



**BOARD OF CONTRACT AND SUPPLY  
CITY OF PROVIDENCE, RHODE ISLAND**

# **REQUEST FOR PROPOSALS**

**Item Description: VARIOUS WATER PIPE APPURTENANCES (EXP. 6/30/24) WITH 1- OPTION YEAR**

**Date to be opened: MONDAY, MAY 8, 2023**

**Issuing Department: PROVIDENCE WATER**

## **QUESTIONS**

- Please direct questions relative to the bidding process, how to fill out forms, and how to submit a bid (Pages 1-8) to the Purchasing Department.
  - Email: [purchasing@providenceri.gov](mailto:purchasing@providenceri.gov)
    - Please use the subject line “**RFP Question**”
- Please direct questions relative to the Minority and Women’s Business Enterprise Program and the corresponding forms (Pages 9-13) to the MBE/WBE Outreach Director for the City of Providence, Grace Diaz
  - Phone: (401) 680-5766
  - Email: [gdiaz@providenceri.gov](mailto:gdiaz@providenceri.gov)
    - Please use subject line “**MBE WBE Forms**”
- Please direct questions relative to the specifications outlined (beginning on page 14) to the issuing department’s subject matter expert:
  - Paul Sherry-Division Manager, 401-521-6300 ex. 7169 or [paulsh@provwater.com](mailto:paulsh@provwater.com)

## **Pre-bid Conference**

**There is no pre-bid conference**



**BOARD OF CONTRACT AND SUPPLY  
CITY OF PROVIDENCE, RHODE ISLAND**

**INSTRUCTIONS FOR SUBMISSION**

Bids may be submitted up to **2:15 P.M.** on the above meeting date at the **Department of the City Clerk, Room 311, City Hall, 25 Dorrance Street, Providence.** At 2:15 P.M. all bids will be publicly opened and read at the Board of Contract Meeting in Room 305, on the 3<sup>rd</sup> floor of City Hall.

- Bidders must submit **2 copies** of their bid in sealed envelopes or packages labeled with the captioned **Item Description** and the **City Department to which the RFP and bid are related and must include the company name and address on the envelope as well.** (On page 1).
- If required by the Department, please keep the original bid bond and check in only one of the envelopes.
- Communications to the Board of Contract and Supply that are not competitive sealed bids (i.e. product information/samples) should have “**NOT A BID**” written on the envelope or wrapper.
- Only use form versions and templates included in this RFP. If you have an old version of a form do not recycle it for use in this bid.
- The bid envelope and information relative to the bid must be addressed to:

**Board of Contract and Supply  
Department of the City Clerk – City Hall, Room 311  
25 Dorrance Street  
Providence, RI 02903**

**\*\*PLEASE NOTE:** This bid may include details regarding information that you will need to provide (such as proof of licenses) to the issuing department before the formalization of an award.

*This information is NOT requested to be provided in your initial bid by design.*

**All bids submitted to the City Clerk become public record.** Failure to follow instructions could result in information considered private being posted to the city’s Open Meetings Portal and made available as a public record. The City has made a conscious effort to avoid the posting of sensitive information on the City’s Open Meetings Portal, by requesting that such sensitive information be submitted to the issuing department only at their request.



**BOARD OF CONTRACT AND SUPPLY  
CITY OF PROVIDENCE, RHODE ISLAND**

**BID PACKAGE CHECKLIST**

Digital forms are available in the City of Providence Purchasing Department Office or online at

<http://www.providenceri.gov/purchasing/how-to-submit-a-bid/>

The bid package **MUST** include the following, in this order:

- Bid Form 1: Bidder's Blank as the cover page/ 1<sup>st</sup> page (*see page 6 of this document*)
- Bid Form 2: Certification of Bidder as 2<sup>nd</sup> page (*see page 7 of this document*)
- Bid Form 3: Certificate Regarding Public Records (*see page 8 of this document*)
- Forms from the Minority and Women Business Enterprise Program: Based on Bidder Category. *See forms and instructions enclosed (pages 9-13) or on: <https://www.providenceri.gov/purchasing/minority-women-owned-business-mbewbe-procurement-program/>*

**\*Please note: MBE/WBE forms must be completed for EVERY bid submitted and must be inclusive of ALL required signatures. Forms without all required signatures will be considered incomplete.**

- Bidder's Proposal/Packet: Formal response to the specifications outlined in this RFP, including pricing information and details related to the good(s) or service(s) being provided. Please be mindful of formatting responses as requested to ensure clarity.
- Financial Assurance, *if requested* (as indicated on page 5 of this document under "Bid Terms")

**All of the above listed documents are REQUIRED.** (With the exception of financial assurances, which are only required if specified on page 5.)

***\*\*\*Failure to meet specified deadlines, follow specific submission instructions, or enclose all required documents with all applicable signatures will result in disqualification, or in an inability to appropriately evaluate bids.***



**BOARD OF CONTRACT AND SUPPLY**  
CITY OF PROVIDENCE, RHODE ISLAND

**NOTICE TO VENDORS**

1. The Board of Contract and Supply will make the award to the lowest qualified and responsible bidder.
2. In determining the lowest responsible bidder, cash discounts based on preferable payment terms will not be considered.
3. Where prices are the same, the Board of Contract and Supply reserves the right to award to one bidder, or to split the award.
4. No proposal will be accepted if the bid is made in collusion with any other bidder.
5. Bids may be submitted on an “equal in quality” basis. The City reserves the right to decide equality. Bidders must indicate brand or the make being offered and submit detailed specifications if other than brand requested.
6. A bidder who is an out-of-state corporation shall qualify or register to transact business in this State, in accordance with the Rhode Island Business Corporation Act, RIGL Sec. 7-1.2-1401, et seq.
7. The Board of Contract and Supply reserves the right to reject any and all bids.
8. Competing bids may be viewed in person at the Department of the City Clerk, City Hall, Providence, immediately upon the conclusion of the formal Board of Contract and Supply meeting during which the bids were unsealed/opened. Bids may also be accessed electronically on the internet via the City’s [Open Meetings Portal](#).
9. As the City of Providence is exempt from the payment of Federal Excise Taxes and Rhode Island Sales Tax, prices quoted are not to include these taxes.
10. In case of error in the extension of prices quoted, the unit price will govern.
11. The contractor will **NOT** be permitted to: a) assign or underlet the contract, or b) assign either legally or equitably any monies or any claim thereto without the previous written consent of the City Purchasing Director.
12. Delivery dates must be shown in the bid. If no delivery date is specified, it will be assumed that an immediate delivery from stock will be made.
13. A certificate of insurance will normally be required of a successful vendor.
14. For many contracts involving construction, alteration and/or repair work, State law provisions concerning payment of prevailing wage rates apply ([RIGL Sec. 37-13-1 et seq.](#))
15. No goods should be delivered, or work started without a Purchase Order.
16. **Submit 2 copies of the bid to the City Clerk, unless the specification section of this document indicates otherwise.**
17. Bidder must certify that it does not unlawfully discriminate on the basis of race, color, national origin, gender, gender identity or expression, sexual orientation and/or religion in its business and hiring practices and that all of its employees are lawfully employed under all applicable federal, state and local laws, rules and regulations. (See Bid Form 2.)



**BOARD OF CONTRACT AND SUPPLY  
CITY OF PROVIDENCE, RHODE ISLAND**

**BID TERMS**

1. Financial assurances may be required in order to be a successful bidder for Commodity or Construction and Service contracts. If either of the first two checkboxes below is checked, the specified assurance must accompany a bid, or the bid will not be considered by the Board of Contract and Supply. The third checkbox indicates the lowest responsible bidder will be contacted and required to post a bond to be awarded the contract.
  - a)  A certified check for \$ must be deposited with the City Clerk as a guarantee that the Contract will be signed and delivered by the bidder, or
  - b)  A bid bond in the amount of \_ per centum (%) of the proposed total price, must be deposited with the City Clerk as a guarantee that the contract will be signed and delivered by the bidder; and the amount of such bid bond shall be retained for the use of the City as liquidated damages in case of default.
  - c)  A performance and payment bond with a satisfactory surety company will be posted by the bidder in a sum equal to one hundred per centum (100%) of the awarded contract.
  - d)  No financial assurance is necessary for this item.
2. Awards will be made within **sixty (60) days of bid opening**. All bid prices will be considered firm, unless qualified otherwise. Requests for price increases will not be honored.
3. Failure to deliver within the time quoted or failure to meet specifications may result in default in accordance with the general specifications. It is agreed that deliveries and/or completion are subject to strikes, lockouts, accidents and Acts of God.

**The following entry applies only for COMMODITY BID TERMS:**

4. Payment for partial delivery will not be allowed except when provided for in blanket or term contracts.

**The following entries apply only for CONSTRUCTION AND SERVICE BID TERMS:**

5. Only one shipping charge will be applied in the event of partial deliveries for blanket or term contracts.
6. Prior to commencing performance under the contract, the successful bidder shall attest to compliance with the provisions of the Rhode Island Worker's Compensation Act, RIGL 28-29-1, et seq. If exempt from compliance, the successful bidder shall submit a sworn Affidavit by a corporate officer to that effect, which shall accompany the signed contract.
7. Prior to commencing performance under the contract, the successful bidder shall, submit a certificate of insurance, in a form and in an amount satisfactory to the City.



**BOARD OF CONTRACT AND SUPPLY  
CITY OF PROVIDENCE, RHODE ISLAND**

**BID FORM 1: Bidders Blank**

1. Bids must meet the attached specifications. Any exceptions or modifications must be noted and fully explained.
2. Bidder's responses must be in ink or typewritten, and all blanks on the bid form should be completed.
3. The price or prices proposed should be stated both in **WRITING** and in **FIGURES**, and any proposal not so stated may be rejected. **Contracts exceeding twelve months must specify annual costs for each year.**
4. Bids **SHOULD BE TOTALED** so that the final cost is clearly stated (unless submitting a unit price bid), however **each item should be priced individually**. Do not group items. Awards may be made on the basis of *total* bid or by *individual items*.
5. All bids **MUST BE SIGNED IN INK.**

Name of Bidder (Firm or Individual): \_\_\_\_\_

Contact Name: \_\_\_\_\_

Business Address: \_\_\_\_\_

Business Phone #: \_\_\_\_\_

Contact Email Address: \_\_\_\_\_

Agrees to bid on (Write the "Item Description" here): \_\_\_\_\_

If the bidder's company is based in a state *other than Rhode Island*, list name and contact information for a local agent for service of process that *is located within Rhode Island* \_\_\_\_\_

Delivery Date (if applicable): \_\_\_\_\_

Name of Surety Company (if applicable): \_\_\_\_\_

Total Amount in Writing\*: \_\_\_\_\_

Total Amount in Figures\*: \_\_\_\_\_

***\* If you are submitting a unit price bid, please insert "Unit Price Bid"***

***Use additional pages if necessary for additional bidding details.***

\_\_\_\_\_  
Signature of Representation

\_\_\_\_\_  
Title



**BOARD OF CONTRACT AND SUPPLY**  
CITY OF PROVIDENCE, RHODE ISLAND

**BID FORM 2: Certification of Bidder**  
(Non-Discrimination/Hiring)

Upon behalf of \_\_\_\_\_ (Firm or Individual Bidding),

I, \_\_\_\_\_ (Name of Person Making Certification),

being its \_\_\_\_\_ (Title or "Self"), hereby certify that:

1. Bidder does not unlawfully discriminate on the basis of race, color, national origin, gender, sexual orientation and/or religion in its business and hiring practices.
2. All of Bidder's employees have been hired in compliance with all applicable federal, state and local laws, rules and regulations.

I affirm by signing below that I am duly authorized on behalf of Bidder, on  
this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_\_.

\_\_\_\_\_  
Signature of Representation

\_\_\_\_\_  
Printed Name



**BOARD OF CONTRACT AND SUPPLY  
CITY OF PROVIDENCE, RHODE ISLAND**

**BID FORM 3: Certificate Regarding Public Records**

Upon behalf of \_\_\_\_\_ (Firm or Individual Bidding),

I, \_\_\_\_\_ (Name of Person Making Certification),

being its \_\_\_\_\_ (Title or "Self"), hereby certify an

understanding that:

1. All bids submitted in response to Requests for Proposals (RFP's) and Requests for Qualification (RFQ's), documents contained within, and the details outlined on those documents become public record upon receipt by the City Clerk's office and opening at the corresponding Board of Contract and Supply (BOCS) meeting.
2. The Purchasing Department and the issuing department for this RFP/RFQ have made a conscious effort to request that sensitive/personal information be submitted directly to the issuing department and only at request if verification of specific details is critical the evaluation of a vendor's bid.
3. The requested supplemental information may be crucial to evaluating bids. Failure to provide such details may result in disqualification, or an inability to appropriately evaluate bids.
4. If sensitive information that has not been requested is enclosed or if a bidder opts to enclose the defined supplemental information prior to the issuing department's request in the bidding packet submitted to the City Clerk, the City of Providence has no obligation to redact those details and bears no liability associated with the information becoming public record.
5. The City of Providence observes a public and transparent bidding process. Information required in the bidding packet may not be submitted directly to the issuing department at the discretion of the bidder in order to protect other information, such as pricing terms, from becoming public. Bidders who make such an attempt will be disqualified.

I affirm by signing below that I am duly authorized on behalf of Bidder, on

this \_\_\_\_\_ day of \_\_\_\_\_ 20 \_\_\_\_\_.

\_\_\_\_\_  
Signature of Representation

\_\_\_\_\_  
Printed Name





**BOARD OF CONTRACT AND SUPPLY  
CITY OF PROVIDENCE, RHODE ISLAND**

**WBE/MBE Form Instructions**

The City of Providence actively seeks Minority and Women business enterprises to participate in bids to meet the City's procurement needs. Pursuant to the City of Providence Code of Ordinances, Chapter 21, Article II, Sec. 21-52 (Minority and Women's Business Enterprise) and Rhode Island General Laws (as amended), Chapter 31-14, et seq. (Minority Business Enterprise), Minority Business Enterprise (MBE) and Women's Business Enterprise (WBE) participation goals apply to contracts.

The goal for Minority Business Enterprise (MBE) participation is **10%** of the total bid value.

The goal for Women's Business Enterprise (WBE) participation is **10%** of the total bid value.

The goal for combined MBE/WBE participation is **20%** of the total bid value.

Only businesses certified with the State of Rhode Island as minority and/or women business enterprises are counted towards the City's goals. Eligible minority or women-owned businesses are encouraged to seek certification from the State of Rhode Island Minority Business Enterprise Compliance Office at: <http://odeo.ri.gov/offices/mbeco/>

**Note:** MBE certification with the State of Rhode Island on the basis of Portuguese heritage is not currently recognized by the City of Providence's MBE program.

**Bid Requirements:**

**All Bidders:** All bidders **must complete and submit the *MBE/WBE Participation Affidavit*** indicating whether or not they are a state-certified MBE/WBE and acknowledging the City's participation goals. Submission of this form is **required with every bid. Your bid will not be accepted without an affidavit.**

**Bidders who will be subcontracting:** *In addition to the MBE/WBE Participation Affidavit*, Bidders who will be subcontracting must submit the *Subcontractor Disclosure Form* as part of their bid submission. All subcontractors, regardless of MBE/WBE status, must be listed on this form. Business NAICS codes can be found at <https://www.naics.com/search/>. Awarded bidders are required to submit

***Subcontractor Utilization and Payment Reports*** with each invoice.

**Waiver Requests:**

- a) If the percentage of the total amount of the bid being awarded to MBE or WBE vendors is less than 20% (Box F on the Subcontractor Disclosure Form) and the prime contractor is not a Rhode Island State-certified MBE or WBE, the Bidder must complete the *MBE/WBE Waiver Request Form* for review.
- b) If the prime contractor company has the capacity to perform the whole project, the City of Providence requires the contractor to meet the city's goal of a combined 20% of MBE and WBE participation.
- c) If the contractor is a nonprofit organization, the City of Providence requires the nonprofit organization to provide the *MBE/WBE Participation Affidavit Form* and proof of its nonprofit status.
- d) If the contractor has researched the RI Certified minority list (<http://odeo.ri.gov/offices/mbeco/mbe-wbe.php>) and the state does not have any companies in the desired trade, the City of Providence requires the contractor to provide the *MBE/WBE Participation Affidavit Form*.
- e) Waivers will be considered for approval on a case-by-case basis.



**BOARD OF CONTRACT AND SUPPLY  
CITY OF PROVIDENCE, RHODE ISLAND**

**Verifying MBE/WBE Certification**

It is the responsibility of the bidder to confirm that every MBE or WBE named in a proposal and included on a contract is certified by the Rhode Island Minority Business Enterprise Compliance Office. The current MBE/WBE directory is available at the State of RI MBE Office, One Capitol Hill, 2nd Floor, Providence, RI, or online at <http://odeo.ri.gov/offices/mbeco/mbe-wbe.php>. You can also call (401) 574-8670 to verify certification, expiration dates, and services that the MBE/WBE is certified to provide. Note: MBE certification with the State of Rhode Island on the basis of Portuguese heritage is not currently recognized by the City of Providence's MBE program.

**Form Instructions:**

Access all bid forms from <http://www.providenceri.gov/oeo/> or <http://www.providenceri.gov/purchasing/minority-women-owned-business-mbewbe-procurement-program/>. Download the forms as blank PDFs. Once saved on your computer, fill them out using the Adobe program. The fillable PDFs must be completed in Adobe in order to be saved properly. Google Chrome and similar platforms do not allow for the forms to be saved as filled PDFs. Therefore, please download the blank forms to your computer, then fill them out and save.

**Assistance with Form Requirements**

Examples of completed forms can be found on the City of Providence website at <http://www.providenceri.gov/oeo/> or <http://www.providenceri.gov/purchasing/minority-women-owned-business-mbewbe-procurement-program/>.

**Contract Requirements:**

Prime contractors engaging subcontractors must submit the *Subcontractor Utilization and Payment Report* to the City Department's Fiscal Agent with every invoice and request for final payment. A copy of all forms should be sent to the MBE/WBE Outreach Director Office, Grace Diaz at [gdiaz@providenceri.gov](mailto:gdiaz@providenceri.gov). This form is not submitted as a part of the initial bid package. For contracts with durations of less than 3 months, this form must be submitted along with the contractor's request for final payment. The form must include all subcontractors utilized on the contract, both MBE/WBE and non- MBE/WBE, the total amount paid to each subcontractor for the given period and to date, A copy of all forms should be sent to the MBE/WBE Outreach Director Office, Grace Diaz at [gdiaz@providenceri.gov](mailto:gdiaz@providenceri.gov). During the term of the contract, any unjustified failure to comply with the MBE/WBE participation requirements is a material breach of contract.

**Questions?**

For more information or for assistance with MBE/WBE Forms, contact the City of Providence MBE/WBE Outreach Director, Grace Diaz, at [gdiaz@providenceri.gov](mailto:gdiaz@providenceri.gov) or (401) 680-5766.



BOARD OF CONTRACT AND SUPPLY  
CITY OF PROVIDENCE, RHODE ISLAND

**MBE/WBE PARTICIPATION AFFIDAVIT**

Project /Item Description (as seen on RFP):

\_\_\_\_\_

Prime Bidder: \_\_\_\_\_ Contact Email and Phone \_\_\_\_\_

Company Name, Address and Trade: \_\_\_\_\_

\_\_\_\_\_

Which one of the following describes your business' status in terms of Minority and/or Woman-Owned Business Enterprise certification with the State of Rhode Island? \_\_\_\_\_ MBE \_\_\_\_\_ WBE \_\_\_\_\_ Neither MBE nor WBE

**By initialing the following sections and signing the bottom of this document in my capacity as the contractor or an authorized representative of contractor, I make this Affidavit:**

It is the policy of the City of Providence that minority business enterprises (MBEs) and women business enterprises (WBEs) should have the maximum opportunity to participate in procurements and projects as prime contractors and vendors. Pursuant to Sec. 21-52 of the Providence Code of Ordinances and Chapter 31-14 *et seq.* of the Rhode Island General Laws (as amended), MBE and WBE participation goals apply to contracts.

The goal for Minority Business Enterprise (MBE) participation is 10% of the total bid value.  
The goal for Women's Business Enterprise (WBE) participation is 10% of the total bid value.  
The goal for combined MBE/WBE participation is 20% of the total bid value.

**I acknowledge the City of Providence's goals of supporting MBE/WBE certified businesses.** Initial \_\_\_\_\_

If awarded the contract, I understand that my company must submit to the Minority and Women's Business Coordinator at the City of Providence (MBE/WBE Office), copies of all executed agreements with the subcontractor(s) being utilized to achieve the participation goals and other requirements of the RI General Laws. **I understand that these documents must be submitted prior to the issuance of a notice to proceed.** Initial \_\_\_\_\_

**I understand that, if awarded the contract, my firm must submit to the MBE/WBE Office canceled checks and reports required by the MBE/WBE Office on a quarterly basis verifying payments to the subcontractors(s) utilized on the contract.** Initial \_\_\_\_\_

If I am awarded this contract and find that I am unable to utilize the subcontractor(s) identified in my Statement of Intent, I understand that I must substitute another certified MBE and WBE firm(s) to meet the participation goals. **I understand that I may not make a substitution until I have obtained the written approval of the MBE/WBE Office.**  
Initial \_\_\_\_\_

**If awarded this contract, I understand that authorized representatives of the City of Providence may examine the books, records and files of my firm from time to time, to the extent that such material is relevant to a determination of whether my firm is complying with the City's MBE/WBE participation requirements.**  
Initial \_\_\_\_\_

**I do solemnly declare and affirm under the penalty of perjury that the contents of the foregoing Affidavit are true and correct to the best of my knowledge, information, and belief.**

\_\_\_\_\_  
Signature of Bidder

\_\_\_\_\_  
Printed Name

\_\_\_\_\_  
Company Name

\_\_\_\_\_  
Date



**BOARD OF CONTRACT AND SUPPLY  
CITY OF PROVIDENCE, RHODE ISLAND**

**SUBCONTRACTOR DISCLOSURE FORM**

Fill out this form only if you WILL SUBCONTRACT with other parties. If you will not subcontract any portion of the proposed bid, do not fill out this form.

Prime Bidder: \_\_\_\_\_ Primary NAICS \_\_\_\_\_

Code: \_\_\_\_\_

Item Description (as seen on RFP): \_\_\_\_\_

**Please list all Subcontractors below.** Include the total dollar value that you propose to share with each subcontractor and the dollar amount to be subcontracted. Please check off MBE and WBE where applicable. The directory of all state-certified MBE/WBE firms is located at [www.mbe.ri.gov](http://www.mbe.ri.gov). Business NAICS codes can be found at

<https://www.naics.com/search/>

Proposed Subcontractor	MBE	WBE	Primary NAICS Code	Date of Mobilization	\$ Value of Subcontract
					\$
					\$
					\$
					\$
					\$
					\$
<b>A. MBE SUBCONTRACTED AMOUNT:</b>					\$
<b>B. WBE SUBCONTRACTED AMOUNT:</b>					\$
<b>C. NON-MBE WBE SUBCONTRACTED AMOUNT:</b>					\$
<b>D. DOLLAR AMOUNT OF WORK DONE BY THE PRIME CONTRACTOR:</b>					\$
<b>E. TOTAL AMOUNT OF BID (SUM OF A, B, C, &amp; D):</b>					\$
<b>F. PERCENTAGE OF BID SUBCONTRACTED TO MBEs AND WBEs. (Divide the sum of A and B by E and multiply result by 100).</b>					%

Please read and initial the following statement acknowledging you understand. If the percentage of the total amount of the bid being awarded to MBE or WBE vendors is less than 20% (Box (F) and the prime contractor is NOT a Rhode Island State-certified MBE or WBE, you must fill out the MBE/WBE WAIVER REQUEST FORM for consideration by City of Providence MBE/WBE Outreach Director. Initial \_\_\_\_\_ Required

\_\_\_\_\_  
Signature of Bidder

\_\_\_\_\_  
Printed Name





**BOARD OF CONTRACT AND SUPPLY**  
CITY OF PROVIDENCE, RHODE ISLAND

# **BID PACKAGE SPECIFICATIONS**



**BOARD OF CONTRACT AND SUPPLY  
CITY OF PROVIDENCE, RHODE ISLAND**

## **SUPPLEMENTAL INFORMATION**

If the issuing department for this RFP determines that your firm's bid is best suited to accommodate their need, you will be asked to provide proof of the following prior to formalizing an award.

An inability to provide the outlined items at the request of the department may lead to the disqualification of your bid.

*This information is **NOT** requested to be provided in your initial bid that you will submit to the City Clerk's office by the "date to be opened" noted on page 1. This list only serves as a list of items that your firm should be ready to provide on request.*

**All bids submitted to the City Clerk become public record. Failure to follow instructions could result in information considered private being posted to the city's Open Meetings Portal and made available as a public record.**

**You must be able to provide:**

- Business Tax ID will be requested after an award is approved by the Board of Contract and Supply.
- PROOF OF INSURANCE



**BOARD OF CONTRACT AND SUPPLY  
CITY OF PROVIDENCE, RHODE ISLAND**

**CITY OF PROVIDENCE STANDARD TERMS & CONDITIONS**

1. The terms “you” and “your” contained herein refer to the person or entity that is a party to the agreement with the City of Providence (“the City”) and to such person’s or entity’s employees, officers, and agents.
2. The Request For Proposals (“RFP”) and these Standard Terms and Conditions together constitute the entire agreement of the parties (“the Agreement”) with regard to any and all matters. By your submission of a bid proposal or response to the City’s RFP, you accept these Standard Terms & Conditions and agree that they supersede any conflicting provisions provided by bid or in any terms and conditions contained or linked within a bid and/or response. Changes in the terms and conditions of the Agreement, or the scope of work thereunder, may only be made by a writing signed by the parties.
3. You are an independent contractor and in no way does this Agreement render you an employee or agent of the City or entitle you to fringe benefits, workers’ compensation, pension obligations, retirement or any other employment benefits. The City shall not deduct federal or state income taxes, social security or Medicare withholdings, or any other taxes required to be deducted by an employer, and this is your responsibility to yourself and your employees and agents.
4. You shall not assign your rights and obligations under this Agreement without the prior written consent of the City. Any assignment without prior written consent of the City shall be voidable at the election of the City. The City retains the right to refuse any and all assignments in the City’s sole and absolute discretion.
5. Invoices submitted to the City shall be payable sixty (60) days from the time of receipt by the City. Invoices shall include support documentation necessary to evidence completion of the work being invoiced. The City may request any other reasonable documentation in support of an invoice. The time for payment shall not commence, and invoices shall not be processed for payment, until you provide reasonably sufficient support documentation. In no circumstances shall the City be obligated to pay or shall you be entitled to receive interest on any overdue invoice or payment. In no circumstances shall the City be obligated to pay any costs associated with your collection of an outstanding invoice.
6. For contracts involving construction, alteration, and/or repair work, the provisions of applicable state labor law concerning payment of prevailing wage rates (R.I. Gen. Laws §§ 37-13-1 et seq., as amended) and the City’s First Source Ordinance (Providence Code of Ordinances §§ 21-91 et seq., as amended) apply.
7. With regard to any issues, claims, or controversies that may arise under this Agreement, the City shall not be required to submit to dispute resolution or mandatory/binding arbitration. Nothing prevents the parties from mutually agreeing to settle any disputes using mediation or non-binding arbitration.
8. To the fullest extent permitted by law, you shall indemnify, defend, and hold harmless the City, its employees, officers, agents, and assigns from and against any and all claims, damages, losses, allegations, demands, actions, causes of action, suits, obligations, fines, penalties, judgments, liabilities, costs and expenses, including but not limited to attorneys’ fees, of any nature whatsoever arising out of, in connection with, or resulting from the performance of the work provided in the Agreement.
9. You shall maintain throughout the term of this Agreement the insurance coverage that is required by the RFP or, if none is required in the RFP, insurance coverage that is considered in your industry to be commercially reasonable, and you agree to name the City as an additional insured on your general liability policy and on any umbrella policy you carry.
10. The City shall not subject itself to any contractual limitations on liability. The City shall have the time permitted within the applicable statute of limitations, and no less, to bring or assert any and all causes of action, suits, claims or demands the City may have arising out of, in connection with, or resulting from the performance of the work provided in the Agreement, and in no event does the City agree to limit your liability to the price of the Agreement or any other monetary limit.
11. The City may terminate this Agreement upon five (5) days’ written notice to you if you fail to observe any of the terms and conditions of this Agreement, or if the City believes your ability to perform the





**BOARD OF CONTRACT AND SUPPLY  
CITY OF PROVIDENCE, RHODE ISLAND**

- terms and conditions of this Agreement has been materially impaired in any way, including but in no way limited to loss of insurance coverage, lapsing of a surety bond, if required, declaration of bankruptcy, or appointment of a receiver. In the event of termination by the City, you shall be entitled to just and equitable compensation for any satisfactory work completed and expenses incurred up to the date of termination.
12. Written notice hereunder shall be deemed to have been duly served if delivered in person to the individual or member of the firm or entity or to an officer of the entity for whom it was intended, or if delivered at or sent by registered or certified mail to the last business address known by the party providing notice.
13. In no event shall the Agreement automatically renew or be extended without a writing signed by the parties.
14. You agree that products produced or resulting from the performance of the Agreement are the sole property of the City and may not be used by you without the express written permission of the City.
15. For any Agreement involving the sharing or exchange of data involving potentially confidential and/or personal information, you shall comply with any and all state and/or federal laws or regulations applicable to confidential and/or personal information you receive from the City, including but not limited to the Rhode Island Identity Theft Protection Act, R.I. Gen. Laws § 11-49.3-1, during the term of the Agreement. You shall implement and maintain appropriate physical, technical, and administrative security measures for the protection of, and to prevent access to, use, or disclosure of, confidential and/or personal information. In the event of a breach of such information, you shall notify the City of such breach immediately, but in no event later than twenty-four (24) hours after discovery of such breach.
16. The Agreement is governed by the laws of the State of Rhode Island. You expressly submit yourself to and agree that any and all actions arising out of, in connection with, or resulting from the performance of the Agreement or relationship between the parties shall occur solely in the venue and jurisdiction of the State of Rhode Island or the federal court located in Rhode Island.
17. The failure of the City to require performance of any provision shall not affect the City's right to require performance at any time thereafter, nor shall a waiver of any breach or default of this Agreement constitute a waiver of any subsequent breach or default or a waiver of the provision itself.
18. If any term or provision of this Agreement, or the application thereof to any person or circumstance shall, in any extent, be invalid or unenforceable, the remainder of this Agreement shall not be affected thereby, and each term and provision shall be valid and enforceable to the fullest extent permitted by law.

## Certificate of Insurance

1. The Original Certificate of Insurance must be mailed to:

**Providence Water**

125 Dupont Drive  
 Providence, RI 02907  
 Attention: Elizabeth Paquin

2. Certificate must be completely filled out listing all Insurance Companies, Coverage's. and Limits. Providence Water (PW) require the following Certificate must be completely filled out listing all Insurance Companies, Coverage's. and Limits. Providence Water (PW) require the following insurances requirements.

Required	Coverage
x	<b>Worker's Compensation and Occupational Insurance:</b> In statutory amounts, Covering all employees of the contractor. Employer's liability coverage with limits of not less than \$500,000.00/ each accident or illness shall be included.
x	<b>Commercial General Liability Insurance:</b> Commercial Liability Insurance with limits of not less than \$1,000,000.000 per occurrence, for bodily injury and/or property damage liability \$2,000,000.000 in the aggregate. Products/completed operation, independent contractors, and contractual liability coverages are to be included. No exclusions for rigging, hoisting, explosions, collapse and/or underground. Completed operations coverage must remain in effect for a period of not less than 2 years after the completion of all work. "The City of Providence, Providence Water, its officers and agents are to name as an additional insured."
x	<b>Automobile Liability Insurance:</b> When any motor vehicles are used in connection with the work to be performed the Contractor shall maintain Automobile Liability Insurance with limits of not less \$1,000,000.00 per occurrence, combined single limit, for bodily injury and property damage. "The City of Providence, Providence Water are to be named as additionally insured."
	<b>Builder's Risk Policy:</b> When a free standing unit is to be constructed or any addition to our facilities made in connection with the work specified, the Contractor must provide Builder's Risk Insurance or an Installation Floater covering all risks with limits equal to the award of the contract.
	<b>Professional Liability Insurance:</b> When any architects, engineers, or consulting firms perform work in connection with any contract, the contractor shall maintain Professional Liability Insurance with limits not less than \$2,000,000.00 per occurrence and aggregate.

3. The insured name must be the same name as the name on the bid submitted.
4. Insurance Certificates should state the Title of Project to be performed.

5. Certificate must read “The City of Providence, Providence Water, its Officers and Agents are named as additional insured.”
6. Certificate Holder provision of the certificate must list “The City of Providence and Providence Water.”
7. Cancellation and/or reduction in coverage must provide 30 days' notice.
8. The successful bidder must produce a satisfactory Certificate of Insurance within 10 days after award. No work will begin or contract signed unless all these requirements are met. Failure to do so may result in the cancellation of the award and award to another bidder.
9. The insurances specified shall be carried until all work required to be performed under the terms of the CONTRACTOR's services are satisfactorily completed and for a period of at least two years after the date when final payment becomes due. Failure to carry or keep such insurance in force shall constitute a violation of the contract, and the Providence Water \ maintains the right to stop work and/or withhold payment until proper evidence is provided.
10. The insurance shall provide for 30 days' prior written notice to be given to the Providence Water in the event coverage is substantially changed, canceled, or not renewed.
11. In no case shall the coverage limits stated for Commercial General Liability, Automobile Liability, or Professional Liability insurance stated above be less than the total contract amount. If the total contract amount exceeds any stated limit, the limit shall be adjusted to the satisfaction of the OWNER to the next highest \$1,000,000.00 exceeding the total contract amount.
12. Providence Water maintains the right to modify, delete, alter or change these requirements.
13. The successful bidder understands and agrees that any insurance protection furnished by the CONTRACTOR hereunder shall in no way limit its responsibility to indemnify and save harmless Providence Water.
14. For additional Information contact Elizabeth Paquin at (401)521-6300 ext. 7227

(SAMPLE ATTACHED)



# CERTIFICATE OF LIABILITY INSURANCE

DATE(MM/DD/YYYY)  
03/11/2016

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

**IMPORTANT:** If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must have **ADDITIONAL INSURED** provisions or be endorsed. If **SUBROGATION IS WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER A	CONTACT NAME:	
	PHONE (A/C. No. Ext): ( )	FAX (A/C. No.):
E-MAIL ADDRESS:		
INSURER(S) AFFORDING COVERAGE		NAIC #
INSURED	INSURER A:	
	INSURER B: N	
	INSURER C:	
	INSURER D:	
	INSURER E:	
	INSURER F:	

Holder Identifier :

COVERAGES      CERTIFICATE NUMBER: 570061419077      REVISION NUMBER:

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS. **Limits shown are as requested**

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR  GENL AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input checked="" type="checkbox"/> LOC OTHER:			GL			EACH OCCURRENCE \$1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$10,000 PERSONAL & ADV INJURY \$1,000,000 GENERAL AGGREGATE \$2,000,000 PRODUCTS - COMP/OP AGG \$2,000,000
A	AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO OWNED AUTOS ONLY <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS NON-OWNED AUTOS ONLY			B			COMBINED SINGLE LIMIT (Ea accident) \$1,000,000 BODILY INJURY (Per person) BODILY INJURY (Per accident) PROPERTY DAMAGE (Per accident)
B	<input type="checkbox"/> UMBRELLA LIAB <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input type="checkbox"/> RETENTION						EACH OCCURRENCE \$25,000,000 AGGREGATE \$25,000,000
A	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR / PARTNER / EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below			N/A			<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTHER E.L. EACH ACCIDENT \$1,000,000 E.L. DISEASE-EA EMPLOYEE \$1,000,000 E.L. DISEASE-POLICY LIMIT \$1,000,000

Certificate No : 570061419077

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)  
 RE:

## CERTIFICATE HOLDER

## CANCELLATION

Providence Water 125 Dupont Drive Providence, RI 02907	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION ATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.  AUTHORIZED REPRESENTATIVE
--	--



## Important Information to all Bidders

### For

#### VARIOUS WATER PIPE APPURTENANCES WITH A 1 YEAR OPTION

1. This is a Blanket Contract from July 1, 2023 through June 30, 2024. **ALL PRICES QUOTED FROM THE AWARDED VENDOR MUST REMAIN FIRM FROM THIS TIME PERIOD.**
2. All quoted prices to include any and all cost including freight for deliveries to Providence Water Supply Board.
3. Deliveries will only be accepted Monday through Friday (Excluding Holidays) between the hours of 7:30 am through 3:00 pm. It is the responsibility of the vendor to accept proper signature for all deliveries. **In stock item deliveries may be required on a “next day” basis.**
4. Providence Water will issue a primary award to one vendor by category and/or item and all other vendors will be issued secondary awards. If the primary awarded vendor is unable to fulfill the order in a reasonable time frame, Providence Water reserves the right to obtain competitive bidding from the secondary vendors and purchase those items based on price and/or availability.
5. Pricing for any items not listed on the bidders blank will be obtained by competitive bidding of vendors participating in this RFP. Those items will be awarded based on price and/or availability.
6. Deliveries will be made upon the request of the proper Providence Water Supply Board officials. **PROVIDENCE WATER RESERVES THE RIGHT TO REQUIRE PARTIAL ORDERS AND SHIPMENTS AS DEEMED NECESSARY.**
7. A packing slip must accompany all material listing all part numbers, descriptions, the Providence Water Requisition Number and City Purchase Order Number.
8. The general and specific characteristics of the attached specifications shall not be interpreted as to exclude any manufacturer or product that would reasonably be considered as a comparable product. **ANY COMPARABLE PRODUCT MUST BE APPROVED BY PROVIDENCE WATER OFFICIALS.**
9. The award of this contract in no way obligates the City to buy the estimated quantities or spend the corresponding estimated dollars.
10. Providence Water reserves the right to cancel this contract at any time with 30 days written notice.
11. Providence Water reserves to right to purchase any quantity of any item listed.
12. **Providence Water reserves the right to extend the contract period beyond the one year with escalation. Escalation rates shall be negotiated between parties at the end of the contract period**

# ATTACHMENT 1

## LIST OF APPROVED MATERIALS / MANUFACTURERS FOR USE IN THE PROVIDENCE WATER DISTRIBUTION SYSTEM (As of **March 6, 2023**)

### DUCTILE IRON PIPE

MCWane Ductile.  
U.S. Pipe & Foundry Co.  
American Ductile Iron Pipe

**Note: All DI pipe must be zinc coated**

### DUCTILE IRON FITTINGS

Tyler/Union Foundry Co. – US made only  
US Pipe & Foundry Co. – US made only  
Star Pipe Products – US made only

### VALVES

American  
Clow Valve Co.  
Kennedy Valve  
M&H Valve Co.  
Mueller Co.  
U.S. Pipe & Foundry Co.  
AVK

### BUTTERFLY VALVES (16” and larger)

Mueller Co.  
Henry Pratt Co.

### VALVE AND SERVICE BOXES

Tyler Union / Biby – US made only  
Bingham & Taylor  
Mueller Co.

### PIPE COUPLINGS

ROMAC Industries, Inc.  
Smith-Blair, Inc.  
Baker  
Total Piping Solutions, Inc. (Hymax)

### SERVICE ADAPTER COUPLINGS, PLASTIC

The Harrington Corp (HARCO)

### FIRE HYDRANTS

**Kennedy Guardian Hydrant - K81D**, by Kennedy Valve (Must be “Hydra-Shield - Custodian” ready for installation in Providence only)

### MECHANICAL JOINT RESTRAINT FOR DUCTILE IRON PIPE AND FITTINGS

EBA Iron Sales, Inc. - MEGALUG MJ Retainer Gland  
Series 1100 – MJ Gland  
Series 1100SDB – Mid Span Restraint  
Tyler Union - Series 1000 TUFGRIP MJ Retainer Gland  
– US made only  
Star National Products - “Star Tie-Anchor III **AC**  
Joint Restraint”

### JOINT RESTRAINT FOR DUCTILE IRON PIPE- GASKETED

U.S. Pipe & Foundry Co. - Field Lok 350 Gasket  
McWane – Sure Stop 350 Gasket  
American – Fast-Grip Gasket

### SERVICE BRASS – Must Meet Lead Free Standard

A.Y. McDonald Manufacturing Co.  
Cambridge Brass  
Mueller Co.  
Red Hed Manufacturing  
The Ford Meter Box Co.

*contacting Providence Water to verify their selection of materials prior to starting any construction.*

#### **COPPER TUBING**

Copper tubing shall meet the requirements of Federal Specification WW-T 7996 and shall conform to ASTM specifications B-75, B-88 and B-68 as they apply to Type K Copper Tubing.

**\*All successful bidders within this RFP will have the opportunity to bid on various sizes copper on an as needed basis.**

#### **DUCTILE IRON PIPE**

The zinc coated ductile iron pipe shall be from manufacturers on the latest revision of the "The List of Approved Materials / Manufacturers for use in the Providence Water Distribution System, or approved substitutes, shall be manufactured in accordance with the standard specifications of the AWWA Designation C-151 (ANSI Designation A-21.51) newest edition, and amendments thereto without exception. Ductile iron pipe shall be Class 52.

Cement mortar lining, seal coating, and admixtures shall be in accordance with AWWA C-104 (ANSI A-21.4) and compliant with ANSI/NSF-61 (standards for material in contact with potable water), newest editions and as amended to date.

Zinc Coating - The exterior of ductile iron pipe shall be coated with a layer of arc-sprayed zinc per ISO 8179. The external protective coating system shall be factory applied to ductile iron pipeline components as specified in ISO 2531. A finishing layer topcoat shall be applied to the zinc. The coating system shall conform in every respect to ISO 8179-1 "Ductile iron pipes – External zinc-based coating – Part 1: Metallic zinc with finishing layer. Third edition 2017-07."

#### **DUCTILE IRON FITTINGS**

The ductile iron fittings shall be **zinc** coated, Rubber Seat Mechanical Joints. The fittings shall be standard length or short body castings conforming to AWWA Standard Ductile Iron Fittings specifications designation C-153 or ANSI Standard for Ductile Iron Fittings specifications designation A21.53, newest edition and as amended to date. Fittings shall be Class 350 and 250.

#### **RESILIENT SEATED GATE VALVES**

Valves up to 12 inches in diameter shall be resilient seated gate valves, to be furnished and installed by the Contractor under these specifications, shall conform to the latest edition of the AWWA specification designation C-509.

Valves shall be equipped with all accessories including, but not limited to, retainer glands, bolts and gaskets.

Valves shall be designed for 200 pounds per square inch working water pressure and tested to 400 pounds per square inch hydrostatic shell tests.

End connections shall be mechanical joints. Ends shall have a clear waterway equal to the full nominal diameter of the valve. The waterway shall be smooth and have no depressions or cavities in the seating area where foreign material can lodge or collect.

Gate valves shall open right and an arrow shall be cast in a standard two-inch square operating nut. The operating nut shall be painted red. The operating stem and nut shall be configured in a way that a "valve box aligner" device can be installed prior to the installation of the valve box and backfilling.

A minimum of two (2) O-rings shall be fitted into the grooves that shall be located in the seal plate. The O-rings shall seat against a smooth bronze stem surface. The design of the seal plate shall be such that it can be fitted with new O-rings while the valve is under pressure and in the fully open position.

All seals between parts such as Seal Plate-to-Bonnet and Bonnet-to-Body shall be Buna N O-rings.

The stem shall be bronze with an integral thrust flange. Located above and below the thrust flange shall be an O-ring and anti-friction device to reduce operating torque.

The torque required to open a fully closed valve under 100 psi pressure on one side shall not exceed 100 ft-lbs and the torque required to fully close a valve under the flow conditions of 10 fps shall not exceed 100 ft-lbs. Valves must be able to withstand an input torque of 300 ft-lbs with no distortion of the stem or other damage to the valve.

The waterway inside the body of the valve shall be free of pockets, channels, cavities, depressions or obstructions in the seat area.

The gate shall have a vulcanized synthetic rubber coating that utilizes a rubber seating edge at the bottom which will eliminate the possibility of entrapment of foreign material.

The valve shall be designed so no metal fasteners or screw other than the stem and stem nut are exposed to water. Bonnet bolts, seal plate bolts, stuffing box bolts and other bolts in contact with soil shall be manufactured of stainless steel.

All interior and exterior ferrous parts, including the interior of the gate shall be coated with a fusion-bonded epoxy coating with a minimum thickness of 8 mils. Said coating shall be nontoxic, impart no taste to water and shall conform to NSF 61 and AWWA C-550 or the latest revision.

The resilient seated gate valves, to be furnished and installed by the Contractor under these specifications, shall be from manufacturers on the latest revision of the "List of Approved Materials / Manufacturers for use in the Providence Water Distribution System", or approved substitutes.

### **RESILIENT SEATED TAPPING VALVES**

The resilient seated tapping valve shall conform to the latest edition of the AWWA specification designation C-509. Where otherwise noted, all tapping valves shall conform to Section 5.4 Resilient Seated Gate Valves.

Valves shall be equipped with all accessories including, but not limited to, glands, bolts and gaskets.

Valves shall be designed for 200 pounds per square inch working water pressure and tested to 400 pounds per square inch hydrostatic shell tests.



End connections shall be mechanical joint on one end and be flanged on other with ANSI 150 lb drilling. Ends shall have a clear waterway equal to the full nominal diameter of the valve to accommodate full size cutters. The mating valve flange to the tapping sleeve outlet must have a raised male face to insure true alignment of valve and tapping machine. The waterway shall be smooth and have no depressions or cavities in the seating area where foreign material can lodge or collect.

Tapping valves shall open right and an arrow shall be cast in a red painted standard two-inch square operating nut.

The design of the valve shall be such that the seal plate can be fitted with new O-rings while the valve is under pressure and in the fully open position.

All seals between parts such as Seal Plate-to-Bonnet and Bonnet-to-Body shall be Buna N. O-rings.

The stem shall be bronze with an integral thrust flange. Located above and below the thrust flange shall be an O-ring and anti-friction device to reduce operating torque.

The gate shall have a vulcanized synthetic rubber coating that utilizes a rubber seating edge at the bottom which will eliminate the possibility of entrapment of foreign material.

The valve shall be designed so no metal fasteners or screws, other than the stem and stem nut, is exposed to water. All interior and exterior ferrous parts, including the interior of the gate or wedge shall be coated with a fusion-bonded epoxy coating with a minimum thickness of 8 mils or use stainless steel fasteners. Said coating shall be nontoxic, impart no taste to water and shall conform to AWWA C-550 and NSF 61 or the latest revision.

The resilient seated tapping valves shall be from manufacturers on the latest revision of the (List of Approved Materials / Manufacturers for use in the Providence Water Distribution System), or approved substitutes.

#### **TAPPING SLEEVES**

Tapping sleeves shall be two piece, epoxy-coated, fabricated steel or full circle stainless steel rated for at least 150 psi working pressure. Stainless steel tapping sleeves shall be utilized for all applications. Epoxy coated fabricated steel tapping sleeves shall only be utilized where there is no stainless steel alternative, such as, tapping large diameter pipe.

Stainless steel tapping sleeves, to be furnished and installed by the Contractor under these specifications, shall be manufactured by the Smith Blair Co. – Model 664, JCM – Model 432 or approved equal. All tapping sleeves shall meet or exceed the ANSI/AWWA C-223 Standards.

Tapping sleeves shall be supplied with test plugs and flanged outlets. The test plug shall be 3/4" NPT with standard square head.

The flange shall be 18-8 Type 304 Stainless Steel or epoxy coated steel with recess to accept standard tapping valves.

Bolts shall be self-aligning, 18-8 Stainless Steel. Bolts are to be fluorocarbon coated.

The tapping sleeves, to be furnished and installed by the Contractor under these specifications, shall be from manufacturers on the latest revision of the (List of Approved Materials / Manufacturers for use in the Providence Water Distribution System), or approved substitutes

### **BUTTERFLY VALVES**

Valves sixteen (16) inches and larger shall be butterfly-type and suitable for direct burial. The butterfly valves shall conform to the latest edition of the AWWA standard specification designation C-504 for Class 150B and shall exceed the standard where specified with special attention to section 5.2.2.1 of the standard relating to the pressure testing and acceptance of the valves. The manufacturer must furnish a certified statement that proof-of-design tests were carried out and all requirements were met per Section 5.2.4.1 of the standard. Additional site testing, at the direction of the Providence Water, may be required for valves on critical transmission mains. This product shall be certified as suitable for contact with drinking water by an accredited certification organization in accordance with ANSI/NSF Standard 61, Drinking Water System Components – Health Effects. In areas within the system where working pressure is 100 psi or higher, Class 250 butterfly valves are required.

Valve Bodies shall be constructed of cast iron ASTM A126 Class B or ASTM A48 Class 40 and conform to AWWA C504 in terms of laying lengths and minimum body shell thickness. Body ends shall have mechanical joints (MJ), complete with all accessories, in accordance with the latest revision of AWWA C111. MJ bolts shall be U.S. "Cor-Ten" steel, or approved equal.

The Valve Interior and Exterior Surfaces except for seating shall be coated in accordance with AWWA C550 and C504. All internal and/or external surfaces shall be covered with a polyamide cured epoxy coating applied per SSPC-SP10 with a coat thickness compliant with AWWA C550. Said coating shall be nontoxic and impart no taste to water.

Valve Discs shall be made from cast iron ASTM A-126 Class B in sizes 20" and smaller. Sizes 24" and larger shall be built from ductile iron in conformance to ASTM A-536. Disc shall be furnished with Type 304 or 316 stainless steel seating edge to mate with the rubber seat on the body. Discs shall be capable of maintaining a bubble-tight seal at 150 psi, in either direction.

Valve Actuators shall be fully grease packed and have stops in the open/close position. The actuator shall have a mechanical stop which will withstand an input torque of 450 ft. lbs. against the stop. The traveling nut shall engage alignment grooves in the housing. The actuators shall have a built-in packing leak bypass to eliminate possible packing leakage into the actuator housing.

Valve Shafts shall be Type 304 stainless steel conforming to ASTM A-276. Shaft seals shall be standard self-adjusting split V packing. Shaft seals shall be of a design allowing replacement without removing the valve shaft. Valve Bearings shall be sleeve type that are corrosion resistant and self-lubricating.

The actuator stem shall have at least one (1) O-ring. It shall function as a dirt seal and prevent ground water from entering the actuator housing. A thrust washer of Teflon, or approved equal, shall be used directly above and below the actuator stem collar.

The operating nut shall be 2 inches in size, painted red, and shall open right (clockwise). The operating stem and nut shall be configured in a way that a "valve box aligner" device can be installed prior to the installation of the valve box and backfilling.

Valve Seat shall be Buna-N rubber (or approved equal designated for potable water applications) located on the valve body. Reclaimed rubber is not acceptable. The mating seat surface shall be Type 304 or 316 stainless steel. In sizes 20" and smaller, valves shall have bonded seats that meet test procedures outlined in ASTM D-429 Method B. Sizes 24" and larger shall be retained in the valve body by mechanical means without use of metal retainers or other devices located in the flow stream.

The butterfly valves shall be from manufacturers on the latest revision of the List of Approved Materials / Manufacturers for use in the Providence Water Distribution System, or approved substitutes.

#### **STRAIGHT AND TRANSITION PIPE COUPLINGS**

The center and end rings of couplings shall be modular ductile iron or epoxy coated steel, meeting or exceeding ASTM A536 and ASTM A576. The coupling shall accommodate the entire O.D. range in the specified size, and shall meet or exceed AWWA Standard Specification AWWA C219-01.

The coupling gasket shall be made of virgin rubber or a EDPM compound for water use. The gasket shall have raised lettering and sizing and state the proper color code for the appropriate end ring or be designed with a multi-layered wide range removable outer layer.

The coupling shall have ANSI 304 grade stainless steel bolts with heavy hex nuts which conform to the latest edition of the AWWA specification designation C-111.

The couplings, to be furnished and installed by the Contractor under these specifications, shall be from manufacturers on the latest revision of the List of Approved Materials / Manufacturers for use in the Providence Water Distribution System, or approved substitutes.

#### **WATER SERVICE LINES**

All water service piping and goosenecks, 2-inch diameter and smaller, shall be ASTM B88-03, Type K, soft-temper copper water service tubing. The name and trademark of the manufacturer shall be stamped along the pipe.

Tubing for water services over 100 ft. long shall be polyethylene CTS water service tubing (PE 3408) with a 200-psi pressure rating in accordance with AWWA Standard Specification C-901.

#### **COUPLINGS**

The couplings to join existing lead or copper services to new copper services shall be from manufacturers on the latest revision of the "List of Approved Materials/Manufacturers for use in the Providence Water Distribution System", or approved substitutes. The couplings shall be the "lead-free" brass compression style couplings for use with service piping (tubing), or the polypropylene compression couplings as specified herein.

Brass compression couplings shall be manufactured in accordance with AWWA Standard C800 and shall be "Lead-Free" as defined for lead-free brass alloys in accordance with the ANSI/NSF-60 and ANSI/NSF-61 standards for components in contact with potable water. These products shall have the letters "NL" or "LF" cast into the main body of coupling for proper identification.

Polypropylene compression style connection fittings, which serve as couplings or adapter couplings for service piping connections, shall be manufactured in accordance with the pressure requirements of AWWA Standard Specification C800, and shall be suitable for use with copper, lead, polyethylene and steel service piping.

Polypropylene couplings shall also comply with the ANSI/NSF-61 standards for components in contact with potable water. Couplings for use with lead services shall accommodate lead service sizes ranging from 5/8-inch to 1-1/4-inch. The specified polypropylene compression fittings (or couplings) shall be the Philmac UTC design style, as manufactured by the Harrington Corporation (Harco), Lynchburg, VA.

#### **CORPORATION STOPS AND SERVICE SADDLES**

The corporation stops shall be from manufacturers on the latest revision of the "List of Approved Materials / Manufacturers for PWSB Distribution System", or approved substitutes.

Corporation stops shall be manufactured in accordance with AWWA Standard C800 and shall be "Lead-Free" as defined for lead-free brass alloys in accordance with the ANSI/NSF- 60 and ANSI/NSF-61 standards for components in contact with potable water. These products shall have the letters "NL" or "LF" cast into the main body of corporation stop for proper identification.

The inlet thread of all corporation stops shall be AWWA Standard CC inlet thread for their respective sizes. The outlet of all corporation stops shall be provided with compression couplings for type "K" copper service pipe for their respective sizes.

Service saddles, which are to be furnished and installed by the Contractor under these specifications, shall be constructed of Epoxy Coated Ductile Iron with a body curvature designed to fit pipes accurately with a broad pressure activated gasket to provide uniform sealing pressure. Service saddles shall have double straps.

The saddle clamp must be furnished with a tapped outlet with full length threads that meet AWWA Standards for corporation stops, and shall be from manufacturers on the latest revision of the "List of Approved Materials / Manufacturers for use in the Providence Water Distribution System", or approved substitutes.

The saddle's double straps, bolts, nuts and washers shall be 18-8 stainless steel with all welds passivated for resistance to corrosion. The combined strap width shall be 3-1/4" wide to provide a wide stance on the pipe.

A neoprene or virgin rubber gasket must be bonded into a cavity in the saddle body to provide a pressure tight seal on a water main.

New corporation stops shall be installed in the same location as the existing. The existing corporation stop shall be removed from the main using the tapping machine with the extraction tool and the new stop shall be installed after drilling for the larger corporation.

#### **CURB STOPS**

The curb stops shall be from manufacturers on the latest revision of the "List of Approved Materials / Manufacturers for use in the Providence Water Distribution System", or approved substitutes.

Curb stops shall be manufactured in accordance with AWWA Standard C800 and shall be "Lead-Free" as defined for lead-free brass alloys in accordance with the ANSI/NSF-60 and ANSI/NSF-61 standards for components in contact with potable water. These products shall have the letters "NL" or "LF" cast into the main body of curb stop for proper identification.

Curb stops shall be ball valve type with combined cap and tee and shall be provided with a positive stop at fully open and fully closed.

The inlet and outlet ends of the curb stops shall be provided with compression couplings for Type "K" copper service pipe for their respective sizes.

The curb stops to be furnished under these specifications shall "OPEN TO THE RIGHT - CLOCKWISE."

#### **CURB SERVICE BOXES**

The extension service boxes shall be from manufacturers on the latest revision of the "List of Approved Materials / Manufacturers for use in the Providence Water Distribution System", or approved substitutes.

Curb boxes for  $\frac{3}{4}$ " and 1" services shall be Erie style type boxes with an arch or bell bottom, and shall be so constructed as to permit the total length of the box to be adjusted from not less than 4  $\frac{1}{2}$  feet to 5  $\frac{1}{2}$  feet.

The upper section of the box shall not be less than one (1) inch in diameter and provided with a suitable and removable cover. The covers for all curb boxes shall be screwed to top section, have a bronze pentagon plug, and have the word "Water" cast into them.

The boxes shall be constructed so as to prevent the separation of the upper section from the lower section and to prevent the upper section from turning when removing the lid.

The boxes shall be furnished with stationary rods extending up into the upper section to allow the use of a short wrench. The rod shall be of steel not less than  $\frac{5}{8}$  of an inch in diameter, the upper end of which shall be shaped to receive a curb stop operating wrench. The lower end of the rod shall be provided with a malleable iron fork to fit standard curb stop operating keys. A suitable pin shall be furnished to attach the rod to the key.

The boxes shall be coated both inside and outside with the manufacturer's standard paint or enamel.

The service box covers are to be furnished with a plug cover.

#### **VALVE / GATE BOXES**

The valve / gate boxes shall be from manufacturers on the latest revision of the "List of Approved Materials / Manufacturers for use in the Providence Water Distribution System", or approved substitutes.

The valve / gate boxes shall be cast iron and furnished complete with covers. The cover shall be marked "Water."

#### **BLOWOFF ASSEMBLY**

2" Blow off assemblies shall be as manufactured by Gil Industries. The blow off assembly is a 2" Slimline Flushing Hydrant by Gil Industry.

### **RESILIENT SEATED GATE VALVES**

Valves up to 12 inches in diameter shall be resilient seated gate valves, to be furnished and installed by the Contractor under these specifications, shall conform to the latest edition of the AWWA specification designation C-509.

Valves shall be equipped with all accessories including, but not limited to, retainer glands, bolts and gaskets.

Valves shall be designed for 200 pounds per square inch working water pressure and tested to 400 pounds per square inch hydrostatic shell tests.

End connections shall be mechanical joints. Ends shall have a clear waterway equal to the full nominal diameter of the valve. The waterway shall be smooth and have no depressions or cavities in the seating area where foreign material can lodge or collect.

Gate valves shall open right and an arrow shall be cast in a standard two-inch square operating nut. The operating nut shall be painted red. The operating stem and nut shall be configured in a way that a "valve box aligner" device can be installed prior to the installation of the valve box and backfilling.

A minimum of two (2) O-rings shall be fitted into the grooves that shall be located in the seal plate. The O-rings shall seat against a smooth bronze stem surface. The design of the seal plate shall be such that it can be fitted with new O-rings while the valve is under pressure and in the fully open position.

All seals between parts such as Seal Plate-to-Bonnet and Bonnet-to-Body shall be Buna N O-rings.

The stem shall be bronze with an integral thrust flange. Located above and below the thrust flange shall be an O-ring and anti-friction device to reduce operating torque.

The torque required to open a fully closed valve under 100 psi pressure on one side shall not exceed 100 ft-lbs and the torque required to fully close a valve under the flow conditions of 10 fps shall not exceed 100 ft-lbs. Valves must be able to withstand an input torque of 300 ft-lbs with no distortion of the stem or other damage to the valve.

The waterway inside the body of the valve shall be free of pockets, channels, cavities, depressions or obstructions in the seat area.

The gate shall have a vulcanized synthetic rubber coating that utilizes a rubber seating edge at the bottom which will eliminate the possibility of entrapment of foreign material.

The valve shall be designed so no metal fasteners or screw other than the stem and stem nut are exposed to water. Bonnet bolts, seal plate bolts, stuffing box bolts and other bolts in contact with soil shall be manufactured of stainless steel.

All interior and exterior ferrous parts, including the interior of the gate shall be coated with a fusion-bonded epoxy coating with a minimum thickness of 8 mils. Said coating shall be nontoxic, impart no taste to water and shall conform to NSF 61 and AWWA C-550 or the latest revision.

The resilient seated gate valves, to be furnished and installed by the Contractor under these specifications, shall be from manufacturers on the latest revision of the "List of Approved Materials / Manufacturers for use in the Providence Water Distribution System", or approved substitutes.

#### **RESILIENT SEATED TAPPING VALVES**

The resilient seated tapping valve shall conform to the latest edition of the AWWA specification designation C-509. Where otherwise noted, all tapping valves shall conform to Section 5.4 Resilient Seated Gate Valves.

Valves shall be equipped with all accessories including, but not limited to, glands, bolts and gaskets.

Valves shall be designed for 200 pounds per square inch working water pressure and tested to 400 pounds per square inch hydrostatic shell tests.

End connections shall be mechanical joint on one end and be flanged on other with ANSI 150 lb drilling. Ends shall have a clear waterway equal to the full nominal diameter of the valve to accommodate full size cutters. The mating valve flange to the tapping sleeve outlet must have a raised male face to insure true alignment of valve and tapping machine. The waterway shall be smooth and have no depressions or cavities in the seating area where foreign material can lodge or collect.

Tapping valves shall open right and an arrow shall be cast in a red painted standard two-inch square operating nut.

The design of the valve shall be such that the seal plate can be fitted with new O-rings while the valve is under pressure and in the fully open position.

All seals between parts such as Seal Plate-to-Bonnet and Bonnet-to-Body shall be Buna N. O-rings.

The stem shall be bronze with an integral thrust flange. Located above and below the thrust flange shall be an O-ring and anti-friction device to reduce operating torque.

The gate shall have a vulcanized synthetic rubber coating that utilizes a rubber seating edge at the bottom which will eliminate the possibility of entrapment of foreign material.

The valve shall be designed so no metal fasteners or screws, other than the stem and stem nut, is exposed to water. All interior and exterior ferrous parts, including the interior of the gate or wedge shall be coated with a fusion-bonded epoxy coating with a minimum thickness of 8 mils or use stainless steel fasteners. Said coating shall be nontoxic, impart no taste to water and shall conform to AWWA C-550 and NSF 61 or the latest revision.

The resilient seated tapping valves shall be from manufacturers on the latest revision of the (List of Approved Materials / Manufacturers for use in the Providence Water Distribution System), or approved substitutes.

#### **TAPPING SLEEVES**

Tapping sleeves shall be two piece, epoxy-coated, fabricated steel or full circle stainless steel rated for at least 150 psi working pressure. Stainless steel tapping sleeves shall be utilized for all applications. Epoxy coated

fabricated steel tapping sleeves shall only be utilized where there is no stainless steel alternative, such as, tapping large diameter pipe.

Stainless steel tapping sleeves, to be furnished and installed by the Contractor under these specifications, shall be manufactured by the Smith Blair Co. – Model 664, JCM – Model 432 or approved equal. All tapping sleeves shall meet or exceed the ANSI/AWWA C-223 Standards.

Tapping sleeves shall be supplied with test plugs and flanged outlets. The test plug shall be 3/4" NPT with standard square head.

The flange shall be 18-8 Type 304 Stainless Steel or epoxy coated steel with recess to accept standard tapping valves.

Bolts shall be self-aligning, 18-8 Stainless Steel. Bolts are to be fluorocarbon coated.

The tapping sleeves, to be furnished and installed by the Contractor under these specifications, shall be from manufacturers on the latest revision of the (List of Approved Materials / Manufacturers for use in the Providence Water Distribution System), or approved substitutes

#### **BUTTERFLY VALVES**

Valves sixteen (16) inches and larger shall be butterfly-type and suitable for direct burial. The butterfly valves shall conform to the latest edition of the AWWA standard specification designation C-504 for Class 150B and shall exceed the standard where specified with special attention to section 5.2.2.1 of the standard relating to the pressure testing and acceptance of the valves. The manufacturer must furnish a certified statement that proof-of-design tests were carried out and all requirements were met per Section 5.2.4.1 of the standard. Additional site testing, at the direction of the Providence Water, may be required for valves on critical transmission mains. This product shall be certified as suitable for contact with drinking water by an accredited certification organization in accordance with ANSI/NSF Standard 61, Drinking Water System Components – Health Effects. In areas within the system where working pressure is 100 psi or higher, Class 250 butterfly valves are required.

Valve Bodies shall be constructed of cast iron ASTM A126 Class B or ASTM A48 Class 40 and conform to AWWA C504 in terms of laying lengths and minimum body shell thickness. Body ends shall have mechanical joints (MJ), complete with all accessories, in accordance with the latest revision of AWWA C111. MJ bolts shall be U.S. "Cor-Ten" steel, or approved equal.

The Valve Interior and Exterior Surfaces except for seating shall be coated in accordance with AWWA C550 and C504. All internal and/or external surfaces shall be covered with a polyamide cured epoxy coating applied per SSPC-SP10 with a coat thickness compliant with AWWA C550. Said coating shall be nontoxic and impart no taste to water.

Valve Discs shall be made from cast iron ASTM A-126 Class B in sizes 20" and smaller. Sizes 24" and larger shall be built from ductile iron in conformance to ASTM A-536. Disc shall be furnished with Type 304 or 316 stainless steel seating edge to mate with the rubber seat on the body. Discs shall be capable of maintaining a bubble-tight seal at 150 psi, in either direction.



Valve Actuators shall be fully grease packed and have stops in the open/close position. The actuator shall have a mechanical stop which will withstand an input torque of 450 ft. lbs. against the stop. The traveling nut shall engage alignment grooves in the housing. The actuators shall have a built-in packing leak bypass to eliminate possible packing leakage into the actuator housing.

Valve Shafts shall be Type 304 stainless steel conforming to ASTM A-276. Shaft seals shall be standard self-adjusting split V packing. Shaft seals shall be of a design allowing replacement without removing the valve shaft. Valve Bearings shall be sleeve type that are corrosion resistant and self-lubricating.

The actuator stem shall have at least one (1) O-ring. It shall function as a dirt seal and prevent ground water from entering the actuator housing. A thrust washer of Teflon, or approved equal, shall be used directly above and below the actuator stem collar.

The operating nut shall be 2 inches in size, painted red, and shall open right (clockwise). The operating stem and nut shall be configured in a way that a "valve box aligner" device can be installed prior to the installation of the valve box and backfilling.

Valve Seat shall be Buna-N rubber (or approved equal designated for potable water applications) located on the valve body. Reclaimed rubber is not acceptable. The mating seat surface shall be Type 304 or 316 stainless steel. In sizes 20" and smaller, valves shall have bonded seats that meet test procedures outlined in ASTM D-429 Method B. Sizes 24" and larger shall be retained in the valve body by mechanical means without use of metal retainers or other devices located in the flow stream.

The butterfly valves shall be from manufacturers on the latest revision of the List of Approved Materials / Manufacturers for use in the Providence Water Distribution System, or approved substitutes.

### **STRAIGHT AND TRANSITION PIPE COUPLINGS**

The center and end rings of couplings shall be modular ductile iron or epoxy coated steel, meeting or exceeding ASTM A536 and ASTM A576. The coupling shall accommodate the entire O.D. range in the specified size, and shall meet or exceed AWWA Standard Specification AWWA C219-01.

The coupling gasket shall be made of virgin rubber or a EDPM compound for water use. The gasket shall have raised lettering and sizing and state the proper color code for the appropriate end ring or be designed with a multi-layered wide range removable outer layer.

The coupling shall have ANSI 304 grade stainless steel bolts with heavy hex nuts which conform to the latest edition of the AWWA specification designation C-111.

The couplings, to be furnished and installed by the Contractor under these specifications, shall be from manufacturers on the latest revision of the List of Approved Materials / Manufacturers for use in the Providence Water Distribution System, or approved substitutes.

### **WATER SERVICE LINES**

All water service piping and goosenecks, 2-inch diameter and smaller, shall be ASTM B88-03, Type K, soft-temper copper water service tubing. The name and trademark of the manufacturer shall be stamped along the pipe.

Tubing for water services over 100 ft. long shall be polyethylene CTS water service tubing (PE 3408) with a 200-psi pressure rating in accordance with AWWA Standard Specification C-901.

### **COUPLINGS**

The couplings to join existing lead or copper services to new copper services shall be from manufacturers on the latest revision of the "List of Approved Materials/Manufacturers for use in the Providence Water Distribution System", or approved substitutes. The couplings shall be the "lead-free" brass compression style couplings for use with service piping (tubing), or the polypropylene compression couplings as specified herein.

Brass compression couplings shall be manufactured in accordance with AWWA Standard C800 and shall be "Lead-Free" as defined for lead-free brass alloys in accordance with the ANSI/NSF-60 and ANSI/NSF-61 standards for components in contact with potable water. These products shall have the letters "NL" or "LF" cast into the main body of coupling for proper identification.

Polypropylene compression style connection fittings, which serve as couplings or adapter couplings for service piping connections, shall be manufactured in accordance with the pressure requirements of AWWA Standard Specification C800, and shall be suitable for use with copper, lead, polyethylene and steel service piping. Polypropylene couplings shall also comply with the ANSI/NSF-61 standards for components in contact with potable water. Couplings for use with lead services shall accommodate lead service sizes ranging from 5/8-inch to 1-1/4-inch. The specified polypropylene compression fittings (or couplings) shall be the Philmac UTC design style, as manufactured by the Harrington Corporation (Harco), Lynchburg, VA.

### **CORPORATION STOPS AND SERVICE SADDLES**

The corporation stops shall be from manufacturers on the latest revision of the "List of Approved Materials / Manufacturers for PWSB Distribution System", or approved substitutes.

Corporation stops shall be manufactured in accordance with AWWA Standard C800 and shall be "Lead-Free" as defined for lead-free brass alloys in accordance with the ANSI/NSF- 60 and ANSI/NSF-61 standards for components in contact with potable water. These products shall have the letters "NL" or "LF" cast into the main body of corporation stop for proper identification.

The inlet thread of all corporation stops shall be AWWA Standard CC inlet thread for their respective sizes. The outlet of all corporation stops shall be provided with compression couplings for type "K" copper service pipe for their respective sizes.

Service saddles, which are to be furnished and installed by the Contractor under these specifications, shall be constructed of Epoxy Coated Ductile Iron with a body curvature designed to fit pipes accurately with a broad pressure activated gasket to provide uniform sealing pressure. Service saddles shall have double straps.

The saddle clamp must be furnished with a tapped outlet with full length threads that meet AWWA Standards for corporation stops, and shall be from manufacturers on the latest revision of the "List of Approved Materials / Manufacturers for use in the Providence Water Distribution System", or approved substitutes.

The saddle's double straps, bolts, nuts and washers shall be 18-8 stainless steel with all welds passivated for resistance to corrosion. The combined strap width shall be 3-1/4" wide to provide a wide stance on the pipe.

A neoprene or virgin rubber gasket must be bonded into a cavity in the saddle body to provide a pressure tight seal on a water main.

New corporation stops shall be installed in the same location as the existing. The existing corporation stop shall be removed from the main using the tapping machine with the extraction tool and the new stop shall be installed after drilling for the larger corporation.

### **CURB STOPS**

The curb stops shall be from manufacturers on the latest revision of the "List of Approved Materials / Manufacturers for use in the Providence Water Distribution System", or approved substitutes.

Curb stops shall be manufactured in accordance with AWWA Standard C800 and shall be "Lead-Free" as defined for lead-free brass alloys in accordance with the ANSI/NSF-60 and ANSI/NSF-61 standards for components in contact with potable water. These products shall have the letters "NL" or "LF" cast into the main body of curb stop for proper identification.

Curb stops shall be ball valve type with combined cap and tee and shall be provided with a positive stop at fully open and fully closed.

The inlet and outlet ends of the curb stops shall be provided with compression couplings for Type "K" copper service pipe for their respective sizes.

The curb stops to be furnished under these specifications shall "OPEN TO THE RIGHT - CLOCKWISE."

### **CURB SERVICE BOXES**

The extension service boxes shall be from manufacturers on the latest revision of the "List of Approved Materials / Manufacturers for use in the Providence Water Distribution System", or approved substitutes.

Curb boxes for ¾ and 1" services shall be Erie style type boxes with an arch or bell bottom, and shall be so constructed as to permit the total length of the box to be adjusted from not less than 4 ½ feet to 5 ½ feet.

The upper section of the box shall not be less than one (1) inch in diameter and provided with a suitable and removable cover. The covers for all curb boxes shall be screwed to top section, have a bronze pentagon plug, and have the word "Water" cast into them.

The boxes shall be constructed so as to prevent the separation of the upper section from the lower section and to prevent the upper section from turning when removing the lid.

The boxes shall be furnished with stationary rods extending up into the upper section to allow the use of a short wrench. The rod shall be of steel not less than 5/8 of an inch in diameter, the upper end of which shall be shaped to receive a curb stop operating wrench. The lower end of the rod shall be provided with a malleable iron fork to fit standard curb stop operating keys. A suitable pin shall be furnished to attach the rod to the key.

The boxes shall be coated both inside and outside with the manufacturer's standard paint or enamel.

The service box covers are to be furnished with a plug cover.

#### **VALVE / GATE BOXES**

The valve / gate boxes shall be from manufacturers on the latest revision of the "List of Approved Materials / Manufacturers for use in the Providence Water Distribution System", or approved substitutes.

The valve / gate boxes shall be cast iron and furnished complete with covers. The cover shall be marked "Water."

#### **BLOWOFF ASSEMBLY**

2" Blow off assemblies shall be as manufactured by Gil Industries. The blow off assembly is a 2" Slimline Flushing Hydrant by Gil Industry.

# ATTACHMENT 1

## LIST OF APPROVED MATERIALS / MANUFACTURERS FOR USE IN THE PROVIDENCE WATER DISTRIBUTION SYSTEM (As of **January 1, 2019**)

### DUCTILE IRON PIPE

Atlantic States Cast Iron Pipe Co.  
American DI Pipe Co.  
U.S. Pipe & Foundry Co.

**Note: All DI pipe must be zinc coated**

### DUCTILE IRON FITTINGS

Tyler/Union Foundry Co. – US made only  
US Pipe & Foundry Co. – US made only  
Star Pipe Products – US made only

**Note: All fittings must be zinc coated**

### VALVES

American  
Clow Valve Co.  
Kennedy Valve  
M&H Valve Co.  
Mueller Co.  
U.S. Pipe & Foundry Co.  
AVK

### BUTTERFLY VALVES (16" and larger)

Mueller Co.  
Henry Pratt Co.

### VALVE AND SERVICE BOXES

Tyler Union / Biby – US made only  
Bingham & Taylor  
Mueller Co.

### PIPE COUPLINGS

ROMAC Industries, Inc.  
Smith-Blair, Inc.  
Baker  
Total Piping Solutions, Inc. (Hymax)

### SERVICE ADAPTER COUPLINGS, PLASTIC

The Harrington Corp (HARCO)

### FIRE HYDRANTS

**Kennedy Guardian Hydrant - K81D**, by Kennedy Valve (Must be "Hydra-Shield - Custodian" ready for installation in Providence only)

**Mueller Super Centurion - A423** (Must be "Hydra-Shield - Custodian" ready for installation in Providence only)

### MECHANICAL JOINT RESTRAINT FOR DUCTILE IRON PIPE AND FITTINGS

EBAA Iron Sales, Inc. - MEGALUG MJ Retainer Gland  
Series 1100 – MJ Gland  
Series 1100SDB – Mid Span Restraint  
Tyler Union - Series 1000 TUFGRIP MJ Retainer Gland  
– US made only  
Star National Products - "Star Tie-Anchor III **AC**  
Joint Restrainer"

### JOINT RESTRAINT FOR DUCTILE IRON PIPE- GASKETED

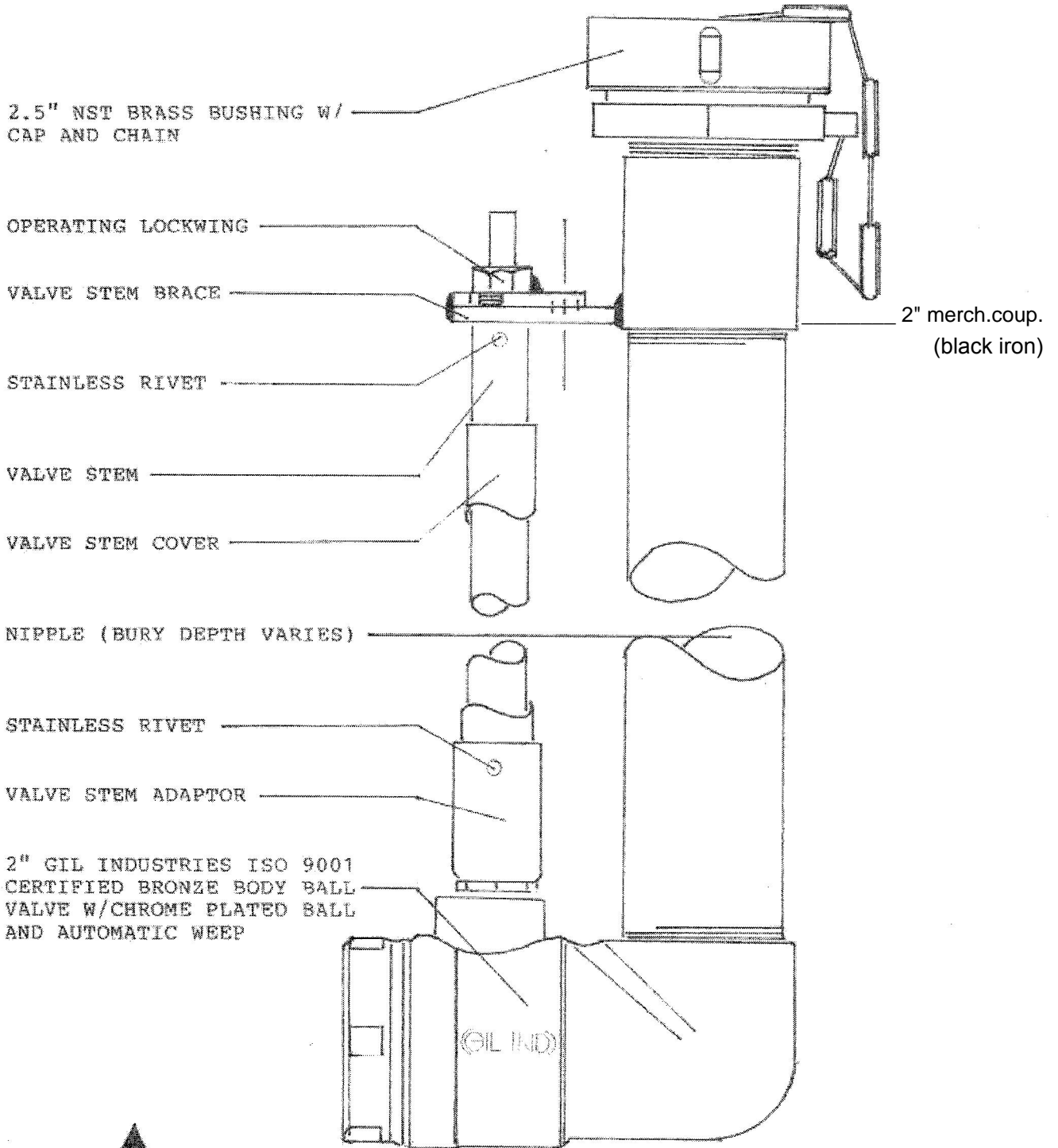
U.S. Pipe & Foundry Co. - Field Lok 350 Gasket  
McWane – Sure Stop 350 Gasket  
American – Fast-Grip Gasket

### SERVICE BRASS – Must Meet Lead Free Standard

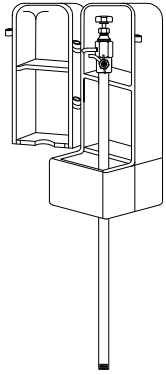
A.Y. McDonald Manufacturing Co.  
Cambridge Brass  
Mueller Co.  
Red Hed Manufacturing  
The Ford Meter Box Co.

*A Providence Water guidance document, This list is subject to change without notice. Customers or contractors are responsible for contacting Providence Water to verify their selection of materials prior to starting any construction.*

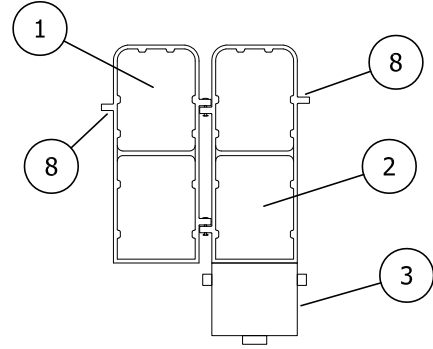
GIL INDUSTRIES 2" SLIMLINE FLUSHING HYDRANT



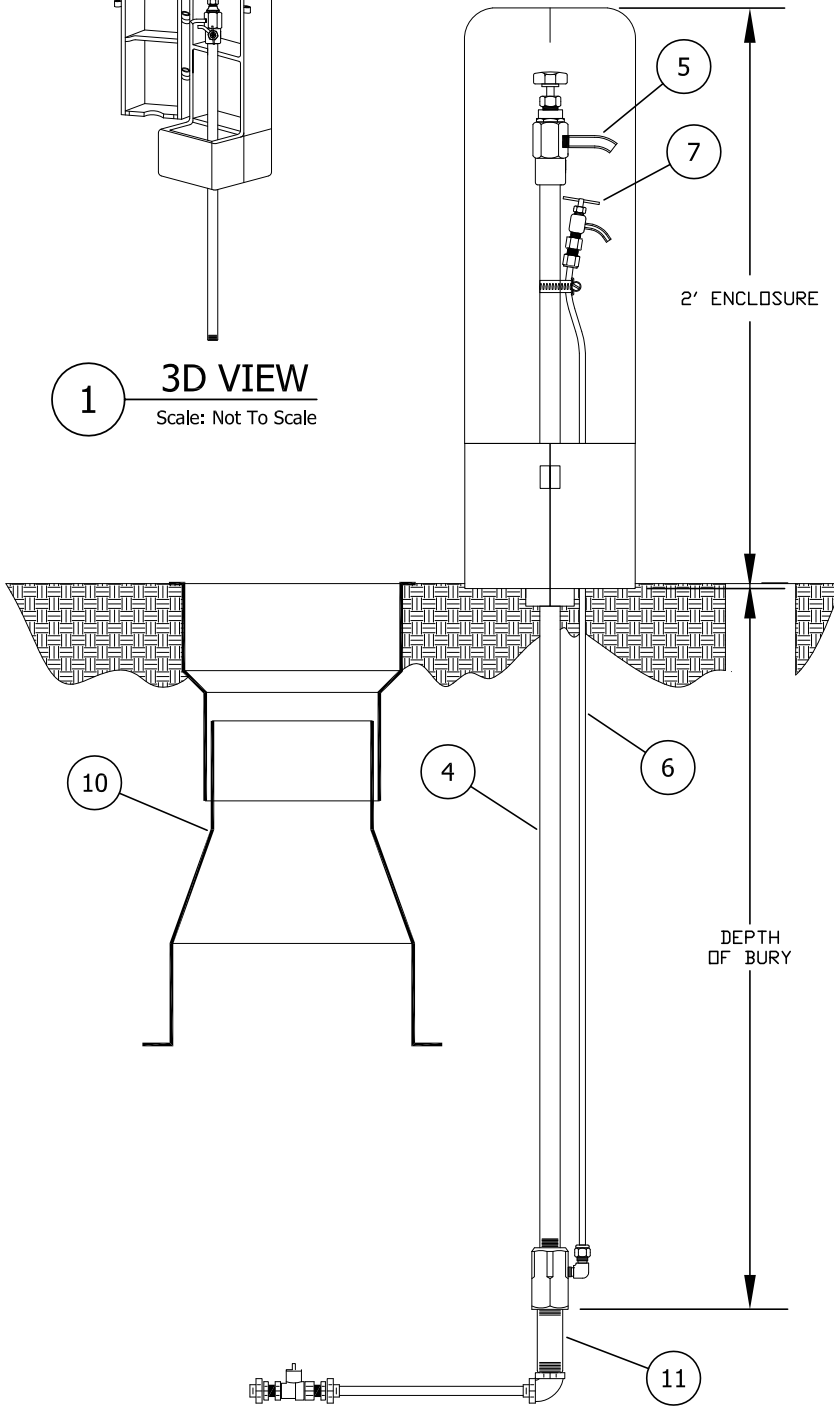
# #88-SS SAMPLING STATION SPEC SHEET



**1 3D VIEW**  
Scale: Not To Scale



**2 ENCLOSURE OPEN VIEW**  
Scale: 3/4"=1'-0"



SAMPLING STATION SHALL BE \_\_\_\_\_' BURY, WITH A 3/4" FIP INLET, AND 7/16" UNTHREADED BLOW OFF AND SAMPLING BIBB.

STATION SHALL BE ENCLOSED IN A LOCKABLE, NON-REMOVABLE ALUMINUM BOX WITH HINGED OPENINGS.

WHEN OPEN, THE STATION SHALL REQUIRE NO KEY FOR OPERATION, AND ALL WATER FLOW SHALL PASS THRU AN ALL STAINLESS STEEL WATERWAY.

ALL WORKING PARTS SHALL BE OF STAINLESS STEEL AND SERVICABLE FROM ABOVE GROUND WITH NO DIGGING OR REPLACEMENT NEEDED.

A STAINLESS STEEL PET COCK WILL BE LOCATED BELOW THE SAMPLING BIBB TO ALLOW PUMPING OF ANY WATER REMAINING INSIDE THE STATION TO INSURE NON-FREEZING.

THE STATION SHALL BE MODEL #88-SS AS MANUFACTURED BY THE KUPFERLE FOUNDRY, ST. LOUIS MO. 63102 OR APPROVED EQUAL.

#88-SS SAMPLING STATION TO BE INSTALLED AT THE FOLLOWING LOCATIONS:

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

ITEM	ITEM / DESCRIPTION	NOTES
1	88 FRONT DOOR ( COVER A )	
2	88 REAR DOOR ( COVER B )	
3	88 BASE	2 PIECES
4	1/2" S.S. WATERWAY	
5	BLOW OFF & SAMPLING BIBB	
6	1/4" S.S. TUBING	
7	PET COCK	
8	LOCKING HOLE	
9	NOT USED	
10	VALVE BOX	BY OTHERS
11	3/4" S.S. NIPPLE	BY OTHERS

DRAWN  
DCL

APPROVED  
DCL

DATE  
9/3/13

SCALE  
1-1/2"=1'

DD/MM/YY	ISSUED FOR REFERENCE
DATE	STATUS / REVISION

THIS DRAWING IS THE PROPERTY OF THE KUPFERLE FOUNDRY COMPANY. IT IS NOT TO BE USED OR DUPLICATED WITHOUT PERMISSION OF THE OWNER.

#88-SS SAMPLING STATION

SHEET 1 OF 1

Since 1857

**KUPFERLE FOUNDRY COMPANY**

2511 NORTH 9TH STREET, ST. LOUIS, MO 63102  
314-231-8738 800-231-3990 FAX 314-231-2820  
<http://www.hydrants.com>



**Various Types of Water Pipe Appurtenances Bidders Blank  
Fiscal 2024 Providence Water**



Part A	Item	Curb Stops		Bid Price
Item	1	1" Curb Stop		\$ each
Item	2	1.5" Curb Stop		\$ each
Item	3	2" Curb Stop		\$ each
Part B	Item	Corporation Stops		Bid Price
Item	1	1" Corporation Tap		\$ each
Item	2	1.5" Corporation Tap		\$ each
Item	3	2" Corporation Tap		\$ each
Part C	Item	Service Saddles		Bid Price
Item	1	6" x 1"	CC thread-w/304ss hardware	\$ each
Item	2	6" x 1.5"	CC thread-w/304ss hardware	\$ each
Item	3	6" x 2"	CC thread-w/304ss hardware	\$ each
Item	4	8" x 1"	CC thread-w/304ss hardware	\$ each
Item	5	8" x 1.5"	CC thread-w/304ss hardware	\$ each
Item	6	8" x 2"	CC thread-w/304ss hardware	\$ each
Item	7	12" x 1"	CC thread-w/304ss hardware	\$ each
Item	8	12" x 1.5"	CC thread-w/304ss hardware	\$ each
Item	9	12" x 2"	CC thread-w/304ss hardware	\$ each
Item	10	16" x 1"	CC thread-w/304ss hardware	\$ each
Item	11	16" x 1.5"	CC thread-w/304ss hardware	\$ each
Item	12	16" x 2"	CC thread-w/304ss hardware	\$ each
Part D	Item	Mechanical Restraints		Bid Price
Item	1	4"	1104-MEGALUG Only	\$ each
Item	2	6"	1106-MEGALUG Only	\$ each
Item	3	6" Gray MEGALUG	1106X-MEGALUG Only	\$ each
Item	4	8"	1108-MEGALUG Only	\$ each
Item	5	12"	1112-MEGALUG Only	\$ each
Part E	Item	Accessory Packs		Bid Price
Item	1	4"	MJ Assy Pack Less Gland	\$ each
Item	2	6"	MJ Assy Pack Less Gland	\$ each
Item	3	8"	MJ Assy Pack Less Gland	\$ each
Item	4	12"	MJ Assy Pack Less Gland	\$ each



<b>Part F</b>	<b>Item</b>	<b>Adjustable Cast Iron Valve Boxes, Risers, Buffalo Boxes, Service Boxes, Service Box Extensions, Gate Box</b>	<b>Bid Price</b>
Item	1	N.E. Style 2 Pcs. Cast Iron Valve Box - Cover only USA	\$ each
Item	2	N.E. Style 2 Pcs. Cast Iron Valve Box -Top Only USA	\$ each
Item	3	N.E. Style 2 Pcs. Cast Iron Valve Box -Bottom Only USA	\$ each
Item	4	4.5'-5.5' Service Box w/Plug Cover (Erie Style) USA	\$ each
Item	5	1/2" X 24" Stainless Steel Service Box Rod USA	\$ each
Item	6	"Erie" Service Box Covers Only USA	\$ each
Item	7	1" Valve Box Riser USA	\$ each
Item	8	1.5" Valve Box Riser USA	\$ each
Item	9	2" Valve Box Riser USA	\$ each
Item	10	3" Valve Box Riser USA	\$ each
Item	11	4" Valve Box Riser USA	\$ each
Item	12	6" Valve Box Riser USA	\$ each
Item	13	6" Service Box Extension USA	\$ each
Item	14	9" Service Box Extension USA	\$ each
Item	15	12" Service Box Extension USA	\$ each
Item	16	18" Service Box Extension USA	\$ each
Item	17	4.5" x 12" Pioneer Top Extension S11	\$ each
Item	18	S11 Cover	\$ each
Item	19	5.25" x 12" Pioneer Top Extension S21	\$ each
Item	20	S21 Cover	\$ each
<b>Part G</b>	<b>Item</b>	<b>Resilient Wedge Gate Valves</b>	<b>Bid Price</b>
Item	1	4" Resilient Wedge Gate Valve	\$ each
Item	2	6" Resilient Wedge Gate Valve	\$ each
Item	3	8" Resilient Wedge Gate Valve	\$ each
Item	4	12" Resilient Wedge Gate Valve	\$ each
<b>Part H</b>	<b>Item</b>	<b>Resilient Wedge Tapping Valves</b>	<b>Bid Price</b>
Item	1	4" Resilient Wedge Tapping Valve	\$ each
Item	2	6" Resilient Wedge Tapping Valve	\$ each
Item	3	8" Resilient Wedge Tapping Valve	\$ each
Item	4	12" Resilient Wedge Tapping Valve	\$ each

Part I	Item	Pipe Couplings	OD Ranges	Bid Price
Item	1	4" Coupling w/304ss-Straight	4.74-5.10	\$ each
Item	2	6" Coupling w/304ss-Straight	6.86-7.20	\$ each
Item	3	6" Coupling w/304ss-Transition	6.86-7.20 x 7.26-7.60	\$ each
Item	4	8" Coupling w/304ss-Straight	8.99-9.40	\$ each
Item	5	8" Coupling w/304ss-Transition	8.99-9.40 x 9.39-9.79	\$ each
Item	6	12" Coupling w/304ss-Straight	13.15-13.55	\$ each
Item	7	12" Coupling w/304ss-Transition	13.20-13.50 x 14.20-14.40	\$ each
Item	8	12" Coupling w/304ss-Transition	13.85-14.10 x 14.03-14.40	\$ each
Item	9	1.25 -1.5" Hymax Coupling	1.61-2.13	\$ each
Item	10	2" Hymax Coupling	2.10-3.03	\$ each
Item	11	4" Hymax Coupling	4.25-5.63	\$ each
Item	12	6" Hymax Coupling	6.42-7.68	\$ each
Item	13	8" Hymax Coupling	8.54-9.84	\$ each
Item	14	12" Hymax Coupling	12.40-13.66	\$ each
Item	15	12" Hymax Coupling	13.15-14.41	\$ each
Part J	Item	Single Band Repair Clamps-Stainless Steel Band-w/304ss hardware	OD Ranges	Bid Price
Item	1	3/4" x 6"	Full Wrap	\$ each
Item	2	1" x 6"	Full Wrap	\$ each
Item	3	1.5" x 6"	Full Wrap	\$ each
Item	4	2" x 6"	Full Wrap	\$ each
Item	5	4" x 7.5"	4.74" - 5.14"	\$ each
Item	6	6" x 7.5"	6.84" - 7.24" CI	\$ each
Item	7	6" x 7.5"	7.05" - 7.45" AC	\$ each
Item	8	6" x 12"	6.84" - 7.24" CI	\$ each
Item	9	6" x 12"	7.05" - 7.45" AC	\$ each
Item	10	6" x 12"x3/4"	6.84" - 7.24" CI	\$ each
Item	11	6" x 12"x3/4"	7.05" - 7.45" AC	\$ each
Item	12	6" x 12"x1"	6.84" - 7.24" CI	\$ each
Item	13	6" x 12"x1"	7.05" - 7.45" AC	\$ each
Item	14	6" x 15"	6.84" - 7.24" CI	\$ each
Item	15	6" x 15"	7.05" - 7.45" AC	\$ each
Item	16	8" x 7.5"	8.99" - 9.39" CI	\$ each
Item	17	8" x 7.5"	9.27" - 9.67" AC	\$ each
Item	18	8" x 12"	8.99" - 9.39" CI	\$ each
Item	19	8" x 12"	9.27" - 9.67" AC	\$ each
Item	20	8' x 12" x 3/4"	8.99" - 9.39" CI	\$ each
Item	21	8' x 12" x 3/4"	9.27" - 9.67" AC	\$ each
Item	22	8" x 12" x 1"	8.99" - 9.39" CI	\$ each
Item	23	8" x 12" x 1"	9.27" - 9.67" AC	\$ each
Item	24	8" x 15"	8.99" - 9.39" CI	\$ each
Item	25	8" x 15"	9.27" - 9.67" AC	\$ each
Part J	Item	Single Band Repair Clamps-Stainless Steel Band-w/304ss hardware	OD Ranges	Bid Price

Item	26	12' x 12"	13.00" - 13.50" CI	\$	each
Item	27	12" x 12"	13.44" - 14.04" AC	\$	each
Item	28	12" x 12"	13.92" - 14.38" AC	\$	each
Item	29	12" x 12" x 3/4"	13.00" - 13.50" CI	\$	each
Item	30	12" x 12" x 3/4"	13.44" - 14.04" AC	\$	each
Item	31	12" x 12" x 1"	13.00" - 13.50" CI	\$	each
Item	32	12" x 12" x 1"	13.44" - 14.04" AC	\$	each
Item	33	12" x 15"	13.44" - 14.04" AC	\$	each
Item	34	12" x 15"	13.92" - 14.38" AC	\$	each
<b>Part K</b>	<b>Item</b>	<b>Stainless Steel Tapping Sleeves w/ Stainless Flange</b>	<b>OD Ranges</b>		<b>Bid Price</b>
Item	1	6" x 4"	6.90" - 7.30" CI	\$	each
Item	2	6" x 4"	7.10" - 7.50" AC	\$	each
Item	3	6" x 6"	6.90" - 7.30" CI	\$	each
Item	4	6" x 6"	7.10" - 7.50" AC	\$	each
Item	5	8" x 4"	9.05" - 9.45" CI	\$	each
Item	6	8" x 4"	9.30" - 9.70" AC	\$	each
Item	7	8" x 6"	9.05" x 9.45" CI	\$	each
Item	8	8" x 6"	9.30" - 9.70" AC	\$	each
Item	9	8" x 8"	9.05" x 9.45" CI	\$	each
Item	10	8" x 8"	9.30" - 9.70" AC	\$	each
Item	11	12" x 4"	13.10" - 13.50" CI	\$	each
Item	12	12" x 4"	14.00" - 14.40" AC	\$	each
Item	13	12" x 6"	13.10" - 13.50" CI	\$	each
Item	14	12" x 6"	14.00" - 14.40" AC	\$	each
Item	15	12" x 8"	13.10" - 13.50" CI	\$	each
Item	16	12" x 8"	14.00" - 14.40" AC	\$	each
Item	17	16" x 4"	17.33" - 17.87" CI	\$	each
Item	18	16" x 4"	17.88" - 18.43" AC	\$	each
Item	19	16" x 6"	17.33" - 17.87" CI	\$	each
Item	20	16" x 6"	17.88" - 18.43" AC	\$	each
Item	21	16" x 8"	17.33" - 17.87" CI	\$	each
Item	22	16" x 8"	17.88" - 18.43" AC	\$	each

Part L	Item	Mortar Lined Push-On Ductile Iron Pipe		Bid Price
Item	1	4" Class 52		\$ each
Item	2	4" Class 52-Zinc Coated		\$ each
Item	3	6" Class 52		\$ each
Item	4	6" Class 52 Zinc Coated		\$ each
Item	5	8" Class 52		\$ each
Item	6	8" Class 52 Zinc Coated		\$ each
Item	7	12" Class 52		\$ each
Item	8	12" Class 52 Zinc Coated		\$ each
Item	9	12" Class 56 Zinc Coated		\$ each
Part M	Item	Brass Couplings, Unions and Various Fittings		Bid Price
Item	1	3/4" x 3/4"	Copper to Copper	Brass Coupling-Compression \$ each
Item	2	3/4" x 1"	Copper to Copper	Brass Coupling-Compression \$ each
Item	3	1" x 1"	Copper to Copper	Brass Coupling-Compression \$ each
Item	4	1" x 1.5"	Copper to Copper	Brass Coupling-Compression \$ each
Item	5	1.5" x 1.5"	Copper to Copper	Brass Coupling-Compression \$ each
Item	6	1.5" x 2"	Copper to Copper	Brass Coupling-Compression \$ each
Item	7	2" x 2"	Copper to Copper	Brass Coupling-Compression \$ each
Item	8	3/4" X 3/4"	Universal Transitional Coupling	Size B to Size C \$ each
Item	9	3/4" X 1"	Universal Transitional Coupling	Size B to Size C \$ each
Item	10	1" X 1"	Universal Transitional Coupling	Size C to Size C \$ each
Item	11	1" X 1.25"	Universal Transitional Coupling	Size C to Size D \$ each
Item	12	1.25" X 1.50"	Universal Transitional Coupling	Size D to Size E \$ each
Item	13	1.5" X 1"	Universal Transitional Coupling	Size E to Size C \$ each
Item	14	1.5" x 1.5"	Universal Transitional Coupling	Size E to Size E \$ each
Item	15	2" Male IP Thread X 2" CTS Compression		Adaptor \$ each
Item	16	5/8" x 1"	Tap Adaptor	#RH445121 \$ each

Part N	Item	Mechanical Bends (Zinc Coated and Non Zinc)		Zinc	Non Zinc
Item	1	4" x 1/4" Bend	MJ x MJ	\$	each \$ each
Item	2	4" x 1/4" Bend	MJ x PE	\$	each \$ each
Item	3	6" x 1/4" Bend	MJ x MJ	\$	each \$ each
Item	4	6" x 1/4" Bend	MJ x PE	\$	each \$ each
Item	5	8" x 1/4" Bend	MJ x MJ	\$	each \$ each
Item	6	8" x 1/4" Bend	MJ x PE	\$	each \$ each
Item	7	12" x 1/4" Bend	MJ x MJ	\$	each \$ each
Item	8	4" x 1/8" Bend	MJ x PE	\$	each \$ each
Item	9	4" x 1/8" Bend	MJ x MJ	\$	each \$ each
Item	10	6" x 1/8" Bend	MJ x PE	\$	each \$ each
Item	11	6" x 1/8" Bend	MJ x MJ	\$	each \$ each
Item	12	8" x 1/8" Bend	MJ x PE	\$	each \$ each
Item	13	8" x 1/8" Bend	MJ x MJ	\$	each \$ each
Item	14	12" x 1/8" Bend	MJ x PE	\$	each \$ each
Item	15	4" x 1/16" Bend	MJ x MJ	\$	each \$ each
Item	16	4" x 1/16" Bend	MJ x PE	\$	each \$ each
Item	17	6" x 1/16" Bend	MJ x MJ	\$	each \$ each
Item	18	6" x 1/16" Bend	MJ x PE	\$	each \$ each
Item	19	8" x 1/16" Bend	MJ x MJ	\$	each \$ each
Item	20	8" x 1/16" Bend	MJ x PE	\$	each \$ each
Item	21	12" x 1/16" Bend	MJ x MJ	\$	each \$ each
Item	22	4" x 1/32" Bend	MJ x PE	\$	each \$ each
Item	23	4" x 1/32" Bend	MJ x MJ	\$	each \$ each
Item	24	6" x 1/32" Bend	MJ x PE	\$	each \$ each
Item	25	6" x 1/32" Bend	MJ x MJ	\$	each \$ each
Item	26	8" x 1/32" Bend	MJ x PE	\$	each \$ each
Item	27	8" x 1/32" Bend	MJ x MJ	\$	each \$ each
Item	28	12" x 1/32" Bend	MJ x PE	\$	each \$ each

Part O	Item	Solid Sleeves and Reducers (Zinc Coated and Non Zinc)		Zinc	Non Zinc
Item	1	6" x 4"	Reducer	MJ x MJ	\$ each \$ each
Item	2	8" x 4"	Reducer	MJ x MJ	\$ each \$ each
Item	3	8" x 6"	Reducer	MJ x MJ	\$ each \$ each
Item	4	12" x 6"	Reducer	MJ x MJ	\$ each \$ each
Item	5	12" x 8"	Reducer	MJ x MJ	\$ each \$ each
Item	6	4" X 12"		MJ Solid Sleeve	\$ each \$ each
Item	7	6" X 12"		MJ Solid Sleeve	\$ each \$ each
Item	8	8" X 12"		MJ Solid Sleeve	\$ each \$ each
Item	9	12" X 12"		MJ Solid Sleeve	\$ each \$ each
Part P	Item	Anchor and Mechanical Tee's (Zinc Coated and Non Zinc)		Zinc	Non Zinc
Item	1	6" x 4"		MJ Tee	\$ each \$ each
Item	2	6" x 6"		MJ Tee	\$ each \$ each
Item	3	8" x 4"		MJ Tee	\$ each \$ each
Item	4	8" x 6"		MJ Tee	\$ each \$ each
Item	5	8" x 8"		MJ Tee	\$ each \$ each
Item	6	12" x 4"		MJ Tee	\$ each \$ each
Item	7	12" x 6"		MJ Tee	\$ each \$ each
Item	8	12" x 8"		MJ Tee	\$ each \$ each
Item	9	6" x 6"		Anchor Tee	\$ each \$ each
Item	10	8" x 6"		Anchor Tee	\$ each \$ each
Item	11	8" x 8"		Anchor Tee	\$ each \$ each
Item	12	12" x 6"		Anchor Tee	\$ each \$ each
Item	13	12" x 8"		Anchor Tee	\$ each \$ each
Part Q	Item	Valve Box Aligners		Bid Price	
Item	1	BoxLox Valve Box Alignment Device Model 2		\$	each
Item	2	BoxLok Valve Box Alignment Device Model K1		\$	each
Item	3	Adaptor Inc. Valve box Adaptor II		\$	each
Item	4	Adaptor Inc. Multi-Fit Adaptor		\$	each
Part R	Item	Field Loc Gaskets		Bid Price	
Item	1	4"		US Pipe Field Lok Gaskets	\$ each
Item	2	6"		US Pipe Field Lok Gaskets	\$ each
Item	3	8"		US Pipe Field Lok Gaskets	\$ each
Item	4	12"		US Pipe Field Lok Gaskets	\$ each

Part S	Item	Miscellaneous Items	Bid Price
Item	1	5/8"	Meter Coupling, IP \$ each
Item	2	3/4"	Meter Coupling, IP \$ each
Item	3	1"	Meter Coupling, IP \$ each
Item	4	1-1/2"	Meter Coupling, IP, 3-Pcs, RH \$ each
Item	5	2"	Meter Coupling, IP, 3-Pcs, RH \$ each
Item	6	#88-SS Sampling Station - 4' 6" Bury	Eclipse Sample Station \$ each
Item	7	Gil 2" Slimline Flushing Hydrant - 3 Foot	Blow off Assembly \$ each

Miscellaneous items not herein listed, vendor agrees to sell said item(s) \_\_\_\_\_% below list price.