sleeve 12" MJ C153 Permox	EA	5													
Group F	F191	3M1650	Ell 4" MJ Permox 45 Deg	EA	20													
Group F	F192	3M1651	Ell 6" MJ Permox 45 Deg	EA	20													
Group F	F193	3M1652	Ell 8" MJ Permox 45 Deg	EA	10													
Group F	F194	3M1653	Ell 10" MJ Permox 45 Deg	EA	5													
Group F	F195	3M1654	Ell 12" MJ Permox 45 Deg	EA	5													
Group F	F196	3M1670	ELL 4" MJ PERMOX 45 DEG	EA	20													
Group F	F197	3M1671	ELL 6" MJ PERMOX 45 DEG	EA	20													
Group F	F198	3M1672	ELL 8" MJ PERMOX 45 DEG	EA	10													
Group F	F199	3M1673	TEE 4" MJ PERMOX C153	EA	5													
Group F	F200	3M1674	TEE 6" MJ PERMOX C153	EA	5													
Group F	F201	3M1675	TEE 8" MJ PERMOX C153	EA	5													
Group F	F202	3M1676	REDUCER 8X6 MJ PERMOX C153	EA	10													
Group F	F203	3M1677	REDUCER 6X4 MJ PERMOX C153	EA	10													

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Group F	F204	3P1005	Pipe 4"x20' CL52 DI	EA	24													
Group F	F205	3P1006	Gasket 4" DI Pipe Amer	EA	11													
Group F	F206	3P1010	Pipe 6"x20' CL52 DI	EA	66													
Group F	F207	3P1011	Gasket 6" DI Pipe Amer	EA	41													
Group F	F208	3P1015	Pipe 8"x20' CL52 DI	EA	53													
Group F	F209	3P1016	Gasket 8" DI Pipe Amer	EA	67													
Group F	F210	3P1020	Pipe 10"x20' CL52 DI	EA	1													
Group F	F211	3P1021	Gasket 10" DI Pipe Amer	EA	3													
Group F	F212	3P1025	Pipe 12"x20' CL52 DI	EA	8													
Group F	F213	3P1026	Gasket 12" DI Pipe Amer	EA	12													
Group F	F214	3P1030	Pipe 16"x20' CL50 DI	EA	9													
Group F	F215	3P1040	Pipe 3"x20' FLGxFLG DI	EA	0													
Group F	F216	3P1045	Pipe 4"x20' FLGxFLG DI	EA	4													
Group F	F217	3P1050	Pipe 6"x20' FLGxFLG DI	EA	1													
Group F	F218	3T1005	Slv 36x6	EA	2													
Group F	F219	3T1010	Slv 36x8 412 38.05-38.55 SS	EA	0													
Group F	F220	3T1015	Slv 36x10 412 38.05-38.55 SS	EA	3													
Group F	F221	3T1020	Slv 36x12 412 38.30-38.50 SS	EA	1													
Group F	F222	3T1025	Saddle 2"x1" Tap 2.38 PVC	EA	100													
Group F	F223	3T1027	Saddle 2" Tap 2.125x1IP Poly	EA	87													
Group F	F224	3T1033	Saddle 3"x1" Tap DI AC Epoxy	EA	54													
Group F	F225	3T1035	Saddle 4"x1" Tap AC 4.80-5.40	EA	188													
Group F	F226	3T1040	Saddle 3"x2" Tap AC 3.80-4.25	EA	7													
Group F	F227	3T1045	Saddle 4"x2" Tap AC 4.80-5.40	EA	31													
Group F	F228	3T1050	Saddle 6"x1" Tap AC 6.90-7.50	EA	209													
Group F	F229	3T1055	Saddle 6"x2" Tap AC 6.90-7.50	EA	40													
Group F	F230	3T1060	Saddle 8"x1" Tap AC 9.05-9.62	EA	37													
Group F	F231	3T1065	Saddle 8"x2" Tap AC 9.05-9.62	EA	7													
Group F	F232	3T1070	Saddle 10x2 Tap AC 11.10-12.12	EA	8													
Group F	F233	3T1075	Saddle 12x2 Tap AC 13.20-14.38	EA	13													
Group F	F234	3T1080	Saddle 14x2 Tap AC 15.30-16.80	EA	1													
Group F	F235	3T1085	Saddle 16x2 Tap AC 17.40-18.90	EA	7													
Group F	F236	3T1087	Saddle 16"x2" AC CL200	EA	4													
Group F	F237	3T1090	Saddle 18x2 Tap AC 19.50-21.10	EA	4													
Group F	F238	3T1101	Saddle 24"x2" Tap DI Epoxy	EA	0													
Group F	F239	3T1105	Saddle 30x2 Tap AC 30.50-32.10	EA	1													
Group F	F240	3T1110	Slv 36x2	EA	0													
Group F	F241	3T1120	Saddle 1-1/2"x1" Tap PVC 1.90	EA	10													
Group F	F242	3T1125	Saddle 2-1/2"x1" Tap PVC 2.88	EA	8													
Group F	F243	3T1130	Saddle 3"x1" Tap PVC 3.50	EA	18													
Group F	F244	3T1135	Saddle 3"x2" Tap PVC 3.50	EA	8													
Group F	F245	3T1140	Saddle 4"x2" Tap PVC 4.50	EA	48													
Group F	F246	3T1143	SDL IP SS DBL BLT 4X2 4.4-4.8	EA	51													
Group F	F247	3T1145	Saddle 4"x1" Tap PVC 4.50	EA	140													
Group F	F248	3T1150	Saddle 6"x1" Tap PVC 6.63	EA	255													
Group F	F249	3T1155	Saddle 6"x2" Tap PVC 6.63	EA	55													
Group F	F250	3T1158	SDL IP SS DBL BLT 6X2 6.5-6.9	EA	54													
Group F	F251	3T1160	Saddle 8"x1" Tap PVC 8.63	EA	73													
Group F	F252	3T1163	SDL IP SS DBLBLT 8X2 8.63-9.05	EA	47													
Group F	F253	3T1165	Saddle 8"x2" Tap PVC 8.63	EA	28													
Group F	F254	3T1170	Saddle 10"x2" Tap PVC 10.75	EA	7													
Group F	F255	3T1175	Saddle 12"x2" Tap PVC 12.75	EA	13													

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Group F	F256	3T1180	Slv 6x4 412 6.83-7.16 SS	EA	0													
Group F	F257	3T1195	Slv 10x4 412 11.03-11.47 SS	EA	4													
Group F	F258	3T1205	Slv 12x6 412 14.08-14.56 SS	EA	0													
Group F	F259	3T1210	Slv 12x8 412 14.08-14.56 SS	EA	2													
Group F	F260	3T1220	Sleeve 16"x6" Tap AC E	EA	4													
Group F	F261	3T1225	Slv 16x8 412 18.62-19.19 SS	EA	2													
Group F	F262	3T1235	Sleeve 8"x6" Tap DI	EA	2													
Group F	F263	3T1240	Slv 10x6 412 11.03-11.47 SS	EA	0													
Group F	F264	3T1245	Slv 12x6 412 13.13-13.60 SS	EA	7													
Group F	F265	3T1250	Slv 12x8 412 13.13-13.60 SS	EA	0													
Group F	F266	3T1255	Slv 14x6 412 15.23-15.80 SS	EA	3													
Group F	F267	3T1265	Slv 16x6 412 18.62-19.19	EA	1													
Group F	F268	3T1275	Slv 18x6 412 19.41-20.01 SS	EA	2													
Group F	F269	3T1280	Slv 18x8 412 19.41-20.01 SS	EA	0													
Group F	F270	3T1285	Slv 20x6 412 21.51-22.15 SS	EA	3													
Group F	F271	3T1290	Slv 20x8 412 21.51-22.15 SS	EA	0													
Group F	F272	3T1300	Slv 24x8 412 25.71-26.41 SS	EA	2													
Group F	F273	3T1310	Slv 30x6	EA	0													
Group F	F274	3T1315	Slv 30x8 412 31.52-32.22 SS	EA	0													
Group F	F275	3T1325	Slv 8x4 412 8.98-9.37 SS	EA	3													
Group F	F276	3T1330	Sleeve 8"x6" Tap PVC	EA	1													
Group F	F277	3T1335	Slv 10x6 422 1075x6 SS	EA	2													
Group F	F278	3T1340	Slv 12x6 422 0863x6 SS	EA	3													
Group F	F279	3X1105	Poly Wrap 3"-8" Blue DI	EA	13													
Group G	G1	3G1225	Wire Tracer Access Box	EA	81													
Group G	G2	3G1226	Wire 3-Way WaterProof Conn	EA	518													
Group G	G3	3G1230	Wire Tracer Box Wrench	EA	22													
Group G	G4	3X1090	Manhole Ram Neck Sewer	EA	23													
Group G	G5	3C1285	Key Curb Stop	EA	22													
Group G	G6	3G1156	Wire Blue #10 Steel Coat Solid	EA	40													
Group G	G7	3S1005	Clean Out 32K C1 7621	EA	1770													
Group G	G8	3S1007	Clean Out Lid 7621	EA	2													
Group G	G9	3S1008	Valve Box Lid Sewer	EA	100													
Group G	G10	3S1010	Manhole Lid CI 24" #33A	EA	650													
Group G	G11	3S1015	Manhole Rim CI 24" #33A	EA	555													
Group G	G12	3S1017	Manhole 23-3/4" Prot	EA	0													
Group G	G13	3S1018	Manhole 23-3/4" Prot SS	EA	1774													
Group G	G14	3W1001	Lid 11-1/2"x17" RU C528	EA	267													
Group G	G15	3W1006	Box Meter Water w/Non-lock lid	EA	285													
Group G	G16	3W1009	Box Meter Reclaim w/nolock lid	EA	19													
Group G	G17	3W1010	Box Meter Reclaim Rome 1910	EA	65													
Group G	G18	3W1015	Box Meter 2" Fiberglass	EA	26													
Group G	G19	3W1016	Box Meter 2" Cast Iron Lid	EA	28													
Group G	G20	3W1021	Box 24" 2pc Vlv CI SCR Type18	EA	678													
Group G	G21	3W1025	Valve Box Lid Water	EA	698													
Group G	G22	3W1026	Lid,Valve Deep Cover #6800	EA	46													
Group G	G23	3W1030	Valve Box Riser 1"	EA	193													
Group G	G24	3W1035	Valve Box Riser 1-1/2"	EA	188													
Group G	G25	3W1040	Valve Box Riser 2"	EA	284													
Group G	G26	3W1042	Valve Box Riser 3"	EA	398													
Group G	G27	3W1045	Valve Box 3pc Reclaim w/Sq Lid	EA	49													
Group G	G28	3W1046	Valve Box Riser 2" Sq Reclaim	EA	0													

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Group G	G29	3W1047	Valve Box Riser 3" Sq Reclaim	EA	0													
Group G	G30	3W1050	Lid 3/4" Meter Box CI Water	EA	534													
Group G	G31	3W1051	Lid 2" Hole Meter Box Water	EA	52													
Group G	G32	3W1052	Lid Meter Water Lock	EA	40													
Group G	G33	3W1053	Lid Meter Water Non-lock	EA	20													
Group G	G34	3W1054	Lid Meter Reclaim Lock	EA	31													
Group G	G35	3W1055	Lid 3/4" Meter Box Reclaim	EA	38													
Group G	G36	3W1056	Lid 2" Hole Meter Box Reclaim	EA	11													
Group G	G37	3W1057	Lid Meter Reclaim Non lock	EA	10													
Group G	G38	3W1065	Lid Sq Valve Box Reclaim	EA	6													
Group G	G39	3W1100	Washer 3/4"x1/8" Rub Meter	EA	66700													
Group G	G40	3W1101	Washer 3/4"x1/16" Rub Meter	EA	30998													
Group H	H1	3H1010	Fire Hyd 6"x12" Grade Lok	EA	19													
Group H	H2	3H1015	Fire Hyd 6"x24" Grade Lok	EA	8													
Group H	H3	3H1022	Fire Hyd 5-1/4"x24" (Fire)	EA	4													
Group H	H4	3H1027	Fire Hyd 5-1/4"x30" (Fire)	EA	6													
Group H	H5	3H1032	Fire Hyd 5-1/4"x36" (Fire)	EA	22													
Group H	H6	3H1037	Fire Hyd 5-1/4"x42" (Fire)	EA	26													
Group H	H7	3H1041	Fire Hyd 5-1/4"x48" (Fire)	EA	35													
Group H	H8	3H1045	Fire Hyd Ext 5-1/4"x6" Ken	EA	10													
Group H	H9	3H1047	Fire Hyd Ext 5-1/4"x6" Clow	EA	1													
Group H	H10	3H1050	Fire Hyd Ext 5-1/4"x6" Ame	EA	25													
Group H	H11	3H1055	Fire Hyd Ext 5-1/4"x12" Mue	EA	5													
Group H	H12	3H1056	Fire Hyd Mue Bonnet Repair Kit	EA	3													
Group H	H13	3H1057	Fire Hyd Mue Main Vlv Rep Kit	EA	4													
Group H	H14	3H1058	Fire Hyd Mue Shoe Repair Kit	EA	3													
Group H	H15	3H1060	Fire Hyd Ext 5-1/4"x12" Ame	EA	10													
Group H	H16	3H1062	Fire Hyd Ame B-84-B Repair Kit	EA	3													
Group H	H17	3H1063	FIRE Hyd AME B-84-B Shoe Repair Kit	EA	0													
Group H	H18	3H1065	Fire Hyd Ext 5-1/4"x12" Ken	EA	5													
Group H	H19	3H1066	Fire Hyd Kennedy K81 Valve Kit	EA	3													
Group H	H20	3H1067	Fire Hyd Ext 5-1/4"x12" Clow	EA	0													
Group H	H21	3H1070	Fire Hyd Ext 5-1/4"x6" Mue	EA	13													
Group H	H22	3H1075	Fire Hyd Ext 5-1/4"x18" Mue	EA	1													
Group H	H23	3H1080	Fire Hyd Ext 5-1/4"x18" Ame	EA	10													
Group H	H24	3H1085	Fire Hyd Ext 5-1/4"x18" Ken	EA	4													
Group H	H25	3H1090	Fire Hyd Ext 5-1/4"x24" Mue	EA	0													
Group H	H26	3H1095	Fire Hyd Ext 5-1/4"x24" Ame	EA	4													
Group H	H27	3H1105	Fire Hyd Ext 5-1/4"x24" Ken	EA	0													
Group H	H28	3H1110	Fire Hyd Tee 6" MJxSwivel	EA	19													
Group H	H29	3H1115	Fire Hyd Tee 8"x6" MJxSwivel	EA	7													
Group H	H30	3H1120	Fire Hyd Tee 10"x6" MJxSwivel	EA	5													
Group H	H31	3H1122	Fire Hyd Tee 12"x6" MJxSwivel	EA	2													
Group H	H32	3H1123	Fire Hyd Tee 16"x6" MJxSwivel	EA	1													
Group H	H33	3H1125	Fire Hyd Wrench	EA	5													
Group H	H34	3H1126	Fire Hyd Wrench Storz	EA	31													
Group H	H35	3H1127	Fire Hyd Wrench Reclaim	EA	74													
Group H	H36	3H1130	Fire Hyd Nozzle Adpt	EA	22													
Group H	H37	3H1140	Fire Hyd Repair Kit Ame B-84-B	EA	78													
Group H	H38	3H1145	Fire Hyd Repair Kit Ken K-81-A	EA	102													
Group H	H39	3H1147	Fire Hyd Repair Kit Clow	EA	24													
Group H	H40	3H1150	Fire Hyd Repair Kit Mue A-301	EA	65													

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Group H	H41	3H1155	Fire Hyd Repair Kit M&H	EA	3													
Group H	H42	3H1160	Fire Hyd Ext 5-1/4"x6" AVK	EA	0													
Group H	H43	3H1165	Fire Hyd Ext 5-1/4"x12" AVK	EA	3													
Group H	H44	3H1170	Fire Hyd Ext 5-1/4"x18" AVK	EA	0													
Group H	H45	3H1175	Fire Hyd Ext 5-1/4"x24" AVK	EA	0													
Group H	H46	3H1180	Fire Hyd Repair 27-150-75 AVK	EA	4													
Group H	H47	3H1235	Fire Hyd Repair Kit B-62-B Ame	EA	8													
Group H	H48	3H1300	Hyd Hold Down Nut Ame	EA	4													
Group H	H49	3H1305	Hyd Hold Down Nut AVK	EA	0													
Group H	H50	3H1310	Hyd Hold Down Nut Ken	EA	0													
Group H	H51	3H1315	Hyd Hold Down Nut Clow	EA	0													
Group H	H52	3H1320	Hyd Hold Down Nut Mue	EA	2													
Group H	H53	3L1245	Fire Hyd Oil A51 Gal	EA	24													
Group J	J1	3B1035	Bushing 1"x3/4" Brass	EA	418													
Group J	J2	3B1040	Bushing 1-1/4"x3/4" Brass	EA	11													
Group J	J3	3B1043	Bushing 1-1/4"x1" Brass	EA	67													
Group J	J4	3B1045	Nipple 1-1/2"x2" Brass	EA	58													
Group J	J5	3B1050	Nipple 1-1/2"x4" Brass	EA	280													
Group J	J6	3B1055	Nipple 1-1/2"x6" Brass	EA	139													
Group J	J7	3B1060	Nipple 2"xClose Brass	EA	346													
Group J	J8	3B1065	Nipple 2"x4" Brass	EA	537													
Group J	J9	3B1070	Nipple 2"x6" Brass	EA	412													
Group J	J10	3B1071	Nipple 1-1/2" x 12" Brass	EA	36													
Group J	J11	3B1072	Nipple 2"x12" Brass	EA	167													
Group J	J12	3B1075	Bushing 1/4"x1/8" Brass	EA	18													
Group J	J13	3B1080	Bushing 3/8"x1/4" Brass	EA	16													
Group J	J14	3B1085	Bushing 1/2"x1/4" Brass	EA	43													
Group J	J15	3B1090	Bushing 1/2"x3/8" Brass	EA	38													
Group J	J16	3B1095	Bushing 3/4"x1/4" Brass	EA	69													
Group J	J17	3B1100	Bushing 3/4"x1/2" Brass	EA	109													
Group J	J18	3B1120	Coupling 1/4" Brass FIPT	EA	34													
Group J	J19	3B1125	Coupling 1/2" Brass FIPT	EA	20													
Group J	J20	3B1130	Coupling 3/8" Brass FIPT	EA	2													
Group J	J21	3B1135	Coupling 3/4" Brass FIPT	EA	158													
Group J	J22	3B1140	Coupling 1" Brass FIPT	EA	212													
Group J	J23	3B1142	Coupling 1-1/4" Brass FIPT	EA	17													
Group J	J24	3B1145	Coupling 1-1/2" Brass FIPT	EA	24													
Group J	J25	3B1150	Coupling 2" Brass FIPT	EA	164													
Group J	J26	3B1155	Ell 1/4" Brass 90deg St	EA	35													
Group J	J27	3B1160	Ell 3/8" Brass 90deg St	EA	1													
Group J	J28	3B1165	Ell 1/2" Brass 90deg St	EA	114													
Group J	J29	3B1170	Ell 3/4" Brass 90deg St	EA	168													
Group J	J30	3B1175	Ell 1" Brass 90deg St	EA	352													
Group J	J31	3B1176	Ell 1-1/4" Brass 90deg St	EA	4													
Group J	J32	3B1177	Ell 1-1/2" Brass 90deg St	EA	36													
Group J	J33	3B1178	ELL 2" 304SS 90DEG ST	EA	20													
Group J	J34	3B1179	Ell 2" Brass 90deg St	EA	176													
Group J	J35	3B1180	Nipple 1/4"x2" Brass	EA	84													
Group J	J36	3B1185	Nipple 1/4"x3" Brass	EA	44													
Group J	J37	3B1190	Nipple 1/4"x4" Brass	EA	30													
Group J	J38	3B1195	Nipple 1/4"x6" Brass	EA	36													
Group J	J39	3B1200	Nipple 3/8"x2" Brass	EA	22													

Group	Item	MC Stock Number	Description	UOM	Three- Year Est. Usage	Manufacturer (MFG)	MFG Part Number	Mfg Part Description	Foreign (F)	Domestic (D)	Lead Time (Working Days)	Std Pack Qty	Price	3-Yr Ext Price (J x S)	Alternate MFG	Alternate MFG Part Number	Alternate Part Price	Alternate Part Ext Price (J x W)
Group J	J40	3B1205	Nipple 3/8"x3" Brass	EA	17													
Group J	J41	3B1210	Nipple 3/8"x4" Brass	EA	2													
Group J	J42	3B1215	Nipple 1/2"x2" Brass	EA	77													
Group J	J43	3B1220	Nipple 1/2"x3" Brass	EA	20													
Group J	J44	3B1225	Nipple 1/2"x4" Brass	EA	37													
Group J	J45	3B1230	Nipple 1/2"x6" Brass	EA	35													
Group J	J46	3B1235	Nipple 3/4"xClose Brass	EA	165													
Group J	J47	3B1240	Nipple 3/4"x2" Brass	EA	164													
Group J	J48	3B1245	Nipple 3/4"x4" Brass	EA	102													
Group J	J49	3B1250	Nipple 3/4"x6" Brass	EA	56													
Group J	J50	3B1255	Nipple 1"xClose Brass	EA	234													
Group J	J51	3B1260	Nipple 1"x2" Brass	EA	156													
Group J	J52	3B1265	Nipple 1"x4" Brass	EA	107													
Group J	J53	3B1270	Nipple 1"x6" Brass	EA	99													
Group J	J54	3B1271	Nipple 1-1/4"xClose Brass	EA	2													
Group J	J55	3B1272	Nipple 1-1/4"x2" Brass	EA	14													
Group J	J56	3B1273	Nipple 1-1/4"x4" Brass	EA	26													
Group J	J57	3B1274	Nipple 1-1/4"x6" Brass	EA	31													
Group J	J58	3B1275	Plug 1/4" MIPT Brass	EA	7													
Group J	J59	3B1280	Plug 3/8" MIPT Brass	EA	7													
Group J	J60	3B1285	Plug 1/2" MIPT Brass	EA	33													
Group J	J61	3B1290	Plug 3/4" MIPT Brass	EA	17													
Group J	J62	3B1295	Plug 3/4" CC Brass	EA	11													
Group J	J63	3B1300	Plug 1" MIPT Brass	EA	37													
Group J	J64	3B1305	Plug 1" CC Brass	EA	1													
Group J	J65	3B1307	Plug 1-1/4" MIPT Brass	EA	3													
Group J	J66	3B1310	Plug 1-1/2" MIPT Brass	EA	8													
Group J	J67	3B1315	Plug 2" MIPT Brass	EA	42													
Group J	J68	3B1320	Tee 1/4" FIPT Brass	EA	19													
Group J	J69	3B1325	Tee 3/8" FIPT Brass	EA	1													
Group J	J70	3B1330	Tee 1/2" FIPT Brass	EA	13													
Group J	J71	3B1335	Tee 3/4" FIPT Brass	EA	24													
Group J	J72	3B1340	Tee 1" FIPT Brass	EA	25													
Group J	J73	3B1343	Tee 1-1/4" FIPT Brass	EA	3													
Group J	J74	3B1345	Tee 1-1/2" FIPT Brass	EA	35													
Group J	J75	3B1350	Tee 2" FIPT Brass	EA	68													
Group J	J76	3B1355	Bushing 2"x3/4" Brass	EA	55													
Group J	J77	3B1360	Bushing 2"x1" Brass	EA	287													
Group J	J78	3B1365	Bushing 1-1/2"x1" Brass	EA	181													
Group J	J79	3B1370	Bushing 2"x1-1/4" Brass	EA	15													
Group J	J80	3B1375	Bushing 2"x1-1/2" Brass	EA	148													
Group J	J81	3B1380	Ell 1/4" Brass 45deg	EA	1													
Group J	J82	3B1385	Ell 1/2" Brass 45deg	EA	10													
Group J	J83	3B1390	Ell 3/4" Brass 45deg	EA	32													
Group J	J84	3B1392	Ell 1" Brass 45Deg	EA	68													
Group J	J85	3B1393	Ell 1-1/4" Brass 45deg	EA	0													
Group J	J86	3B1395	Ell 1-1/2" Brass 45deg	EA	8													
Group J	J87	3B1397	Ell 2" Brass 45deg	EA	138													
Group J	J88	3B1400	Ell 1/4" Brass 90deg	EA	23													
Group J	J89	3B1405	Ell 3/8" Brass 90deg	EA	0													
Group J	J90	3B1410	Ell 1/2" Brass 90deg	EA	37													
Group J	J91	3B1415	Ell 3/4" Brass 90deg	EA	58													

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Group J	J92	3B1420	Ell 1" Brass 90deg	EA	110													
Group J	J93	3B1422	Ell 1-1/4" Brass 90deg	EA	15													
Group J	J94	3B1425	Ell 1-1/2" Brass 90deg	EA	7													
Group J	J95	3B1430	Ell 2" Brass 90deg	EA	179													
Group J	J96	3B1431	ELL 2" 304SS 90DEG	EA	15													
Group J	J97	3B1435	Nipple 3"x6" Brass	EA	6													
Group J	J98	3V1200	Valve 1/4" Ball Brass FIP	EA	66													
Group J	J99	3V1205	Valve 1/2" Ball Brass FIP	EA	513													
Group J	J100	3V1210	Valve 3/4" Ball Brass FIP	EA	117													
Group J	J101	3V1215	Valve 1" Ball Brass FIP	EA	557													
Group J	J102	3V1217	Valve 1-1/2" Ball Brass FIP	EA	32													
Group J	J103	3V1218	Valve 2" Ball Brass FIP	EA	61													
Group J	J104	3V1265	Valve 3/4" Swing Check Brass	EA	1													
Group J	J105	3V1270	Valve 1" Swing Check Brass	EA	0													
Group J	J106	3V1275	Valve 1-1/4" Swing Check Brass	EA	0													
Group J	J107	3V1280	Valve 1-1/2" Swing Check Brass	EA	1													
Group J	J108	3V1285	Valve 2" Swing Check Brass	EA	120													
Group J	J109	3V1290	Valve 2-1/2" Swing Check Brass	EA	0													
Group J	J110	3V1295	Valve 3" Swing Check Brass FIP	EA	15													
Group J	J111	3V1300	Valve 4" Swing Check Brass FIP	EA	4													
Group J	J112	3V1305	Valve 3/4" Gate Brass	EA	27													
Group J	J113	3V1310	Valve 1/2" Gate Brass	EA	20													
Group J	J114	3V1315	Valve 1" Gate Brass	EA	58													
Group J	J115	3V1320	Valve 1-1/4" Gate Brass	EA	8													
Group J	J116	3V1325	Valve 1-1/2" Gate Brass	EA	28													
Group J	J117	3V1330	Valve 2" Gate Brass	EA	105													
Group J	J118	3V1335	Valve 2" Gate w/operating nut	EA	167													
Group J	J119	3V1340	Valve 2-1/2" Gate Brass	EA	1													
Group J	J120	3V1345	Valve 3" Gate Brass	EA	15													
Group J	J121	3V1350	Valve 4" Gate Brass	EA	0													
Group J	J122	3V1355	Valve 3/4" Hose Bib Brass	EA	1575													
Group K	K1	3B1001	Coupling 3/4" Quick Joint	EA	42													
Group K	K2	3B1002	Coupling 1" Quick Joint	EA	48													
Group K	K3	3B1006	Coupling 1"x3/4" MTR	EA	4782													
Group K	K4	3B1007	Coupling MTR 3/4"x2"	EA	503													
Group K	K5	3B1010	Meter Adaptor 5/8"x3/4"x3/4"	EA	153													
Group K	K6	3B1015	Coupling MTR 3/4"x2.5"	EA	3028													
Group K	K7	3B1020	Coupling 1" MTR Brass	EA	365													
Group K	K8	3B1025	Coupling 1-1/2" MTR Brass	EA	4													
Group K	K9	3B1030	Coupling 2" MTR Brass	EA	14													
Group K	K10	3C1025	Adapter 3/4" CPxMIP Brass	EA	1037													
Group K	K11	3C1026	Adapter 3/4" PVCxMIP Brass	EA	64													
Group K	K12	3C1030	Adapter 1" CPxMIP Brass	EA	2317													
Group K	K13	3C1031	Adapter 1" PVCxMIP Brass	EA	84													
Group K	K14	3C1035	Adapter 1-1/2" CPxMIP Brass	EA	99													
Group K	K15	3C1036	Adapter 1-1/2" MIPxPVC Brass	EA	48													
Group K	K16	3C1038	Adapter 1-1/4" MIPxPVC Brass	EA	18													
Group K	K17	3C1040	Adapter 2" CPxMIP Brass	EA	643													
Group K	K18	3C1042	Adapter 2" IPxMIP Brass	EA	220													
Group K	K19	3C1045	Adapter 3/4" CPxFIP Brass	EA	235													
Group K	K20	3C1046	Adapter 3/4" PVCxFIP Brass	EA	224													
Group K	K21	3C1050	Adapter 1" CPxFIP Brass	EA	324													

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Group K	K22	3C1051	Adapter 1" PVCxPIP Brass	EA	158													
Group K	K23	3C1055	Adapter 1-1/2" CPxPIP Brass	EA	28													
Group K	K24	3C1056	Adapter 1-1/2" FIPxPVC Brass	EA	17													
Group K	K25	3C1058	Adapter 1-1/4" FIPxPVC Brass	EA	31													
Group K	K26	3C1060	Adapter 2" CPxPIP Brass	EA	196													
Group K	K27	3C1062	Adapter 2" FIPxPVC Brass	EA	124													
Group K	K28	3C1065	Loc Pac 1-1/2" Ford CT35-66	EA	564													
Group K	K29	3C1070	Loc Pac 2" Ford CT35-77	EA	625													
Group K	K30	3C1075	Tee 3/4" Comp Brass	EA	65													
Group K	K31	3C1080	Tee 3/4"x3/4"x1" Comp Brass	EA	35													
Group K	K32	3C1085	Tee 1"x1"x3/4" Comp Brass	EA	47													
Group K	K33	3C1090	Tee 1" Comp Brass	EA	226													
Group K	K34	3C1095	Tee 2"x1" Comp Brass	EA	46													
Group K	K35	3C1105	Ell 1" Comp Brass CTS	EA	227													
Group K	K36	3C1115	Union 3/4" Comp Brass CTS	EA	400													
Group K	K37	3C1117	Coupling 3/4"x1" CTS	EA	466													
Group K	K38	3C1120	Union 1" Comp Brass CTS	EA	678													
Group K	K39	3C1125	Union 1-1/2" Comp Brass CTS	EA	29													
Group K	K40	3C1130	Union 2" Comp Brass CTS	EA	114													
Group K	K41	3C1132	Union 2" Comp Brass IPS	EA	100													
Group K	K42	3C1135	Wye 1"x3/4" Comp Brass CTS	EA	282													
Group K	K43	3C1137	Wye 1" x1" Ford	EA	285													
Group K	K44	3C1138	Wye 2"x1" Ford Y44-274	EA	45													
Group K	K45	3C1215	Valve Corp 3/4" CMPSxCC	EA	80													
Group K	K46	3C1220	Valve Corp 1" CMPSxCC	EA	150													
Group K	K47	3C1221	Bell Nut 3/4" FNGD4 CRB/CRP	EA	982													
Group K	K48	3C1222	Bell Nut 1" NG-FF4 CRP	EA	1586													
Group K	K49	3C1223	Bell Nut 1" NG-F4 CRB	EA	1638													
Group K	K50	3C1225	Valve Corp 1-1/2" FIPxMIPT	EA	36													
Group K	K51	3C1226	Valve Corp 1-1/2" FIPTxCC	EA	10													
Group K	K52	3C1228	Valve Corp 2" FIPTxCC	EA	12													
Group K	K53	3C1230	Valve Corp 2" MIPxFIP	EA	229													
Group K	K54	3C1235	Valve Corp 3/4" CMPSxMIP	EA	38													
Group K	K55	3C1243	Valve Ball-Corp 1" Ford FB1100	EA	1315													
Group K	K56	3C1248	Valve Curb 3/4" w/lkwing PVC	EA	173													
Group K	K57	3C1250	Valve Curb 3/4" w/lkwing CP	EA	2660													
Group K	K58	3C1253	Valve Curb 1" w/lkwing PVC	EA	125													
Group K	K59	3C1255	Valve Curb 1" w/lkwing CP	EA	5795													
Group K	K60	3C1256	Coupling 3/4" CTSx3/4" PVC	EA	93													
Group K	K61	3C1257	Coupling 1" CTSx1" PVC	EA	99													
Group K	K62	3C1260	Valve Curb 3/4" FIPxFIP	EA	119													
Group K	K63	3C1265	Valve Curb 1" FIPxFIP	EA	132													
Group K	K64	3C1270	Valve Curb 1-1/2" FIPxFIP	EA	78													
Group K	K65	3C1275	Valve Curb 2" FIPxFIP	EA	223													
Group K	K66	3C1280	Wye Multiserv 2"x4-1"	EA	57													
Group K	K67	3W1155	Meter VB42-7W Reset	EA	1564													
Group K	K68	3W1160	Meter VB42-9W Reset	EA	200													
Group K	K69	3W1165	Meter FVB4212W 3/4"x12" Reset	EA	83													
Group K	K70	3W1170	Meter FVB4218W 3/4"x18" Reset	EA	4													
Group K	K71	3W1175	Meter FVB4224W 3/4"x24" Reset	EA	6													
Group K	K72	3W1180	Meter VB44 1"x10W Reset	EA	34													
Group K	K73	3W1185	Meter VB44 1"x15W Reset	EA	2													

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Group K	K74	3W1188	Meter Flng Set 1 1/2" w/SS N/B	EA	27													
Group K	K75	3W1189	Meter Flng Set 2" w/SS NB	EA	41													
Group K	K76	3W1225	Meter FVB4215W 3/4"x15" Reset	EA	12													
Group L	L1	3V1230	Valve 3/4" Bkfl Dbl Check	EA	3													
Group L	L2	3V1235	Valve 1" Bkfl Dbl Check	EA	3													
Group L	L3	3V1240	Valve 2" Bkfl Dbl Check	EA	4													
Group L	L4	3V1245	Valve 1-1/2" Bkfl Dbl Check	EA	4													
Group L	L5	3V1360	Valve 3/4" Bkfl Red Pres	EA	4													
Group L	L6	3V1365	Valve 1" Bkfl Red Pres	EA	2													
Group L	L7	3V1370	Valve 1-1/2" Bkfl Red Pres	EA	3													
Group L	L8	3V1375	Valve 2" Bkfl Red Pres	EA	16													
Group I	I1	3C1175	Coupling Dresser 1/2"	EA	1													
Group I	I2	3C1180	Coupling Dresser 3/4"	EA	43													
Group I	I3	3C1185	Coupling Dresser 1"	EA	27													
Group I	I4	3C1190	Coupling Dresser 1-1/4"	EA	13													
Group I	I5	3C1195	Coupling Dresser 1-1/2"	EA	33													
Group I	I6	3C1200	Coupling Dresser 2"	EA	58													
Group I	I7	3R1005	Clmp 3/4"x3" SS CTS Redi	EA	257													
Group I	I8	3R1010	Clmp 3/4"x6" SS CTS Redi	EA	116													
Group I	I9	3R1015	Clmp 1"x3" SS CTS Redi	EA	283													
Group I	I10	3R1020	Clmp 1"x6" SS CTS Redi	EA	116													
Group I	I11	3R1025	Clmp 1-1/4"x3" SS CTS Redi	EA	7													
Group I	I12	3R1030	Clmp 1-1/4"x6" SS CTS Redi	EA	6													
Group I	I13	3R1035	Clmp 1-1/2"x3" SS CTS Redi	EA	15													
Group I	I14	3R1040	Clmp 1-1/2"x6" SS CTS Redi	EA	15													
Group I	I15	3R1045	Clmp 2"x3" SS CTS Redi	EA	27													
Group I	I16	3R1050	Clmp 2"x6" SS CTS Redi	EA	18													
Group I	I17	3R1055	Clmp 2"x7" SS PVC CI Rep	EA	42													
Group I	I18	3R1060	Clmp 2"x12" SS PVC CI Rep	EA	63													
Group I	I19	3R1065	Clmp 3"x7" SS AC RB Rep	EA	8													
Group I	I20	3R1070	Clmp 3"x15" SS AC RB Rep	EA	24													
Group I	I21	3R1075	Clmp 4"x7" SS CL200 AC Rep	EA	18													
Group I	I22	3R1080	Clmp 4"x15" SS CL150 AC Rep	EA	39													
Group I	I23	3R1085	Clmp 6"x7" SS CL150 AC Rep	EA	13													
Group I	I24	3R1090	Clmp 6"x15" SS CL150 AC Rep	EA	61													
Group I	I25	3R1095	Clmp 8"x15" SS CL150 AC Rep	EA	15													
Group I	I26	3R1100	Clmp 10"x15" SS CL200 AC Rep	EA	0													
Group I	I27	3R1105	Clmp 12"x15" SS CL200 AC Rep	EA	6													
Group I	I28	3R1110	Clmp 14"x15" SS AC RB Rep	EA	2													
Group I	I29	3R1115	Clmp 16"x20" SS AC RB Rep	EA	7													
Group I	I30	3R1140	Clmp 4"x7" SS CL150 AC Rep	EA	16													
Group I	I31	3R1145	Clmp 4"x15" SS CL200 AC Rep	EA	32													
Group I	I32	3R1150	Clmp 6"x7" SS CL200 AC Rep	EA	4													
Group I	I33	3R1155	Clmp 6"x15" SS CL200 AC Rep	EA	19													
Group I	I34	3R1160	Clmp 8"x15" SS CL200 AC Rep	EA	27													
Group I	I35	3R1165	Clmp 10"x15" SS C900 Rep	EA	5													
Group I	I36	3R1170	Clmp 12"x15" SS C900 Rep	EA	13													
Group I	I37	3R1175	Clmp 14"x15" SS CI Rep	EA	2													
Group I	I38	3R1180	Clmp 16"x20" SS CI Rep DIPS	EA	12													
Group I	I39	3R1185	Clmp 18"x20" SS CI Rep	EA	2													
Group I	I40	3R1190	Clmp 20"x30" SS CI Rep	EA	6													
Group I	I41	3R1195	Clmp 24"x20" SS CI Rep	EA	5													

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Group I	I42	3R1200	Clmp 30"x30" SS Cl Rep	EA	1													
Group I	I43	3R1205	Clmp 36"x30" SS Cl Rep	EA	2													
Group I	I44	3R1208	Clmp 20"W 2"IP TAP SS Rep	EA	0													
Group I	I45	3R1210	Clmp 2-1/2"x12" SS CL160 PVC	EA	3													
Group I	I46	3R1215	Clmp 3"x7" SS CL160 PVC Rep	EA	11													
Group I	I47	3R1220	Clmp 3"x15" SS CL160 PVC Rep	EA	22													
Group I	I48	3R1225	Clmp 4"x7" SS CL160 PVC Rep	EA	6													
Group I	I49	3R1230	Clmp 4"x15" SS CL160 PVC Rep	EA	60													
Group I	I50	3R1235	Clmp 6"x7" SS CL160 PVC Rep	EA	11													
Group I	I51	3R1240	Clmp 6"x15" SS CL160 PVC Rep	EA	63													
Group I	I52	3R1245	Clmp 8"x15" SS CL160 PVC Rep	EA	23													
Group I	I53	3R1250	Clmp 10"x15" SS CL160 PVC Rep	EA	2													
Group I	I54	3R1255	Clmp 12"x15" SS CL160 PVC Rep	EA	5													
Group I	I55	3R1260	Clmp 16"x20" SS PVC IPS	EA	4													
Group I	I56	3R1265	Coupling 10" Hy Max Oversize	EA	4													
Group I	I57	3R1270	Coupling 12" Hy Max Oversize	EA	16													
Group I	I58	3R1272	Coupling 16" Hy Max	EA	8													
Group I	I59	3R1290	Coupling 2" Hy Max20000303260	EA	77													
Group I	I60	3R1295	Coupling 3" Hy Max02620429026	EA	46													
Group I	I61	3R1300	Coupling 4" Hy Max02620511026	EA	183													
Group I	I62	3R1305	Coupling 6" Hy Max02620768026	EA	177													
Group I	I63	3R1310	Coupling 8" Hy Max02620984026	EA	49													
Group I	I64	3R1315	Coupling 12" Hy Max02621366026	EA	43													
Group I	I65	3R1350	Coupling 10" Hy Max02621200026	EA	25													
Group I	I66	3S1125	Coupling 4"x4" CLxPL Fernco	EA	138													
Group I	I67	3S1130	Coupling 4"x4" PLxPL Fernco	EA	1238													
Group I	I68	3S1133	Coupling 4"x3" PLxPL Fernco	EA	109													
Group I	I69	3S1135	Coupling 4"x4" CLxCL Fernco	EA	35													
Group I	I70	3S1140	Coupling 6"x4" PLxPL Fernco	EA	584													
Group I	I71	3S1145	Coupling 6"x4" CLxPL Fernco	EA	156													
Group I	I72	3S1150	Coupling 6"x6" CLxPL Fernco	EA	538													
Group I	I73	3S1155	Coupling 6"x6" PLxPL Fernco	EA	1161													
Group I	I74	3S1160	Coupling 6"x6" CLxCL Fernco	EA	5													
Group I	I75	3S1165	Coupling 8"x8" CLxCL Fernco	EA	5													
Group I	I76	3S1170	Coupling 8"x8" CLxPL Fernco	EA	40													
Group I	I77	3S1175	Coupling 8"x6" CLxPL Fernco	EA	108													
Group I	I78	3S1180	Coupling 8"x8" PLxPL Fernco	EA	56													
Group I	I79	3S1185	Coupling 8"x6" PLxPL Fernco	EA	27													
Group I	I80	3S1191	Coupling 6"x6" CLxPL Shld 1002	EA	42													
Group I	I81	3S1192	Coupling 6"x6"PLxPL Shld 1056	EA	83													
Group I	I82	3S1193	Coupling 8"x8" CLxPL Shld 1002	EA	120													
Group I	I83	3S1194	Coupling 8"x8" PLxPL Shld 1056	EA	171													
Group I	I84	3S1195	Coupling 10x10 CLxPL Shld 1002	EA	18													
Group I	I85	3S1196	Coupling 10x10 PLxPL Shd 1056	EA	30													
Group I	I86	3S1205	EII 6" Sch80 PVC 90deg	EA	0													
Group M	M1	3N1300	EII 1/2" SS St	EA	905													
Group M	M2	3N1305	Nipple 1/2"x2" SS	EA	1105													
Group M	M3	3N1310	Nipple 1"x2" SS	EA	705													
Group M	M4	3N1312	COUPLING 1" 304 SS	EA	10													
Group M	M5	3N1325	Nipple 2x4" SS"	EA	29													
Group M	M6	3N1420	Nipple 2xClose SS"	EA	29													
Group M	M7	3V3005	Valve 1/2 Ball FIP SS"	EA	146													

Group	Item	MC Stock Number	Description	UOM	Three- Year Est. Usage	Manufacturer (MFG)	MFG Part Number	Mfg Part Description	Foreign (F)	Domestic (D)	Lead Time (Working Days)	Std Pack Qty	Price	3-Yr Ext Price (J x S)	Alternate MFG	Alternate MFG Part Number	Alternate Part Price	Alternate Part Ext Price (J x W)
Group M	M8	3V3010	Valve 1 Ball FIP SS"	EA	141													
Group M	M9	3V3025	Valve Corp 2 MIPxFIP PCV SS"	EA	60													
Group N	N1	3G1017	Grease Copper Tool Joint	EA	15													
Group N	N2	3G1198	Survey Stake 1/2"x1-1/2"x48"	EA	2552													
Group N	N3	3G1300	Rod Rebar #3 3/8"x20'	EA	281													
Group N	N4	3X1055	Tape 2" Duct	RO	711													
Group N	N5	3X1056	Tape 3" Water Met	EA	4													
Group N	N6	3X1057	Tape 3" Reclaim Met	EA	2													
Group N	N7	3X1058	Tape 3" Sewer Met	EA	11													
Group N	N8	3X1060	Lube Pipe Qt	EA	86													
Group N	N9	3X1065	Lube Pipe Gal	GA	50													
Group N	N10	3X1095	Tape OD Measuring	EA	83													

EXHIBIT 1

SCOPE OF WORK

C.01 BACKGROUND INFORMATION

Manatee County (County) is requesting Bids from qualified firms for the provision of water and sewer materials and accessories including no lead brass water, sewer, and backflow products for the Manatee County Utilities Department.

The Manatee County Utilities Department currently inventories an estimated 2,700 water, sewer, and backflow products and accessories. The County is seeking to establish a strategic business partnership with multiple bidders to supply water, sewer, backflow products, and related parts and accessories to the Manatee County Utilities Warehouse and Utilities Maintenance locations within the County.

The primary goal of the Agreement is to obtain expedited acquisition of water and sewer materials and accessories. Therefore, Successful Bidder's delivery responsiveness under the terms of this Agreement is critical.

C.02 SCOPE

Successful Bidder (hereinafter in this Scope referred to as Supplier) shall furnish all equipment, labor, materials, supplies, licensing, transportation, and other components necessary to provide and deliver water, sewer, backflow products, and related parts and accessories that will meet the requirements of the County.

Multiple awards shall be made to the lowest responsive, responsible Bidder(s) on each individual item. Awards shall be to the Primary (lowest responsive, responsible Bidder) and a Secondary (second lowest responsive, responsible Bidder) per item.

The agreement resulting from the acceptance of a bid shall be made by issuing a zero-dollar blanket purchase order(s) and be bound by the terms and conditions of the purchase order and the specifications of this Invitation for Bid. Release orders shall be issued on an "as required" basis.

It is the intent of the County to place orders with the lowest priced responsive, responsible Bidder who can provide the products at the time needed. However, the County reserves the right to place orders with other Bidders in the event of an urgent, immediate need and the availability of the products requested cannot be met by the lowest price Successful Bidder at the time of need.

C.03 GENERAL REQUIREMENTS

Supplier shall provide the following requirements:

- A. Furnish and deliver requested materials within three business days to the Manatee County Utilities Warehouse.
- B. As instructed by the County, deliver large project orders to the project site or to a Utilities Maintenance location within Manatee County.
- C. Provide same day delivery for emergency orders.
- D. Provide a 24/7 contact name and phone number who can be contacted for assistance for after-hours emergencies.

- E. Keep the minimum agreed upon inventory in stock at its warehousing facility for each item awarded.
- F. Meet with the Utilities warehouse staff to review Supplier stocking levels on a monthly basis and and make adjustments to minimize stock

C.04 DELIVERY AND LEAD-TIME REQUIREMENTS

Supplier shall:

- A. Make all deliveries to the Utilities Warehouse Facility unless otherwise instructed by the County.
- B. Upon request by the County, make deliveries on holidays and weekends
- C. Deliver orders based on the lead-time provided in Exhibit B, Pricing Form. For any deliveries that cannot be completed based on the lead-time provided, contact the Utilities representative within 24-hours from receipt of the order and provide a delivery date. NOTE: The County reserves the right to cancel an order that cannot be delivered in the specified delivery time.
- D. Make all deliveries between the hours of 9:00 A.M. and 2:30 P.M., Monday through Friday, excluding County holidays, to the location identified in the release order unless otherwise agreed to by the County
- E. Provide at least 24-hour notice to the County for all large shipments, i.e., truckloads requiring material handling equipment.
- F. Not make drop shipments unless otherwise agreed to by the County.
- G. Provide a separate delivery ticket for each delivery and obtain the signature of an authorized County representative on each.
- H. Provide at least one copy of the delivery ticket with pricing with the County representative receiving each delivery.
- I. Conditions for First Priority Service
 - i. Supplier shall, in conditions when a local emergency has been declared by the County or regional authority or when national supply allocations occur, grant the County delivery on a "first priority" basis for water and sewer material and accessories.
 - ii. Supplier shall furnish the County with a twenty-four (24) hour, seven days a week phone number(s) and contact name upon award of this Agreement.

C.05 TECHNICAL SPECIFICATIONS

Supplier shall deliver goods in accordance with the Technical Specifications in the Approved Products List included in the Agreement as Exhibit 3.

A. WATER AND SEWER MATERIALS AND ACCESSORIES

All materials delivered by Supplier shall comply with the County published Utility Specifications Standards. See Utilities' Approved Products Listing for the current specifications for each of the following groups:

- GROUP A - PVC FITTINGS AND PIPE- SCHEDULE 40 AND SCHEDULE 80
- GROUP B - PVC C900 PIPE & PARTS (4" AND ABOVE)
- GROUP C - PVC PIPE & FITTINGS - GRAVITY SEWER (SDR 26)
- GROUP D – HDPE PIPE AND FITTINGS (DR-11)
- GROUP E – MISC. WATER & SEWER VALVES & ACCESSORIES
- GROUP F - DUCTILE IRON PIPE, FITTINGS, & ACCESSORIES
- GROUP G – METER & VALVE BOXES & RELATED ACCESSORIES

- GROUP H – FIRE HYDRANTS & RELATED PARTS
- GROUP I – MISC. WATER AND SEWER CLAMPS
- GROUP M – STAINLESS STEEL PARTS
- GROUP N – MISC. WATER AND SEWER PARTS

B. NO LEAD BRASS PARTS

All materials delivered by Supplier shall comply with the County published Utility Specifications Standards (available upon request, Manatee County Utilities) per Public Law 111-380, (January 4, 2011 S.3874, 111 Congress, “Reduction of Lead in Drinking Water Act”).

All brass fittings 2” and under wetted by potable water shall be “No Lead” certified and carry the “NL” designation on the casting.

All brass parts for potable water shall be in accordance with the Safe Drinking Water Act restricting products in contact with drinking water to a 0.25% maximum lead content in the base material for all wetted components using a surface based averaging formula.

See Utilities’ Approved Products Listing for the current specifications for each of the following groups:

- GROUP J - MISCELLANEOUS BRASS
- GROUP K - BRASS SERVICE LINE FITTINGS AND ACCESSORIES
- GROUP L - BACKFLOW PREVENTION DEVICES

C.06 QUANTITIES

The County reserves the right to add or delete items as required.

C.07 PRICES/PRICING FORM

Pricing shall be shown for each item in Attachment H. The Microsoft Excel file has hidden columns with data for County use. Hidden Column “I” is used for calculating the Three-Year Estimated Usage in Column J.

Data must be entered into the following columns for each item quoted:

- Column L, Manufacturer OR Column U, Alternate Manufacturer
- Column O, Foreign OR Column P, Domestic
- Column Q, Lead Time (in number of Working Days, excluding weekend and holidays)
- Column R, Standard Pack Quantity
- Column S, Price OR Column W, Alternate Part Price

Please enter data, if available, into the following columns for each item quoted:

- Column M, Manufacturer Part Number (associated with Column L), OR Column V, Alternate Manufacturer Part Number (associated with Column U)
- Column N, Manufacturer Part Description

C.08 RENEWAL

Written notice of intention not to renew must be submitted by the Supplier at least 120 days prior to the expiration of an Agreement period.

The County shall provide the Supplier with a written notice of intent to renew no sooner than 90 days prior to the expiration of an Agreement period.

C.09 **PRICE ESCALATION/DE-ESCALATION**

Suppliers fees for water and sewer materials and accessories including no lead brass water, sewer, and backflow products and other related materials and accessories shall remain firm for a minimum of one (1) year after execution of the Agreement. Requested price changes may be submitted annually, at least ninety (90) days prior to the expiration of the Agreement term. Documentation supporting any increases or decreases in pricing shall be submitted to the County for review and approval.

Any escalation or de-escalation in pricing will be based on change in the most recent 12-month period for the applicable Bureau of Labor Statistics Index (e.g., WPU1015021 Metals and metal products, Pressure pipe & fittings, cast iron; WPU07210604 Rubber and plastic products, Plastic pipe fittings and unions). Price changes on foreign products due to tariffs will be evaluated on a case-by-case basis when such tariff is implemented.

END OF EXHIBIT 1

EXHIBIT 2

MINIMUM QUALIFICATIONS

Bidders must submit the information and documentation requested that confirms Bidder meets the following minimum qualification requirement(s):

1. Must be registered with the State of Florida, Division of Corporations to do business in Florida.

No documentation is required. The County will verify registration.

2. The Bidder has provided ductile iron water and sewer materials and accessories, or no-lead brass water, sewer, and backflow products, for at least ten (10) clients since November 1, 2014. Provide the following information for the ten qualifying clients.
 - a) Name of client
 - b) Location (City/State)
 - c) Client contact name
 - d) Contact phone
 - e) Contact email
 - f) Service dates (Start/End)
 - g) Components

3. Bidder is not on the Federal Convicted Vendor or Excluded Parties list (SAM/EPLS)

No documentation is required. The County will verify

4. Bidder has not been convicted of a public entity crime per Section 287.133, Florida Statutes or environmental law in the past five years.

Bidder must complete Attachment C and submit with its Offer attesting that it has not been convicted of a public entity crime or environmental law in the past five years.

5. If Bidder is submitting as a joint venture must file the required documents with the Florida Department of Business and Professional Regulation as required by Florida Statute Section 489.119, prior to the Due Date and Time.

If Bidder is a joint venture, provide a copy of Bidder's approved filing with the Florida Department of Business and Professional Regulation. If Bidder is not a joint venture, provide a statement to that effect.

6. Bidder has no reported conflict of interests in relation to this IFB.

Disclose the name of any officer, director or agent who is also an employee of the County. Disclose the name of any County employee who owns, directly or indirectly,

any interest in the Bidder's firm or any of its branches. If no conflicts of interests are present, Bidder must submit a statement to that affect.

END OF EXHIBIT 2

EXHIBIT 3 APPROVED PRODUCTS LIST

Category				Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Piping	Pressurized PVC AWWA C900-16	Standard Push-On Joint	4" and Larger	✓	✓	✓		JM Eagle	Blue Brute (C900)/ Big Blue (C905)	<p>14" diameter pipe shall only be used with written approval by Manatee County All PVC pipe shall be color-coded per service application</p> <p><u>Water/Reclaimed:</u> 4" - 12": Pressure Class 235, DR 18, Ductile Iron Pipe Size (DIPS), AWWA C900-16 <u>For uncontaminated soils:</u> Shall have EPDM rubber gaskets with the letters "EPDM" embossed or formed into the gasket <u>For contaminated soils:</u> Shall have NBR or FKM rubber gasket Refer to PVC Pressurized Pipe and Fittings Section 02622 for gasket material details Pipe shall be NSF61 certified for potable water</p> <p><u>Wastewater:</u> 4" - 36": Pressure Class 235, DR 18, DIPS, AWWA C900-16</p> <p><u>Self-Restrained Push-On Joint:</u> All self-restrained push-on joint pipe shall be field checked for proper engagement per manufacturer's recommendations Shall come with weather-resistant, min. 6 mil thick, 4" wide, solid red PVC marking tape around bell</p> <p><u>RieberLok:</u> Gaskets shall only be used on manufacturer approved pipe</p> <p><u>Bulldog Restraint:</u> Gaskets shall only be factory applied to Diamond Plastics "Lok 21" and JM Eagle's "Eagle Loc 900" Pipe</p>
				✓	✓	✓		Diamond Plastics Corp.	C900/Trans-21	
				✓	✓	✓		North American Pipe Corp.	C900/IB	
				✓	✓	✓		National Pipe & Plastics	Dura-Blue C900	
		Self-Restrained Push-On Joint	4" - 24"	✓	✓	✓		Bulldog Restraint	Bulldog Gasket	
			4" - 12"	✓	✓	✓		RieberLok	RieberLok Gasket	
	Gravity Sewer PVC ASTM D3034/F679	4" and Larger				✓		JM Eagle	Ring-Tite Gravity Sewer	<p>14" diameter pipe shall only be used with written approval by Manatee County</p> <p>Push-on joints shall use elastomeric gaskets in accordance with ASTM D3212 Pipe shall be color coded green for sewer applications</p> <p>4"-15": SDR 26, ASTM D3034 18"-54": SDR 35, ASTM F679</p>
						✓		Diamond Plastics Corp.	Sani-21	
						✓		North American Pipe Corp.	ASTM D3034/IB	
						✓		National Pipe & Plastics	Sewer ASTM D3034/F679	
	Pressurized PVC ASTM D2241	3" and Smaller		✓	✓			JM Eagle	Ring-Tite	<p>Shall only be used for water/reclaimed water service casings in roadway Pressure Class 200, SDR 21, Iron Pipe Size (IPS), ASTM D2241</p>
				✓	✓			Diamond Plastics Corp.	D2241	
				✓	✓			North American Pipe Corp.	ASTM D2241/IB	
				✓	✓			National Pipe & Plastics	Dura-Flow SDR Series	



EXHIBIT 3 APPROVED PRODUCTS LIST

FEBRUARY 2019

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Category			Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Piping	Pressurized Sch. 80 PVC ASTM D1785	2" and Smaller					North American Pipe Corp. Products	-	Shall only be used for grinder pump stations Iron Pipe Size (IPS), ASTM D1785 Only for working pressures up to 125 psi
							JM Eagle Products	-	
							GF Central Plastics Products	-	
							Charlotte Pipe Products	-	
							Harrison Plastic Products	-	
	HDPE	2" and Larger					JM Eagle	HDPE (DIPS) Pressure Pipe	Pressure Class 200, PE4710, Ductile Iron Pipe Size (DIPS), DR 11, AWWA C906 Min. Cell Classification per ASTM D3350 shall be 445574 3" & 14" diameter pipe shall only be used with written approval by Manatee County All HDPE pipe must have color coded striping on 3-sides (120 degree apart) per service application <u>Water/Reclaimed:</u> For pipe sizes 2" or larger Pipe shall be NSF61 certified for potable water <u>Wastewater:</u> For pipe sizes 4" - 36"
							WL Plastics	PE 4710 (DIPS)	
							GF Central Plastics	Design-Flow PE100/PE4710	
							Performance Pipe	DriscoPlex 4000	
							Charter Plastics	PE 4710 - Blue/Lavender/ Green Stripe	
	PE	Tubing: 2" and Smaller					Endot	Endopure	Pressure Class 250, PE4710, Copper Tube Size (CTS), SDR 9, AWWA C901 Min. Cell Classification per ASTM D3350 shall be 445574 Tubing shall be fully color coded blue for potable or purple for reclaimed services Tubing shall be NSF61 certified for potable water Butt-Fusion or CTS brass connections shall be used
							Charter Plastics	4710 - CTS Tubing	
	PEX	Tubing: 2" and Smaller					Rehau	Municipex	Pressure Class 200, PEXa 3306, Copper Tube Size (CTS), SDR 9, AWWA C904 Tubing shall be fully color coded blue for potable or purple for reclaimed services Tubing shall be NSF61 certified for potable water Butt-Fusion or CTS brass connections shall be used



EXHIBIT 3 APPROVED PRODUCTS LIST

FEBRUARY 2019

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Category				Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Piping	Ductile Iron AWWA C150/C151	Standard Push-On Joint	4" and Larger	✓	✓	✓		American Cast Iron Pipe Company	Fastite Joint	<p><u>Pipe Ratings:</u></p> <p>Aboveground Installation: 250 PSI, Special Class 53 Buried Installation: 350 PSI for 4"-16", 250 PSI for 18" and larger</p> <p>Pipe shall have an approved external polyethylene encasement color coded blue for water, purple for reclaimed water, and green for sewer</p>
				✓	✓	✓		McWane Ductile	Tyton Joint	<p><u>Water/Reclaimed:</u></p> <p>For pipe sizes 4" and larger</p> <p><u>Interior Coating:</u> Std. thickness cement lining per AWWA C104</p> <p><u>Exterior Coating:</u> Std. 1-mil asphaltic coating per AWWA C151 or a factory-applied epoxy coating per AWWA C116</p> <p><u>For uncontaminated soils:</u> Shall have EPDM rubber gaskets with the letters "EPDM" embossed or formed into gasket</p> <p><u>For contaminated soils:</u> Shall have NBR or FKM rubber gasket</p> <p>Refer to Ductile Iron Pipe and Fittings Section 02615 for gasket material details</p> <p>Pipe shall be NSF61 certified for potable water</p>
				✓	✓	✓		U.S. Pipe	Tyton Joint	<p><u>Wastewater:</u></p> <p>For pipe sizes 36" or larger</p> <p>Preshipment holiday-free factory certification per ASTM G62 shall be provided for the interior and exterior coatings</p> <p><u>Interior Coating:</u> Green, factory applied dry film thickness 40-mil Tnemec Series 431 Perma-Shield PL or Permox CTF coating</p> <p><u>Exterior Coating:</u> Std. 1-mil asphaltic coating per AWWA C151 or a factory-applied epoxy coating per AWWA C116</p>
		✓		✓	✓		American Cast Iron Pipe Company	Fastite Joint w/ Amarillo Fast-Grip Gasket	<p><u>Self-Restrained Push-On Joint:</u></p> <p>Restrained Gasket shall be colored Safety Yellow (Amarillo Fast-Grip Gasket)/Orange (Barracuda Gasket)</p> <p>Shall come with weather-resistant, min. 6 mil thick, 4" wide, solid red PVC marking tape around bell</p>	
		✓		✓	✓		McWane Ductile	Tyton Joint w/ Barracuda Gasket		
		✓		✓	✓		U.S. Pipe	Tyton Joint w/ Barracuda Gasket		
	Fiberglass	Centrifugally Cast			✓		Hobas Products	-	Shall only be used for slip lining existing gravity sewer main Bell and Spigot shall meet requirements of ASTM D3262 O-ring or profile type elastomeric gasket shall meet requirements of ASTM F477	
		Filament Wound			✓		Flowtite Products	-		



EXHIBIT 3 APPROVED PRODUCTS LIST

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Category			Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Fittings	Ductile Iron AWWA C110/C153	For Pressurized PVC C900-16 and DI Pipe					Sigma Corp. Products	-	Contractor shall provide certification letter by manufacturer stating hardware material and coating (if applicable) Letter shall state project and contractor's name Letter shall be provided with the shop drawing submittal <u>For buried installations:</u> T-bolts, bolts, tie rods, nuts, and washers shall be High Strength, Low Alloy Steel conforming to AWWA C111/ANSI A21.11-17 or ASTM A242.
							Star Pipe Products	-	Hardware referenced above shall be coated with a blue fluoropolymer coating (Xylan 1424, FluoroKote #1 or AFT-PTFE-Blue). Alternatively, hardware shall be 316 SS. <u>For aboveground installations:</u> T-bolts, bolts, tie rods, nuts, and washers shall be 316 SS
							Infact Corp.	Flex T-2/T-3	<u>Mechanical Joint Fittings:</u> 4" - 16": 350 psi pressure rating 18" and larger: 250 psi pressure rating <u>Flanged Fittings:</u> All sizes: 250 psi pressure rating
							SIP Industries	-	<u>Water/Reclaimed:</u> <u>Interior Coating:</u> Double the std. thickness cement lining per AWWA C104 <u>Exterior Coating:</u> Std. 1-mil asphaltic coating per AWWA C110/C153 or a factory-applied epoxy coating per AWWA C116 <u>For uncontaminated soils:</u> Shall have EPDM rubber gaskets with the letters "EPDM" embossed or formed into gasket <u>For contaminated soils:</u> Shall have NBR or FKM rubber gasket Refer to Ductile Iron Pipe and Fittings Section 02615 for gasket material details Fittings shall be NSF61 certified for potable water
							Tyler/Union Products	-	<u>Wastewater:</u> Preshipment holiday-free factory certification per ASTM G62 shall be provided for the interior and exterior coatings <u>Interior Coating:</u> Green, factory applied dry film thickness 40-mil Tnemec Series 431 Perma-Shield PL or Permox CTF coating <u>Exterior Coating:</u> Std. 1-mil asphaltic coating per AWWA C110/C153 or a factory-applied epoxy coating per AWWA C116



EXHIBIT 3 APPROVED PRODUCTS LIST

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Category			Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Fittings	Molded and Fabricated HDPE	For HDPE AWWA C906 Pipe				✓	GF Central Plastics Products	-	<u>Shall only be used in lift stations</u> Pressure Class 160, PE4710, Ductile Iron Pipe Size (DIPS), DR 11, AWWA C906 Min. Cell Classification per ASTM D3350 shall be 445574 Fittings shall be fused per manufacturer's recommendations
						✓	Charter Plastics Products	-	
						✓	Performance Pipe Products	-	
						✓	Specified Fittings Products	-	
						✓	Integrity Fusion Products	-	
	Molded and Fabricated PVC	For Pressurized PVC AWWA C900-16 Pipe				✓	NACO	Pressure Gasketed Fittings	<u>Shall only be used for P-traps and drop manholes</u> All fittings shall be connected via water-tight push-on joints using elastomeric gaskets per ASTM D3212 rated for pressurized PVC Pressure Class 235, DR 18, AWWA C900-16/C907
						✓	Multi Fittings Corp.	C900/C905 Fittings	
						✓	Specified Fittings	C900 Fittings	
		For Gravity Sewer PVC ASTM D3034/F679 Pipe				✓	Harrington Corp.	SDR 26/35 Fittings	All fittings shall be connected via water-tight push-on joints using elastomeric gaskets per ASTM D3212 rated for gravity sewer PVC All fittings shall conform to ASTM D3034/F679 4" - 15": Shall be SDR 26 16" - 54": Shall be SDR 35
						✓	Multi Fittings Corp.	Trench Tough Plus	
						✓	Tigre-ADS USA	SDR 26/35 Gasketed	
						✓	North American Pipe Corp.	G/H-Series	

APPROVED PRODUCTS LIST

Category				Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
External Thrust Restraint Devices	PVC AWWA C900-16 (4" - 12")	Pipe to Pipe connections	Split-Casing (Only for Existing Construction)	✓	✓	✓		Ford Meter Box Co.	Series UFR1390-C (DI, PVC) (4" - 12")	<p><u>New Construction:</u> All sizes: 235 psi rating</p> <p>Contractor shall provide certification letter by manufacturer stating hardware material and coating (if applicable) Letter shall state project and contractor's name Letter shall be provided with the shop drawing submittal</p> <p><u>For buried installations:</u> T-bolts, tie rods, nuts, and washers shall be High Strength, Low Alloy Steel conforming to AWWA C111/ANSI A21.11-17 or ASTM A242. Side clamping bolts shall be medium carbon steel per SAE J429 Grade 5/ASTM A449 Side clamping nuts shall be medium carbon steel per SAE J995 Grade 2/ASTM A449 Hardware referenced above shall be coated with a blue fluoropolymer coating (Xylan 1424, FluoroKote #1, or AFT-PTFE-Blue). Alternatively, hardware shall be 316 SS.</p> <p><u>For aboveground installations:</u> T-bolts, tie rods, nuts, and washers shall be 316 SS Side clamping bolts shall be min. 316 SS per ASTM A193 Grade B8M, Class 2 Side clamping nuts shall be min. 316 SS per ASTM A194 Grade 8M, Class 1</p> <p><u>Restraint devices shall have the following factory applied high performance coatings:</u> Star Pipe Products: Starbond System Sigma Corp.: CORRSafe System EBAA Iron: MEGA-BOND System Ford Meter Box Co.: Armorguard E-Coat System</p> <p><u>Water/Reclaimed:</u> <u>For uncontaminated soils:</u> Shall have EPDM rubber gaskets with the letters "EPDM" embossed or formed into gasket <u>For contaminated soils:</u> Shall have NBR or FKM rubber gasket Refer to Valves and Appurtenances Section 02640 for gasket material details</p>
				✓	✓	✓		Star Pipe Products	PVC Series 1100G2C (4" - 12")	
				✓	✓	✓		Sigma Corp.	PV-LOK Series D-PWP (DI, PVC) (4" - 12")	
			Wedge-Restraint (New Construction)	✓	✓	✓		Star Pipe Products	PVC Stargrip Series 4100P (4" - 12")	
				✓	✓	✓		Sigma Corp.	ONE-LOK Series SLCEH (4" - 12")	
		Pipe to MJ Fittings connections	Split-Casing (Only for Existing Construction)	✓	✓	✓		Star Pipe Products	PVC Series 1000G2 (DI, PVC) (4" - 12")	
				✓	✓	✓		Sigma Corp.	PV-LOK Series PWM-C (4" - 12")	
			Wedge-Restraint (New Construction)	✓	✓	✓		EBAA Iron	Series 2000PV (4" - 12")	
				✓	✓	✓		Star Pipe Products	PVC Stargrip Series 4000 (HDPE, PVC) (4" - 12")	
				✓	✓	✓		Sigma Corp.	ONE-LOK Series D-SLCE (4" - 12")	
		Pipe to PVC Fittings connections	All Construction	✓	✓	✓		EBAA Iron	Series 2600 (4" - 12")	
				✓	✓	✓		Star Pipe Products	Series 1200G2C (4" - 12")	
				✓	✓	✓		Sigma Corp.	PV-LOK Series PWPF (4" - 12")	

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Category				Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
External Thrust Restraint Devices	PVC AWWA C900-16 (14" - 36")	Pipe to Pipe connections	Split-Casing (Only for Existing Construction)	✓	✓	✓		Star Pipe Products	Series 1100C (14" - 36")	<p><u>New Construction:</u> All sizes: 235 psi rating</p> <p>Contractor shall provide certification letter by manufacturer stating hardware material and coating (if applicable) Letter shall state project and contractor's name Letter shall be provided with the shop drawing submittal</p> <p><u>For buried installations:</u> T-bolts, tie rods, nuts, and washers shall be High Strength, Low Alloy Steel conforming to AWWA C111/ANSI A21.11-17 or ASTM A242. Side clamping bolts shall be medium carbon steel per SAE J429 Grade 5/ASTM A449 Side clamping nut shall be medium carbon steel per SAE J995 Grade 2/ASTM A449 Hardware referenced above shall be coated with a blue fluoropolymer coating (Xylan 1424, FluoroKote #1, or AFT-PTFE-Blue). Alternatively, hardware shall be 316 SS.</p> <p><u>For aboveground installations:</u> T-bolts, tie rods, nuts, and washers shall be 316 SS Side clamping bolts shall be min. 316 SS per ASTM A193 Grade B8M, Class 2 Side clamping nuts shall be min. 316 SS per ASTM A194 Grade 8M, Class 1</p> <p><u>Restraint devices shall have the following factory applied high performance coatings:</u> Star Pipe Products: Starbond System Sigma Corp.: CORRSafe System EBAA Iron: MEGA-BOND System Ford Meter Box Co.: Armorguard E-Coat System</p> <p><u>Water/Reclaimed:</u> <u>For uncontaminated soils:</u> Shall have EPDM rubber gaskets with the letters "EPDM" embossed or formed into gasket <u>For contaminated soils:</u> Shall have NBR or FKM rubber gasket Refer to Valves and Appurtenances Section 02640 for gasket material details</p> <p>*This split-casing model is allowed for new construction for these specific sizes to ensure entire size range is covered</p>
				✓	✓	✓		Sigma Corp.	PV-LOK Series D-PWP (DI, PVC) (14" - 36")	
			Wedge- Restraint (New Construction)	✓	✓	✓		EBAA Iron	Megalug Series 2800 (14" - 16")	
				✓	✓	✓		Star Pipe Products	PVC Stargrip Series 4400 (14" - 20")	
				✓	✓	✓			Series 1100C* (24" - 36")	
				✓	✓	✓		Ford Meter Box Co.	Series UFR1390-C* (DI, PVC) (24" - 36")	
		Pipe to MJ Fittings connections	Split-Casing (Only for Existing Construction)	✓	✓	✓		Star Pipe Products	Series 1000C (14" - 36")	
				✓	✓	✓		Sigma Corp.	PV-LOK Series D-PWM (14" - 24")	
			Wedge- Restraint (New Construction)	✓	✓	✓		EBAA Iron	Series 2000PV (HDPE, PVC) (14" - 16", 24")	
				✓	✓	✓		Star Pipe Products	PVC Stargrip Series 4000 (HDPE, PVC) (14" - 36")	
				✓	✓	✓		Sigma Corp.	ONE-LOK Series D- SLCE (HDPE, PVC) (24" - 36")	
		Pipe to PVC Fittings connections	All Construction	✓	✓	✓		Sigma Corp.	PV-LOK Series PWP (14" - 24")	

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Category				Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
External Thrust Restraint Devices	HDPE AWWA C906	<u>Pipe to MJ Fittings connections</u>	Split-Casing (Only for Existing Construction)	✓	✓	✓		EBAA Iron	Series 15PF00 (4" - 12")	<p><u>New Construction:</u> All sizes: 160 psi rating</p> <p>Contractor shall provide certification letter by manufacturer stating hardware material and coating (if applicable) Letter shall state project and contractor's name Letter shall be provided with the shop drawing submittal</p> <p><u>For buried installations:</u> T-bolts, tie rods, nuts, and washers shall be High Strength, Low Alloy Steel conforming to AWWA C111/ANSI A21.11-17 or ASTM A242. Side clamping bolts shall be medium carbon steel per SAE J429 Grade 5/ASTM A449 Side clamping nut shall be medium carbon steel per SAE J995 Grade 2/ASTM A449 Hardware referenced above shall be coated with a blue fluoropolymer coating (Xylan 1424, FluoroKote #1, or AFT-PTFE-Blue). Alternatively, hardware shall be 316 SS.</p> <p><u>For aboveground installations:</u> T-bolts, tie rods, nuts, and washers shall be 316 SS Side clamping bolts shall be min. 316 SS per ASTM A193 Grade B8M, Class 2 Side clamping nuts shall be min. 316 SS per ASTM A194 Grade 8M, Class 1</p> <p>All restrained joints shall be designed for HDPE Pipe conforming to AWWA C906 and Ductile Iron Pipe Size (DIPS) Dimensions Shall include 316 SS pipe stiffening insert ABS Spacers shall not be removed from actuating bolts on HDPE Pipe (DIPS)</p> <p><u>Restraint devices shall have the following factory applied high performance coatings:</u> Star Pipe Products: Starbond System Sigma Corp.: CORRSafe System EBAA Iron: MEGA-BOND System Ford Meter Box Co.: Armorguard E-Coat System</p> <p><u>Water/Reclaimed:</u> <u>For uncontaminated soils:</u> Shall have EPDM rubber gaskets with the letters "EPDM" embossed or formed into gasket <u>For contaminated soils:</u> Shall have NBR or FKM rubber gasket Refer to Valves and Appurtenances Section 02640 for gasket material details</p>
				✓	✓	✓			Series 15MJ00 (4" - 12")	
				✓	✓	✓		Sigma Corp.	PV-LOK Series PVM-C (4" - 12)	
			Wedge- Restraint (New Construction)	✓	✓	✓		EBAA Iron	Series 2000PV (HDPE, PVC) (4" - 12")	
				✓	✓	✓		Star Pipe Products	PVC StarGrip Series 4000 (HDPE, PVC) (4" - 18")	
				✓	✓	✓		Sigma Corp.	ONE-LOK Series D-SLCE (HDPE, PVC) (4" - 12")	



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Category				Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
External Thrust Restraint Devices	Ductile Iron Pipe AWWA C150 & C151	Pipe to Pipe connections	Split-Casing (Only for Existing Construction)	✓	✓	✓		EBAA Iron	Series 1500TD (DI, PVC) (4" - 12")	<p><u>New Construction:</u> 2" - 16": 350 psi rating 18" and larger: 250 psi rating</p> <p>Contractor shall provide letter by manufacturer stating hardware material and coating (if applicable) Letter shall be provided with shop drawing submittal and state project and contractor's name</p> <p><u>For buried installations:</u> T-bolts, tie rods, nuts, and washers shall be High Strength, Low Alloy Steel conforming to AWWA C111/ANSI A21.11-17 or ASTM A242. Side clamping bolts shall be medium carbon steel per SAE J429 Grade 5/ASTM A449 Side clamping nuts shall be medium carbon steel per SAE J995 Grade 2/ASTM A449 Hardware referenced above shall be coated with a blue fluoropolymer coating (Xylan 1424, FluoroKote #1, or AFT-PTFE-Blue). Alternatively, hardware shall be 316 SS.</p> <p><u>For aboveground installations:</u> T-bolts, tie rods, nuts, and washers shall be 316 SS Side clamping bolts shall be min. 316 SS per ASTM A193 Grade B8M, Class 2 Side clamping nuts shall be min. 316 SS per ASTM A194 Grade 8M, Class 1</p> <p><u>Restraint devices shall have the following factory applied high performance coatings:</u> Star Pipe Products: Starbond System Sigma Corp.: CORRSafe System EBAA Iron: MEGA-BOND System Ford Meter Box Co.: Armorguard E-Coat System</p> <p><u>Water/Reclaimed:</u> <u>For uncontaminated soils:</u> Shall have EPDM rubber gaskets with the letters "EPDM" embossed or formed into gasket <u>For contaminated soils:</u> Shall have NBR or FKM rubber gasket Refer to Valves and Appurtenances Section 02640 for gasket material details</p> <p><u>MJ Fitting to MJ Fitting Connections in Water/Reclaimed:</u> <u>Interior Coating:</u> Std. thickness cement lining per AWWA C104 or factory-applied epoxy per AWWA C116 <u>Exterior Coating:</u> Std. 1-mil asphaltic coating per AWWA C110/C153 or a factory-applied epoxy coating per AWWA C116</p> <p><u>MJ Fitting to MJ Fitting Connections in Wastewater:</u> Preshipment holiday-free factory certification per ASTM G62 shall be provided for the interior and exterior coatings <u>Interior Coating:</u> Green, factory applied dry film thickness 40-mil Tnemec Series 431 Perma-Shield PL or Permox CTF coating <u>Exterior Coating:</u> Std. 1-mil asphaltic coating per AWWA C151 or a factory-applied epoxy coating per AWWA C116</p>
				✓	✓	✓		Star Pipe Products	Stargrip Series 3100S (3" - 48")	
				✓	✓	✓		Sigma Corp.	ONE-LOK Series SSLDH (4" - 36")	
			Wedge-Restraint (New Construction)	✓	✓	✓		EBAA Iron	Series 1700 (4" - 48")	
				✓	✓	✓		Star Pipe Products	Stargrip Series 3100P (4" - 48")	
				✓	✓	✓		Sigma Corp.	ONE-LOK Series SLDEH (4" - 36")	
		Pipe to MJ Fittings connections	Split-Casing (Only for Existing Construction)	✓	✓	✓		EBAA Iron	Series 1100SD (4" - 48")	
				✓	✓	✓		Star Pipe Products	Split Stargrip Series 3000S (4" - 48")	
				✓	✓	✓		Sigma Corp.	ONE-LOK Series SSLDH (4" - 36")	
			Wedge-Restraint (New Construction)	✓	✓	✓		EBAA Iron	Series 1100 (4" - 48")	
				✓	✓	✓		Star Pipe Products	Stargrip Series 3000 (4" - 48")	
				✓	✓	✓		Sigma Corp.	ONE-LOK Series D-SLDE (4" - 48")	
		MJ Fitting to MJ Fitting Connections		✓	✓	✓		Star Pipe Products	Series 100 (3" - 36")	
				✓	✓	✓		Infact Corp.	Foster Adaptor (3" - 36")	

Contractor shall check/mark which product is intended to be used in the submittal box. If multiple manufacturers are to be used, each manufacturer shall be marked.



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Category			Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Plain End Couplings	Gravity Sewer PVC ASTM D3034 Plain End to Plain End Coupling	4" - 12"			✓		Maxadaptor	Max Series	Shall be reinforced with 316 SS bands and hardware
		4" - 12"			✓		Fernco Products	XL Coupling Series 5000	
	Dissimilar Pipe Materials Plain End to Plain End Coupling	2" - 12"	✓	✓			Romac	Macro	<p>Contractor shall provide certification letter by manufacturer stating hardware material and coating (if applicable) Letter shall state project and contractor's name Letter shall be provided with the shop drawing submittal</p> <p><u>For buried installations:</u> T-bolts, bolts, tie rods, nuts, and washers shall be High Strength, Low Alloy Steel conforming to AWWA C111/ANSI A21.11-17 or ASTM A242. Hardware referenced above shall be coated with a blue fluoropolymer coating (Xylan 1424, FluoroKote #1, or AFT-PTFE-Blue). Alternatively, hardware shall be 316 SS.</p> <p><u>For aboveground installations:</u> T-bolts, bolts, tie rods, nuts, and washers shall be 316 SS</p> <p><u>Couplings shall have the following factory applied high performance coatings:</u> Romac: Romacoat System Krausz: Factory std. min. 14 mil fusion bonded epoxy EBAA: MEGA-BOND System</p> <p>Preshipment holiday-free factory certification per ASTM G62 shall be provided for the interior and exterior coatings</p> <p><u>Water/Reclaimed:</u> Couplings shall be NSF61 certified for potable water</p> <p><u>For uncontaminated soils:</u> Shall have EPDM rubber gaskets with the letters "EPDM" embossed or formed into gasket</p> <p><u>For contaminated soils:</u> Shall have NBR or FKM rubber gasket Refer to Valves and Appurtenances Section 02640 for gasket material details</p>
		2" - 12"	✓	✓			Krausz	Hymax 2 Coupling (Series 860)	
		4" - 48"	✓	✓			EBAA	Mega-Coupling Series 3800	



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Category		Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Flange Adapters	HDPE AWWA C906 Flange and MJ Adapters		✓	✓	✓	Charter Plastics Products	-	Pressure Class 160, PE4710, Ductile Iron Pipe Size (DIPS), DR 11, AWWA C906 Min. Cell Classification per ASTM D3350 shall be 445574 Fittings shall be fused per manufacturer's recommendations Shall have 316 SS back-up ring <u>Water/Reclaimed:</u> <u>For uncontaminated soils:</u> Shall have EPDM rubber gaskets with the letters "EPDM" embossed or formed into gasket <u>For contaminated soils:</u> Shall have NBR or FKM rubber gasket Refer to Valves and Appurtenances Section 02640 for gasket material details
			✓	✓	✓	Improved Piping Products	-	
			✓	✓	✓	Integrity Fusion Products	-	
			✓	✓	✓	Performance Pipe Products	-	
	Pressurized PVC AWWA C900-16 Flange Adapter	4" - 20"	✓	✓	✓	EBAA Iron	Megaflange Series 2100 (DI, PVC)	<u>PVC Flange Adapter:</u> <u>4"-36"</u> : 235 psi rating <u>DIP Flange Adapter:</u> <u>2"-16"</u> : 350 psi rating <u>18" and larger:</u> 250 psi rating Contractor shall provide certification letter by manufacturer stating hardware material and coating (if applicable) Letter shall state project and contractor's name Letter shall be provided with the shop drawing submittal <u>For buried installations:</u> T-bolts, bolts, tie rods, nuts, and washers shall be High Strength, Low Alloy Steel conforming to AWWA C111/ANSI A21.11-17 or ASTM A242. Hardware referenced above shall be coated with a blue fluoropolymer coating (Xylan 1424, FluoroKote #1, or AFT-PTFE-Blue). Alternatively, hardware shall be 316 SS. <u>For aboveground installations:</u> T-bolts, bolts, tie rods, nuts, and washers shall be 316 SS <u>Flange adapters shall have the following factory applied high performance coatings:</u> Star Pipe Products: Starbond System Sigma Corp.: CORRSafe System EBAA Iron: MEGA-BOND System Ford Meter Box Co.: Armorguard E-Coat System Preshipment holiday-free factory certification per ASTM G62 shall be provided for the interior and exterior coatings <u>Water/Reclaimed:</u> Flange adapters shall be NSF61 certified for potable water <u>For uncontaminated soils:</u> Shall have EPDM rubber gaskets with the letters "EPDM" embossed or formed into gasket <u>For contaminated soils:</u> Shall have NBR or FKM rubber gasket Refer to Valves and Appurtenances Section 02640 for gasket material details
		3" - 36"	✓	✓	✓	Sigma Corp.	Sigmaflange SFA Series CP	
		4" - 20"	✓	✓	✓	Star Pipe Products	Super Flange Series 7200 (DI, PVC)	
		3" - 36"	✓	✓	✓		Starflange Series 4200	
	DIP AWWA C110 Flange Adapters	2" - 12"	✓	✓	✓	Ford Meter Box Co.	Series 420	
		3" - 20"	✓	✓	✓	EBAA Iron	Megaflange Series 2100 (DI, PVC)	
			✓	✓	✓	Star Pipe Products	Super Flange Series 7200 (DI, PVC)	
		All sizes except 18"	✓	✓	✓		Starflange Series 3200	
		All sizes except 18"	✓	✓	✓	Sigma Corp.	Sigmaflange SFA Series DP	

Contractor shall check/mark which product is intended to be used in the submittal box. If multiple manufacturers are to be used, each manufacturer shall be marked.



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Category				Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Valves	Air Release Valves			✓	✓	✓		GA Industries	Fig-929	Min. Inlet size shall be 2" Orifice, float, linkage, and hardware shall be 316 SS The seal shall be Buna N elastomer
				✓	✓	✓		H-TEC	Model 986-SS	<u>For waterways and canals crossing only</u> Min. Inlet size shall be 2" Body, bolts, nuts, and washers shall be 316 SS The seal shall be Buna N elastomer
	Backflow Prevention Assembly	Privately-Owned		✓				-	-	Any privately-owned backflow prevention assembly that is approved by the University of Southern California (USC), with the exception of Wilkins 375XL (3/4" and 1"), Watts LF009QT (3/4" and 1"), and Ames LF4000B (3/4" and 1"), will be accepted by Manatee County County-Owned approved models are also acceptable
		County-Owned	2-1/2"-12"	✓				Wilkins (Zurn)	350DA	Double Check Valve Assembly w/ Meter
				✓					375DA	Reduced Pressure Zone Assembly w/ Meter
				✓					375DA-OS&Y	Reduced Pressure Zone Assembly w/ Meter (OS&Y)
				✓				Ames	2000SS	Double Check Valve Assembly
				✓					3000SS	Double Check Valve Assembly w/ Meter
				✓					4000SS	Reduced Pressure Zone Assembly
			✓				5000SS		Reduced Pressure Zone Assembly w/ Meter	
			1/2"-2"	✓				Apollo Valves	RPLF - 4A Series	Reduced Pressure Zone Assembly
				✓				Wilkins (Zurn)	975XL2	Reduced Pressure Zone Assembly
				✓				Watts	Model LF007 Series	Double Check Valve Assembly
		✓					Model 909 Series		Reduced Pressure Zone Assembly	
	Ball Valves			✓	✓	✓		FNW	Fig. 200A	For use with ARV Body, cap, stem, and ball shall be 316 SS/CF8M Min. Cold-Working Pressure shall be 1000 PSI
				✓	✓	✓		Apollo Valves	Model 76F	
	Blowoff Valves	On Ground Discharge		✓				Hydro-Guard	HG-1	Shall only be used with written approval from Manatee County Design considerations shall minimally include site drainage patterns, cross connection prevention, grounding, dichlorination requirements, and discharge permits
		Pipe Discharge		✓					HG-2	



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Category				Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes	
Valves	Corporation Stops	For Copper Pipe and HDPE Tubing	All joints made to CTS size HDPE tubing shall use SS insert stiffeners	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Mueller	300 Model B-25028	Saddle, Compression x MIP Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		300 Model B-25008	Direct Tap, Compression x AWWA Taper Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		300 Model P-25028	Saddle, Pack Joint x MIP Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		300 Model P-25008	Direct Tap, Pack Joint x AWWA Taper Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Ford Meter Box Co.	FB1000-x-NL	Pack Joint x AWWA Taper Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		FB1000-x-G-NL	Grip Joint Compression x AWWA Taper Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		FB1000-x-Q-NL	Quick Joint Compression x AWWA Taper Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		FB1100-x-NL	Pack Joint x MIP Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		FB1100-x-G-NL	Grip Joint Compression x MIP Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	A.Y. McDonald	74101BCAPQ	"Q" McQuik Compression x AWWA Taper Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		74104BCAP-22	Pack Joint x AWWA Taper Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		74104BCAPF	FNPT x AWWA Taper Thread (3/4" - 2")	
		For Copper Pipe Only		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Mueller	300 Model B-25000	Direct Tap, Flare x AWWA Taper Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		300 Model B-25025	Saddle, Flare x MIP Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Ford Meter Box Co.	FB600-x-NL	Flare x AWWA Taper Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		FB700-x-NL	Flare x MIP Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	A.Y. McDonald	74101B	Flare x AWWA Taper Thread (3/4" - 2")	
		For Stainless Steel Pipe Only		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Mueller	300 Model P-20045	FIP Thread x AWWA Taper Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		300 Model B-20046	FIP Thread x MIP Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Ford Meter Box Co.	FB1600-x-NL	FIP Thread x AWWA Taper Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		FB1700-x-NL	FIP Thread x MIP Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	A.Y. McDonald	74101BCAPF	FIP Thread x AWWA Taper Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>				
	Curb Stops	For Copper Pipe and HDPE Tubing	All joints made to CTS size HDPE tubing shall use SS insert stiffeners	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Ford Meter Box Co.	B41-xxxW-NL	Pack Joint x FIP Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		B41-xxxW-G-NL	Grip Joint Compression x FIP Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	A.Y. McDonald	76100W-22	Compression x Compression (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		76100WT	Pack Joint x Pack Joint (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		76102WG	Compression x FIP Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		76107T	Compression x MIP Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		76107-22	Pack Joint x MIP Thread (3/4" - 2")	
		For Stainless Steel Pipe Only		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Ford Meter Box Co.	B51-xxxW-NL	Pack Joint x FIP Thread (1/2" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		B11-xxxW-NL	FIP Thread x FIP Thread (1/2" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		B81-xxxW-NL	MIP Thread x FIP Thread (1/2" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	A.Y. McDonald	76107	FIP Thread x MIP Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		76107WP	MIP Thread x MIP Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		76102W-44	PVC (DIOD) Compression x FIP Thread (3/4" - 2")	
				<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		76101W	FIP Thread x FIP Thread (3/4" - 2")	

EXHIBIT 3 APPROVED PRODUCTS LIST

Category				Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Valves	Gate Valves	Flange x Flange	2" - 54"	✓	✓	✓		American Flow Control	Series 2500 FL x FL	<p>Shall be resilient seated valves conforming to AWWA C515 Body and bonnet shall be ductile iron Buried valves shall have external nuts, bolts, and washers be min. 304 SS Buried valves shall have min. 304 SS stems Aboveground valves shall have external nuts, bolts and washers be 316 SS Aboveground valves shall have 316 SS stems Stem nut shall be bronze/copper Wedge shall be ductile iron fully encapsulated in EPDM rubber with the letters "EPDM" embossed or formed into the wedge Valves shall have factory applied, min. 12 mils DFT fusion bonded epoxy coating on the interior and exterior Preshipment holiday-free factory certification per ASTM G62 shall be provided for the interior and exterior coatings Aboveground valve shall have flanged ends with Outside Stem & Yoke (OS&Y) Valves 16" and larger shall be equipped with manufacturer-standard heavy duty gear type actuators with 2" square AWWA operating nut or handwheel Gearbox shall be externally adjustable, totally enclosed to prevent water infiltration, and conform to ISO 9001 standards Vertical installation shall use spur-type gear Horizontal installation shall use bevel-type gear All horizontally-installed gate valves shall require flush line</p> <p>Wastewater: Gate valves shall be allowed for Force Mains larger than 20" Refer to Plug Valve Section for Force Mains that are 20" and smaller Gate valve sizes 3" and larger shall be allowed at lift stations Valves shall only be installed vertically</p> <p>Valves 16" and larger shall come with torque-limiting device with torque trip limits preset at factory:</p> <p>Kennedy Valves: 16": 250 lb-ft, 18"-54": 450 lb-ft</p> <p>American Flow Control: 16"-20": 250 lb-ft, 24": 300 lb-ft, 30"-54": 500 lb-ft</p> <p>Clow Valves: 16": 250 lb-ft, 18"-54": 450 lb-ft</p>
			4" - 54"	✓	✓	✓		Kennedy	Model KS-RW/2638 FL x FL	
			4" - 48"	✓	✓	✓		Clow	Model 2638 FL x FL	
		Flange x Flange (OS & Y)	2" - 54"	✓	✓	✓		American Flow Control	Series 2500 FL x FL (OS&Y)	
			4" - 54"	✓	✓	✓		Kennedy	Model KS-RW/2638 FL x FL (OS & Y)	
			4" - 24"	✓	✓	✓		Clow	Model 2638 FL x FL (OS & Y)	
	Mechanical Joint x Mechanical Joint		4" - 48"	✓	✓	✓		American Flow Control	Series 2500 MJ x MJ	
				✓	✓	✓		Kennedy	Model KS-RW/2638 MJ x MJ	
				✓	✓	✓		Clow	Model 2638 MJ x MJ	



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Category		Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Valves	Hydrants		✓	✓		AVK	Series 2780	Shall be nostalgic-style, dry barrel conforming to AWWA C502 and be UL/FM certified Main valve shall be faced or covered with EPDM elastomer with the letters "EPDM" embossed or formed into the rubber
			✓	✓		Mueller	Super Centurion 250	Shall have one 5-inch Storz connection with two 2-1/2 inch hose nozzles All external nuts, bolts, and washers shall be min. 304 SS
			✓	✓		Kennedy	K81D Guardian	Upper and lower stem rod shall be min. 304 SS Nozzle cap shall be provided with a Buna N rubber O-Ring
			✓	✓		Clow	Medallion	Shall have min. 8-mils DFT fusion bonded epoxy coating on the interior and exterior Preshipment holiday-free factory certification per ASTM G62 shall be provided for the interior and exterior coatings
			✓	✓		American Flow Control	Darling B-84-B-5	Aboveground parts shall have an external top coat of Sherwin-Williams Acrolon 218 HS or Tnemec Series 1095 acrylic polyurethane, min. 4 mils DFT
	Insertion Valves	4" - 12"	✓	✓		TEAM	InsertValve	Shall be resilient seated valves conforming to AWWA C515 All nuts, bolts, washers, and non-rising stem shall be min. 304 SS Wedge shall be ductile iron fully encapsulated in EPDM rubber with the letters "EPDM" embossed or formed into the wedge Valves shall have factory applied, min. 12 mils DFT fusion bonded epoxy coating on the interior and exterior Preshipment holiday-free factory certification per ASTM G62 shall be provided for the interior and exterior coatings
	Tapping Valves		✓	✓	✓	American Flow Control	Series 2500 FL x MJ	Shall be resilient seated valves conforming to AWWA C515 Shall be furnished with an alignment lip All external nuts, bolts, washers, and non-rising stem shall be min. 304 SS Wedge shall be ductile iron fully encapsulated in EPDM rubber with the letters "EPDM" embossed or formed into the wedge Valves shall have factory applied min. 12 mils DFT fusion bonded epoxy coating on the interior and exterior Preshipment holiday-free factory certification per ASTM G62 shall be provided for the interior and exterior coatings
			✓	✓	✓	Kennedy	Model KS-RW/2638 FL x MJ	Valve 16" and larger shall be equipped with manufacturer-standard heavy duty gear type actuators with 2" square AWWA operating nut Gearbox shall be externally adjustable, totally enclosed to prevent water infiltration, and conform to ISO 9001 standards Vertical installation shall use spur-type gear Horizontal installation shall use bevel-type gear
			✓	✓	✓	Clow	Series 2638 FL x MJ	<u>Wastewater:</u> Valves shall only be installed vertically
	<u>Tapping valves 16" and larger shall come with torque-limiting device with torque trip limits preset at factory:</u> Refer to Gate Valve section for trip limits							



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Category				Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Valves	Check Valves	Flapper Disk	2" - 48"	✓	✓			Valmatic	Series 500ABF	<p>All sizes shall have 250 psi rating</p> <p>Check valve shall be lead free, ductile iron construction conforming to NSF 61</p> <p>Shall be equipped with min. 17-4 SS seat position indicator and min. 304 SS backflow actuator</p> <p>Disk shall be fully encapsulated in EPDM rubber with the letters "EPDM" embossed or formed into the disk</p> <p>All external bolts, nuts, and washers shall be min. 304 SS</p> <p>Valve shall have factory-applied, min. 8 mils DFT fusion bonded epoxy coating on the interior and exterior</p> <p>Preshipment holiday-free factory certification per ASTM G62 shall be provided for the interior and exterior coatings</p>
			2" - 24"	✓	✓			Pratt	RD Series	
			3" - 16"	✓	✓			American Cast Iron Pipe Company	Series 2100	
		Lever & Weight				✓		AVK	Series 41	<p><u>2" - 12"</u>: 175 psi <u>14" - 30"</u>: 150 psi</p> <p>Check valve shall be flanged with ductile iron/cast iron body and bronze mounted single disk conforming to AWWA C508</p> <p>Shall have bronze seat and body rings</p> <p>Hinge pins shall be extended bronze or 316 SS</p> <p>All external bolts, nuts, and washers shall be 316 SS</p> <p>Valves shall have factory applied, min. 12 mils DFT fusion bonded epoxy coating on the interior and exterior</p> <p>Preshipment holiday-free factory certification per ASTM G62 shall be provided for the interior and exterior coatings</p>
						✓		American Flow Control	Series 52	
						✓		Kennedy	106 LW	
						✓			1106 LW	
						✓		Mueller	Series 8001	
						✓			No. A-2600-6-01	
	Combination Pressure Reducing and Pressure Sustaining			✓	✓			Cla-Val Company	8" Model 52-01	<p>Pressure sustaining and check valve shall be pilot operated diaphragm actuated valve with cast iron body, bronze trim, and 125-lb flanges</p> <p>Pilot system shall consist of two direct acting, adjustable, spring loaded diaphragm valves</p> <p>Pilot control valves shall be cast brass with min. 304 SS trim</p>
				✓	✓			Singer	8" Model A106-RPS	
				✓	✓			Watts	8" Model LFF116-52	



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Category		Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Valves	Plug Valves	2"			✓	Pratt	Series 611A/613A	<p>Plug valves shall be 100% circular port, non-lubricated, eccentric type Shall be installed with the shaft on the horizontal axis so that the seat rests on the top portion of body Shall shut off bubble tight bidirectionally when pressure tested at 175 PSI for 3"-12" and 150 PSI for 14" and larger</p> <p>Valve body, bonnet, and gland shall be ASTM A-126 cast iron or ASTM A-526 Grade 65-45-12 ductile iron per AWWA C-517</p> <p>Plug shall be ASTM A-526 Grade 65-45-12 ductile iron per AWWA C-517 Plug shall be fully vulcanized with nitrile (Buna N) rubber with a min. peel strength of 75 PSI per ASTM D429, method B</p> <p>Top and bottom bearings shall be 316 SS All external nuts, bolts, and washers shall be min. 304 SS</p> <p>Valve be equipped with manufacturer-standard worm gear type actuators with 2" square AWWA operating nut</p> <p>Gearbox shall be externally adjustable, totally enclosed to prevent water infiltration, and conform to ISO 9001 standards</p> <p>Gearbox bearings shall be oil impregnated bronze or hardened steel Gearbox worm gear shall be hardened steel or ductile iron ASTM A536 Class 65-45-12 Gearbox shaft shall be hardened steel</p> <p><u>2"</u>: Valve seat shall have an overlay of min. 16 mils DFT high solids epoxy Shall only be allowed at grinder pump stations</p> <p><u>3" and larger</u>: Valve seat shall have a welded-in overlay of at least 95% pure nickel</p> <p style="text-align: center;"><u>Refer to Gate Valve Section for applications larger than 20"</u></p> <p><u>Valves shall come with torque-limiting device with torque trip limits preset at factory:</u></p> <p style="text-align: center;">3"-6": 150 ft-lb 8"-20": 180 ft-lb</p> <p>All valves shall have internal and external min. 16 mils DFT high solids epoxy coating Preshipment holiday-free factory certification per ASTM G62 shall be provided for the interior and exterior coatings</p>
		3" - 12"			✓		Series 600FP/601FP	
		2"			✓	Milliken	Series 611A/613A	
		3" - 12"			✓		Series 600F/601F	
		2"			✓	GA Industries	Figure 517-T	
		3"-20"			✓		Figure 517 Eco-Centric	
	Torque Limiting Device	Trip Torque Limit: 25-250 lb-ft	✓	✓	✓	Aunspach Controls	Model D86-250	<p>Torque limits shall be preset at factory (See specific valve section for torque limits) Permanently mount overtorque protector on the valve operating nut</p> <p>All hardware shall be min. 304 SSS</p> <p>Shall have min. 8 mils DFT fusion bonded epoxy on the interior and exterior</p> <p>Torque set point shall be engraved on the torque limiting device</p>
		Trip Torque Limit: 251-500 lb-ft	✓	✓	✓		Model D86-500	
	Valve Extension Stem		✓	✓	✓	Mueller Co.	-	Extension stems and hardware shall be min. 304 SS
			✓	✓	✓	CS3 Waterworks	-	
			✓	✓	✓	GPM Fab	-	

EXHIBIT 3 APPROVED PRODUCTS LIST

Category			Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Tapping Sleeves	HDPE	4" - 30"	✓	✓	✓		JCM Industries	Model 6452/6459 (HDPE)	<p>Sleeve and straps shall be 316 SS T-bolts, bolts, tie rods, nuts, and washers shall be 316 SS Shall have min. 1/4" thick red rubber full face gasket Shall have 3/4" 316 SS test plug</p> <p><u>Water/Reclaimed:</u> Must hold 180 PSI for one hour Tapping sleeve shall be NSF61 certified for potable water <u>For uncontaminated soils:</u> Shall have EPDM rubber gaskets with the letters "EPDM" embossed or formed into gasket <u>For contaminated soils:</u> Shall have NBR or FKM rubber gasket Refer to Valves and Appurtenances Section 02640 for gasket material details</p> <p><u>Wastewater:</u> Must hold 150 PSI for one hour</p>
		4" - 24"			✓		Ford Meter Box Co.	FTSSP-xxx-x-V	
		4" - 12"			✓			STS423-H	
	PVC, Ductile Iron, Steel, AC	6" - 48"			✓		Romac	STS420 (316 SS)	
		6" - 12"	✓	✓				STS420 (316 SS)	
		4" - 24"			✓		Ford Meter Box Co.	Series FTSS-xxxx-x-V	
					✓		Cascade Waterworks	Series CST-EX (316 SS)	
					✓		PowerSeal	Series 3490 (316 SS)	
		4" - 30"	✓	✓	✓		JCM Industries	Model 6452/6459	



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Category			Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Service Saddles	HDPE	4" - 12"	✓	✓	✓		Romac	STS423T-H	<p style="text-align: center;"><u>Water/Reclaimed:</u></p> <p style="text-align: center;">Must hold 180 PSI for one hour</p> <p style="text-align: center;">Saddle body shall be made of red brass, alloy 85-5-5-5 or min. 304 SS</p> <p style="text-align: center;">Saddle strap shall be made of silicon bronze or min. 304 SS</p> <p style="text-align: center;">T-bolts, bolts, tie rods, nuts, and washers shall be red brass, alloy 85-5-5-5 or min. 304 SS</p> <p style="text-align: center;">Service saddle shall be NSF61 certified for potable water</p> <p style="text-align: center;"><u>For uncontaminated soils:</u> Shall have EPDM rubber gaskets with the letters "EPDM" embossed or formed into gasket</p> <p style="text-align: center;"><u>For contaminated soils:</u> Shall have NBR or FKM rubber gasket</p> <p style="text-align: center;">Refer to Valves and Appurtenances Section 02640 for gasket material details</p> <p style="text-align: center;"><u>Wastewater:</u></p> <p style="text-align: center;">Must hold 150 PSI for one hour</p> <p style="text-align: center;">Saddle body and extra wide strap shall be 316 SS</p> <p style="text-align: center;">T-bolts, bolts, tie rods, nuts, and washers shall be 316 SS</p>
		2" - 12"	✓	✓	✓			Series FS313-xxx-TAP-Q	
		10" - 18"	✓	✓	✓			Series FSP323-xxx-TAP-Q	
		20" - 34"	✓	✓	✓			Series FSP333-xxx-TAP-Q	
		2" - 3"	✓	✓			Ford Meter Box Co.	FS313W-xxx-TAP	
		2" - 12"	✓	✓				Series FS313-xxx-TAP	
		10" - 18"	✓	✓				Series FSP323-xxx-TAP	
		20" - 34"	✓	✓				Series FSP333-xxx-TAP	
	PVC, Ductile Iron, Steel, AC	4" - 16"	✓	✓			Romac	202BS (Double Bolt)	
		6" - 12"	✓	✓				Model STS420T	
		6" - 42"			✓			Model STS420T (316 SS)	
		2" - 24"	✓	✓	✓		JCM Industries	Model 6438	
		3" - 36"	✓	✓				Model 502	
		2" - 12"	✓	✓	✓		Ford Meter Box Co.	FS313-xxx-TAP-Q	
		4" - 18"	✓	✓	✓			FS323-xxx-TAP-Q	
		20" - 30"	✓	✓	✓			FS333-xxx-TAP-Q	
		2" - 12"	✓	✓				FS313-xxx-TAP	
		4" - 18"	✓	✓				FS323-xxx-TAP	
		20" - 30"	✓	✓				FS333-xxx-TAP	

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Category			Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Jack and Bore Devices	Casing Spacers	Metallic	✓	✓	✓		BWM Company	Model BWM-SS-8	<u>Metallic Casing Spacers:</u> Bolts, nuts, and washers shall be 316 SS Shell/band shall be min. 14 gauge 304 SS Risers shall be min. 10 gauge 304 SS Each shell section shall have a hardness of Durometer "A" 85-90 and be lined with a min. thickness of 0.090" of ribbed PVC extrusion, EPDM, glass reinforced polymer, or ultra high molecular weight polyethylene.
			✓	✓	✓			Model BWM-SS-12	
			✓	✓	✓		Advanced Products & Systems, Inc.	Model SSI8	
			✓	✓	✓			Model SSI12	
			✓	✓	✓		Cascade Waterworks	Series CCS 8"	
			✓	✓	✓			Series CCS 12"	
		Non-Metallic	✓	✓	✓		RACI Products	-	<u>Non-Metallic Casing Spacers:</u> Shall be constructed of non-metallic virgin polypropylene or HDPE Shall be sized/spaced per manufacturer's recommendations
			✓	✓	✓		GPT Industries	Ranger II	
	End Seals		✓	✓	✓		BWM Company	Model BWM-PO	Contractor shall provide certification letter by manufacturer stating hardware material and coating Letter shall state project and contractor's name Letter shall be provided with the shop drawing submittal <u>For buried installations:</u> T-bolts, bolts, tie rods, nuts, and washers shall be High Strength, Low Alloy Steel conforming to AWWA C111/ANSI A21.11-17 or ASTM A242. Hardware referenced above shall be coated with a blue fluoropolymer coating (Xylan 1424, FluoroKote #1, or AFT-PTFE-Blue). Alternatively, hardware shall be 316 SS.
			✓	✓	✓			Model BWM-WR	
			✓	✓	✓		Advanced Products & Systems, Inc.	Model AC	
			✓	✓	✓			Model AM	
			✓	✓	✓			Model AZ	
			✓	✓	✓			Model AW	
			✓	✓	✓		Cascade Waterworks	Model CCES	
			✓	✓	✓		GPT Industries Products	-	

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Category		Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Asset Protection/Locators	Tracer Wire	✓	✓	✓		Southwire	Copper Clad Steel Wire	To be used for <u>open cut installations</u> Solid #10 gauge, high strength, copper clad steel wire (684 PSI break load) Min. 30-mils polyethylene insulation Color coded blue for water, Pantone Purple 522 C for reclaimed water, or green for sanitary sewer
		✓	✓	✓		Copperhead Industries	1030-HS	
		✓	✓	✓		Southwire	Copper Clad Steel Wire	To be used for <u>horizontal directional drilling installations</u> Solid #10 gauge, extra high strength, copper clad steel wire (2032 PSI break load) Min. 45-mils polyethylene insulation Color coded blue for water, Pantone Purple 522 C for reclaimed water, or green for sanitary sewer
		✓	✓	✓		Copperhead Industries	1045-EHS	
	Tracer Wire Connection	✓	✓	✓		Dryconn	King 6 Blue	
		✓	✓	✓			Direct Bury Lug Aqua	
	Tracer Wire Boxes	Non-traffic rated	✓	✓	✓	Copperhead Industries	Model LD14*TP	Shaft size shall be min. 2-1/2" I.D. Dia and 15" length ABS plastic rim with CI lid
			✓	✓	✓	Bingham & Taylor	Model P202CNG	
		Traffic-rated	✓	✓	✓	Copperhead Industries	Model RB14*TP	Tracer wire box shall be encased in a 6" concrete square, 6" in depth Shaft size shall be min. 2-1/2" I.D. Dia and 14-1/2" length CI rim and lid Shall have H-20 Load Rating
			✓	✓	✓	Bingham & Taylor	Model P2B202CNGHVV15SPB	
		Grounding Anode	✓	✓	✓	Copperhead Industries	Model ANO-1005	Min. 1 lb magnesium anode shall be installed at all pipe dead ends per Section 02800
	Path Marking Tape	Electronic	✓	✓	✓	3M	Series 7600XR	All underground pipe shall have electronically detectable path marking tape made of polyethylene, minimum 6" wide and 6 mm thick The tape shall have embedded detectable markers spaced every 8 feet along the warning tape The tape shall be color coded blue for water, Pantone Purple 522C for reclaimed water, or green for sanitary sewer Shall be marked "CAUTION _____ LINE BURIED BELOW"
	Polyethylene Encasement Tubing	✓	✓	✓		T. Christy's Enterprises	-	Shall be min. 8 mil thick, low density polyethylene tubing conforming to AWWA C105 Shall be color coded blue for water, purple (Pantone 522 C) for reclaimed water, and green for sewer Refer to Ductile Iron Pipe and Fittings Section 02615 for details
		✓	✓	✓		Trumbull	-	



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Category		Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Valve Boxes	Valve Boxes and Lid Assembly	✓	✓	✓		Pro Select	Series PSVB 461- 664	<p>Assembly shall be cast iron, screw type boxes & lids Alternatively, HDPE boxes shall be two-piece adjustable, min. 1/4-inch thick wall, w/ cast iron lid Bottom Barrel shall be 5-1/4 inches inside diameter, with a flanged bottom Lids shall have color coded tops with the lettering "WATER" or "SEWER"</p> <p>Roadways: Shall use heavy duty, 24 lbs cast iron drop-type lid</p> <p>Reclaimed Water: Shall have square 9" x 9" lid labeled "Reclaimed Water" Shall be colored Pantone 522C</p>
		✓	✓	✓		Tyler Union	Series 6500/6850/6860	
		✓	✓	✓		East Jordan Company Products	Series 8550	
		✓	✓	✓		Sigma Corp./Russell Pipe Company Products	Series VB261 - VB268	
		✓	✓	✓			Series VB630	
		✓	✓	✓		Star Pipe Products	Series VB-0001/VB-0002	
		✓	✓	✓			Series VB-0005/VB-0006	
			✓	✓			Series VB-0023	
		✓	✓	✓		American Flow Control	Trench Adapter	
	Box Alignment Rings	✓	✓	✓		Boxlok Products	Model 3 & 4	Contractor to contact manufacturer to verify alignment ring model number will properly fit valve make and model
Air Release Valve Enclosure		✓	✓	✓		Allied Moulded Products	-	<p>All enclosures shall comply with Manatee County standard detail for shape and size 22" square by 24" tall <u>fiberglass</u> enclosure with a hasp for a padlock Shall have polyester infused aggregate protective coating color coded per application</p>
Meter Boxes		✓	✓	✓		SIP Industries	6423-WNL	Non-locking, colored black for water
		✓	✓	✓			6423-WL	Locking, colored black for water
			✓	✓			6423-RWNL	Non-locking, Pantone 522C for reclaimed
			✓	✓			6423-RWL	Locking, Pantone 522C for reclaimed
Meter Resetters		✓	✓	✓		Ford Meter Box Co.	VB 42-7W (5/8" X 3/4")	<p>Shall meet AWWA C800 Meter resetters shall have padlock wing on angle ball valve Riser Height shall be 7 inch</p>
		✓	✓	✓			VB 43-7W (3/4")	
		✓	✓	✓			VB 44-7W (1")	
		✓	✓	✓		A.Y. McDonald	718-207WX (5/8" X 3/4")	
		✓	✓	✓		Mueller Co.	B-24118	
Water Sample Stations		✓	✓	✓		Safety Guard	Model B.O.S.S.	<p>Bacteriological sample station with built in flush system Shall be installed with UV-protected enclosure</p>

Contractor shall check/mark which product is intended to be used in the submittal box. If multiple manufacturers are to be used, each manufacturer shall be marked.



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Category		Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes	
Manholes	Polymer Concrete Manholes				✓	US Composite Pipe	-	<p><u>Polymer concrete manholes shall be installed where:</u></p> <ul style="list-style-type: none">• The manhole has a force main discharging into it, plus the 2 subsequent downstream manholes• The manhole discharges directly to a lift station, plus the 2 subsequent upstream manholes• The manhole has turbulent opposing flows as defined in the Manatee County Utility Standards (US-3)	
					✓	Armorock	-	<p>Refer to Polymer Concrete Manholes Specifications Section 02625 for details</p> <p>Shall be furnished with a heavy duty composite frame & lid</p> <p>Frame & lid shall have min. (3) 316 SS locking bolts</p> <p>Refer to Frame & Lids section for approved manufacturers</p>	
	Precast Concrete Manholes					✓	-	<p>Precast manholes shall be installed for all applications <u>except</u> where a polymer concrete manhole is required as identified in the Polymer Concrete Manholes section</p> <p>Refer to Precast Concrete Structures Specifications Section 03410 for details</p> <p>Only premade O-ring gaskets shall be allowed for joint connection</p> <p>Ramnek shall not be an acceptable method of joint connection</p>	
	Flexible Pipe Connectors	Cast-In Boot (New Construction Only)				✓	A-Lok Products	Z-Lok	<p>Must meet ASTM C923</p> <p><u>Contractor shall grout the annular space between the pipe and wall penetration per manufacturer's recommendations with the following:</u></p> <p><u>Polymer Concrete Manholes:</u> Sauereisen 165/Sikadur 42 Epoxy//ArmorRock Grout</p> <p><u>Precast Concrete Manholes:</u> Avanti Multi-Grout AV-202/AV-118</p> <p><u>Cast-In Boot:</u></p> <p>If applicable, external take down clamp and its hardware shall be 316 SS</p> <p><u>Jack-In Boot:</u></p> <p>External take down clamp and its hardware shall be 316 SS</p> <p>Internal expansion band and its hardware shall be min. 304 SS</p>
						✓		X-Cel	
						✓		Premium	
						✓	Trelleborg	Series 706	
						✓	Press-Seal Corp.	Econoseal	
						✓		Cast-A-Seal Series	
		Jack-In Boot (Existing Construction Only)				✓	Trelleborg	Kor-N-Seal Series 106/206/406	
					✓	Press-Seal Corp.	PSX Direct Drive		
					✓	Hamilton Kent	Tylox MIB Series		
Rainwater Inserts					✓	Rowland	InflowShield	Min. 18 gauge 304 SS insert	



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Category			Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Manholes	Frame & Lids	Standard			✓		U.S. Foundry	USF 170-CE-1	Must have "MANATEE COUNTY", "SANITARY SEWER", AND "YEAR" CASTED
		Rim Elevation below Floodplain			✓		U.S. Foundry	USF 170-CE-BWT	Shall be used for manholes with lids that are located at less than the flood plain elevations as specified in Utilities Standard Manual 1.12.13 Shall have gasketed seals Shall have min. (3) 316 SS locking bolts
					✓		Pamrex	Pamtight	
		ARV Manholes with < 44" From Top of Pipe to Cover	✓	✓	✓		Pamrex	Pamrex 32"	Shall be used for ARV hinged manholes with less than 44" from top of pipe to cover In roadways, the lid shall open in the direction opposite of incoming traffic
			✓	✓	✓		U.S. Foundry	USF 324-UT-LOC	
		Heavy Duty Composite			✓		Composite Access Products	CAP ONE	<u>Manholes shall use a heavy duty composite frame and lid where:</u> <ul style="list-style-type: none">• The manhole has a force main discharging into it, plus the 2 subsequent downstream manholes• The manhole discharges directly to a lift station, plus the 2 subsequent upstream manholes• The manhole has turbulent opposing flows as defined in the Manatee County Utility Standards (US-3) Shall have min. (3) 316 SS locking bolts
					✓		Aquatechnology Group	ATG-2400	
		Drop Bowl				✓		Reliner/Duran Products	-
	External Joint Wrap	Heat Shrink-Wrap			✓		GPT Industries	Riser-Wrap	<u>To be used on Armorock or US Composite Pipe polymer concrete manholes:</u> A min. of eighteen (18) inches wide heat shrinkable joint wrap shall be centered over all new manhole joints including chimney to manhole frame section
					✓		CCI Pipeline Systems	WrapidSeal	
		Non-Shrink Wrap			✓		Henry	Rubr-Nek RU116	<u>To be used on all precast concrete or US Composite Pipe polymer concrete manholes:</u> A min. of twelve (12) inches wide elastomeric plastic joint wrap shall be centered over all new and existing manhole joints including chimney to manhole frame section
	Epoxy Grout				✓		Armorock	ArmorRock Grout	Non-shrink, epoxy polymer grout shall be used for grouting applications in polymer concrete manholes including wall penetrations and adjusting benches
					✓		Sauereisen	No. 165	
					✓		Sikadur	No. 42	
	Grout				✓		Avanti	Multi-Grout AV-202/AV-118	Shall be used for grouting applications in precast concrete manholes including wall penetrations and adjusting benches
	Internal Joint Sealants				✓		ConSeal	CS102	Butyl Rubber Sealant shall be applied to the interior of Armorock polymer concrete manhole joints per manufacturer's recommendations
					✓		Adeka	Ultra Seal P-201 Hydrophillic Urethane Paste	A min. of 1/2-inch x 3/4-inch bead of urethane paste shall be applied to the interior of regular precast concrete manhole joints just before manhole section assembly
	Protective Liners (Rehabilitation)				✓		Raven Lining Systems	Raven 405	Liners shall only be used with written approval from Manatee County to rehabilitate existing manhole concrete surfaces
					✓		GML Coatings	Green Monster	Liners shall be installed per manufacturer's recommendations



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Category				Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Lift Stations	Electrical	Site Lighting					✓	Regent	Model EQ300M1	Min. 6000 lumens LED
		Level Switches and Sensors					✓	MDI Products	-	Float switch
							✓	Connery Manufacturing	-	Float switch
							✓	Dylix	Model GXS3-PP300-A49-B49-50-C01-D49	Pressure transmitter mounted inside a stilling well acting as the primary level sensor For pump stations that re-pump sewage flows from other pump stations
		Flow Meters					✓	McCrometer	Ultra Mag Model UM06/UM08	Shall be used for lift stations that re-pump sewage flows (directly or indirectly) from other lift stations
	Mechanical	Submersible Pumps	Satellite				✓	ABS	-	Refer to Lift Station Section 13100 for details Pumps shall have oil-filled cooling
							✓	Barnes	-	
							✓	Crane	Sithe Series	
							✓	Hydromatic	-	
							✓	Hydromatic	-	
		Master					✓	Flygt	-	Refer to Diesel Backup Pump Section 11215 for details
							✓	Godwin Pumps	-	
							✓	Prestone Products	-	
		Diesel Backup Pumps	Cooling System Fluid				✓	Zerex Products	-	Pump/Engine enclosures shall have a coal tar epoxy coating, min. 16 mils DFT, for all metal surfaces coming in contact with concrete or grout
							✓	Carboline	Bitumastic 300M	
			Protective Coating				✓	Tnemec	46H-413	
							✓	Sherwin Williams	SherGlass FF	
							✓			Fuel tank/skid base shall have haze grey, two coats of 12-15 mils on top of a stripe coat over all welds, crevices, edges and sharp angles



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Category		Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Lift Stations	Structural	Lift Station Wetwell			✓	US Composite Pipe	-	All lift station wetwells shall be made of polymer concrete per Manatee County Specifications Section 13100
					✓	Armorock	-	
		Drop Bowl			✓	Reliner/Duran Products	-	If required, shall be installed per Manatee County Standard Details
		Wall Penetration Seals			✓	GPT Industries	Link-Seal Model S-316	All hardware to be 316 SS
					✓	CCI Pipeline Systems	Wrap-IT Link WL-SS Series	
					✓	Proco Products	PenSeal ES Series (Standard)	
		Horizontal Support Channels			✓	Unistrut Products	-	Min. 1-5/8", 12 gage solid min. 304 SS channels, attached with 3/8" min. 304 SS all thread rod with min. 304 SS flat washers and nuts Refer to Manatee County standard details
					✓	BLine Products	-	
		Pump Mounting Systems			✓	Barney's Pumps	-	All systems shall be of the front loading slide rail type BPIU All rail and mounting hardware shall be 316 SS
		Lift Station Towers			✓	Rohn	Series RG-45	For heights above > 20'
		Wetwell Entrance Hatches			✓	U.S. Foundry Products	-	Aluminum cover shall have minimum load rating of 300 psf and equipped with 316 SS hinges, hasp, and a device to lock the doors in an open position when the lid is raised Shall have 2 coats of bitumastic epoxy, 16 mils DFT <u>For Duplex Stations:</u> 4" Base Elbow Wetwell: hatch shall be minimum 36" x 48" 6" Base Elbow Wetwell (8' Dia. Wetwell): hatch shall be minimum 42" x 60"
					✓	Bilco Products	-	
					✓	Halliday Products	-	



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Category		Submittal	Potable Water	Reclaimed Water	Wastewater	Manufacturer	Model Number	Notes
Lift Stations	Surface Protection	Protective Insert Liners			✓	GU Florida	FRP GU Liner	<p>Liners shall only be used with written approval from Manatee County</p> <p>Liners shall be installed per manufacturer's recommendations</p> <p>Sealant, adhesive, and bonding agent products shall be compatible with liner material</p> <p>FRP liners shall be fabricated with premium grade isophthalic polyester resin, fiberglass chopped strand, woven roving and continuous reinforcements</p> <p>Sand filler shall not be permitted in the FRP laminate</p>
					✓	AGRU	HDPE Sure Grip Liner	
		Protective Liners (Rehabilitation)			✓	Raven Lining Systems	Raven 405	<p>Liners shall only be used with written approval from Manatee County to rehabilitate existing lift station concrete surfaces</p> <p>Liners shall be installed per manufacturer's recommendations</p>
					✓	GML Coatings	Green Monster	
					✓	CCI Spectrum	SpectraShield	
					✓	Sauereisen Products	210T & 210GL (MC Light Brown Formula)	
		Epoxy Grout			✓	Armorock	ArmorRock Grout	<p>Non-shrink, epoxy polymer grout shall be used for grouting applications in polymer concrete lift stations including wall penetrations and adjusting benches</p>
					✓	Sauereisen	No. 165	
					✓	Sikadur	No. 42	
		Grout Applications			✓	Avanti	Multi-Grout AV-202/AV-118	<p>Shall be used for grouting applications in precast concrete lift stations including wall penetrations and adjusting benches</p>
		Coating	Valve Vault Interior		✓	Tnemec	Series 69 Hi-Build Epoxy Coating	<p>Interior surfaces of existing vaults shall be coated with two (2) coats of minimum thickness of 8 mils</p>
			Exposed Concrete		✓	FLR Paints, Inc.	H&C Silicone Acrylic Concrete Stain, Patio Green	<p>Exterior surfaces of the vault and wetwell top exposed above grade shall have minimum two (2) coats of minimum 8 mils.</p>
			Exposed Valve Assembly		✓	Rustoleum	Series 7538/Pro Series 7738	<p>All aboveground valves, piping and appurtenances shall be painted Hunter Green</p>