

\$20.00

# CITY OF SAN ANGELO REQUEST FOR BIDS

**Water Distribution**

**Warehouse Inventory**

RFB No. WU-07-19



City of San Angelo  
72 West College Avenue  
San Angelo, Texas 76903

**Submittal Deadline**  
**May 23, 2019 / 2:30 PM, Local Time**



## TABLE OF CONTENTS

*This Table of Contents is intended as an aid and not as a comprehensive listing of the Bid package. Vendors are responsible for reading the entire Bid package and complying with all specifications.*

<b>Section</b>	<b>Page</b>
<b>INVITATION TO BID.....</b>	<b>1</b>
GENERAL.....	1
DOCUMENT AVAILABILITY.....	1
DIGITAL FORMAT .....	1
REQUIRED RESPONSE.....	1
DEADLINE AND DELIVERY LOCATION .....	1
COPIES.....	1
DELIVERY ADDRESS .....	1
ADDENDA.....	1
REJECTION OF BIDS .....	2
POINTS OF CONTACT .....	2
<b>1. INSTRUCTIONS TO VENDORS.....</b>	<b>3</b>
1.1. INTERPRETATIONS.....	3
1.2. RESTRICTIONS ON COMMUNICATIONS .....	
1.3. CORRECTIONS, ADDITIONS, OR DELETIONS .....	3
1.4. CONFIDENTIALITY .....	3
1.5. ACCEPTANCE OF BID CONTENT.....	3
1.6. SPECIFICATIONS.....	3
1.7. SUBSTITUTIONS .....	4
1.8. MATERIALS .....	4
1.9. BID ITEMS .....	4
1.10. AUTHORIZED SIGNATURE .....	4
1.11. MODIFICATION OR WITHDRAWAL OF BIDS .....	4
1.12. PRICES.....	4
1.13. DELIVERY DATE .....	4
1.14. DEFAULT IN DELIVERY.....	4
1.15. DELIVERY TIMES .....	4
1.16. DELIVERY OF GOODS .....	4
1.17. EVALUATION FACTORS.....	5
1.18. DISQUALIFICATION.....	5
1.19. COPIES OF BID TABULATION RESULTS .....	5
1.20. AWARD OF CONTRACT.....	5
1.21. PARTIAL AWARD .....	5
1.22. RESERVATIONS.....	5
1.23. ACCEPTANCE .....	5
SAMPLE NOTICE OF AWARD.....	6
<b>2. TERMS AND CONDITIONS.....</b>	<b>7</b>
2.1. ORDER PLACEMENT .....	7
2.2. VENDOR TO PACKAGE GOODS.....	7
2.3. SHIPMENT UNDER RESERVATION PROHIBITED.....	7
2.4. TITLE AND RISK OF LOSS.....	7
2.5. DELIVERY TERMS AND TRANSPORTATION CHARGES .....	7
2.6. NO REPLACEMENT OF DEFECTIVE TENDER .....	7

2.7.	PLACE OF DELIVERY .....	7
2.8.	INVOICES AND PAYMENTS .....	7
2.9.	GRATUITIES .....	7
2.10.	SPECIAL TOOLS AND TEST EQUIPMENT.....	8
2.11.	WARRANTY-PRICE .....	8
2.12.	WARRANTY-PRODUCT.....	8
2.13.	SAFETY WARRANTY.....	8
2.14.	NO WARRANTY BY CITY AGAINST INFRINGEMENTS .....	8
2.15.	RIGHT OF INSPECTION.....	8
2.16.	CANCELLATION.....	8
2.17.	TERMINATION.....	8
2.18.	FORCE MAJEURE .....	9
2.19.	ASSIGNMENT-DELEGATION.....	9
2.20.	WAIVER.....	9
2.21.	MODIFICATIONS .....	9
2.22.	INTERPRETATION-PAROL EVIDENCE .....	9
2.23.	APPLICABLE LAW .....	9
2.24.	ADVERTISING .....	9
2.25.	RIGHT TO ASSURANCE .....	9
2.26.	EQUAL EMPLOYMENT OPPORTUNITY.....	9
2.27.	CONFLICT OF INTEREST .....	10
2.28.	CERTIFICATE OF INTERESTED PARTIES (FORM 1295) .....	10
2.29.	TAXES AND PERMITS .....	10
2.30.	EXAMINATION OF CONTRACT DOCUMENTS.....	10
2.31.	LEGAL VENUE .....	10
2.32.	FUNDS – PRICE .....	10
2.33.	CLAIMS FOR OVERCHARGES .....	11
2.34.	PIGGY-BACK PROCUREMENTS .....	11
2.35.	PRICE ESCALATION.....	11
2.36.	TIME OF PERFORMANCE .....	11
<b>3.</b>	<b>BID SPECIFICATIONS.....</b>	<b>12</b>
	BRASS.....	12
	DUCTILE IRON AND CAST IRON FITTINGS .....	23
	FIRE HYDRANT .....	32
	PVC PIPE .....	33
	CAST COUPLING .....	33
	REPAIR CLAMP, SINGLE BAND .....	34
	SERVICE SADDLES.....	41
	TAP SLEEVES.....	43
	GATE VALVES.....	48
	MEGALUG .....	52
<b>4.</b>	<b>NO BID REPLY FORM .....</b>	<b>53</b>
<b>5.</b>	<b>BID FORMS.....</b>	<b>54</b>
	BID SHEET .....	55
	VENDOR COMPLIANCE WITH RECIPROCITY ON NON-RESIDENT VENDORS .....	65



## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903  
Tel: (325) 657-4219

## INVITATION TO BID

### General

The City of San Angelo Water Utilities Department is seeking bids for the Water Distribution Warehouse Inventory.

All items must meet or exceed the specifications as published. Any deviations/alternatives from the brand names specified will require prior approval from the City's Water Utilities Department as meeting or exceeding the product specification standards signified by brands listed. Approval of alternative product must be obtained five (5) working days prior to bid opening. Alternative bids which did not receive prior approval will be considered non-responsive.

**Route all requests for specification approval through the Purchasing Division at [sapurch@cosatx.us](mailto:sapurch@cosatx.us).**

### Document Availability

Bid Documents are available in the Purchasing Division or may be downloaded from the City's website at [www.cosatx.us](http://www.cosatx.us). To locate the documents on the website go to:

- Bid Information > RFB: WU-07-19/ Water Distribution Warehouse Inventory

### Digital Format

If bid specifications are obtained in digital format in order to prepare a bid, the bid must be submitted in hard copy according to the instructions contained in this bid package. If, in its bid response, vendors make any changes whatsoever to the published bid specifications, the bid specification **as published** shall control. Furthermore, if an alteration of any kind to the bid specification is discovered after the contract is executed and is or is not being performed; the contract is subject to immediate cancellation without recourse.

### Required Response

The City requires a response to any Request for Bid (RFB) notifications mailed to potential vendors. Should a company choose not to bid on the project, then in order to remain on the City of San Angelo's potential vendors list a "No Bid Reply" form must be submitted.

### Deadline and Delivery Location

Sealed RFB submittals must be received no later than **May 23, 2019, 2:30 PM, Local Time**. The clock located in Purchasing will be the official time. Bids received after the bidding deadline, regardless of the mode of delivery, will not be considered.

***It is the sole responsibility of the vendor to ensure that the sealed RFB submittal arrives in the Purchasing Office by the specified deadline, regardless of method chosen by the firm for delivery.***

***Faxed or electronically submitted bids will not be accepted.***

### Copies

Submit: One (1) unbound original (binder clips acceptable), three (3) bound copies (binders, staples or binder clips are acceptable), and one (1) copy in PDF format on USB Flash Drive of all required bid forms.

### Delivery Address

City of San Angelo  
Purchasing Division, RFB: WU-07-19  
72 W. College Ave., Suite 330  
San Angelo, Texas 76903

**Mark Sealed Bid Envelope: "RFB NO. WU-07-19/ Water Distribution Warehouse Inventory"**

### Addenda

Should specifications be revised prior to the deadline for submission of the bid, the City's Purchasing Division will issue addenda addressing the nature of the change and post them on the City's website. Vendors should **acknowledge any addenda and return the form with their bid package**. Vendor is responsible for checking the City's website to determine if any addenda have been issued prior to submitting a bid. Failure to consider all addenda will be at the vendor's risk.



## **CITY OF SAN ANGELO**

### **PURCHASING DIVISION**

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

#### **Rejection of Bids**

The City of San Angelo reserves the right to reject all bids, to waive informalities or irregularities, and to reject non-conforming, non-responsive, or conditional bids.

#### **Points of Contact**

##### **Nolan Sosa, Manager**

Purchasing Division

City of San Angelo

72 W. College Ave.

San Angelo, Texas 76903

sapurch@cosatx.us

(325) 657-4219

##### **Allison Strube, Director**

Water Utilities Department

City of San Angelo

301 W. Beauregard Ave.

San Angelo, Texas 76903



## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

## 1. INSTRUCTIONS TO VENDORS

### 1.1. Interpretations

All questions about the meaning or intent of the bid documents, including specifications shall be submitted to the Purchasing Division in writing. Replies will be issued by addenda and posted on the City's website. Questions received less than a week prior to the date for bid submittals will not be answered. Only questions answered by formal written addenda will be binding. Oral interpretations or clarifications will be without legal effect. The bid invitation number must appear on all correspondence, inquiries, etc. It is the vendor's responsibility to ensure all addenda have been considered prior to bidding.

### 1.2. Restrictions on Communications

Vendors should not communicate with: 1) elected City officials and their staff regarding the RFB from the time the RFB has been released until the contract is posted as a City Council agenda item; and 2) City employees from the time the RFB has been released until the contract is awarded. These restrictions extend to "thank you" letters, phone calls, emails and any contact that results in the direct or indirect discussion of the RFB and/or bid submitted by vendor. Violation of this provision by vendor and/or its agent may lead to disqualification of vendor from consideration.

Exceptions to the Restrictions on Communication with City employees include:

1. Private (non-business) contacts with the City by the vendor's employees acting in their personal capacity;
2. Casual social contacts that do not include mention of the RFB;
3. Vendors may submit written questions concerning this RFB to the email listed below up to a week prior to submission due date. Questions received after the stated deadline will not be answered;

It is required that all questions be sent by email to [sapurch@cosatx.us](mailto:sapurch@cosatx.us). **Please ensure the RFB Number and title are in the subject line.** Questions submitted and the City's responses will be published in the form of addenda to the City's web site at [www.cosatx.us](http://www.cosatx.us). Vendor is responsible for calling the City or reviewing the website to determine if any addenda have been issued prior to their submittal. Only questions answered by formal addenda will be binding;

4. Vendors may provide responses to questions asked of them after responses are received and opened.
5. Upon completion of the evaluation process, vendors shall receive a notification letter indicating the recommended firm and anticipated City Council agenda date. Vendors desiring a review of the solicitation process may submit a written request no later than five (5) calendar days from the date the letter was sent. The letter will indicate the name and address for submission of requests for review.

### 1.3. Corrections, Additions, or Deletions

Corrections, additions, or deletions to any portion of the RFB will be in the form of a written addendum.

### 1.4. Confidentiality

All bids submitted shall remain confidential. After award, bids will be made available for public inspection. The City shall not be responsible for the confidentiality of any trade secrets or other information contained or disclosed in the bid unless clearly identified as such.

### 1.5. Acceptance of Bid Content

Before submitting a bid, each vendor shall make all investigations and examinations necessary to ascertain all conditions and requirements affecting the performance of the contract, and to verify any representations made by the City upon which the bid will rely. If the vendor receives an award, failure to have made such investigation and examinations will in no way relieve the vendor from its obligation to comply in every detail with all provisions and requirements.

### 1.6. Specifications

The specifications herein shall be the basis of comparison. Where a definite item is specified, it is not the intention to discriminate against any product made by another manufacturer, but rather, the intention is to set a definite standard, style, and function. Vendors are required to quote equipment that will meet or exceed the minimum or maximum specifications herein.



## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

#### 1.7. Substitutions

It is the intention of the City of San Angelo to purchase equipment similar or equal to that specified. **Variation from the specification must be noted in bid by vendor. Absence of noted variations will be interpreted to mean that the item quoted is in exact accordance with the specification.** Each vendor, if not bidding on specified equipment, is required to furnish with the bid, a complete detailed description, and specifications of each item upon which they are bidding, supported by the manufacturer's catalog, photographs, guarantee, complete name, and any other pertinent information. An "or equal" item must reflect the general appearance, design, dimensions, or color of the item specified. Samples, if required, shall be furnished free of expense to the City. Samples not used or destroyed in examination and testing will be returned to the vendor, if requested, at the vendor's expense. Each sample must be marked with vendor's name, address, and RFB reference. Approval of substitute "or equal" items remains with the City, and in all cases is final. In the event an item is not accepted as an "or equal", the City may allow the vendor to supply the remaining items meeting specifications at the bid price.

#### 1.8. Materials

The vendor certifies all materials and equipment supplied resulting from this bid invitation shall be new and unused, unless noted elsewhere in the invitation.

#### 1.9. Bid Items

Vendors are expected to examine all specifications, drawings, standard provisions, and instructions. Failure to do so will be at the vendor's risk. Bids are to be submitted on each item and total extended, however more than one bid may be submitted on products meeting the specifications.

#### 1.10. Authorized Signature

Bids must show vendor name, address, and be manually signed. The person signing the bid must have authority to bind their firm in a contract. Any erasures or other changes must be initialed by the person signing the bid.

#### 1.11. Modification or Withdrawal of Bids

Bid pricing **CANNOT** be altered or amended after the closing time. Bids may be modified or withdrawn prior to the closing hour and date, by written notice to the Purchasing Division. A bid may also be withdrawn in person by a vendor or its authorized agent, provided its identity is made known and he signs a receipt for the bid. No bid may be withdrawn after the closing time and date without acceptable reason in writing and with approval of the Purchasing Division.

#### 1.12. Prices

Vendor is to quote its lowest and best price Free On Board (F.O.B.) destination on each item to shipping location in San Angelo, Texas unless otherwise specified in the invitation. Pricing shall include packaging, transportation, unloading, and any trade and cash discounts will be taken, if earned. Bids must be firm, however if a vendor believes it necessary to base its price on price adjustment, such a bid may be considered, but only as an alternate bid. Pricing is to be submitted as quantity per unit specified with extended totals, however in the event of a discrepancy in extension, the unit prices shall govern. Pricing shall be entered on the Bid Sheet in ink or typewritten.

#### 1.13. Delivery Date

Bid must show the number of calendar days required to place the materials at the place of destination under normal conditions. Failure to specify delivery date or state unrealistically short or long delivery dates may cause the bid to be disregarded.

#### 1.14. Default in Delivery

The vendor must keep the City advised at all times as to the status of the order. When delivery delay can be foreseen, the Vendor shall give prior notice to the Purchasing Division who shall have the right to extend the delivery date, if reasons for delay are reasonable and acceptable. Default in promised delivery, without acceptable reasons, or failure to meet specifications without remedy, shall cause the City to purchase the goods elsewhere and charge any increase in cost and handling to the defaulting Vendor. This does not limit any other remedies to the City for damage entitled under the Uniform Commercial Code.

#### 1.15. Delivery Times

Deliveries will be accepted only during normal working hours, i.e.; 8:00 a.m. to 12:00 p.m. and from 1:00 p.m. to 5:00 p.m., Monday thru Friday, unless prior arrangements have been made. For large orders, 24 hour notice to the receiving department is required to eliminate delays in delivery.

#### 1.16. Delivery of Goods

**Deliveries for WU-07-19 should be made to 1948 St. Ann Street, San Angelo, Texas.** Due to limited warehouse space, quantities shall be delivered as determined by the City of San Angelo and the successful





## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

vendor in order to maintain bid price. Vendors shall be able to make delivery of items ordered in accordance with delivery times stated above. ***Time is of the essence in the delivery of this product.***

#### **1.17. Evaluation Factors**

It is **not** the policy of the City to purchase on the basis of low bids alone. In evaluating bids, the following considerations shall be taken into account to determine the "best value" for the City:

- A. the purchase price, including reasonable payment discounts;
- B. the reputation of the vendor and of the vendor's goods or services;
- C. the quality of the vendor's goods or services;
- D. the extent to which the goods or services meet the City's needs;
- E. the vendor's past relationship with the City;
- F. the impact on the ability of the City to comply with laws and rules relating to historically underutilized businesses;
- G. the total long-term cost to the City to acquire the vendor's goods or services; and,
- H. Any other relevant factor specifically listed in the request for bids.

#### **1.18. Disqualification**

The vendor may be disqualified for any of the following reasons:

- A. The vendor is involved in any litigation against the City of San Angelo;
- B. The vendor is in arrears on any existing contract or has defaulted on a previous contract with the City;
- C. The vendor is debarred, suspended, terminated, or otherwise excluded from or ineligible covered transactions by any federal, state, or local government entity or agency;
- D. The bid is not received by the bid submittal deadline; or,
- E. The bid is not executed by a person authorized to enter into a contract binding on the vendor.

#### **1.19. Copies of Bid Tabulation Results**

To obtain bid tabulation results, download from the City's website [www.cosatx.us](http://www.cosatx.us) > Bid Information > RFB: WU-07-19 / Water Distribution Warehouse Inventory.

#### **1.20. Award of Contract**

The City reserves the right to accept or reject any or all bids, and to waive any informalities or irregularities in the RFB process. The City is an equal opportunity employer.

#### **1.21. Partial Award**

Vendors may furnish pricing for all or any portion of the bid invitation. UNLESS vendor specifies otherwise in its bid, the City may award contracts for any item or group of items listed.

#### **1.22. Reservations**

The City expressly reserves the right to accept, reject, or cancel all bids AND:

- A. Waive any defect, irregularity, or informality in any bid or bidding procedure;
- B. Extend the bid closing time and date;
- C. Reissue a bid invitation or RFB;
- D. Procure any item by other means; or,
- E. Increase or decrease the quantity specified, unless the vendor specifies otherwise.

#### **1.23. Acceptance**

The vendor's signature on the bid constitutes an offer to sell under the terms and conditions contained in the bid WU-07-19. The Notice of Award (draft follows) offered to the vendor, constitutes acceptance of the offer to sell and consummates the binding contractual agreement, as well as the delivery of a Purchase Order with the valid signature of the procurement official.



**Sample Notice of Award**

**Project: Warehouse Inventory (RFB# WU-07-19)**

Date: May 7, 2019

Mr. Name  
Company Name  
Address  
City, Texas Zip code

Dear Mr. Last Name:

This letter shall serve as the official **Notice of Bid Award** to \_\_\_\_\_ ("Vendor") on the above referenced RFB. Attached is a copy of the bid tab results. The contract for RFB: WU-07-19 was awarded by the City Council on \_\_\_\_\_, in the amount of \$\_\_\_\_\_.

The contract documents consist of RFB: WU-07-19, your responsive bid, the award and your acceptance. The term of the contract will be for ....., effective \_\_\_\_\_.

Please execute the acceptance of the Bid Award below and return it to my attention. If you have any questions, please feel free to contact me at \_\_\_\_\_.

Sincerely,

Name & Title of Contract Administrator  
Department

Acceptance

The foregoing Bid Award is hereby accepted on behalf of \_\_\_\_\_,

Provider, by \_\_\_\_\_, the undersigned, its \_\_\_\_\_, on this  
(print name) (office held or owner)

\_\_\_\_\_ day of \_\_\_\_\_, 2018.



## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

## 2. TERMS AND CONDITIONS

### 2.1. Order Placement

No order shall be accepted without a Purchase Order and all invoices must reflect the Purchase Order number.

City's obligation is payable only and solely from funds available for the purpose of this purchase. Lack of funds shall render this contract null and void to the extent funds are not available and any delivered but unpaid for goods will be returned to vendor by City. Accepting orders without a Purchase Order number shall be at the risk of the vendor.

### 2.2. Vendor to Package Goods

The vendor will package goods in accordance with good commercial practice. Each shipping container shall be clearly and permanently marked as follows:

- A. Vendor's name and address.
- B. Consignee's name and address.
- C. Purchase Order number and supply agreement number, if applicable.
- D. Container number and total number of containers, e.g., box 1 of 4 boxes.
- E. The number of the container bearing the packing slip. Vendor shall pay cost of packaging unless otherwise provided. Goods shall be suitably packed to secure lowest transportation costs and to conform to the requirements of common carriers and any applicable specifications. City's count or weight shall be final and conclusive on shipments not accompanied by packing lists.

### 2.3. Shipment under Reservation Prohibited

Vendor is not authorized to ship the goods under reservation and no tender of a bill of lading will operate as a tender of goods.

### 2.4. Title and Risk of Loss

The title and risk of loss of the goods shall not pass to City until City actually receives and takes possession of the goods at the point or points of delivery.

### 2.5. Delivery Terms and Transportation Charges

F.O.B. destination, unless delivery terms are specified in vendor's bid, or actual costs, whichever is lower. If the quoted delivery terms do not include transportation costs, the City shall have the right to designate what method of transportation shall be used to ship the goods. Delivery may be a consideration in the award when shown to be a benefit to the City.

### 2.6. No Replacement of Defective Tender

Every tender or delivery of goods must fully comply with all provisions of this contract as to the method and place of delivery, quality and the like. If a tender is made which does not fully conform, this will constitute a breach and vendor will not have the right to substitute a conforming tender. Where the time for performance has not yet expired, the vendor may reasonably notify City of its intention to cure and may then make a conforming tender within the contract time.

### 2.7. Place of Delivery

The place of delivery shall be that set forth in the block of the purchase order entitled "Ship To". The terms of this agreement are "no arrival, no sale".

### 2.8. Invoices and Payments

Vendor shall submit separate invoices on each Purchase Order that indicate the Purchase Order number and supply agreement, if applicable. Invoices shall be itemized and include a copy of the bill of lading and the freight waybill, when applicable. Payment terms will be outlined in the attached draft contract.

Payment may be withheld by City, at the discretion of the City, to vendor until all required documents pertaining to the sale are received by the City.

### 2.9. Gratuities

The City may, by written notice to the vendor, cancel this contract without liability to vendor if it is determined by the City that gratuities were offered from an agent or representative of the vendor to any officer or employee of the City with a view toward securing a contract or securing favorable treatment with respect to the awarding or amending, or the making of any determinations in respect to the performing of such contract. In the event this contract is canceled by City, remedies to recover or withhold the amount of the cost shall be incurred by vendor in providing such gratuities.



## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

#### **2.10. Special Tools and Test Equipment**

If the price stated on the face hereof includes the cost of any special tooling or special test equipment fabricated or required by vendor for the purpose of filling this order, such special tooling equipment and any drawings or related documents thereto shall become the property of the City and to the extent feasible shall be identified by the vendor as such.

#### **2.11. Warranty-Price**

The price to be paid by the City shall be that contained in vendor's bid which vendor warrants to be no higher than vendor's current prices on orders by others for products of the kind and specifications covered by this agreement for similar quantities under similar or like conditions and methods of purchase. In the event vendor breaches this warranty, the prices of the items shall be reduced to the vendor's current prices on orders by others, or in the alternative, reduced to the vendor's current prices on orders by others, or in the alternative, City may cancel this contract without liability to vendor for breach or vendor's actual expense.

The vendor warrants that no person or selling agency has been employed or retained to solicit or secure this contract upon an agreement or understanding for commission, percentage, brokerage, or contingent fee excepting bona fide employees of bona fide established commercial or selling agencies maintained by the vendor for the purpose of securing business. For breach or violation of the warranty, the City shall have the right in addition to any other right or rights to cancel this contract without liability and to deduct from the contract price, or otherwise recover the full amount of such commission, percentage, brokerage, or contingent fee.

#### **2.12. Warranty-Product**

Vendor shall not limit or exclude any implied warranties and any attempt to do so shall render this contract voidable at the option of the City. Vendor warrants that the goods furnished will conform to the specifications, drawings, and descriptions. Any warranties will become into effect on the contract effective date.

#### **2.13. Safety Warranty**

Vendor warrants that the product sold to City shall conform to the standards promulgated by the U.S. Department of Labor under the Occupational Safety and Health Act (OSHA). In the event the product does not conform to OSHA standards, City may return the product for correction or replacement at the vendor's expense. In the event vendor fails to make the appropriate correction within a reasonable time, correction made by City will be at vendor's expense.

#### **2.14. No Warranty by City against Infringements**

As part of this contract for sale, vendor agrees to ascertain whether goods manufactured in accordance with the specifications attached to this agreement will give rise to the rightful claim of any third person by way of infringement or the like. City makes no warranty that the production of goods according to the specification will not give rise to such a claim, and in no event shall City be liable to vendor for indemnification in the event that vendor issued on the grounds of infringement or the like. If vendor is of the opinion that an infringement or the like will result, he will notify City to this effect in writing within two weeks after the signing of the agreement. If City does not receive notice and a claim of infringement is made, vendor will indemnify, defend, and hold harmless City, its Council members, officials, agents, consultants, and employees free and harmless from and against any and all claims, suits, judgments, costs, penalties, fines, damages, and attorneys' fees and expenses asserted by any person or persons. If vendor, in good faith, ascertains that production of the goods in accordance with the specifications will result in infringement or the like, this contract shall be void.

#### **2.15. Right of Inspection**

City shall have the right to inspect the goods at delivery before accepting them. Acceptance of the goods upon delivery should in no way constitute a waiver of any right or privilege contained with this contract or under law.

#### **2.16. Cancellation**

City shall have the right to cancel for default all or any part of the undelivered portion of the order if vendor breaches any of the terms hereof including warranties of vendor or if the vendor becomes insolvent or commits acts of bankruptcy. Such right of cancellation is in addition to and not in lieu of any other remedies which City may have in law or equity.

#### **2.17. Termination**

Performance under this contract may be terminated in whole, or in part by the City in accordance with this provision. Termination performance hereunder shall be effected by the delivery to vendor of a "Notice of Termination" specifying the extent to which performance under this contract is terminated and the date upon which such termination becomes effective.



## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

#### **2.18. Force Majeure**

Neither party shall be held responsible for losses resulting if the fulfillment of any terms or provisions of this contract is delayed or prevented by any cause not within the control of the party whose performance is interfered with, which by the exercise of reasonable diligence said party is unable to prevent.

#### **2.19. Assignment-Delegation**

No right or interest in the contract shall be assigned nor shall any delegation of any obligation made by vendor be valid without the written permission of the City. Any attempted assignment or delegation by vendor shall be wholly void and totally ineffective for all purposes unless made in conformity with this paragraph.

#### **2.20. Waiver**

No claim or right arising out of a breach of this contract can be discharged in whole or in part by a waiver or renunciation of the claim or right unless the waiver or renunciation is supported by consideration and is in writing signed by the aggrieved party.

#### **2.21. Modifications**

This contract can be modified or rescinded only by a writing signed by both of the parties or their duly authorized agents.

#### **2.22. Interpretation-Parol Evidence**

This writing is intended by the parties as a final expression of their agreement and is intended as a complete agreement for dealings between the parties and no usage of the trade shall be relevant to supplement or explain any term used in this agreement. Acceptance or acquiescence in a course of performance rendered under this agreement shall not be relevant to determine the meaning of this agreement even though the accepting or acquiescing party has knowledge of the performance and opportunity for objection. Whenever a term defined by the Uniform Commercial Code is used in the agreement, the definition contained in the Code is to control.

#### **2.23. Applicable Law**

This agreement shall be governed by the Uniform Commercial Code. Whenever the term "Uniform Commercial Code" is used, it shall be construed as meaning the Uniform Commercial Code as adopted in the State of Texas as effective and in force on the date of this agreement.

#### **2.24. Advertising**

Vendor shall not advertise or publish, without City's prior consent, the fact that City has entered into this contract, except to the extent necessary to comply with proper requests for information from an authorized representative of the Federal, State, or Local government.

#### **2.25. Right to Assurance**

Whenever one party to this contract in good faith has reason to question the other party's intent to perform, he may demand that the other party give written assurance of its intent to perform. In the event that a demand is made and no assurance is given within five (5) days, the demanding party may treat this failure as an anticipatory repudiation of the contract.

#### **2.26. Equal Employment Opportunity**

Vendor agrees that during the performance of its contract it will:

- Treat all applicants and employees without discrimination as to race, color, religion, sex, national origin, marital status, age, or handicap.
- Identify itself as an Equal Opportunity Employer in all help wanted advertising or request. The vendor shall be advised of any complaints filed with the City alleging that vendor is not an Equal Opportunity Employer. The City reserves the right to consider its reports from its human relations administrator in response to such complaints in determining whether or not to terminate any portion of this contract for which purchase orders or authorities to deliver have not been included; however, the vendor is specifically advised that no Equal Opportunity Employment complaint will be the basis for cancellation of this contract for which a purchase order has been issued or authority to deliver granted.

All vendors must be Equal Opportunity Employers. Disadvantaged and Minority vendors are encouraged to participate.



## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

#### 2.27. Conflict Of Interest

Vendor agrees to comply with the conflict of interest provisions of the City Of San Angelo Charter and Code of Ordinances. Vendor agrees to maintain current, updated disclosure of information on file with the City Clerk throughout the term of the contract.

Chapter 176 of the Texas Local Government Code requires a vendor who enters or seeks to enter into a contract for the sale or purchase of real property, goods, or services with a local governmental entity or local government officer thereof to file a conflict of interests' disclosure questionnaire with the governmental entity prescribed.

A Conflict of Interest Questionnaire Form (CIQ) – included in the bid forms - must be submitted no later than the seventh (7th) business day after the date the vendor begins discussion, negotiation, applies or responds to a request for proposal or bids, or correspondence in writing related to a potential contract with the local governmental entity.

#### 2.28. Certificate of Interested Parties (Form 1295)

In 2015, the Texas Legislature adopted [House Bill 1295](#), which added section 2252.908 of the Government Code. The law states that a governmental entity or state agency may not enter into certain contracts with a business entity unless the business entity submits a disclosure of interested parties to the governmental entity or state agency at the time the business entity submits the signed contract to the governmental entity or state agency. The law applies only to a contract of a governmental entity or state agency that either (1) requires an action or vote by the governing body of the entity or agency before the contract may be signed or (2) has a value of at least \$1 million. The disclosure requirement applies to a contract entered into on or after January 1, 2016.

##### Filing Process:

On January 1, 2016, the ethics commission made available on its website a new filing application that must be used to file Form 1295. A business entity must use the application to enter the required information on Form 1295 and print a copy of the completed form, which will include a certification of filing that will contain a unique certification number. **An authorized agent of the business entity must sign the printed copy of the form and have the form notarized.** The completed Form 1295 with the certification of filing must be filed with the governmental body or state agency with which the business entity is entering into the contract.

Information regarding how to use the filing application and the application are both available at [https://www.ethics.state.tx.us/whatsnew/elf\\_info\\_form1295.htm](https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm). Instructional videos are available under the heading Instructional Videos for Business Entities.

The Form 1295 must be received, signed and notarized, within thirty (30) days of Council award or the contract may be voided.

#### 2.29. Taxes and Permits

Attention is directed to the requirements of the General Conditions regarding payment of taxes and obtaining permits. All taxes that are lawfully assessed against the City or the selected vendor in connection with the work shall be paid by the vendor. The bid prices shall include all such taxes and the costs of all required permits. The City is exempt from State Sales Tax and Federal Excise Tax.

#### 2.30. Examination of Contract Documents

Each vendor shall thoroughly examine and be familiar with this document, specifications, etc. The submission of a bid shall constitute an acknowledgment that the vendor has thoroughly examined and is familiar with the contract documents. The failure or neglect of a vendor to receive or examine any of the contract documents shall in no way relieve him from any obligations with respect to its bid or to the contract. No claim for extra or additional compensation will be allowed based upon a lack of knowledge of any contract document, and the City will in no case be responsible for any loss or for unanticipated costs that may be suffered by the selected vendor as a result of conditions pertaining to the work.

#### 2.31. Legal Venue

Tom Green County, Texas

#### 2.32. Funds – Price

The vendor submitting the lowest and best bid for each item will establish a price agreement with the City. The item(s) ordered will be selected based on the availability of funds, needs of each user, price, delivery, and value to the City. The City reserves the right to award in the bid in whole, by category or by product.





## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

#### **2.33. Claims for Overcharges**

Vendor hereby assigns to City any and all claims for overcharges associated with this contract which arise under the antitrust laws of the United States, 15 USCA Section 1 et seq., and which arise under the antitrust laws of the State of Texas, Tex. Bus. & Com. Code, Section 15.01, et seq.

#### **2.34. Piggy-Back Procurements**

Other municipalities or public agencies in the State of Texas may be interested in purchasing products as procured through this bid.

Governmental Entities utilizing Inter-Governmental Contracts with the City will be eligible, but not obligated, to purchase materials/services under the contract(s) awarded because of this bid. All purchases by Governmental Entities other than the City will be billed directly to that Governmental Entity and paid by that Governmental Entity. The City will not be responsible for another Governmental Entity's debts. Each Governmental Entity will order their material/services as needed, e.g., Tom Green County, etc.

#### **2.35. Price Escalation**

Price must be firm for each one (1) year term. A price increase shall at no time be more than what similar volume customers would pay (see Warranty-Price). The vendor must provide the City a fifteen (15) day notice for a price escalation request. The vendor must provide cost analysis and/or other documentation to justify any increase, to include industry and industry group level trends and indexes and should not exceed an annual increase of 4% of the originally quoted cost.

The City Manager or their designee may approve a contract term extension with or without a price increase or reduction at their full discretion. An increase in price must be justified in writing or by documentation from the Vendor to the satisfaction of the City Manager or their designee. If no agreement is reached, the City may re-bid the contract.

In certain extenuating circumstances, based on market conditions or situations beyond the vendor's control, the vendor may request a price escalation exceeding the 4% prescribed above. The vendor must provide the City a thirty (30) day notice for price escalation requests exceeding 4% as well as cost analysis information and other documentation justifying the increase. Supporting documentation must also provide enough evidence that such escalation is a result of conditions beyond the vendor's control. Such escalation requests will be reviewed by City Staff and will be subject to approval by the City Council.

#### **2.36. Time of Performance**

This supply agreement will be for one (1) year effective from the bid award date by the City Council. Two (2) additional one (1) year term extensions will be available subject to agreement by both parties.

The vendor must notify the City ninety (90) days prior to the end of each one (1) year term as to their intention to terminate the contract. Terms will renew automatically unless ninety (90) days written notice is given by either party for termination.



## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

### 3. BID SPECIFICATIONS

#### BRASS

#### ANGLE STOP

##### 1. BA0400G

Angle stop shall conform to the following specifications; bronze, 3/4" female national pipe thread inlet, 3/4" swivel meter coupling nut outlet, tee head with lockwing. Angle stop shall have a 100 psi or greater pressure rating. Angle stop shall conform to AWWA C800 latest revision. (Ford KV13-332W) (Mueller H-14265) (James Jones J-1527) (McDonald 4604)

##### 2. BA0401G

Angle stop shall conform to the following specifications; bronze, 1" female national pipe thread inlet, 1" swivel meter coupling nut outlet, tee head with lockwing. Angle stop shall have a 100 psi or greater pressure rating. Angle stop shall conform to AWWA C800 latest revision. (Ford KV13-444W) (Mueller H-14265) (James Jones J-1527) (McDonald 4604)

##### 3. BA0500G

Angle stop shall conform to the following specifications; bronze, 3/4" flared copper inlet with nut, 3/4" swivel meter coupling nut outlet, tee head with lockwing. Angle stop shall have a 100 psi or greater pressure rating. Angle stop shall conform to AWWA C800 latest revision. (Ford KV23-332W) (Mueller H-14255) (James Jones J-1525) (McDonald 4622)

##### 4. BA0501G

Angle stop shall conform to the following specifications; bronze, 1" flared copper inlet with nut, 1" swivel meter coupling nut outlet, tee head with lockwing. Angle stop shall have a 100 psi or greater pressure rating. Angle stop shall conform to AWWA C800 latest revision. (Ford KV23-444W) (Mueller H-14255) (James Jones J-1525) (McDonald 4622)

##### 5. BA0700G

Angle stop shall conform to the following specification; bronze, 3/4" copper tubing compression inlet, 3/4" swivel meter coupling nut outlet, tee head with lockwing. Angle stop shall have a 100 psi or greater pressure rating. Angle stop shall conform to AWWA C800 latest revision. (Ford KV43-332W-G) (Mueller H-14258) (James Jones J-4201) (McDonald 4602)

##### 6. BA0701G

Angle stop shall conform to the following specification; bronze, 1" copper tubing compression inlet, 1" swivel meter coupling nut outlet, tee head with lockwing. Angle stop shall have a 100 psi or greater pressure rating. Angle stop shall conform to AWWA C800 latest revision. (Ford KV43-444W-G) (Mueller H-14258) (James Jones J-4201) (McDonald 4602)

#### CORPORATION VALVE

##### 7. BC0500H

Corporation valve shall conform to the following specifications: bronze, 3/4" standard AWWA corporation valve inlet thread, 3/4" flared copper outlet with nut. Corporation shall have a 100 psi or greater pressure rating. Corporation shall conform to AWWA C800 latest revision. (Ford F600-3) (Mueller H-15000) (James Jones J-1500) (McDonald 4701)

##### 8. BC0501H

Corporation valve shall conform to the following specifications: bronze, 1" standard AWWA corporation valve inlet thread, 1" flared copper outlet with nut. Corporation shall have a 100 psi or greater pressure





## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

rating. Corporation shall conform to AWWA C800 latest revision. (Ford F600-4) (Mueller H-15000) (James Jones J-1500) (McDonald 4701)

#### **9. BC0700H**

Corporation valve shall conform to the following specifications: bronze, 3/4" standard AWWA corporation valve inlet thread, 3/4" copper tubing compression inlet. Corporation shall have a 100 psi or greater pressure rating. Corporation shall conform to AWWA C800 latest revision. (Ford F1000-3-Q) (Mueller H-15008) (James Jones J-3401) (McDonald 4701Q)

#### **10. BC0701H**

Corporation valve shall conform to the following specifications: bronze, 1" standard AWWA corporation valve inlet thread, 1" copper tubing compression inlet. Corporation shall have a 100 psi or greater pressure rating. Corporation shall conform to AWWA C800 latest revision. (Ford F1000-4-Q) (Mueller H-15008) (James Jones J-3401) (McDonald 4701Q)

### **CURB STOP**

#### **11. BE0400D**

Curb stop shall conform to the following specifications: full port ball valve, bronze, with lockwing, 3/4" female national pipe thread by 3/4" female national pipe thread. Curb stop shall have a 100 psi or greater pressure rating. Curb stop shall conform to AWWA C800 latest revision. (Ford B11-333WR) (Mueller 300 W/LKWING) (James Jones 1900-W) (McDonald 6101W)

#### **12. BE0401D**

Curb stop shall conform to the following specifications: full port ball valve, bronze, with lockwing, 1" female national pipe thread by 1" female national pipe thread. Curb stop shall have a 100 psi or greater pressure rating. Curb stop shall conform to AWWA C800 latest revision. (Ford B11-444WR) (Mueller 300 C/LKWING) (James Jones 1900-W) (McDonald 6101 -W)

#### **13. BE0500D**

Curb stop shall conform to the following specifications: full port ball valve, bronze, with lockwing, 3/4" flared copper by 3/4" female national pipe thread. Curb stop shall have a 100 psi or greater pressure rating. Curb stop shall conform to AWWA C800 latest revision. (Ford B21-333WR) (Mueller 300W/LKWING) (James Jones 1901-W) (McDonald 6112-W 4 7/16)

#### **14. BE0501D**

Curb stop shall conform to the following specifications: full port valve, bronze, with lockwing, 1" flared copper by 1" female national pipe thread. Curb stop shall have a 100 psi or greater pressure rating. Curb stop shall conform to AWWA C800 latest revision. (Ford B21-444WR) (Mueller 300 W/LKWING) (James Jones 1901-W) (McDonald 6102-W)

#### **15. BE0503D**

Curb stop shall conform to the following specifications: full port ball valve, bronze, with lockwing, 1 1/4" flared copper by 1 1/4" female national pipe thread. Curb stop shall have a 100 psi or greater pressure rating. Curb stop shall conform to AWWA C800 latest revision. (Ford B21-555WR) (James Jones J-1901W) (Mueller 300W) (McDonald 6102-W)

### **GATE VALVE, BRASS**

#### **16. BG0400D**

Gate valve shall conform to the following specifications: full port gate valve for size stated, 3/4" female national pipe thread by 3/4" female national pipe thread, bronze, non-rising stem, with bronze hand wheel attached, packing approved for potable water. Gate valve shall have a pressure rating of 125 psi SWP.(Hammond) (Milwaukee)



## **CITY OF SAN ANGELO**

### **PURCHASING DIVISION**

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

#### **17. BG0401D**

Gate valve shall conform to the following specifications: Full port gate valve for size stated, 1" female national pipe thread by 1" female national pipe thread, bronze, non-rising stem, with bronze hand wheel attached, packing approved for potable water. Gate valve shall have a pressure rating of 125 psi SWP. (Hammon) (Milwaukee)

#### **18. BG0403D**

Gate valve shall conform to the following specifications: Full port gate valve for size stated, 1¼" female national pipe thread by 1¼" female national pipe thread, bronze, non-rising stem, with bronze hand wheel attached, packing approved for potable water. Gate valve shall have a pressure rating of 125 psi SWP. (Hammond) (Milwaukee)

#### **19. BG0405D**

Gate valve shall conform to the following specifications: Full port gate valve for size stated, 1½" female national pipe thread by 1½" female national pipe thread, bronze, non-rising stem, with bronze hand wheel attached, packing approved for potable water. Gate valve shall have a pressure rating of 125 psi SWP. (Hammond) (Milwaukee)

#### **20. BG0407D**

Gate valve shall conform to the following specifications: Full port gate valve for size stated, 2" female national pipe thread by 2" female national pipe thread, bronze, non-rising stem, with bronze hand wheel attached, packing approved for potable water. Gate valve shall have a pressure rating of 125 psi SWP. (Hammond) (Milwaukee)

### **METER RELOCATOR**

#### **21. CC0309O**

Meter relocater shall conform to the following specifications: 9" riser, 7½" bottom space, for 5/8" by ¾" meter. Relocator shall have a bronze angle stop with tee head and lockwing. Relocator shall conform to AWWA C800 latest revision.

(Ford V42) (Mueller H-1434) (Hays R23W) (McDonald 18 series)

#### **22. CC0312O**

Meter relocater shall conform to the following specifications: 12" riser, 7½" bottom space, for 5/8" by ¾" meter. Relocator shall have a bronze angle stop with tee head and lockwing. Relocator shall conform to AWWA C800 latest revision.

(Ford V42) (Mueller H-1434) (Hays R23W) (McDonald 18 series)

#### **23. CC0410O**

Meter relocater shall conform to the following specifications: 10" riser, 10¾" bottom space, for 1" meter. Relocator shall have a bronze angle stop with tee head and lockwing. Relocator shall conform to AWWA C800 latest revision.

(Ford V44) (Mueller H-1434) (Hays R23W) (McDonald 18 series)

### **METER COUPLING**

#### **24. CD0003O**

Meter coupling shall conform to the following specifications: bronze, machined inside, ¾" male national pipe thread by 1" swivel meter coupling nut, 2½" long, straight, without washer. (Ford C38-23-2.5) (Mueller H-10890) (James Jones J-134) (McDonald 4620)

#### **25. CD0305O**

Meter coupling shall conform to the following specifications: bronze, machined inside, ¾" male national pipe thread by 1" swivel meter coupling nut, 1½" long, straight, without washer. (Ford C38-23-1.5) (Mueller H-10890) (James Jones J-134) (McDonald 4620)



## **CITY OF SAN ANGELO**

### **PURCHASING DIVISION**

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

#### **26. CD00040**

Meter coupling shall conform to the following specifications: bronze, machined inside, 1" male national pipe thread by 1 1/4" swivel meter coupling nut, 2 5/8" long, straight, without washer. (Ford C38-44-2.625) (Mueller H-10890) (James Jones J-134) (McDonald 4620)

#### **27. CD04050**

Meter coupling shall conform to the following specifications: bronze, machined inside, 1" male national pipe thread by 1 1/4" swivel meter coupling nut, 1-1/2" long, straight, without washer. (Ford C38-44-1.5) (Mueller H-10890) (James Jones J-134) (McDonald 4620)

### **BRASS METER ADAPTER**

#### **28. CD03020**

Bronze meter adapter will conform to the following specifications: to adapt 5/8" x 3/4" meter to 3/4" meter length. Adapter shall meet AWWA C800 latest revision. (Ford-A23) (McDonald 10j23)

### **METER FLANGE**

#### **29. CD56000**

Meter flange shall conform to the following specifications: bronze, 2" female national pipe thread, slotted bolt holes to fit 1-1/2" and 2" water meter. (Ford CF31-77) (James Jones J-129) (McDonald 610F) (Mueller H-10129)

### **NIPPLE**

#### **30. HA0203A**

Nipple shall conform to the following specifications; bronze, 1/2" male national pipe threads by 1/2" male national pipe threads, 3" long, domestic made. (Lee) (Merit) (McDonald)

#### **31. HA0204A**

Nipple shall conform to the following specifications; bronze, 1/2" male national pipe threads by 1/2" male national pipe threads, 4" long, domestic made. (Lee) (Merit) (McDonald)

#### **32. HA0206A**

Nipple shall conform to the following specifications; bronze, 1/2" male national pipe threads by 1/2" male national pipe threads, 6" long, domestic made. (Lee) (Merit) (McDonald)

#### **33. HA0301A**

Nipple shall conform to the following specifications; bronze, 3/4" male national pipe threads by 3/4" male national pipe threads, close length, domestic made. (Lee) (Merit) (McDonald)

#### **34. HA0302A**

Nipple shall conform to the following specifications; bronze, 3/4" male national pipe threads by 3/4" male national pipe threads, 2" long, domestic made. (Lee) (Merit) (McDonald)

#### **35. HA0303A**

Nipple shall conform to the following specifications; bronze, 3/4" male national pipe threads by 3/4" male national pipe threads, 3" long, domestic made. (Lee) (Merit) (McDonald)



**CITY OF SAN ANGELO**

**PURCHASING DIVISION**

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

**36. HA0304A**

Nipple shall conform to the following specifications; bronze,  $\frac{3}{4}$ " male national pipe threads by  $\frac{3}{4}$ " male national pipe threads, 4" long, domestic made.

(Lee) (Merit) (McDonald)

**37. HA0306A**

Nipple shall conform to the following specifications; bronze,  $\frac{3}{4}$ " male national pipe threads by  $\frac{3}{4}$ " male national pipe threads, 6" long, domestic made.

(Lee) (Merit) (McDonald)

**38. HA0401A**

Nipple shall conform to the following specifications; bronze, 1" male national pipe threads by 1" male national pipe threads, close length, domestic made.

(Lee) (Merit) (McDonald)

**39. HA0402A**

Nipple shall conform to the following specifications; bronze, 1" male national pipe threads by 1" male national pipe threads, 2" long, domestic made.

(Lee) (Merit) (McDonald)

**40. HA0403A**

Nipple shall conform to the following specifications; bronze, 1" male national pipe threads by 1" male national pipe threads, 3" long, domestic made.

(Lee) (Merit) (McDonald)

**41. HA0404A**

Nipple shall conform to the following specifications; bronze, 1" male national pipe threads by 1" male national pipe threads, 4" long, domestic made. (Lee) (Merit) (McDonald)

**42. HA0406A**

Nipple shall conform to the following specifications; bronze, 1" male national pipe threads by 1" male national pipe threads, 6" long, domestic made.

(Lee) (Merit) (McDonald)

**43. HA0503A**

Nipple shall conform to the following specifications; bronze,  $1\frac{1}{4}$ " male national pipe threads by  $1\frac{1}{4}$ " male national pipe threads, 3" long, domestic made.

(Lee) (Merit) (McDonald)

**44. HA0506A**

Nipple shall conform to the following specifications; bronze,  $1\frac{1}{4}$ " male national pipe threads by  $1\frac{1}{4}$ " male national pipe threads, 6" long, domestic made.

(Lee) (Merit) (McDonald)

**45. HA0601A**

Nipple shall conform to the following specifications; bronze,  $1\frac{1}{2}$ " male national pipe threads by  $1\frac{1}{2}$ " male national pipe threads, close length, domestic made.

(Lee) (Merit) (McDonald)

**46. HA0603A**

Nipple shall conform to the following specifications; bronze,  $1\frac{1}{2}$ " male national pipe threads by  $1\frac{1}{2}$ " male national pipe threads, 3" long, domestic made.

(Lee) (Merit) (McDonald)



## **CITY OF SAN ANGELO**

### **PURCHASING DIVISION**

72 West College Avenue, San Angelo, Texas 76903  
Tel: (325) 657-4219

#### **47. HA0606A**

Nipple shall conform to the following specifications; bronze, 1½" male national pipe threads by 1½" male national pipe threads, 6" long, domestic made.

(Lee) (Merit) (McDonald)

#### **48. HA0701A**

Nipple shall conform to the following specifications; bronze, 2" male national pipe threads by 2" male national pipe threads, close length, domestic made.

(Lee) (Merit) (McDonald)

#### **49. HA0703A**

Nipple shall conform to the following specifications; bronze, 2" male national pipe threads by 2" male national pipe threads, 3" long, domestic made.

(Lee) (Merit) (McDonald)

#### **50. HA0704A**

Nipple shall conform to the following specifications; bronze, 2" male national pipe threads by 2" male national pipe threads, 4" long, domestic made.

(Lee) (Merit) (McDonald)

#### **51. HA0706A**

Nipple shall conform to the following specifications; bronze, 2" male national pipe threads by 2" male national pipe threads, 6" long, domestic made.

(Lee) (Merit) (McDonald)

#### **52. HA0710A**

Nipple shall conform to the following specifications; bronze, 2" male national pipe threads by 2" male national pipe threads, 10" long, domestic made.

(Lee) (Merit) (McDonald)

### **BRASS MALE ADAPTERS**

#### **53. KA0202C**

Male adapter will conform to the following specifications: bronze, 3/4" male iron pipe thread by 3/4" flare copper tubing. Male adapter shall meet AWWA C800 latest revision.

(Mueller-H15427) (Ford-C28-33) (James Jones-J-1531) (McDonald 4753)

#### **54. KA0303B**

Male adapters will conform to the following specifications: bronze, 1" male iron pipe thread by 1" flare copper tubing. Male adapters shall meet AWWA C800 latest revision.

(Mueller-H15427) (Ford-C28-44) (James Jones-J-1531) (McDonald 4753)

#### **55. KA0306B**

Male adapters will conform to the following specifications: bronze, 2" male iron pipe thread by 2" flare copper tubing. Male adapters shall meet AWWA C800 latest revision.

(Mueller-H15427) (Ford-C28-77) (James Jones-J-1531) (McDonald 4753)

#### **56. KA0402B**

Male adapters will conform to the following specifications: bronze, ¾" male iron pipe thread by ¾" compression copper tubing. Male adapters shall meet AWWA C800 latest revision. (Mueller-H15428)

(Ford-C84-33Q) (James Jones-J-2605) (McDonald 4753-Q)

#### **57. KA0403A**

Male adapters will conform to the following specifications: bronze, 1" male iron pipe thread by 1" compression copper tubing. Male adapters shall meet AWWA C800 latest revision. (Mueller-H15428)

(Ford-C84-44Q) (James Jones-J-2605) (McDonald 4753-Q)



### **BRASS COUPLING**

**58. KB0102A**

Coupling will conform to the following specifications; bronze, 3/4" female national pipe thread by 3/4" female national pipe thread, domestic made.(Lee) (Merit) (McDonald)

**59. KB0103A**

Coupling will conform to the following specifications; bronze, 1" female national pipe thread by 1" female national pipe thread, domestic made.  
(Lee) (Merit) (McDonald)

**60. KB0106A**

Coupling will conform to the following specifications; bronze, 2" female national pipe thread by 2" female national pipe thread, domestic made.  
(Lee) (Merit) (McDonald)

### **BRASS LEAD ADAPTERS**

**61. KB0602F**

Lead adapters will conform to the following specifications: bronze, 3/4" (inlet) lead flange thread (outlet) flare copper tubing. Lead adapters shall meet AWWA C800 latest revision. (Mueller-H15505) (James Jones-J-1555) (Ford-LFSC2-33)

**62. KB0603F**

Lead adapters will conform to the following specifications: bronze, 1" (inlet) lead flange thread (outlet) flare copper tubing. Lead adapters shall meet AWWA C800 latest revision. (Mueller-H15505) (James Jones-J-1555) (Ford-LFC244)

### **BRASS TEE**

**63. KC0102A**

Tee will conform to the following specifications: bronze, 3/4" female national pipe thread by 3/4" female national pipe thread by 3/4" female national pipe thread, domestic made.  
(Lee) (Merit) (McDonald)

**64. KC0103A**

Tee will conform to the following specifications: bronze, 1" female national pipe thread by 1" female national pipe thread by 1" female national pipe thread, domestic made.  
(Lee) (Merit) (McDonald)

**65. KC0106A**

Tee will conform to the following specifications: bronze, 2" female national pipe thread by 2" female national pipe thread by 2" female national pipe thread, domestic made.  
(Lee) (Merit) (McDonald)

### **BRASS PLUGS**

**66. KD0201O**

Plugs shall conform to the following specifications: bronze, square head, 1/2" male national pipe thread, domestic made.(Lee) (Merit) (McDonald)

**67. KD0202O**

Plugs shall conform to the following specifications; bronze, square head, 3/4" male national pipe thread, domestic made.(Lee) (Merit) (McDonald)



**68. KD0203O**

Plugs shall conform to the following specifications; bronze, square head, 1" male national pipe thread, domestic made. (Lee) (Merit) (McDonald)

**69. KD0206O**

Plugs shall conform to the following specifications; bronze, square head, 2" male national pipe thread, domestic made. (Lee) (Merit) (McDonald)

**70. KD0207O**

Plugs shall conform to the following specifications; bronze, square head, 1/4" male national pipe thread, domestic made. (Lee) (Merit) (McDonald)

**90 DEGREE ELBOW**

**71. KE0102A**

90 degree elbow shall conform to the following specifications: bronze, 3/4" female national pipe thread by 3/4" female national pipe thread, domestic made.  
(Lee) (Merit) (McDonald)

**72. KE0103A**

90 degree elbow shall conform to the following specifications; bronze, 1" female national pipe thread by 1" female national pipe thread, domestic made.  
(Lee) (Merit) (McDonald)

**73. KE0106A**

90 degree elbow shall conform to the following specifications; bronze, 2" female national pipe thread by 2" female national pipe thread, domestic made.  
(Lee) (Merit) (McDonald)

**90 DEGREE STREET ELBOW**

**74. KE0706H**

90 degree street elbow shall conform to the following specifications; bronze, 2" female national pipe thread by 2" male national pipe thread, domestic made.  
(Lee) (Merit) (McDonald)

**75. KE0103H**

90 degree street elbow shall conform to the following specifications; bronze, 1" female national pipe thread by 1" male national pipe thread, domestic made.  
(Lee) (Merit) (McDonald)

**TWO-PART UNIONS**

**76. KG0302D**

Two-part unions will conform to the following specifications; bronze, 3/4" flare copper by 3/4" flare copper tubing. Union adapters shall meet AWWA C800 latest revision.  
Mueller-H15405) (James Jones-J-1529) (Ford-CS22-33) (McDonald 4756)

**77. KG0303D**

Two-part unions will conform to the following specifications: bronze, 1" flare copper by 1" flare copper tubing. Union adapters shall meet AWWA C800 latest revision.  
(Mueller-H15405) (James Jones-J-1529) (Ford-CS22-44) (McDonald 4756)





### **THREE PART UNIONS**

**78. KH0302G**

Three-part unions will conform to the following specifications: bronze, 3/4" flare copper by 3/4" flare copper tubing. Union adapters shall meet AWWA C800 latest revision.  
(Mueller-H15400) (James Jones-J-1528) (Ford-C22-33) (McDonald 4758)

**79. KH0303G**

Three-part unions will conform to the following specifications: bronze, 1" flare copper by 1" flare copper tubing. Union adapters shall meet AWWA C800 latest revision.  
(Mueller-H15400) (James Jones-J-1528) (Ford-C22-44) (McDonald 4758)

### **THREE PART UNION**

**80. KH0402D**

Union shall conform to the following specifications; bronze, three part union, 3/4" compression copper tubing by 3/4" compression copper tubing. Union shall meet AWWA C800 latest revision.(Ford C44-33-Q)  
(Mueller H-15403) (James Jones J-2609) (McDonald 4758-Q)

**81. KH0403D**

Union shall conform to the following specifications; bronze, three part union, 1" compression copper tubing by 1" compression copper tubing. Union shall meet AWWA C800 latest revision. (Ford C44-44-Q)  
(Mueller H-15403) (James Jones J-2609) (McDonald 4758-Q)

### **QUARTER BEND ADAPTER**

**82. KI0202D**

Quarter bend adapter shall conform to the following specifications; bronze, 3/4" male national pipe thread by 3/4" compression copper tubing. Quarter bend adapter shall meet AWWA C800 latest Revision.  
(Mueller H-15531F) (James Jones J-2619) (McDonald 4779-Q) (FORD L84-33-Q)

**83. KI0203D**

Quarter bend adapter shall conform to the following specifications; bronze, 1" male national pipe thread by 1" compression copper tubing. Quarter bend adapter shall meet AWWA C800 latest Revision. (Mueller H-15531F) (James Jones J-2619) (McDonald 4779-Q) (FORD L84-44-Q)

**84. KI0202G**

Quarter bend adapter shall conform to the following specifications; bronze, 3/4" male national pipe thread by 3/4" flared copper with nut. Quarter bend adapter shall meet AWWA C800 latest revision.  
(Ford L28-33) (Mueller H-15530) (James Jones J-1550) (McDonald 4779-Q)

**85. KI0203G**

Quarter bend adapter shall conform to the following specifications; bronze, 1" male national pipe thread by 1" flared copper with nut. Quarter bend adapter shall meet AWWA C800 latest revision. (Ford L28-44)  
(Mueller H-15530) (James Jones J-1550) (McDonald 4779-Q)

### **BRONZE FLARE NUTS**

**86. KP0502A**

Bronze flare nut will conform to the following specifications: bronze, 3/4" flare copper by 3/4" female iron pipe thread. Flare nuts shall meet AWWA C800 latest revision.  
(Ford-C01-33)





**87. KP0503A**

Bronze flare nut will conform to the following specifications: bronze, 1" flare copper by 1" female iron pipe thread. Flare nuts shall meet AWWA C800 latest revision.  
(Ford-C01-44)

**BUSHING**

**88. MA0102A**

Bushing shall conform to the following specifications; bronze,  $\frac{3}{4}$ " machined male end national pipe thread by  $\frac{1}{2}$ " female national pipe thread, domestic made.  
(Merit) (Lee) (Ford C18-13) (McDonald)

**89. MA0103B**

Bushing shall conform to the following specifications; bronze, 1" machined male end national pipe thread by  $\frac{3}{4}$ " female national pipe thread, domestic made.  
(Merit) (Lee) (Ford C18-34) (McDonald)

**90. MA0104B**

Bushing shall conform to the following specifications; bronze,  $1\frac{1}{4}$ " machined male end national pipe thread by  $\frac{3}{4}$ " female national pipe thread, domestic made.  
(Merit) (Lee) (Ford C18-35) (McDonald)

**91. MA0104C**

Bushing shall conform to the following specifications; bronze,  $1\frac{1}{4}$ " machined male end national pipe thread by 1" female national pipe thread, domestic made.  
(Merit) (Lee) (Ford C18-45) (McDonald)

**92. MA0107C**

Bushing shall conform to the following specifications; bronze, 2" machined male end national pipe thread by 1" female national pipe thread, domestic made.  
(Merit) (Lee) (Ford C18-47) (McDonald)

**93. MA0203B**

Bushing shall conform to the following specifications; bronze, 1" male cc thread by  $\frac{3}{4}$ " female cc thread, domestic made. (Merit) (Lee) (Ford BBAA-43) (McDonald)

**CAST IRON**

**ADJUSTABLE VALVE BOX WITH LID**

**BS0025O, BS0026O, BS0028O**

Valve box and lid shall conform to the following specifications; cast iron shall meet ASTM A-48-84 class 30 standards latest revision, box shall be screw type adjustable, lid shall be non-locking type, box and lid shall be coated with bituminous emulsified asphalt, three piece construction required to make one (1) complete adjustable assembly. Lid shall be marked "WATER". Smallest nominal internal dimension shall be  $5\frac{1}{4}$ ". Nominal heights and weights as follows:

**94. BS0025O**

Lid. Nominal weight 15 lbs.(East Jordan Iron Works Inc. #06800001 Adjustable Valve Boxes, Screw Type)

**95. BS0026O**

Top Section. Nominal height 10". Nominal weight 25 lbs.  
(East Jordan Iron Works Inc. #85507010 Adjustable Valve Boxes, Screw Type)



**96. BS00280**

Bottom Section. Nominal height 15". Nominal weight 34 lbs.  
(East Jordan Iron Works Inc #85506015 Adjustable Valve Boxes, Screw Type)

**OVAL METER BOX**

**97. CB0011P**

Meter box shall conform to the following specifications; high density polyethylene, white exterior/white interior. Box shall be oval in shape to fit #11 cast iron meter box lid. Nominal outside dimensions shall be 11¼"x17½"x10" high. Nominal lid opening shall be 9½"x13". Nominal weight of box shall be six lbs.  
(East Jordan Iron Works, Inc. #32411500)

**OVAL METER BOX LID**

**98. CB0011B**

Meter box lid shall conform to the following specifications; cast iron shall meet ASTM A-48-84 class 30 standards latest revision, lid shall be oval in shape, lid shall be coated with bituminous emulsified asphalt, lid shall be non-locking type. Lid shall be marked with "CITY OF SAN ANGELO WATER DEPT". Nominal weight of lid shall be 15 lbs.  
(East Jordan Iron Works #32111301 Lid)

**RECTANGULAR METER BOX LID**

**99. CB0019C**

Meter box lid shall conform to the following specifications; cast iron shall meet ASTM A-48-84 class 30 standards latest revision, lid shall be rectangular in shape, lid shall be coated with bituminous emulsified asphalt, lid shall be non-locking type. Nominal weight of lid shall be 35 lbs.. (East Jordan Iron Works Inc. #32131324)

**RECTANGULAR METER BOX**

**100. CB0019P**

Meter box shall conform to the following specifications: Constructed of Linear Medium Density Polyethylene (LMDPE) as defined in ASTM D-883-95A and have a minimum wall thickness of .500". The exterior shall be black to provide UV protection and the interior shall be bright white to ease meter reading. Boxes shall be able to with stand a minimum 15,000 pounds (vertical) and 400 pounds side wall load. The nominal weight of the box shall be 18 lbs. Nominal outside dimensions shall be 13 3/4" X 23 1/8" X 12" high. The Meter Box shall be an East Jordan Iron Works Inc (32144001).

**CLEAN OUT BOOT**

**101. UA0001P**

Boot shall conform to the following specifications; cast iron shall meet ASTM A-48-84 class 30 revision, nominal dimension of boot shall be 18 1/8" wide, 28" long, and 10½" high. Nominal weight of boot shall be 92 lbs. (East Jordan Iron Works Inc #00847511)

**CLEAN OUT LID**

**102. UB0002O**

Lid shall conform to the following specifications; cast iron shall meet ASTM A-48-84 class 30 latest revision, lid shall be coated with bituminous emulsified asphalt. Nominal outside diameter of lid shall be 7½". Lid shall have two 7/8" diameter pick holes and three locking horns which engage the boot and secure the lid when it has been rotated.  
(East Jordan Iron Works Inc #0084752)



## **MANHOLE RING**

### **103. UD00110**

Ring shall conform to the following specifications; cast iron shall meet ASTM A-48-84 class 30 standards latest revision, ring shall be bottom flange type, ring shall be coated with bituminous emulsified asphalt. Nominal outside dimension of ring shall be 32". Ring shall accept 24" lid. Ring shall have a H-20 load rating. Nominal weight of ring shall be 165 lbs. (East Jordan Iron Works Inc 00117711)

## **MANHOLE LID**

### **104. UE00120**

Lid shall conform to the following specifications; cast iron shall meet ASTM A-48-84 class 30 standards latest revision, lid shall have cast iron pick bar lifting option, lid shall be coated with a bituminous emulsified asphalt. Nominal outside dimension shall be 24". Lid shall be marked "CITY OF SAN ANGELO SEWER". Lid shall have a H-20 load rating. Nominal weight of lid shall be 135 lbs. (East Jordan Iron Works Inc 00117738)

## **DUCTILE IRON AND CAST IRON FITTINGS**

All ductile and cast fitting shall conform to the following specifications; AWWA C153 SSB short body ductile iron fittings, these fittings will be required first on bid, if the short body ductile iron fittings are not available the C110 cast iron fittings will be acceptable, mechanical joint, with Ford or Ebba restraint Kit accessories and Epoxy Coated inside and out. For C-900 pipe. (Tyler Domestic & Tyler Non-Domestic)

## **90 DEGREE BEND CAST FITTING**

### **105. GA01040**

Cast fitting shall conform to the following specifications; 90 degree bend C153 SSB or C110 mechanical joint ductile fitting, 4" mechanical joint by 4" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

### **106. GA01060**

Cast fitting shall conform to the following specifications; 90 degree bend, C153 SSB or C110 mechanical joint ductile fitting, 6" mechanical joint by 6" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

### **107. GA01080**

Cast fitting shall conform to the following specifications; 90 degree bend, C153 SSB or C110 mechanical joint ductile fitting, 8" mechanical joint by 8" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

### **108. GA01100**

Cast fitting shall conform to the following specifications; 90 degree bend, C153 SSB or C110 mechanical joint ductile fitting, 10" mechanical joint by 10" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

### **109. GA01120**

Cast fitting shall conform to the following specifications; 90 degree bend, C153 SSB or C110 mechanical joint ductile fitting, 12" mechanical joint by 12" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

### **110. GA01160**

Cast fitting shall conform to the following specifications; 90 degree bend, C153 SSB or C110 mechanical joint ductile fitting, 16" mechanical joint by 16" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.



## **45 DEGREE BEND CAST FITTING**

### **111. GB01040**

Cast fitting shall conform to the following specifications; 45 degree bend, C153 SSB or C110 mechanical joint ductile fitting, 4" mechanical joint by 4" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

### **112. GB01060**

Cast fitting shall conform to the following specifications; 45 degree bend, C153 SSB or C110 mechanical joint ductile fitting, 6" mechanical joint by 6" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

### **113. GB01080**

Cast fitting shall conform to the following specifications; 45 degree bend, C153 SSB or C110 mechanical joint ductile fitting, 8" mechanical joint by 8" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

### **114. GB01100**

Cast fitting shall conform to the following specifications; 45 degree bend, C153 SSB or C110 mechanical joint ductile fitting, 10" mechanical joint by 10" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

### **115. GB01120**

Cast fitting shall conform to the following specifications; 45 degree bend, C153 SSB or C110 mechanical joint ductile fitting, 12" mechanical joint by 12" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

### **116. GB01160**

Cast fitting shall conform to the following specifications; 45 degree bend, C153 SSB or C110 mechanical joint ductile fitting, 16" mechanical joint by 16" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

### **117. GC01040**

Cast fitting shall conform to the following specifications; 22½ degree bend, C153 SSB or C110 mechanical joint ductile fitting, 4" mechanical joint by 4" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

### **118. GC01060**

Cast Fitting shall conform to the following specifications; 22½ degree bend, C153 SSB or C110 mechanical joint ductile fitting, 6" mechanical joint by 6" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

### **119. GC01080**

Cast fitting shall conform to the following specifications; 22½ degree bend, C153 SSB C110 mechanical joint ductile fitting, 8" mechanical joint by 8" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

### **120. GC01100**

Cast fitting shall conform to the following specifications; 22½ degree bend, C153 SSB or C110 mechanical joint ductile fitting, 10" mechanical joint by 10" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.



## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

#### **121. GC01120**

Cast fitting shall conform to the following specifications; 22½ degree bend, C153 SSB or C110 mechanical joint ductile fitting, 12" mechanical joint by 12" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

#### **122. GC01160**

Cast fitting shall conform to the following specifications; 22½ degree bend, C153 SSB or C110 mechanical joint ductile fitting, 16" mechanical joint by 16" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

### **TEE CAST FITTING**

#### **123. GD0104B**

Cast fitting shall conform to the following specifications; Straight tee, C153 SSB or C110 mechanical joint ductile fitting, 4" mechanical joint by 4" mechanical joint by 4" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

#### **124. GD0106B**

Cast fitting shall conform to the following specifications; straight tee, C153 SSB or C110 mechanical joint ductile fitting, 6" mechanical joint by 6" mechanical joint, by 4" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

#### **125. GD0106C**

Cast fitting shall conform to the following specifications; straight tee, C153 SSB or C110 mechanical joint ductile fitting, 6" mechanical joint by 6" mechanical joint by 6" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

#### **126. GD0108B**

Cast fitting shall conform to the following specifications; straight tee, C153 SSB or C110 mechanical joint ductile fitting, 8" mechanical joint by 8" mechanical joint by 4" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

#### **127. GD0108C**

Cast fitting shall conform to the following specifications; straight tee, C153 SSB or C110 mechanical joint ductile fitting, 8" mechanical joint by 8" mechanical joint by 6" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

#### **128. GD0108D**

Cast fitting shall conform to the following specifications; straight tee, C153 SSB or C110 mechanical joint ductile fitting, 8" mechanical joint by 8" mechanical joint by 8" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision. (Tyler 5-120 or 5-620)

#### **129. GD0112B**

Cast fitting shall conform to the following specifications; straight tee, C153 SSB or C110 mechanical joint ductile fitting, 12" mechanical joint by 12" mechanical joint by 4" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

#### **130. GD0112C**

Cast fitting shall conform to the following specifications; straight tee, C153 SSB or C110 mechanical joint ductile fitting, 12" mechanical joint by 12" mechanical joint by 6" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.



## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

#### **131. GD0112E**

Cast fitting shall conform to the following specifications; straight tee, C153 SSB or C110 mechanical joint ductile fitting, 12" mechanical joint by 12" mechanical joint by 10" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

#### **132. GD0112F**

Cast fitting shall conform to the following specifications; straight tee, C153 SSB or C110 mechanical joint ductile fitting, 12" mechanical joint by 12" mechanical joint by 12" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

#### **133. GD0116F**

Cast fitting shall conform to the following specifications; straight tee, C153 SSB or C110 mechanical joint ductile fitting, 16" mechanical joint by 16" mechanical joint by 12" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

#### **134. GD0116H**

Cast fitting shall conform to the following specification; straight tee, C153 SSB or C110 mechanical joint ductile fitting, 16" mechanical joint by 16" mechanical joint by 16" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

### **CROSS CAST FITTING**

#### **135. GE0104B**

Cast fitting shall conform to the following specifications; straight cross, C153 SSB or C110 mechanical joint ductile fitting, 4" mechanical joint by 4" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

#### **136. GE0106B**

Cast fitting shall conform to the following specifications; straight cross, C153 SSB or C110 mechanical joint ductile fitting, 6" mechanical joint by 4" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

#### **137. GE0106C**

Cast fitting shall conform to the following specifications; straight cross, C153 SSB or C110 mechanical joint ductile fitting, 6" mechanical joint by 6" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

#### **138. GE0108B**

Cast Fitting shall conform to the following specifications; straight cross, C153 SSB or C110 mechanical joint ductile fitting, 8" mechanical joint by 4" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

#### **139. GE0108C**

Cast fitting shall conform to the following specifications; straight cross, C153 SSB or C110 mechanical joint ductile fitting, 8" mechanical joint by 6" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

#### **140. GE0108D**

Cast fitting shall conform to the following specification; straight cross, C153 SSB or C110 mechanical joint ductile fitting, 8" mechanical joint by 8" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.



**141. GE0112C**

Cast fitting shall conform to the following specifications; straight cross, C153 SSB or C110 mechanical ductile fitting, 12" mechanical joint by 6" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

**142. GE0112D**

Cast fitting shall conform to the following specifications; straight cross, C153 SSB or C110 mechanical ductile fitting, 12" mechanical joint by 8" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

**143. GE0112F**

Cast fitting shall conform to the following specifications; straight cross, C153 SSB or C110 mechanical joint ductile fitting, 12" mechanical joint by 12" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

**PLUG CAST FITTING**

**144. GF0104O**

Cast fitting shall conform to the following specifications; plug, C153 SSB or C110 mechanical ductile fitting, 4" mechanical joint, with accessories, Fitting shall meet AWWA C110 latest revisions.

**145. GF0106O**

Cast fitting shall conform to the following specifications; plug, C153 SSB or C110 mechanical ductile fitting, 6" mechanical joint, with accessories, Fitting shall meet AWWA C110 latest revisions.

**146. GF0108O**

Cast fitting shall conform to the following specifications; plug, C153 SSB or C110 mechanical joint ductile fitting, 8" mechanical joint, with accessories. Fitting shall meet AWWA C110 latest revisions.

**147. GF0110O**

Cast fitting shall conform to the following specifications; plug, C153 SSB or C110 mechanical joint ductile fitting, 10" mechanical joint, with accessories. Fitting shall meet AWWA C110 latest revisions.

**148. GF0112O**

Cast fitting shall conform to the following specifications; plug, C153 SSB or C110 mechanical joint ductile fitting, 12" mechanical joint, with accessories. Fitting shall meet AWWA C110 latest revisions.

**149. GF0116O**

Cast fitting shall conform to the following specifications; plug, C153 SSB or C110 mechanical ductile fitting, 16" mechanical joint, with accessories. Fitting shall meet AWWA C110 latest revisions.

**150. GF0204O**

Cast fitting shall conform to the following specifications; cap, C153 SSB or C110 mechanical ductile fitting, 4" mechanical joint, with accessories. Fitting shall meet AWWA C110 latest revisions.

**151. GF0206O**

Cast fitting shall conform to the following specifications; cap, C153 SSB or C110 mechanical ductile fitting, 6" mechanical joint, with accessories. Fitting shall meet AWWA C110 latest revisions.

**152. GF0208O**

Cast fitting shall conform to the following specifications; cap, C153 SSB or C110 mechanical ductile fitting, 8" mechanical joint, with accessories. Fitting shall meet AWWA C110 latest revisions.





## **CITY OF SAN ANGELO**

### **PURCHASING DIVISION**

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

#### **153. GF02100**

Cast fitting shall conform to the following specifications; cap, C153 SSB or C110 mechanical ductile fitting, 10" mechanical joint, with accessories. Fitting shall meet AWWA C110 latest revisions.

#### **154. GF02120**

Cast fitting shall conform to the following specifications; cap, C153 SSB or C110 mechanical ductile fitting, 12" mechanical joint, with accessories. Fitting shall meet AWWA C110 latest revisions.

#### **155. GF02160**

Cast fitting shall conform to the following specifications; cap, C153 SSB or C110 mechanical ductile fitting, 16" mechanical joint, with accessories. Fitting shall meet AWWA C110 latest revisions.

#### **156. GF03040**

Cast fitting shall conform to the following specifications; plug, C153 SSB or C110 compact ductile fitting, 4" push-on (slip) for c-900. Fitting shall meet AWWA C110 latest revisions.

#### **157. GF03060**

Cast fitting shall conform to the following specifications; plug, C153 SSB or C110 compact ductile fitting, 6" push-on (slip) for c-900. Fitting shall meet AWWA C110 latest revisions.

#### **158. GF03080**

Cast fitting shall conform to the following specifications; plug, C153 SSB or C110 compact ductile fitting, 8" push-on (slip) for c-900. Fitting shall meet AWWA C110 latest revisions.

#### **159. GF03100**

Cast fitting shall conform to the following specifications; plug, C153 SSB or C110 compact ductile fitting, 10" push-on (slip) for c-900. Fitting shall meet AWWA C110 latest revisions.

#### **160. GF03120**

Cast fitting shall conform to the following specifications; plug, C153 SSB or C110 compact ductile fitting, 12" push-on (slip) for c-900. Fitting shall meet AWWA C110 latest revisions.

#### **161. GF03160**

Cast fitting shall conform to the following specifications; plug, C153 SSB or C110 compact ductile fitting, 16" push-on (slip) for c-900. Fitting shall meet AWWA C110 latest revisions.

### **REDUCER CAST FITTING**

#### **162. GG0104A**

Cast Fitting shall conform to the following specifications; reducer, C153 SSB or C110 mechanical ductile fitting, 4" mechanical joint by 2" mechanical joint, with accessories, cement lined. Fitting shall conform to AWWA C110 latest revisions.

#### **163. GG0106B**

Cast fitting shall conform to the following specifications; reducer, C153 SSB or C110 mechanical joint ductile fitting, 6" mechanical joint by 4" mechanical joint, with accessories, cement lined. Fitting shall conform to AWWA C110 latest revisions.

#### **164. GG0108B**

Cast fitting shall conform to the following specifications; reducer, C153 SSB or C110 mechanical ductile fitting, 8" mechanical joint by 4" mechanical joint, with accessories, cement lined. Fitting shall conform to AWWA C110 latest revisions.





**165. GG0108C**

Cast fitting shall conform to the following specifications; reducer, C153 SSB or C110 mechanical ductile fitting, 8" mechanical joint by 6" mechanical joint, with accessories, cement lined. Fitting shall conform to AWWA C110 latest revisions.

**166. GG0112B**

Cast fitting shall conform to the following specifications; reducer, C153 SSB or C110 mechanical ductile fitting, 12" mechanical joint by 4" mechanical joint, with accessories, cement lined. Fitting shall conform to AWWA C110 latest revisions.

**167. GG0112C**

Cast fitting shall conform to the following specifications; reducer, C153 SSB or C110 mechanical ductile fitting, 12" mechanical joint by 6" mechanical joint, with accessories, cement lined. Fitting shall conform to AWWA C110 latest revisions.

**168. GG0112D**

Cast fitting shall conform to the following specifications; reducer, C153 SSB or C110 mechanical ductile fitting, 12" mechanical joint by 8" mechanical joint, with accessories, cement lined. Fitting shall conform to AWWA C110 latest revisions.

**169. GG0112E**

Cast fitting shall conform to the following specifications; reducer, C153 SSB or C110 mechanical joint ductile fitting, 12" mechanical joint by 10" mechanical joint, with accessories, cement lined. Fitting shall conform to AWWA C110 latest revisions.

**170. GG0116C**

Cast fitting shall conform to the following specifications; reducer, C153 SSB or C110 mechanical joint ductile fitting, 16" mechanical joint by 6" mechanical joint, with accessories, cement lined. Fitting shall conform to AWWA C110 latest revisions,

**171. GG0116F**

Cast fitting shall conform to the following specifications; reducer, C153 SSB or C110 mechanical joint ductile fitting, 16" mechanical joint by 12" mechanical joint, with accessories, cement lined. Fitting shall conform to AWWA C110 latest revision.

**SWIVEL ADAPTER CAST FITTING**

**172. GH0104O**

Cast fitting shall conform to the following specifications; swivel adapter, C153 SSB or C110 mechanical joint ductile fitting, 4" pipe size by 13" long, mechanical joint by swivel, with accessories. Fitting shall conform to AWWA C110 latest revisions.

**173. GH0106O**

Cast fitting shall conform to the following specifications; swivel adapter, C153 SSB or C110 mechanical joint ductile fitting, 6" pipe size by 13" long, mechanical joint by swivel, with accessories. Fitting shall conform to AWWA C110 latest revisions.

**174. GH0108O**

Cast fitting shall conform to the following specifications; swivel adapter, C153 SSB or C110 mechanical ductile fitting, 8" pipe size by 13" long, mechanical joint by swivel, with accessories. Fitting shall conform to AWWA C110 latest revisions.



## **CITY OF SAN ANGELO**

### **PURCHASING DIVISION**

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

#### **175. GH01100**

Cast fitting shall conform to the following specifications; swivel adapter, C153 SSB or C110 mechanical ductile fitting, 10" pipe size by 13" long, mechanical joint by swivel, with accessories. Fitting shall conform to AWWA C100 latest revisions.

#### **176. GH01120**

Cast fitting shall conform to the following specifications; swivel adapter, C153 SSB or C110 mechanical ductile fitting, 12" pipe size by 13" long, mechanical joint by swivel, with accessories. Fitting shall conform to AWWA C110 latest revisions.

### **SWIVEL TEE CAST FITTING**

#### **177. GI0106C**

Cast fitting shall conform to the following specifications; straight tee, swivel branch, C153 SSB or C110 mechanical joint ductile fitting, 6" mechanical joint by 6" mechanical joint by 6" swivel, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

#### **178. GI0108C**

Cast fitting shall conform to the following specifications; straight tee, swivel branch, C153 SSB or C110 mechanical joint ductile fitting, 8" mechanical joint by 6" mechanical joint by 6" swivel, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

### **11 1/4 DEGREE BEND CAST FITTING**

#### **179. GS01040**

Cast fitting shall conform to the following specifications; 11¼ degree bend, C153 SSB or C110 mechanical joint ductile fitting, 4" mechanical joint by 4" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

#### **180. GS01060**

Cast fitting shall conform to the following specifications; 11¼ degree bend, C153 SSB or C110 mechanical joint ductile fitting, 6" mechanical joint by 6" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

#### **181. GS01080**

Cast fitting shall conform to the following specifications; 11¼ degree bend, C153 SSB or C110 mechanical ductile fitting, 8" mechanical joint by 8" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

#### **182. GS01100**

Cast fitting shall conform to the following specifications; 11¼ degree bend, C153 SSB or C110 mechanical ductile fitting, 10" mechanical joint by 10" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

#### **183. GS01120**

Cast fitting shall conform to the following specifications; 11¼ degree bend, C153 SSB or C110 mechanical joint ductile fitting, 12" mechanical joint by 12" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

#### **184. GS01160**

Cast fitting shall conform to the following specifications; 11¼ degree bend, C153 SSB or C110 mechanical joint ductile fitting, 16" mechanical joint by 16" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.



## **SOLID SLEEVE CAST FITTING**

### **185. IE0404B**

Cast fitting shall conform to the following specifications; solid sleeve, standard, C153 SSB or C110 mechanical joint ductile fitting, 4" mechanical joint by 4" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

### **186. IE0406B**

Cast fitting shall conform to the following specifications; solid sleeve, standard, C153 SSB or C110 mechanical joint ductile fitting, 6" mechanical joint by 6" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

### **187. IE0408B**

Cast fitting shall conform to the following specifications; solid sleeve standard, C153 SSB or C110 mechanical joint ductile fitting, 8" mechanical joint by 8" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

### **188. IE0410B**

Cast fitting shall conform to the following specifications; solid sleeve, standard, C153 SSB or C110 mechanical joint ductile fitting, 10" mechanical joint by 10" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

### **189. IE0412B**

Cast fitting shall conform to the following specifications; solid sleeve, standard, C153 SSB or C110 mechanical joint ductile fitting, 12" mechanical joint by 12" mechanical joint, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

## **TAPPED PLUG CAST FITTING**

### **190. LB0104A**

Cast fitting shall conform to the following specifications; tapped plug, C153 SSB or C110 mechanical joint ductile fitting, 4" mechanical joint, 2" female national pipe thread. Fitting shall meet AWWA C110 latest revisions.

### **191. LB0106A**

Cast fitting shall conform to the following specifications; tapped plug, C153 SSB or C110 mechanical joint ductile fitting, 6" mechanical joint, 2" female national pipe thread. Fitting shall meet AWWA C110 latest revisions.

### **192. LB0108A**

Cast fitting shall conform to the following specifications; tapped plug, C153 SSB or C110 mechanical joint ductile fitting, 8" mechanical joint, 2" female national pipe thread. Fitting shall meet AWWA C110 latest revisions.

### **193. LB0110A**

Cast fitting shall conform to the following specifications; tapped plug, C153 SSB or C110 mechanical joint ductile fitting, 10" mechanical joint, 2" female national pipe thread. Fitting shall meet AWWA C110 latest revisions.

### **194. LB0112A**

Cast fitting shall conform to the following specifications; tapped plug, C153 SSB or C110 mechanical joint ductile fitting, 12" mechanical joint, 2" female national pipe thread. Fitting shall meet AWWA C110 latest revision.



**195. LB0116A**

Cast fitting shall conform to the following specifications; tapped plug, C153 SSB or C110 mechanical joint ductile fitting, 16" mechanical joint, 2" female national pipe thread. Fitting shall meet AWWA C110 latest revisions. (Tyler 5-152 or 5-652)

**TAPPED TEE CAST FITTING**

**196. LC0104A**

Cast fitting shall conform to the following specifications; tapped tee, C153 SSB or C110 mechanical joint ductile fitting, 4" mechanical joint by 4" mechanical joint, 2" female national pipe thread, with accessories, cement lined. Fitting shall meet AWWA C110 latest revision.

**197. LC0106A**

Cast fitting shall conform to the following specifications; tapped tee, C153 SSB or C110 mechanical joint ductile fitting, 6" mechanical joint by 6" mechanical joint, 2" female national pipe thread, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

**198. LC0108A**

Cast fitting shall conform to the following specifications; tapped tee, C153 SSB or C110 mechanical joint ductile fitting, 8" mechanical joint by 8" mechanical joint, 2" female national pipe thread, with accessories, cement lined. Fitting shall meet AWWA C110 latest revisions.

**FIRE HYDRANT**

Fire hydrants shall conform to the following specifications; hydrants shall be post type dry barrel design traffic model with breakaway safety flange and stem coupling; "O" ring stem seals with sealed oil reservoir lubricating stem on operation; compression type main valve 5 ¼ inch, closing with pressure; bronze seat ring shall thread into a bronze drain ring forming an all bronze drainway with positive sealing; and two bronze drain outlets; main valve shall be ¾ inch thick neoprene; 1½ inch all bronze pentagon operating nut with anti-friction washer opening left; two 2½ inch hose nozzles and one 4½ inch pumper nozzle with National Standard Hose Threads; openings shall be in line with each other. Hydrants shall have asphalt base varnish on the outside of lower barrel and shoe. The inside of the shoe shall be epoxy coated, minimum 8 mils thickness. The Fire Hydrant shall be painted OSHA-Safety Yellow 1813 or equal. Fire hydrant shoe shall be 6" mechanical joint for ductile iron or C900 pipe. Fire hydrant shall conform to AWWA C-502 latest revision. Only fire hydrants listed below will be accepted.

(M & H 129) (MUELLER SUPER CENTURION A-423) (CLOW MEDALLION) (AMERICAN DARLING B-84-B) (East Jordon)

**199. DA0036O**

3' (36" bury)

**200. DA0042O**

31/2' (42" bury)

**201. DA0048O**

4' (48" bury)

**202. DA0060O**

5' (60" bury)



## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

## PVC PIPE

### 203. AA0102A

PVC pipe shall conform to the following specifications; Polyvinyl Chloride Pipe; class 200 (DR21); bell end; elastometric-gasket glued in place; spigot ends shall be beveled and reference marked to facilitate in joining and insure proper seating depth; 20 foot lengths; domestic made, 2" pipe size. PVC pipe shall meet the requirements of ASTM D-2241. (Diamond) (JM-Eagle) (Nappco)

## CAST COUPLING

Wide Range Transition coupling shall conform to the following specifications; ductile iron sleeve, ductile iron flange follower, standard grade gaskets suitable for use in potable water, corrosion resistant high strength low alloy hardware with 12" in Length. Meeting AWWA D111 latest revisions, epoxy coated. (Ford FC2W SIZE 12L) (Smith Blair Quantum) (Romac XR-501)

### 204. IC0504A

4"

### 205. IC0506A

6"

### 206. IC0508A

8"

## CAST COUPLING

Transition coupling shall conform to the following specifications; ductile iron sleeve, ductile iron flange follower, standard grade gaskets suitable for use in potable water, corrosion resistant high strength low alloy hardware meeting AWWA D111 latest revisions, epoxy coated. (Ford FC2A) (JCM-212) (Smith Blair 441 Omni) (Romac 501)

### 207. IC0510A

10" (1160-1201 to 11:10)

### 208. IC0512A

12" (1392-1426 to 13:20)

### 209. IC0516A

16" (1765-1890 to 1732-1750)

### 210. IC0518A

18" (1992 to C-900)

### 211. ID0410A

Cast coupling shall conform to the following specifications; ductile iron sleeve, ductile iron flange follower, standard grade gaskets suitable for use in potable water, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions, epoxy coated. Sized to fit 11.10"-11.40" pipe diameter. (Smith Blair 441) (JCM 210) (Ford FC1) (Romac 501) (Power Seal 3501) (Dresser 153)

### 212. ID0412A

Cast coupling shall conform to the following specifications; ductile iron sleeve, ductile iron flange follower, standard grade gaskets suitable for use in potable water, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions, epoxy coated. Sized to fit 13.20"-13.50" pipe diameter. (Smith Blair 441) (JCM 210) (Ford FC1) (Romac 501) (Power Seal 3501) (Dresser 153)



## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

#### **213. ID0416A**

Cast coupling shall conform to the following specifications; ductile iron sleeve, ductile iron flange follower, standard grade gaskets suitable for use in potable water, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions, epoxy coated. Sized to fit 17.32"-17.50" pipe diameter. (Smith Blair 441) (JCM 210) (Ford FC2A) (Romac 501) (Power Seal 3501) (Dresser 153)

### **REPAIR CLAMP, SINGLE BAND**

#### **214. JA0604D**

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 4.74"- 5.14" pipe O.D. band length of 8" (Smith Blair 226) (FORD F1)

#### **215. JA0404D**

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 4.45" to 4.73" pipe O.D. band length of 8" (Smith Blair 226) (FORD F1)

#### **216. JA0404H**

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 4.45"- 4.73" pipe O.D. band length of 12"- 13".

(Smith Blair 226) (FORD F1)

#### **217. JA0604H**

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 4.74" to 5.14" pipe O.D. band length of 12"- 13".

(Smith Blair 226) (FORD F1)

#### **218. JA0404P**

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 4.45"-5.14" pipe O.D. band length of 18"- 20".

(Smith Blair 226) (FORD F2)

#### **219. JA0406D**

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 6.84"-7.25" pipe O.D. band length of 7½"-8". (Smith Blair 226) (FORD F1)





## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

#### **220. JA0406H**

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 6.84"-7.25" pipe OD band length of 12"-12½".

(Smith Blair 226) (Ford F1)

#### **221. JA0406P**

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 6.84"-7.25" pipe OD band length of 18"-20".

(Smith Blair 226) (Ford F1)

#### **222. JA0408D**

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 8.99"-9.40" pipe OD band length of 7½"-8".

(Smith Blair 226) (Ford F1)

#### **223. JA0408I**

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 8.99"-9.40" pipe OD band length of 12"-12½".

(Smith Blair 226) (Ford F1)

#### **224. JA0408P**

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 8.99"-9.40" pipe OD band length of 18"-20".

(Smith Blair 226) (Ford F1)

#### **225. JA1002H**

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 2" steel pipe. Band length of 15".

(Smith Blair 226) (Ford F1)

### **REPAIR CLAMPS, DOUBLE BAND**

#### **226. JB0404D**

Repair clamp shall meet the following specifications; Double full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 4.74"-5.57" OD pipe. Band length of 7.5" to 8".

(Smith Blair 227) (Ford F2)



## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

#### **227. JB1006I**

Repair clamp shall meet the following specifications; Double full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 6.84"-7.64" OD pipe. Band length of 12" to 12.5".

(Smith Blair 227) (Ford F2)

#### **228. JB0408I**

Repair clamp shall meet the following specifications; Double full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 8.99"-9.79" OD pipe. Band length of 12".

(Smith Blair 227) (Ford F2)

#### **229. JB1010H**

Repair clamp shall meet the following specifications; Double full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 11.10"-11.90" OD pipe. Band length of 12".

(Smith Blair 227) (Ford F2)

#### **230. JB1012H**

Repair clamp shall meet the following specifications; Double full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 13.14"-14.34" OD pipe. Band length of 12".

(Smith Blair 227) (Ford F2)

#### **231. JB0316F**

Repair clamp shall meet the following specifications; Double full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 17.15"-17.90" OD pipe. Band length of 15".

(Smith Blair 227) (Ford F2)

#### **232. JB0212S**

Repair clamp shall meet the following specifications; Double full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 13.65"-14.65" OD pipe. Band length of 20" to 24".

(Smith Blair 227) (Ford F2)

#### **233. JB0312P**

Repair clamp shall meet the following specifications; Double full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 13.14"-14.34" OD pipe. Band length of 20".

(Smith Blair 228) (Ford F2)

#### **234. JB0313P**

Repair clamp shall meet the following specifications; Double full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 15.07"-15.82" OD pipe. Band length of 20".





## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903  
Tel: (325) 657-4219

(Smith Blair 228) (Ford F2)

#### **235. JB0112N**

Repair clamp shall meet the following specifications; Double full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 15.92"-16.67" OD pipe. Band length of 20".  
(Smith Blair 228) (Ford F2)

#### **236. JB0118N**

Repair clamp shall meet the following specifications; Double full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 18.00"-19.20" OD pipe. Band length of 15"-16".

(Smith Blair 228) (Ford F2)

#### **237. JB0120N**

Repair clamp shall meet the following specifications; Double full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 19.40"-20.40" OD pipe. Band length of 18"-20".

(Smith Blair 228) (Ford F2)

#### **238. JB0220P**

Repair clamp shall meet the following specifications; Double full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 21.40"-22.40" OD pipe. Band length of 20".  
(Smith Blair 228) (Ford F2)

### **REPAIR PATCH CLAMP**

#### **239. JC1002A**

Repair clamp shall meet the following specifications; Band shall have type 304 stainless steel, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, ductile iron lug, bolts to be electro- galvanized with di-chromate seal, single bolt design. Sized to fit 2.38" pipe diameter, band length of 3".

(Smith Blair 227) (Ford FSC)

#### **240. JC1003A**

Repair clamp shall meet the following specifications; Band shall have type 304 stainless steel, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, ductile iron lug, bolts to be electro- galvanized with di-chromate seal, single bolt design. Sized to fit 3.50" pipe diameter, band length of 3".

(Smith Blair 245) (Ford FSC)

#### **241. JC1095A**

Repair clamp shall meet the following specifications; Band shall have type 304 stainless steel, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, ductile iron lug, bolts to be electro- galvanized with di-chromate seal, single bolt design. Sized to fit 0.84" pipe diameter, band length of 3".

(Smith Blair 245) (Ford FSC)



## **CITY OF SAN ANGELO**

### **PURCHASING DIVISION**

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

#### **242. JC1096A**

Repair clamp shall meet the following specifications; Band shall have type 304 stainless steel, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, ductile iron lug, bolts to be electro- galvanized with di-chromate seal, single bolt design. Sized to fit 1.05" pipe diameter, band length of 3".

(Smith Blair 245) (Ford FSC)

#### **243. JC1097A**

Repair clamp shall meet the following specifications; Band shall have type 304 stainless steel, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, ductile iron lug, bolts to be electro- galvanized with di-chromate seal, single bolt design. Sized to fit 1.32" pipe diameter, band length of 3".

(Smith Blair 245) (Ford FSC)

#### **244. JC1098A**

Repair clamp shall meet the following specifications; Band shall have type 304 stainless steel, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, ductile iron lug, bolts to be electro- galvanized with di-chromate seal, single bolt design. Sized to fit 1.66" pipe diameter, band length of 3".

(Smith Blair 245) (Ford FSC)

#### **245. JC1099A**

Repair clamp shall meet the following specifications; Band shall have type 304 stainless steel, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, ductile iron lug, bolts to be electro- galvanized with di-chromate seal, single bolt design. Sized to fit 1.90" pipe diameter, band length of 3".

(Smith Blair 245) (Ford FSC)

#### **246. JC1002B**

Repair clamp shall meet the following specifications; Band shall have type 304 stainless steel, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, ductile iron lug, bolts to be electro- galvanized with di-chromate seal, two bolt design. Sized to fit 2.38" pipe diameter, band length of 6".

(Smith Blair 245) (Ford FSC)

#### **247. JC1098B**

Repair clamp shall meet the following specifications; Band shall have type 304 stainless steel, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, ductile iron lug, bolts to be electro- galvanized with di-chromate seal, two bolt design. Sized to fit 1.66" pipe diameter, band length of 6".

(Smith Blair 245) (Ford FSC)

#### **248. JC1099B**

Repair clamp shall meet the following specifications; Band shall have type 304 stainless steel, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, ductile iron lug, bolts to be electro- galvanized with di-chromate seal, two bolt design. Sized to fit 1.90" pipe diameter, band length of 6".

(Smith Blair 245) (Ford FSC)

### **FULL CIRCLE**

#### **249. JE1002D**

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest



## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 2.35"-2.63" pipe diameter. Band length of 7½"-8".

(Smith Blair 226) (Ford F1)

#### **250. JH0404B**

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 4.74"-5.14" pipe O.D. x 1" cc outlet . Band length of 7.5" to 8".

(Smith Blair 238) (Ford F1)

#### **251. JH0404H**

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 4.74"-5.14" pipe O.D. x 1" cc outlet . Band length of 12 to 12.5.

(Smith Blair 238) (Ford F1)

#### **252. JH0406D**

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 6.87"-7.24" pipe O.D. x 1" cc outlet . Band length of 7.5" - 8".

(Smith Blair 238) (Ford F1)

#### **253. JH0406H**

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 6.87"-7.24" pipe O.D. x 1" cc outlet . Band length of 12" – 12.5".

(Smith Blair 238) (Ford F1)

#### **254. JH0408B**

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 8.99"-9.39" pipe O.D. x 1" cc outlet . Band length of 7.5" - 8".

(Smith Blair 238) (Ford F1)

#### **255. JH0408I**

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 8.99"-9.39" pipe O.D. x 1" cc outlet . Band length of 12" – 12.5".

(Smith Blair 238) (Ford F1)

#### **256. JH0410I**

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest



## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 11.10"-11.90" pipe O.D. x 1" cc outlet . Band length of 12" – 12.5".

(Smith Blair 239) (Ford F2)

#### **257. JH0412I**

Repair clamp shall meet the following specifications; single full circle type 304 stainless steel band with stainless steel bridge plate, standard grade gasket suitable for use in potable water with tapered ends and grid pattern, corrosion resistant high strength low alloy hardware meeting AWWA C111 latest revisions. Ductile iron lugs with stabilizing fingers. Sized to fit 13.10-13.50" pipe O.D. x 1" cc outlet . Band length of 12" – 12.5".

(Smith Blair 239) (Ford F1)

### **COMPRESSION COUPLING**

#### **258. UD1001C**

Compression coupling shall conform to the following specifications; body shall be carbon steel tubing; standard grade gasket suitable for use in potable water, nut shall be malleable iron ASTM 47, finish shall be galvanized. ½" nominal pipe size, sized to fit .84" pipe O.D., 4 3/8" in length.

(Smith Blair 525)

#### **259. UD1002C**

Compression coupling shall conform to the following specifications; body shall be carbon steel tubing; standard grade gasket suitable for use in potable water, nut shall be malleable iron ASTM 47, finish shall be galvanized. ¾" nominal pipe size, sized to fit 1.05" pipe O.D., 4 3/8" in length.

(Smith Blair 525)

#### **260. UD1003C**

Compression coupling shall conform to the following specifications; body shall be carbon steel tubing; standard grade gasket suitable for use in potable water, nut shall be malleable iron ASTM 47, finish shall be galvanized. 1" nominal pipe size, sized to fit 1.32" pipe O.D., 4 3/4" in length.

(Smith Blair 525)

#### **261. UD1004C**

Compression coupling shall conform to the following specifications; body shall be carbon steel tubing; standard grade gasket suitable for use in potable water, nut shall be malleable iron ASTM 47, finish shall be galvanized. 1 ¼" nominal pipe size, sized to fit 1.66" pipe O.D., 5 1/8" in length.

(Smith Blair 525)

#### **262. UD1005C**

Compression coupling shall conform to the following specifications; body shall be carbon steel tubing; standard grade gasket suitable for use in potable water, nut shall be malleable iron ASTM 47, finish shall be galvanized. 1 ½" nominal pipe size, sized to fit 1.90" pipe O.D., 5 3/8" in length.

(Smith Blair 525)

#### **263. UD1006D**

Coupling shall conform to the following specifications; two bolt, steel sleeve and followers, standard grade gasket suitable for use in potable water, corrosion resistant hardware, shop coat finish. Coupling shall fit 2.375" pipe diameter, 5" in length.

(Smith Blair 411) (Ford FSC)

#### **264. UD1007E**

Coupling shall conform to the following specifications; two bolt, steel sleeve and followers, standard grade gasket suitable for use in potable water, corrosion resistant hardware, shop coat finish. Coupling shall fit 2.875" pipe diameter, 5" in length.

(Smith Blair 411) (Ford IC3)



## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903  
Tel: (325) 657-4219

#### **265. UD1008E**

Coupling shall conform to the following specifications; two bolt, steel sleeve and followers, standard grade gasket suitable for use in potable water, corrosion resistant hardware, shop coat finish. Coupling shall fit 3.500" pipe diameter, 5" in length.  
(Smith Blair 411) (Ford IC3)

### **SERVICE SADDLES**

#### **266. EA0106B**

##### **6"x1" Service Saddle**

Service saddle shall conform to the following specifications; bronze body, bronze double straps with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 6.00" to 7.75" pipe diameters. Body shall have female 1" AWWA corporation threads. Saddle shall conform to AWWA C800 latest revision.

(Ford 202B) (James Jones J-979) (Romac 202B) (Smith-Blair 323)

#### **267. EA0108B**

##### **8"x1" Service Saddle**

Service saddle shall conform to the following specifications; bronze body, bronze double straps with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 9.61" pipe diameters. Body shall have female 1" AWWA corporation threads. Saddle shall conform to AWWA C800 latest revision.  
(Ford 202B) (James Jones J-979) (Romac 202B) (Smith-Blair 323)

#### **268. EA0202B**

##### **2"x1" Service Saddle**

Service saddle shall conform to the following specifications; bronze body, bronze single double wide strap with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 2.375" pipe diameters. Body shall have female 1" AWWA corporation threads. Saddle shall conform to AWWA C800 latest revision. (Ford S-70) (James Jones J-995) (Smith-Blair 393)

#### **269. EA0204B**

##### **4"x1" Service Saddle**

Service saddle shall conform to the following specifications; bronze body, bronze single double wide strap with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 4.50" pipe diameters. Body shall have female 1" AWWA corporation threads. Saddle shall conform to AWWA C800 latest revision. (Ford S-70) (James Jones J-995) (Romac 101-B) (Smith-Blair 393) (McDonald)

#### **270. EA0206B**

##### **6"x1" Service Saddle**

Service saddle shall conform to the following specifications; bronze body, bronze single double wide strap with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 6.90" pipe diameters. Body shall have female 1" AWWA corporation threads. Saddle shall conform to AWWA C800 latest revision.

(James Jones J-996) (Romac 101B) (Smith-Blair 393) (Ford S-90)

#### **271. EA0208B**

##### **8"x1" Service Saddle**

Service saddle shall conform to the following specifications; bronze body, bronze single double wide strap with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 9.05" pipe diameter. Body shall have female 1" AWWA corporation threads. Saddle shall conform to AWWA C800 latest revision.  
(James Jones J-996) (Romac 101B) (Smith-Blair 393) (Ford S-90) (McDonald)

#### **272. EA0212B**

##### **12"x1" Service Saddle**

Service saddle shall conform to the following specifications; bronze body, bronze single double wide strap with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 13.205" pipe diameters. Body shall have female 1" AWWA corporation threads. Saddle shall conform to AWWA C800 latest revision. (James Jones J-996) (Romac 101B) (Smith-Blair 393) (Ford S-90) (McDonald)



## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

#### **273. EA0310B**

##### **10"x1" Service Saddle**

Service saddle shall conform to the following specifications; bronze body, bronze single double wide strap with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 11.50" pipe diameters. Body shall have female 1" AWWA corporation threads. Saddle shall conform to AWWA C800 latest revision. (Ford S90) (James Jones J-979) (Romac 202B) (Smith-Blair 323) (McDonald)

#### **274. EA0312B**

##### **12"x1" Service Saddle**

Service saddle shall conform to the following specifications; bronze body, bronze double straps with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 13.20" to 14.20" pipe diameters. Body shall have female 1" AWWA corporation threads. Saddle shall conform to AWWA C800 latest revision. (Ford 202B) (James Jones J-979) (Romac 202B) (Smith-Blair 323) (McDonald)

#### **275. EA0314B**

##### **14"x1" Service Saddle**

Service saddle shall conform to the following specifications; bronze body, bronze double straps with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 16.32" to 17.26" pipe diameters. Body shall have female 1" AWWA corporation threads. Saddle shall conform to AWWA C800 latest revision. (Ford 202B) (James Jones J-979) (Romac 202B) (Smith-Blair 323)

#### **276. EA0316B**

##### **16"x1" Service Saddle**

Service saddle shall conform to the following specifications; bronze body, bronze double straps with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 16.32" to 17.26" pipe diameters. Body shall have female 1" AWWA corporation threads. Saddle shall conform to AWWA C800 latest revision. (Ford 202B) (James Jones J-979) (Romac 202B) (Smith-Blair 323) (McDonald)

#### **277. EA0702A**

##### **2"x1" Service Saddle**

Service saddle shall conform to the following specifications; bronze body, bronze single straps with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 2.50" pipe diameter. Body shall have female 1" AWWA corporation threads. Saddle shall conform to AWWA C800 latest revision. (James Jones J-975) (Smith-Blair 321) (FORD -S70)

#### **278. ED0108B**

##### **8"x2" Service Saddle**

Service saddle shall conform to the following specifications; bronze body, bronze double straps with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 9.40" pipe diameter. Body shall have 2" female national pipe threads. Saddle shall conform to AWWA C800 latest revision. (Ford202-B) (James Jones J-979) (Smith-Blair 323) (Romac 202-B) (McDonald)

#### **279. ED0204B**

##### **4"x2" Service Saddle**

Service saddle shall conform to the following specifications; bronze body, bronze double straps with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 4.50" pipe diameter. Body shall have 2" female national pipe threads. Saddle shall conform to AWWA C800 latest revision. (Ford S-70) (James Jones J-996) (Smith-Blair 393) (Romac 202-B) (McDonald)

#### **280. ED0206B**

##### **6"x2" Service Saddle**

Service saddle shall conform to the following specifications; bronze body, bronze double straps with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 6.90" pipe diameter. Body shall have 2" female national pipe threads. Saddle shall conform to AWWA C800 latest revision. (Ford S-70) (James Jones J-996) (Smith-Blair 393) (Romac 202-B) (McDonald)

#### **281. ED0208B**

##### **8"x2" Service Saddle**

Service saddle shall conform to the following specifications; bronze body, bronze double straps with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 9.05" pipe diameter. Body





## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903  
Tel: (325) 657-4219

shall have 2" female national pipe threads. Saddle shall conform to AWWA C800 latest revision. (Ford 202B) (James Jones J-996) (Smith-Blair 393) (Romac 202-B) (McDonald)

#### **282. ED0212B** 12"x2" Service Saddle

Service saddle shall conform to the following specifications; bronze body, bronze double straps with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 13.20" pipe diameter. Body shall have 2" female national pipe threads. Saddle shall conform to AWWA C800 latest revision. (Ford 202B) (James Jones J-996) (Smith-Blair 393) (Romac 202-B) (McDonald)

#### **283. ED0306B** 6"x2" Service Saddle

Service saddle shall conform to the following specifications; bronze body, bronze double straps with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 6.00" TO 7.75" pipe diameters. Body shall have 2" female national pipe threads. Saddle shall conform to AWWA C800 latest revision. (Ford 202B) (James Jones J-979) (Smith-Blair 323) (Romac 202-B) (McDonald)

#### **284. ED0310B** 10"x2" Service Saddle

Service saddle shall conform to the following specifications; bronze body, bronze double straps with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 11.10" TO 11.50" pipe diameters. Body shall have 2" female national pipe threads. Saddle shall conform to AWWA C800 latest revision. (Ford 202B) (James Jones J-979) (Smith-Blair 323) (Romac 202-B) (McDonald)

#### **285. ED0312B** 12"x2" Service Saddle

Service saddle shall conform to the following specifications; bronze body, bronze double straps with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 13.20" TO 14.21" pipe diameters. Body shall have 2" female national pipe threads. Saddle shall conform to AWWA C800 latest revision. (Ford 202B) (James Jones J-979) (Smith-Blair 323) (Romac 202-B) (McDonald)

#### **286. ED0316B** 16"x2" Service Saddle

Service saddle shall conform to the following specifications; bronze body, bronze double straps with bronze nuts, rubber or neoprene seal attached to the body. Saddle shall fit 17.40" TO 18.97" pipe diameters. Body shall have 2" female national pipe threads. Saddle shall conform to AWWA C800 latest revision. (Ford 202B) (James Jones J-979) (Smith-Blair 323) (Romac 202-B)

## **TAP SLEEVES**

### **STAINLESS STEEL TAPPING SLEEVES WITH STAINLESS STEEL FLANGE**

#### **287. FE0104C** 4"x4" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 4" cast iron pipe or C900 pipe. Nominal 4" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

#### **288. FE0106C** 6"x4" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 6" cast iron pipe or C900 pipe. Nominal 4" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)





## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

#### **289. FE0106D**

##### **6"x6" Tapping Sleeve**

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 6" cast iron pipe or C900 pipe. Nominal 6" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

#### **290. FE0108C**

##### **8"x4" Tapping Sleeve**

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 8" cast iron pipe or C900 pipe. Nominal 4" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

#### **291. FE0108D**

##### **8"x6" Tapping Sleeve**

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 8" cast iron pipe or C900 pipe. Nominal 6" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

#### **292. FE0108E**

##### **8"x8" Tapping Sleeve**

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 8" cast iron pipe or C900 pipe. Nominal 8" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

#### **293. FE0110C**

##### **10"x4" Tapping Sleeve**

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling ; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 10" cast iron pipe or C900 pipe. Nominal 4" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

#### **294. FE0110D**

##### **10"x6" Tapping Sleeve**

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling ; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 10" cast iron pipe or C900 pipe. Nominal 6" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

#### **295. FE0110E**

##### **10"x8" Tapping Sleeve**

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel paint, with 150 lb. Drilling ; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 10" cast iron pipe or C900 pipe. Nominal 8" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)



## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

#### 296. FE0110F

##### 10"x10" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling ; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 10" cast iron pipe or C900 pipe. Nominal 10" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

#### 297. FE0112C

##### 12"x4" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling ; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 12" cast iron pipe or C900 pipe. Nominal 4" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

#### 298. FE0112D

##### 12"x6" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 12" cast iron pipe or C900 pipe. Nominal 6" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

#### 299. FE0112E

##### 12"x8" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 12" cast iron pipe or C900 pipe. Nominal 8" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

#### 300. FE0112G

##### 12"x12" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 12" cast iron pipe or C900 pipe. Nominal 12" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

#### 301. FE0118E

##### 18"x8" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 18" cast iron pipe or C900 pipe. Nominal 8" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

#### 302. FE0204C

##### 4"x4" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 4" Class 200 A.C. rough barrel pipe. Nominal 4" branch size.



## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

(Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

#### **303. FE0206C**

##### **6"x4" Tapping Sleeve**

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 6" Class 200 A.C. rough barrel pipe. Nominal 4" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

#### **304. FE0206D**

##### **6"x6" Tapping Sleeve**

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 6" Class 200 A.C. rough barrel pipe. Nominal 6" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

#### **305. FE0208C**

##### **8"x4" Tapping Sleeve**

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 8" Class 200 A.C. rough barrel pipe. Nominal 4" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

#### **306. FE0208D**

##### **8"x6" Tapping Sleeve**

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 8" Class 200 A.C. rough barrel pipe. Nominal 6" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

#### **307. FE0208E**

##### **8"x8" Tapping Sleeve**

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 8" Class 200 A.C. rough barrel pipe. Nominal 8" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

#### **308. FE0210C**

##### **10"x4" Tapping Sleeve**

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 10" Class 200 A.C. rough barrel pipe. Nominal 4" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

#### **309. FE0210D**

##### **10"x6" Tapping Sleeve**

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 10" Class 200 A.C. rough barrel pipe. Nominal 6" branch size.



## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

(Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

#### **310. FE0210E** 10"x8" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 10" Class 200 A.C. rough barrel pipe. Nominal 8" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

#### **311. FE0210F** 10"x10" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 10" Class 200 A.C. rough barrel pipe. Nominal 10" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

#### **312. FE0212C** 12"x4" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 12" Class 200 A.C. rough barrel pipe. Nominal 4" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

#### **313. FE0212D** 12"x6" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 12" Class 200 A.C. rough barrel pipe. Nominal 6" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

#### **314. FE0212E** 12"x8" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 12" Class 200 A.C. rough barrel pipe. Nominal 8" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)

#### **315. FE0212G** 12"x12" Tapping Sleeve

Tapping sleeve shall conform to the following specifications; 304 stainless steel liner; rubber gasket suitable for use in potable water, with grid pattern glued in place to liner; 304 stainless steel armor plates bonded to liner; stainless steel flange, with 150 lb. Drilling; rubber gasket suitable for use in potable water glued in place on flange face; 304 stainless steel hardware coated to prevent galling or seizing; 304 stainless steel test plug. Sized to fit 12" Class 200 A.C. rough barrel pipe. Nominal 12" branch size. (Romac SST Ductile Plus) (Powerseal 3490) (Ford Fast) (Smith-Blair 663)



## **GATE VALVES**

### **RESILIENT SEATED GATE VALVE**

**316. BB0104A**

**4" Gate Valve**

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem hole, fully encapsulated in rubber; open left; two o-ring seals above the stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be mechanical joint by mechanical joint. Valve size shall be nominal 4". Valve shall conform to AWWA C509, C515 latest revision. (U.S. Pipe) (American Darling) (Mueller) (EAST JORDON) (M&H)

**317. BB0106A**

**6" Gate Valve**

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem hole, fully encapsulated in rubber; open left; two o-ring seals above the stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be mechanical joint by mechanical joint. Valve size shall be nominal 6". Valve shall conform to AWWA C509, C515 latest revision. (U.S. Pipe) (American Darling) (Mueller) (EAST JORDON) (M&H)

**318. BB0108A**

**8" Gate Valve**

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem hole, fully encapsulated in rubber; open left; two o-ring seals above the stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be mechanical joint by mechanical joint. Valve size shall be nominal 8". Valve shall conform to AWWA C509, C515 latest revision. (U.S. Pipe) (American Darling) (Mueller) (EAST JORDON) (M&H)

**319. BB0110A**

**10" Gate Valve**

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem hole, fully encapsulated in rubber; open left; two o-ring seals above the stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be mechanical joint by mechanical joint. Valve size shall be nominal 10". Valve shall conform to AWWA C509, C515 latest revision. (U.S. Pipe) (American Darling) (Mueller) (EAST JORDON) (M&H)





## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

#### **320. BB0112A**

##### **12" Gate Valve**

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem hole, fully encapsulated in rubber; open left; two o-ring seals above the stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be mechanical joint by mechanical joint. Valve size shall be nominal 12". Valve shall conform to AWWA C509, C515 latest revision. (U.S. Pipe) (American Darling) (Mueller) (EAST JORDON) (M&H)

#### **321. BB0116A**

##### **16" Gate Valve**

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem hole, fully encapsulated in rubber; open left; two o-ring seals above the stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be mechanical joint by mechanical joint. Valve size shall be nominal 16". Valve shall conform to AWWA C509, C515 latest revision. (U.S. Pipe) (American Darling) (Mueller) (EAST JORDON) (M&H)

#### **322. BB0204A**

##### **4" Gate Valve**

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem hole, fully encapsulated in rubber; open left; two o-ring seals above the stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be flange joint by mechanical joint. Valve size shall be nominal 4". Valve shall conform to AWWA C509, C515 latest revision. (U.S. Pipe) (American Darling) (Mueller) (East Jordon) (M&H)

#### **323. BB0204B**

##### **4" Gate Valve**

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem hole, fully encapsulated in rubber; open left; two o-ring seals above the stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be flange joint by flange joint. Valve size shall be nominal 4". Valve shall conform to AWWA C509, C515 latest revision.

(U.S. Pipe) (American Darling) (Mueller) (East Jordon) (M&H)

#### **324. BB0206A**

##### **6" Gate Valve**

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem hole, fully encapsulated in rubber; open left; two o-ring seals above the stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction;



## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

end connections shall be flange joint by mechanical joint. Valve size shall be nominal 6". Valve shall conform to AWWA C509, C515 latest revision. (U.S. Pipe) (American Darling) (Mueller) (East Jordon) (M&H)

#### **325. BB0206B**

##### **6" Gate Valve**

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem hole, fully encapsulated in rubber; open left; two o-ring seals above the stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be flange joint by flange joint. Valve size shall be nominal 6". Valve shall conform to AWWA C509, C515 latest revision.

(U.S. Pipe) (American Darling) (Mueller) (East Jordon) (M&H)

#### **326. BB0208A**

##### **8" Gate Valve**

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem hole, fully encapsulated in rubber; open left; two o-ring seals above the stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be flange joint by mechanical joint. Valve size shall be nominal 8". Valve shall conform to AWWA C509, C515 latest revision. (U.S. Pipe) (American Darling) (Mueller) (EAST JORDON) (M&H)

#### **327. BB0208B**

##### **8" Gate Valve**

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem hole, fully encapsulated in rubber; open left; two o-ring seals above the stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be flange joint by flange joint. Valve size shall be nominal 4". Valve shall conform to AWWA C509, C515 latest revision.

(U.S. Pipe) (American Darling) (Mueller) (East Jordon) (M&H)

#### **328. BB0210A**

##### **10" Gate Valve**

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem hole, fully encapsulated in rubber; open left; two o-ring seals above the stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be flange joint by mechanical joint. Valve size shall be nominal 10". Valve shall conform to AWWA C509, C515 latest revision. (U.S. Pipe) (American Darling) (Mueller) (East Jordon) (M&H)

#### **329. BB0212A**

##### **12" Gate Valve**

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem





## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

nut; gate, including stem hole, fully encapsulated in rubber; open left; two o-ring seals above the stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be flange joint by mechanical joint. Valve size shall be nominal 12". Valve shall conform to AWWA C509, C515 latest revision. (U.S. Pipe) (American Darling) (Mueller) (East Jordon) (M&H)

#### **330. BB0212B**

##### 12" Gate Valve

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem hole, fully encapsulated in rubber; open left; two o-ring seals above the stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be flange joint by flange joint. Valve size shall be nominal 12". Valve shall conform to AWWA C509, C515 latest revision.

(U.S. Pipe) (American Darling) (Mueller) (East Jordon) (M&H)

#### **331. BB0216B**

##### 16" Flanged Gate Valve

Gate valve shall conform to the following specifications; full pot valve for size stated; resilient seated wedge type; non-rising stem; fusion bonded epoxy coated inside and outside, eight (8) mil minimum conforming to AWWA C550; cast iron or ductile iron body, bonnet and gate; bronze stem; bronze stem nut; gate, including stem thrust collar; thrust washer or bearing above stem collar; two inch square stem operating nut; corrosion resistant plated steel hardware; gate shall engage body in a tongue and groove manner; gate shall have a dual seal to valve body and have zero leakage with at least 200 psi water pressure from either direction; end connections shall be flange joint by flange joint. Valve size shall be nominal 16". Valve shall conform to AWWA C509, C515 latest revision. (U.S. Pipe)(American Darling)(Mueller) (East Jordon) (M&H)



**CITY OF SAN ANGELO**  
PURCHASING DIVISION  
72 West College Avenue, San Angelo, Texas 76903  
Tel: (325) 657-4219

### MEGALUG

Megalug Mechanical Joint Restraint for C-900 Pipe & IPS PVC pipe (EBAA Iron) (Ford Uni-Flange) (Kit's)

332. **GL1704O**  
Size 4"

333. **GL1706O**  
Size 6"

334. **GL1708O**  
Size 8"

335. **GL1710O**  
Size 10"

336. **GL1712O**  
Size 12"

337. **GL1714O**  
Size 14"

338. **GL1716O**  
Size 16"

339. **GL1718O**  
Size 18"

340. **GL1720O**  
Size 20"

341. **GL1724O**  
Size 24"

342. **GL1730O**  
Size 30"

343. **GL1736O**  
Size 36"

344. **GL1742O**  
Size 42"

345. **GL1748O**  
Size 48"

### MEGALUG

Megaflange- Flange Adapter Series 2100, (EBAA Iron) --ONLY

346. **GL1804O**  
Size 4"

347. **GL1806O**  
Size 6"

348. **GL1808O**  
Size 8"

349. **GL1810O**  
Size 10"

350. **GL1812O**  
Size 12"

351. **GL1814O**  
Size 14"

352. **GL1816O**  
Size 16"

353. **GL1818O**  
Size 18"

354. **GL1820O**  
Size 20"

355. **GL1824O**  
Size 24"

356. **GL1830O**  
Size 30"

357. **GL1836O**  
Size 36"



**CITY OF SAN ANGELO**  
PURCHASING DIVISION  
72 West College Avenue, San Angelo, Texas 76903  
Tel: (325) 657-4219

#### 4. NO BID REPLY FORM

##### For WU-07-19 / Water Distribution Warehouse Inventory

If for any reason, you are not submitting a bid/proposal, please check one or more reasons below and return the form to us either by mail or by email to [sapurch@cosatx.us](mailto:sapurch@cosatx.us) in order to remain in our database for these types of products or services.

By providing us this information, we hope to improve future request packages that will elicit your participation.

===== # # # =====

#### PLEASE PRINT

We wish to: ☐ **Remain On**  
☐ **Be Deleted From** the list of vendors for the City of San Angelo.

#### A. We hereby submit a "No Bid" because:

- ☐ 1. We are not interested in selling through the bid process.
- ☐ 2. We are unable to prepare the bid form in time to meet the due date.
- ☐ 3. We do not wish to bid under the terms and conditions of the Request for Bid/Proposal. OBJECTIONS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- ☐ 4. We do not feel we can be competitive.
- ☐ 5. We cannot submit a bid because of the marketing or franchising policies of the manufacturing company.
- ☐ 6. We do not wish to sell to the City of San Angelo. OBJECTIONS: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
- ☐ 7. We do not sell the items or provide the services requested.
- ☐ 8. Other: \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Firm \_\_\_\_\_

Signed \_\_\_\_\_

Date \_\_\_\_\_

***Thank you for your assistance!***



## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

## 5. BID FORMS

Submit: One (1) unbound original (binder clips acceptable, three (3) bound copies (binders, staples or binder clips are acceptable) and one (1) copy in PDF format on USB Flash Drive of all required RFP forms.

Please submit all forms in the following order:

- ☐ Bid Sheet – Submit using WU-07-19 Warehouse Inventory Inventory.xls digital bid sheet in Excel; print one copy for submission, on USB include one excel version and one PDF with all other required documents.
- ☐ Contact Information Form (IRS Form W-9)
- ☐ Addenda Acknowledgment Form
- ☐ Disclosure of Certain Relationships Form
- ☐ Debarment and Suspension Certification
- ☐ Local Preference Consideration Application & Economic Impact Details
- ☐ Verification Relating to Prohibited Contracts – Israel
- ☐ Survey

\*At council award, one notarized, original of the Texas Ethics Commission Interested Parties Disclosure Form 1295 completed online at [https://www.ethics.state.tx.us/whatsnew/elf\\_info\\_form1295.htm](https://www.ethics.state.tx.us/whatsnew/elf_info_form1295.htm) will be required.

In submitting its bid, vendor certifies that it has not lobbied the City or its officials, managers, employees, consultants, or contractors in such a manner as to influence or to attempt to influence the bidding process. In the event it reasonably appears that the vendor influenced or attempted to influence the bidding process, the City may, in its discretion, reject the bid.

## Submit all forms beyond this point.



**CITY OF SAN ANGELO**  
PURCHASING DIVISION  
72 West College Avenue, San Angelo, Texas 76903  
Tel: (325) 657-4219

**Bid Sheet**

**\*Please complete attached excel file with item descriptions and quantities.\***

- A. Refer to Instructions to Vendors before completing Bid Sheet and quote your best price F.O.B. destination on each item.
- B. Delivery Date should be the number of Calendar Days for delivery promised for each item from date of PO receipt/order placement.
- C. Print one copy for submission, on USB include one excel version and one PDF with all other required documents.
- D. Quantities listed are based on approximate twelve (12) month usage.
- E. The brand names listed on the Bid exemplify approved specifications used by the City. Any deviations/alternatives from the brand names specified will require prior approval from the City's Water Utilities Department as meeting or exceeding the product specification standards signified by brands listed. Approval of alternative product must be obtained five (5) working days prior to bid opening. Alternative bids which did not receive prior approval will be considered non-responsive. **Route all requests for specification approval through the Purchasing Division at [sapurch@cosatx.us](mailto:sapurch@cosatx.us).**
- F. "All or none" bids are not acceptable.
- G. All Mechanical Joint Fittings shall be bid with Ebba & Ford restraint accessories & epoxy coated.
- H. All Flanged fittings shall be bid with bolt and gasket accessories kits.
- I. All Gate Valves and Fire Hydrants shall be bid with Ebba & Ford restraint accessories.
- J. All Brass Saddles shall be Domestic Only.
- K. All Brass Fittings shall be no Lead and Domestic Only.
- L. Liquidated Damages - Time is of the essence in the delivery of this product. If materials are not delivered by the promised delivery date, the City may elect to charge a 1.5% late charge for each item that is 30 days past the promised delivery date. All orders shall be shipped complete.

**Note: Should there be any differences between the unit price and the extended pricing calculations, the unit price will prevail.**

- ☐ Does vendor agree to allow piggy-back procurements? Yes\_\_\_\_\_ No\_\_\_\_\_  
(Should other governmental entities decide to participate in this contract, the vendor agrees that all terms, conditions, specifications and pricing would apply.)
- ☐ Are these prices based on a purchasing cooperative contract? Yes\_\_\_\_\_ No\_\_\_\_\_
  - ☐ If yes, name of cooperative:\_\_\_\_\_ Contract No: \_\_\_\_\_  
(Texas DIR, TXMAS, Buyboard, etc.)
- ☐ Payment Terms/Discounts (if any): \_\_\_\_\_



**CITY OF SAN ANGELO**  
PURCHASING DIVISION  
72 West College Avenue, San Angelo, Texas 76903  
Tel: (325) 657-4219

**Authorized Signature/Contact Information**

**Vendor Name:** \_\_\_\_\_

**Authorized Signer:** \_\_\_\_\_

Print Name: \_\_\_\_\_

Date: \_\_\_\_\_

Title: \_\_\_\_\_

Email: \_\_\_\_\_

**Primary Contact:** \_\_\_\_\_

Title: \_\_\_\_\_

Email: \_\_\_\_\_

Telephone: \_\_\_\_\_

Fax: \_\_\_\_\_

**Mailing Address:** \_\_\_\_\_

City, State, Zip: \_\_\_\_\_

**Physical Address:** \_\_\_\_\_

*(Cannot be a PO Box)*

City, State, Zip: \_\_\_\_\_

**Attach IRS W-9**

*Bids which are not signed and dated or bids which do not comply with all of bid requirements herein, may be considered non-responsive and may be rejected.*

The signee agrees, if this bid is accepted, to furnish any and all goods or services upon which prices are offered, at the price and upon the terms and conditions contained in the Invitation for Bid, Conditions of Bidding, Terms of Contract, and Specifications and all other items made a part of the accepted contract.

The signee affirms that they are duly authorized to execute the contract, that this company, corporation, firm, partnership or individual has not prepared this bid in collusion with any other vendor, and that the contents of this bid as to prices and terms or conditions have not been communicated by the signee nor by any employee or agent to any other vendor or to any other person(s) engaged in this type of business prior to the official opening of this bid. And further, that neither the vendor nor their employees nor agents have been for the past six (6) months directly nor indirectly concerned in any pool or agreement or combination to control the price of goods or services, nor to influence any person to bid or not to bid thereon.



**CITY OF SAN ANGELO**  
PURCHASING DIVISION  
72 West College Avenue, San Angelo, Texas 76903  
Tel: (325) 657-4219

**Addenda Acknowledgement**

Receipt is hereby acknowledged of the following addenda to the Contract documents.

Addendum No. 1 dated _____	Received _____
Addendum No. 2 dated _____	Received _____
Addendum No. 3 dated _____	Received _____

Please Print

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

\_\_\_\_\_  
Signature

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

\_\_\_\_\_  
Title

\_\_\_\_\_  
Address

\_\_\_\_\_  
City, State Zip Code





**CITY OF SAN ANGELO**  
PURCHASING DIVISION  
72 West College Avenue, San Angelo, Texas 76903  
Tel: (325) 657-4219

## Disclosure of Certain Relationships

### NOTICE TO VENDORS

**Effective January 1, 2006**, Chapter 176 of the Texas Local Government Code requires that any vendor or person considering doing business with a local governmental entity make certain disclosures concerning any affiliation or business relationship that might cause a conflict of interest with the local governmental entity. The provisions of Chapter 176 and the Form CIQ questionnaire that you must complete, if applicable, to comply with this new law, are available and explained in more detail at the Texas Ethics Commission website at [https://www.ethics.state.tx.us/filinginfo/conflict\\_forms.htm](https://www.ethics.state.tx.us/filinginfo/conflict_forms.htm).

A current list of City of San Angelo and City of San Angelo Development Corporation officers is available in the office of the City of San Angelo City Clerk, Room 201 of City Hall or on the City's website at <http://cosatx.us>. If you are considering doing business with the City of San Angelo or the City of San Angelo Development Corporation and have an affiliation or business relationship that requires you to submit a completed Form CIQ, it must be filed with the records administrator (City Clerk) of the City of San Angelo not later than the 7<sup>th</sup> business day after the date you become aware of facts that require the form to be filed. See Section 176.006, Texas Local Government Code. It is a Class C misdemeanor to violate this provision.

By submitting a response to a City of San Angelo or City of San Angelo Development Corporation Request for Bid proposals, Request for Bids, or Request for Qualifications or by conducting business with either of those two entities, you are representing that you are in compliance with the requirements of Chapter 176 of the Texas Local Government Code.

Nolan A. Sosa  
Purchasing Manager

---

### **LOCAL GOVERNMENT OFFICERS OF THE CITY OF SAN ANGELO** **As defined by Chapter 176 of the Texas Local Government Code** **(Revised 03/05/19)**

For purposes of completion of the required Conflict of Interest Questionnaire for the City of San Angelo (required by all buyers who submit bids/proposals), Local Government Officers are:

#### **City of San Angelo City Council:**

Mayor: Brenda Gunter, Mayor

Councilmembers: Tommy Hiebert, SMD 1  
Tom Thompson, SMD 2  
Harry Thomas, SMD 3  
Lucy Gonzales, SMD 4  
Lane Carter, SMD5 (Mayor Pro Tem)  
Billie DeWitt, SMD 6

City Manager: Daniel Valenzuela

#### **Development Corporation officers are:**

Todd R. Kolls, President  
Bill Dendle, First Vice President  
David Cummings, Second Vice President  
Edward Carrasco, Director  
Garland Freeze, Director  
Max Puello, Director

Executive Director: Guy Andrews



## CONFLICT OF INTEREST QUESTIONNAIRE

For vendor doing business with local governmental entity

**FORM CIQ**

**This questionnaire reflects changes made to the law by H.B. 23, 84th Leg., Regular Session.**

This questionnaire is being filed in accordance with Chapter 176, Local Government Code, by a vendor who has a business relationship as defined by Section 176.001(1-a) with a local governmental entity and the vendor meets requirements under Section 176.006(a).

By law this questionnaire must be filed with the records administrator of the local governmental entity not later than the 7th business day after the date the vendor becomes aware of facts that require the statement to be filed. See Section 176.006(a-1), Local Government Code.

A vendor commits an offense if the vendor knowingly violates Section 176.006, Local Government Code. An offense under this section is a misdemeanor.

### OFFICE USE ONLY

Date Received

**1 Name of vendor who has a business relationship with local governmental entity.**

**2** ☐ **Check this box if you are filing an update to a previously filed questionnaire.** (The law requires that you file an updated completed questionnaire with the appropriate filing authority not later than the 7th business day after the date on which you became aware that the originally filed questionnaire was incomplete or inaccurate.)

**3 Name of local government officer about whom the information is being disclosed.**

\_\_\_\_\_  
Name of Officer

**4 Describe each employment or other business relationship with the local government officer, or a family member of the officer, as described by Section 176.003(a)(2)(A). Also describe any family relationship with the local government officer. Complete subparts A and B for each employment or business relationship described. Attach additional pages to this Form CIQ as necessary.**

A. Is the local government officer or a family member of the officer receiving or likely to receive taxable income, other than investment income, from the vendor?

☐ Yes

☐ No

B. Is the vendor receiving or likely to receive taxable income, other than investment income, from or at the direction of the local government officer or a family member of the officer AND the taxable income is not received from the local governmental entity?

☐ Yes

☐ No

**5 Describe each employment or business relationship that the vendor named in Section 1 maintains with a corporation or other business entity with respect to which the local government officer serves as an officer or director, or holds an ownership interest of one percent or more.**

**6** ☐ Check this box if the vendor has given the local government officer or a family member of the officer one or more gifts as described in Section 176.003(a)(2)(B), excluding gifts described in Section 176.003(a-1).

**7**

\_\_\_\_\_  
Signature of vendor doing business with the governmental entity

\_\_\_\_\_  
Date



**CONFLICT OF INTEREST QUESTIONNAIRE**  
**For vendor doing business with local governmental entity**

A complete copy of Chapter 176 of the Local Government Code may be found at <http://www.statutes.legis.state.tx.us/Docs/LG/htm/LG.176.htm>. For easy reference, below are some of the sections cited on this form.

**Local Government Code § 176.001(1-a):** "Business relationship" means a connection between two or more parties based on commercial activity of one of the parties. The term does not include a connection based on:

- (A) a transaction that is subject to rate or fee regulation by a federal, state, or local governmental entity or an agency of a federal, state, or local governmental entity;
- (B) a transaction conducted at a price and subject to terms available to the public; or
- (C) a purchase or lease of goods or services from a person that is chartered by a state or federal agency and that is subject to regular examination by, and reporting to, that agency.

**Local Government Code § 176.003(a)(2)(A) and (B):**

(a) A local government officer shall file a conflicts disclosure statement with respect to a vendor if:

\*\*\*

(2) the vendor:

(A) has an employment or other business relationship with the local government officer or a family member of the officer that results in the officer or family member receiving taxable income, other than investment income, that exceeds \$2,500 during the 12-month period preceding the date that the officer becomes aware that

(i) a contract between the local governmental entity and vendor has been executed;

or

(ii) the local governmental entity is considering entering into a contract with the vendor;

(B) has given to the local government officer or a family member of the officer one or more gifts that have an aggregate value of more than \$100 in the 12-month period preceding the date the officer becomes aware that:

(i) a contract between the local governmental entity and vendor has been executed; or

(ii) the local governmental entity is considering entering into a contract with the vendor.

**Local Government Code § 176.006(a) and (a-1)**

(a) A vendor shall file a completed conflict of interest questionnaire if the vendor has a business relationship with a local governmental entity and:

(1) has an employment or other business relationship with a local government officer of that local governmental entity, or a family member of the officer, described by Section 176.003(a)(2)(A);

(2) has given a local government officer of that local governmental entity, or a family member of the officer, one or more gifts with the aggregate value specified by Section 176.003(a)(2)(B), excluding any gift described by Section 176.003(a-1); or

(3) has a family relationship with a local government officer of that local governmental entity.

(a-1) The completed conflict of interest questionnaire must be filed with the appropriate records administrator not later than the seventh business day after the later of:

(1) the date that the vendor:

(A) begins discussions or negotiations to enter into a contract with the local governmental entity; or

(B) submits to the local governmental entity an application, response to a request for proposals or bids, correspondence, or another writing related to a potential contract with the local governmental entity; or

(2) the date the vendor becomes aware:

(A) of an employment or other business relationship with a local government officer, or a family member of the officer, described by Subsection (a);

(B) that the vendor has given one or more gifts described by Subsection (a); or

(C) of a family relationship with a local government officer.



## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

#### Debarment and Suspension Certification

- (1) The prospective primary vendor certifies to the best of its knowledge and belief that it and its principals:
  - (a) Are not presently debarred, suspended, proposed for disbarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
  - (b) Have not within a three-year period preceding this application been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State, or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;
  - (c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State, or local) with commission of any of the offenses enumerated in paragraph (1)(b) of this certification; and
  - (d) Have not within a three-year period preceding this application had one or more public transactions (Federal, State, or local) terminated for cause or default.
- (2) Where the prospective primary vendor is unable to certify to any of the statements in this certification, such prospective primary vendor shall attach an explanation to this bid proposal.

**Business Name** \_\_\_\_\_

\_\_\_\_\_  
**Date**

**By:** \_\_\_\_\_  
**Name and Title of Authorized Representative**

\_\_\_\_\_  
**Signature of Authorized Representative**





## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

## Debarment and Suspension Certification

### INSTRUCTIONS

1. By signing and submitting this proposal, the prospective vendor is providing the certification set out below.
2. The inability of a person to provide the certification required below will not necessarily result in denial of participation in this covered transaction. The prospective vendor shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the determination whether to enter into this transaction. However, failure of the prospective vendors to furnish a certification or an explanation shall disqualify such person from participation in this transaction.
3. The certification in this clause is a material representation of fact upon which reliance was placed when the City of San Angelo determined to enter into this transaction. If it is later determined that the prospective vendor knowingly rendered an erroneous certification, in addition to other remedies available, the City of San Angelo may terminate this transaction for cause.
4. The prospective vendor shall provide immediate written notice to the City of San Angelo to which this proposal is submitted if at any time the prospective vendor learns that its certification was erroneous when submitted or has become erroneous because of changed circumstances.
5. The terms "covered transaction," "debarred," "suspended," "ineligible," "lower tier covered transaction," "vendor," "person," "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549(13 CFR Part 145). You may contact the City of San Angelo for assistance in obtaining a copy of these regulations.
6. The prospective vendor agrees by submitting this proposal that, should the proposed transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the City of San Angelo.
7. The prospective vendor further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment and Suspension" provided by the City of San Angelo, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.
8. A vendor in a covered transaction may rely upon a certification of a prospective vendor in a lower tier covered transaction that it is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A vendor may decide the method and frequency by which it determines the ineligibility of its principals. Each vendor may, but is not required to, check the Non-procurement List.
9. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a vendor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.
10. Except for transactions authorized under paragraph 6 of these instructions, if a vendor in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the City of San Angelo, the City of San Angelo may terminate this transaction for cause.



## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

#### Local Preference Consideration

Section 271.9051 of the Texas Local Government Code "CONSIDERATION OF LOCATION OF RESPONDENTS PRINCIPAL PLACE OF BUSINESS":

In accordance with Section 271.9051 of the Texas Local Government Code, if a local government receives one or more competitive sealed bids from a bidder whose principal place of business is in the municipality and whose bid is within five (5%) percent of the lowest bid price received from a bidder who is not a resident of the municipality, on contracts less than \$500,000 and three percent (3%) on contracts over \$500,000.00 the municipality may enter into a contract with (a) the lowest bidder or (b) the bidder whose principal place of business is in the municipality if the governing body of the local government determines, in writing, that the local bidder offers the local government the best combination of contract price and additional economic development opportunities for the local government created by the contract award, including the employment of residents of the local government and increased tax revenues to the local government.

Local Preference Consideration DOES NOT apply to Construction Projects over \$100,000 or Telecommunication and Information Technology Bids/Purchases.

**If you DO NOT have your principal place of business located within the City of San Angelo city limits – STOP – do not fill out this form.**

**This "Application for Local Preference Consideration" does *not* mean that the City of San Angelo is limiting responses to this request for bids/proposals to only those businesses located within the city limits. All bids/proposals are welcome.**

Respondents who wish to qualify under the local preferences law must have their principal place of business located within the San Angelo city limits.

**If your principal place of business is within the San Angelo city limits and you want to apply for local preference consideration, then you must:**

1. Complete the **Local Preference Consideration Application**, and
2. ***Describe in writing and attach supporting documentation***, the additional economic development opportunities for the City of San Angelo that will be created if you are awarded this contract. Include the number of City of San Angelo residents that you will employ to complete this contract and the increased tax revenues that will be generated for the City of San Angelo if you are awarded this contract.



**CITY OF SAN ANGELO**

**PURCHASING DIVISION**

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

**Local Preference Consideration Application**

**Business Name:** \_\_\_\_\_

**Physical Address:** \_\_\_\_\_

**Mailing Address:** \_\_\_\_\_

**City, State, Zip Code:** \_\_\_\_\_

**Business Type:**

- ☐ Corporation – Indicate state of incorporation \_\_\_\_\_
- ☐ Partnership – Indicate “general” or “limited” \_\_\_\_\_
- ☐ Sole proprietorship \_\_\_\_\_

**Attachments:** *Describe in writing, and attach supporting documentation*, the additional economic development opportunities for the City of San Angelo that will be created if you are awarded this contract. Include the number of City of San Angelo residents that you will employ to complete this contract and the increased tax revenues that will be generated for the City of San Angelo if you are awarded this contract.

---

**CERTIFICATION:** I hereby certify under penalty of perjury that the information which I have provided on this form is true and correct, that I am authorized to sign on behalf of the business set out above and if requested by the city will provide, within 10 days of notice, the necessary documents to substantiate the information provided.

(Please print)

\_\_\_\_\_  
Authorized Representative Signature

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

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

(Attach description and documentation of economic impact as outlined on previous page)





## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

#### Vendor Compliance with Reciprocity On Non-Resident Vendors

Government Code 2252.002 provides that, in order to be awarded a contract as low bidder, a non-resident vendor must bid projects for construction, improvements, supplies or services in Texas at an amount lower than the lowest Texas resident vendor by the same amount that a Texas resident vendor would be required to underbid a non-resident vendor in order to obtain a comparable contract in the state in which the non-resident's principal place of business is located. A non-resident vendor is a contractor whose corporate offices or principal place of business is outside of the state of Texas. This requirement does not apply to a contract involving Federal funds. The appropriate blanks in Section A must be filled out by all out-of-state or non-resident vendors in order for your bid to meet specifications. The failure of out-of-state or non-resident contractors to do so will automatically disqualify that vendor. Resident vendors must check the blank in Section B.

- A. Non-resident Vendors in \_\_\_\_\_ (give state), our principal place of business, are required to be \_\_\_\_\_ percent lower than resident vendors by state law. A copy of the statute is attached.

Non-resident Vendors in \_\_\_\_\_ (give state), our principal place of business, are not required to underbid resident vendors.

- B. Our principal place of business or corporate offices are in the State of Texas: \_\_\_\_\_.

VENDOR:

(Please print)

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

\_\_\_\_\_  
Signature

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

\_\_\_\_\_  
Title

\_\_\_\_\_  
Address

\_\_\_\_\_  
City, State Zip Code



## CITY OF SAN ANGELO

### PURCHASING DIVISION

72 West College Avenue, San Angelo, Texas 76903

Tel: (325) 657-4219

#### Verification Relating to Prohibited Contracts – Israel

##### City of San Angelo, Texas, RFB WU-07-19

My name is \_\_\_\_\_, "Declarant".  
(First) (Middle) (Last)

My date of birth is \_\_\_\_\_; and,

My address is \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.  
(Street) (City) (State)

\_\_\_\_\_, and \_\_\_\_\_.  
(Zip Code) (Country)

My position with \_\_\_\_\_, contracting company, is \_\_\_\_\_.  
(contracting company) (office held)

(1) The foregoing named contracting Company does not now and will not during the term of this contract, have contracts with or provide supplies or services to, an entity or company known to have contracts with or to provide supplies or services to a foreign terroristic organization or with an entity or company identified as providing such on a list prepared and maintained by the Texas Comptroller pursuant to Subchapter "F", Sections 2252.151 et. seq., Chapter 2252 "Contracts with Governmental Entity" of the Texas Government Code; neither is contracting Company identified as an entity providing such supplies or services on said list.

(2) The foregoing named contracting Company does not boycott Israel; and will not boycott Israel during the term of the contract with the City of San Angelo.

I declare under penalty of perjury that the foregoing is true and correct.

Executed in \_\_\_\_\_ County, State of \_\_\_\_\_, on the \_\_\_\_\_ day of  
(County)

\_\_\_\_\_, 20 \_\_\_\_\_.  
(Month)

\_\_\_\_\_  
Declarant



**CITY OF SAN ANGELO**  
PURCHASING DIVISION  
72 West College Avenue, San Angelo, Texas 76903  
Tel: (325) 657-4219

### Survey

How did you hear about this RFP?

- ☐ Newspaper
- ☐ Email
- ☐ Letter
- ☐ City Website
- ☐ Person: \_\_\_\_\_
- ☐ Other: \_\_\_\_\_