



CENTRALBIDDING
FROM CENTRAL AUCTION HOUSE

**5000126978 ONE YEAR CONTRACT FOR A SUPPLY OF DUCTILE IRON
FITTINGS AND ADAPTER KITS FOR PRICE BROTHERS PIPE FOR THE
JEFFERSON PARISH DEPARTMENT OF PUBLIC WORKS,
WATERWORKS AND ALL JEFFERSON PARISH AGENCIES AND
MUNICIPALITIES**
Jefferson Parish Government

Project documents obtained from www.CentralBidding.com
27-Jun-2019 02:50:55 PM

DATE: 6/26/2019
BID NO.: 50-00126978

INVITATION TO BID
THIS IS NOT AN ORDER

Page: 1

JEFFERSON PARISH

PURCHASING DEPARTMENT
P.O. BOX 9
GRETNA, LA. 70054-0009
504-364-2678

BUYER: DMEVANS@jeffparish.net

BIDS WILL BE RECEIVED IN THE WEST BANK PURCHASING DEPT, SUITE 4400, JEFFERSON PARISH GENERAL GOVERNMENT BUILDING, 200 DERBIGNY STREET, GRETNA, LA 70053 UNTIL 2:00 PM, 7/11/2019 AND PUBLICLY OPENED THEREAFTER.

For convenience, bidders may also submit bids in the East Bank Purchasing Department, Suite 404, Jefferson Parish Joseph S. Yenni Building, 1221 Elmwood Park Blvd., Jefferson LA 70123. However, if submitting bids on the day of bid opening, bidders must submit at the West Bank location only. All bids will be publicly opened at the West Bank location.

At no charge, bidders may also submit via Jefferson Parish's electronic procurement page by visiting www.jeffparishbids.net to register for this free site. Additional instructions are included in the text box highlighting electronic procurement.

LATE BIDS WILL NOT BE ACCEPTED

Unless submitting via online (see Page 3), each bid must be submitted in a sealed envelope bearing on the outside; the name of the Bidder, his address, and the name of the project for which the bid is submitted and the bid number.

NOTE: ONLY BIDS WRITTEN IN INK OR TYPEWRITTEN, AND PROPERLY SIGNED BY A MEMBER OF THE FIRM OR AUTHORIZED REPRESENTATIVE, WILL BE ACCEPTED. PENCIL AND/OR PHOTOSTATIC FIGURES OR SIGNATURES SHALL RESULT IN BID REJECTION.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

THE FOLLOWING INSTRUCTIONS APPLY TO ALL BIDS

All bids submitted are subject to these instructions and general conditions and any special conditions and specifications contained herein, all of which are made part of this bid proposal reference. By submitting a bid, vendor agrees to comply with all provisions of Louisiana Law as well be in compliance with the Jefferson Parish Code of Ordinances, Louisiana Code of Ethics, applicable Jefferson Parish ethical standards and Jefferson Parish Resolution No. 113646 and/or Resolution No. 113647.

Jefferson Parish adheres to the Louisiana Code of Governmental Ethics, contained in Louisiana Revised Statutes Annotated, R.S. 42:1101, et seq. Vendor/Proposer by this submission, warrants that there are no "conflicts of interest" related to this procurement that would violate applicable Louisiana Law. Violation of the Louisiana Code of Governmental Ethics may result in rescission of contract, permit or licenses, and the imposition of fines and/or penalties, without contractual liability to the public in accordance with applicable law.

All vendors submitting bids should register as a Jefferson Parish vendor if not already yet registered. Registration forms may be downloaded from <http://purchasing.jeffparish.net> and by clicking on Vendor Information. Current W-9 forms with respective Tax Identification numbers and vendor applications may be submitted at any time; however, if your company is not registered and/or a current W-9 form is not on file, vendor registration is mandatory. Further, a current W-9 form and respective Tax Identification number must be supplied upon contract execution, should you be awarded a contract and/or issued purchase order. Failure to do so may result in delay of payment.

All quotations shall be based on F.O.B. Agency warehouse or job site, anywhere within the Parish as designated by the Purchasing Department. This provision does not apply to public works projects

JEFFERSON PARISH requires all products to be new (current) and all work must be performed according to standard practices for the project. Unless otherwise specified, no aftermarket parts will be accepted. Unless otherwise specified, all workmanship and materials must have at least one (1) year guaranty, in writing, from the date of delivery and/or acceptance of the project. Any deviations or alterations from the specifications must be indicated and/or supporting documentation supplied with bid submission.

Bidders should submit all questions in writing via email to the buyer's email address as indicated above, no later than Five (5) working days prior to the bid opening. Bid numbers should be mentioned in all requests. If submitting online, vendors may send questions via the E-Procurement site no later than Five (5) working days prior to the bid opening.

If this bid requires a pre-bid conference (see Additional Requirements section), bidders are advised that such conference will be held to allow bidders the opportunity to identify any discrepancies in the bid specifications and seek further clarification regarding instructions. The Purchasing Department will issue a written response to bidders' questions in the form of an Addendum. Please note that all official communication will be expressed in the form of an addendum.

Visit our website at [HTTP://PURCHASING.JEFFPARISH.NET](http://PURCHASING.JEFFPARISH.NET)

All formal Addenda require written acknowledgement on the bid form by the bidder. Failure to acknowledge an Addendum on the bid form shall cause the bid to be rejected. JEFFERSON PARISH reserves the right to award bid to next lowest responsive and responsible bidder in this event.

JEFFERSON PARISH will accept one price for each item unless otherwise indicated. Two or more prices for one item will result in bid rejection. Bidders are required to complete, sign and return the bid form and/or complete and return the associated line item pricing forms as indicated. Vendors must not alter the bid forms. Doing so will cause the bid to be rejected.

A corporate resolution or written evidence of the individual signing the bid having such authority must be submitted with the bid. Failure to comply will cause bid to be rejected. For corporate entities, such written evidence may be a printout of the Louisiana Secretary of State's website listing the signatory as an officer. Such printout shall be included with the bid submission. Bids submitted by Owners or Sole Proprietorships must include certification that he or she owns the entity for which the bid is signed. This documentation must be submitted with the bid. Failure to do so will result in bid rejection.

NOTE: A sample corporate resolution can be downloaded from our website <http://purchasing.jeffparish.net> or you may provide your own document. A sample certification of sole proprietorship can also be downloaded from our website <http://purchasing.jeffparish.net> or you may provide your own document.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

A. AWARD OF CONTRACT: JEFFERSON PARISH reserves the right to award contracts or place orders on a lump sum or individual item basis, or such combination, as shall in its judgment be in the best interest of JEFFERSON PARISH. Every contract or order shall be awarded to the LOWEST RESPONSIVE AND RESPONSIBLE BIDDER, taking into consideration the CONFORMITY WITH THE SPECIFICATIONS and the DELIVERY AND/OR COMPLETION DATE. SPLIT AWARDS MADE TO SEVERAL VENDORS WILL ONLY BE GRANTED TO THOSE DEEMED RESPONSIVE AND RESPONSIBLE.

All bid prices shall remain valid for 45 days. Jefferson Parish and the lowest responsive and responsible bidder(s) by mutual written consent may mutually agree to extend the deadline for award by one (1) or more extensions of thirty (30) calendar days.

PROTESTS: Only those vendors that submit bids in response to this solicitation may protest any element of the procurement, in writing to the Director of the Purchasing Department. Written protest must be received within 48 hours of the release of the bid tabulation by the Purchasing Department. After consultation, the Parish Attorney's Office will then respond to protests in writing. (For more information, please see Chapter 2, Article VII, Division 2, Sec. 2-914.1 of the Jefferson Parish Code of Ordinances.)

PREFERENCE: Unless federal funding is directly spent by Jefferson Parish for this purchase, preference is hereby given to materials, supplies, and provisions produced, manufactured or grown in Louisiana, quality being equal to articles offered by competitors outside the state. "LSA - R.S. 38:2251-2261"

B. USE OF BRAND NAMES AND STOCK NUMBERS: Where brand names and stock numbers are specified, it is for the purpose of establishing certain minimum standards of quality. Bids may be submitted for products of equal quality, provided brand names and stock numbers are specified. Complete product data may be required prior to award.

C. CANCELLATION OF CONTRACT: JEFFERSON PARISH reserves the right to cancel all or any part if not shipped promptly. No charges will be allowed for parking or cartage unless specified in quotation. The order must not be filled at a higher price than quoted. JEFFERSON PARISH reserves the right to cancel any contract at anytime and for any reason by issuing a THIRTY (30) day written notice to the contractor.

For good cause and as consideration for executing a contract with Jefferson Parish, vendor conveys, sells, assigns and transfers to Jefferson Parish or its assigns all rights, title and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of Louisiana, relating to the particular good or services purchased or acquired by Jefferson Parish.

D. PRICES: Jefferson Parish is exempt from paying sales tax under LSA-R.S. 47:301 (8)(c). All prices for purchases by Jefferson Parish of supplies and materials shall be quoted in the unit of measure specified and unless otherwise specified, shall be exclusive of state and Parish taxes. The price quoted for work shall be stated in figures. In the event there is a difference in unit prices and totals, the unit price shall prevail.

Quantities listed are for bidding purposes only. Actual requirements may be more or less than quantities listed.

Bidders are not to exclude from participation in, deny the benefits of, or subject to discrimination under any program or activity, any person in the United States on the grounds of race, color, national origin, or sex; nor discriminate on the basis of age under the Age Discrimination Act of 1975, or with respect to an otherwise qualified handicapped individual as provided in Section 504 of the Rehabilitation Act of 1973, or on the basis of religion, except that any exemption from such prohibition against discrimination on the basis of religion as provided in the Civil Rights Act of 1964, or Title VI and VII of the Act of April 11, 1968, shall also apply. This assurance includes compliance with the administrative requirements of the Revenue Sharing final handicapped discrimination provisions contained in Section 51.55 (c), (d), (e), and (k)(5) of the Regulations. New construction or renovation projects must comply with Section 504 of the 1973 Rehabilitation Act, as amended, in accordance with the American National Standard Institute's specifications (ANSI A17.1-1981).

Jefferson Parish and its partners as the recipients of federal funds are fully committed to awarding a contract(s) to firm(s) that will provide high quality services and that are dedicated to diversity and to containing costs. Thus, Jefferson Parish strongly encourages the involvement of minority and/or woman-owned business enterprises (DBE's, including MBE's, WBE's and SBE's) to stimulate participation in procurement and assistance programs.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

The purpose and intention of this invitation to bid is to afford all suppliers an equal opportunity to bid on all construction, maintenance, repair, operating supplies and/or equipment listed in this bid proposal. JEFFERSON PARISH WILL ACCEPT ONE BID ONLY FROM EACH VENDOR. Items bid must meet specifications.

Advertised bids will be tabulated and a copy of the tabulation will be forwarded to each responding bidder.

IN ACCORDANCE WITH STATE REGULATIONS JEFFERSON PARISH OFFERS ELECTRONIC PROCUREMENT TO ALL VENDORS

This electronic procurement system allows vendors the convenience of reviewing and submitting bids online. This is a secure site and authorized personnel have limited read access only. Bidders are encouraged to submit electronically using this free service; while the website accepts various file types, one single PDF file containing all appropriate and required bid documents is preferred. Bidders submitting uploaded images of bid responses are solely responsible for clarity. If uploaded images/documents are not legible, then bidder's submission will be rejected. Please note all requirements contained in this bid package for electronic bid submission.

Please visit our E-Procurement Page at www.jeffparishbids.net to register and view Jefferson Parish solicitations. For more information, please visit the Purchasing Department page at <http://purchasing.jeffparish.net>.

The general specifications for construction projects and the purchase of materials, services and/or supplies are those adopted by the JEFFERSON PARISH Council by Resolution No. 113646 or 113647 dated 12/09/09. The general conditions adopted by this resolution shall be considered as much a part of this document as if they were written wholly herein. A copy may be obtained from the Office of the Parish Clerk, Suite 6700, Jefferson Parish General Government Building, 200 Derbigny Street, Gretna, LA 70053. You may also obtain a copy by visiting the Purchasing Department webpage at <http://purchasing.jeffparish.net> and clicking on Online Forms.

ADDITIONAL REQUIREMENTS FOR THIS BID

PLEASE MATCH THE NUMBERS PRINTED IN THIS BOX WITH THE CORRESPONDING INSTRUCTIONS BELOW.

10,12,13,15

1. All bidders must attend the MANDATORY pre-bid conference and will be required to sign in and out as evidence of attendance. In accordance with LSA R.S. 38:2212(I), all prospective bidders shall be present at the beginning of the MANDATORY pre-bid conference and shall remain in attendance for the duration of the conference. Any prospective bidder who fails to attend the conference or remain for the duration shall be prohibited from submitting a bid for the project.
2. Attendance to this pre-bid conference is optional. However, failure to attend the pre-bid conference shall not relieve the bidder of responsibility for information discussed at the conference. Furthermore, failure to attend the pre-bid conference and inspection does not relieve the successful bidder from the necessity of furnishing materials or performing any work that may be required to complete the work in accordance with the specification with no additional cost to the owner.
3. Contractor must hold current applicable JEFFERSON PARISH licenses with the Department of Inspection and Code Enforcement. Contractor shall obtain any and all permits required by the JEFFERSON PARISH Department of Inspection and Code Enforcement. The contractor shall be responsible for the payment of these permits. All permits must be obtained prior to the start of the project. Contractor must also hold any and all applicable Federal and State licenses. Contractor shall be responsible for the payment of these permits and shall obtain them prior to the start of the project.
4. A LA State Contractor's License will be required in accordance with LSA R.S. 37-2150 et. seq. and such license number will be shown on the outside of the bid envelope. Failure to comply will cause the bid to be rejected. Additionally if submitting the bid electronically, then the license number must be entered in the appropriate field in the Electronic Procurement system. Failure to comply will cause the bid to be rejected.
5. It is the bidder's responsibility to visit the job site and evaluate the job before submitting a bid.
6. Job site must be clean and free of all litter and debris daily and upon completion of the contract. Passageways must be kept clean and free of material, equipment, and debris at all times. Flammable material must be removed from the job site daily because storage will not be permitted on the premises. Precautions must be exercised at all times to safeguard the welfare of JEFFERSON PARISH and the general public.

INSTRUCTIONS FOR BIDDERS AND GENERAL CONDITIONS

7. PUBLIC WORKS BIDS: All awards for public works in excess of \$5,000.00 will be reduced to a formal contract which shall be recorded at the contractor's expense with the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. A price list of recordation costs may be obtained from the Clerk of Court and Ex-Officio Recorder of Mortgages for the Parish of Jefferson. All awards in excess of \$25,000.00 will require both a performance and a payment bond. Unless otherwise stated in the bid specifications, the performance bond requirements shall be 100% of the contract price. Unless otherwise state in the bid specifications, the payment bond requirements shall be 100% of the contract price. Both bonds shall be supplied at the signing of the contract.
8. NON-PUBLIC WORKS BIDS: A performance bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The performance bond shall be supplied at the signing of the contract.
9. NON-PUBLIC WORKS BIDS: A payment bond will be required for this bid. The amount of the bond will be 100% of the contract price unless otherwise indicated in the specifications. The payment bond shall be supplied at the signing of the contract.
10. All bidders must comply with the requirements stated in the attached "Standard Insurance Requirements" sheet attached to this bid solicitation. Prior to contract executions/purchase order issuance, the successful bidder will be required to provide final insurance certificates which shall name Jefferson Parish as an additional insured in accordance with the instructions in the aforementioned "Standard Insurance Requirements" sheet.
11. A bid bond will be required with bid submission in the amount of 5% of the total bid, unless otherwise stated in the bid specifications. Acceptable forms shall be limited to cashier's check, certified check, or surety bid bond. All sureties must be in original format (no copies) If submitting a bid online, vendors must submit an electronic bid bond through the respective online clearinghouse bond management system(s) as indicated in the electronic bid solicitation on Central Auction House. No scanned paper copies of any bid bond will be accepted as part of the electronic bid submission.
12. This is a requirements contract to be provided on an as needed basis. JEFFERSON PARISH makes no representations on warranties with regard to minimum guaranteed quantities unless otherwise stated in the bid specifications.
13. Freight charges should be included in total cost when quoting. If not quoted FOB DELIVERED, freight must be quoted as a separate item. Bid may be rejected if not quoted FOB DELIVERED or if freight charges are not indicated on bid form.
14. PUBLIC WORKS BIDS - Completed, Signed and Properly Notarized Affidavits Required; This applies to all solicitations for construction, alteration or demolition of public buildings or projects, in conformity with the provisions contained in LSA-RS 38:2212.9, LSA-RS 38:2212.10, LSA-RS 38:2224, and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Conviction Affidavit, Non-Collusion Affidavit, Campaign Contribution Affidavit, Debt Disclosures Affidavit and E-Verify Affidavit. For the convenience of vendors, all affidavits have been combined into one form entitled PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format, and without material alteration, in order to be compliant and for the bid to be considered responsive. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid, however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
15. NON PUBLIC WORK BIDS - Completed, Signed and Properly Notarized Affidavits Required in conformity with the provisions contained in LSA - RS 38:2224 and Sec 2-923.1 of the Jefferson Parish Code of Ordinances. For bidding purposes, all bidders must submit with bid submission COMPLETED, SIGNED and PROPERLY NOTARIZED Affidavits, including: Non-Collusion Affidavit, Debt Disclosures Affidavit and Campaign Contribution Affidavit. For the convenience of vendors, all affidavits have been combined into one form entitled NON PUBLIC WORKS BID AFFIDAVIT. This affidavit must be submitted in its original format, and without material alteration, in order to be compliant and for the bid to be considered responsive. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid, however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.
16. The ensuing contract for this bid solicitation may be eligible for FEMA reimbursement and/or Federal funding/reimbursement. As such, the referenced appendix will be applicable accordingly and shall be considered a part of the bid documents. All applicable certifications must be duly completed, signed and submitted with bid submission. Failure to submit applicable certifications with bid submission will result in bid rejection.
17. For this project, the Contractor shall not pay any state or local sales or use taxes on materials and equipment which are affixed and made part of the immovable property of the project or which permanently incorporated in the project (hereinafter referred to as "applicable materials and equipment"). All purchases of applicable materials or equipment shall be made by the contractor on behalf of and as the agent of Jefferson Parish (Owner), a political subdivision of the State of Louisiana. No state and local sales and use taxes are owned on applicable materials and equipment under the provisions of Act 1029 of the 1991 Regular Session - Louisiana Revised Statute 47:301(8)(c). Owner will furnish contractor a certificate form which certifies that Owner is not required to pay such state or local sales and use taxes, and contractor shall furnish a copy of such certificate to all vendors or suppliers of the applicable materials and equipment

It shall be the duty of every parish officer, employee, department, agency, special district, board, and commission; and the duty of every contractor, subcontractor, and licensee of the parish, and the duty of every applicant for certification of eligibility for a parish contract or program, to cooperate with the Inspector General in any investigation, audit, inspection, performance review, or hearing pursuant to Jefferson Parish Code of Ordinances Section 2-155.10(19). By submitting a bid, vendor acknowledges this and will abide by all provisions of the referenced Jefferson Parish Code of Ordinances.

See Page 1 for Conflicts of Interest Statement

Ductile Iron Fittings Contract

(Ductile Iron Fittings and Price Brothers' Pipe Adapter Kits)

ITEMS INCLUDED IN THIS CONTRACT:

- GROUP 1. Mechanical Joint Repair Sleeves (Lines 0010 thru 0280)
- GROUP 2. Mechanical Joint 90° Bends (Lines 0290 thru 0400)
- GROUP 3. Mechanical Joint x Flange 90° Bends (Lines 0410 thru 0460)
- GROUP 4. Mechanical Joint 45° Bends (Lines 0470 thru 0580)
- GROUP 5. Mechanical Joint x Flange 45° Bends (Lines 0600 thru 0630)
- GROUP 6. Mechanical Joint 22-½° Bends (Lines 0640 thru 0730)
- GROUP 7. Mechanical Joint 11-¼° Bends (Lines 0750 thru 0780)
- GROUP 8. Mechanical Joint Tees (Lines 0790 thru 0920)
- GROUP 9. Mechanical Joint x Flange Tees (Lines 0970 thru 1025)
- GROUP 10. Mechanical Joint Swivel Tees (Lines 1040 thru 1110)
- GROUP 11. Mechanical Joint Crosses (Lines 1130 thru 1150)
- GROUP 12. Mechanical Joint Concentric Reducers (Lines 1160 thru 1250)
- GROUP 13. Mechanical Joint x Flange Adapters (Lines 1270 thru 1290)
- GROUP 14. Mechanical Joint Caps (Lines 1310 thru 1330)
- GROUP 15. Mechanical Joint Plugs (Lines 1380 thru 1420)
- GROUP 16. Mechanical Joint Offsets (Lines 1470 thru 1480)
- GROUP 17. Price Brothers Adapter Kits (Lines 1500 thru 1570)
- ~~GROUP 18. Flanged Joint, 11-¼° Bend (Protecto 401 Ceramic Interior Lining) (Lines 1580 thru 1590) **Not Used**~~
- ~~GROUP 19. Flanged Joint, 22-½° Bend (Protecto 401 Ceramic Interior Lining) (Lines 1600 thru 1660) **Not Used**~~
- GROUP 20. Flanged Joint, 45° Bend (Protecto 401 Ceramic Interior Lining) (Lines 1710 thru 1715 and Line 2860)
- GROUP 21. Flanged Joint, 90° Bend (Protecto 401 Ceramic Interior Lining) (Lines 1770 thru 1820 and Line 2870)
- GROUP 22. Flanged Joint, 90° Bend, Reducing (Protecto 401 Ceramic Interior Lining) (Lines 1870 thru 1880)
- GROUP 23. Flanged Joint, Crosses (Protecto 401 Ceramic Interior Lining) (Lines 1890 thru 1950)
- GROUP 24. Flanged Joint, Concentric Reducers (Protecto 401 Ceramic Interior Lining) (Lines 1960 thru 2080)
- GROUP 25. Flanged Joint, Tees (Protecto 401 Ceramic Interior Lining) (Lines 2090 thru 2210)
- GROUP 26. Flanged Joint, True Wyes (Protecto 401 Ceramic Interior Lining) (Line 2220)
- GROUP 27. Mechanical Joint, 11-¼° Bend (Protecto 401 Ceramic Interior Lining) (Lines 2230 thru 2240)
- GROUP 28. Mechanical Joint, 22-½° Bend (Protecto 401 Ceramic Interior Lining) (Lines 2250 thru 2300)
- GROUP 29. Mechanical Joint, 45° Bend (Protecto 401 Ceramic Interior Lining) (Lines 2310 thru 2360)

- GROUP 30. Mechanical Joint, 90° Bend (Protecto 401 Ceramic Interior Lining)
(Lines 2370 thru 2420)
- GROUP 31. Mechanical Joint, Crosses (Protecto 401 Ceramic Interior Lining)
(Lines 2430 thru 2480)
- GROUP 32. Mechanical Joint, Concentric Reducers (Protecto 401 Ceramic Interior Lining) (Lines 2490 thru 2580)
- GROUP 33. Mechanical Joint, Tees (Protecto 401 Ceramic Interior Lining)
(Lines 2590 thru 2700)
- GROUP 34. Flange Joint, Tees (Protecto 401 Ceramic Lining)
(Lines 2710 thru 2780)
- GROUP 35. Flange Joint, Concentric Reducer (Protecto 401 Ceramic Lining)
(Line 2790 and Lines 2830 thru 2850)
- GROUP 36. Mechanical Joint, Plugs (Protecto 401 Ceramic Lining)
(Lines 2800 thru 2820)

***** Note: This contract may be awarded accordingly to the low bidder of each group mentioned above. *****

Contract Terms:

This is a one year contract for supply of Ductile Iron Fittings and Adapter Kits for Price Brothers pipe for the Department of Public Works, Waterworks, and all Jefferson Parish agencies and municipalities.

Warranty:

Products shall be warranted that they are manufactured in accordance with the applicable material specifications and are free from defects in workmanship and materials for one year after delivery. Any defective items sold under this contract shall be replaced at no cost to the purchaser.

General Specifications:

This specification is prepared for a one (1) year contract for a supply of Ductile Iron Fittings and Adapter Kits for Price Brothers pipe for the Parish of Jefferson, Department of Water, East and Westbank.

The quantities shown on the proposal guide are approximate quantities to be acquired by Jefferson Parish over a one (1) year period. Actual usage will be on an "as needed" basis.

Domestic as well as globally sourced (foreign) ductile iron fittings shall be allowed. All globally sourced (foreign) fittings shall also be manufactured at an ISO (International Organization for Standardization) registered manufacturer, which manufacturer shall have current ISO 9001 certification for standardization for fitting products. These manufacturing facilities must be covered under periodic audits by third party accreditation bodies for evaluations. These evaluations shall include manufacturing processes, quality control, corrective and preventive actions, and document control. In addition, distribution centers must be audited by third party approval agencies for periodic confirmation tests and surveillance audits. These periodic confirmation tests and surveillance audits shall document continuation of product approvals by auditing the entire quality systems including design, infrastructure, system implementation,

distribution, training, quality control and assurance, and document control. All fittings must be manufactured in accordance with NSF 61.

All technical literature containing the brand and part numbers that your company is bidding on must be submitted with the bid.

The manufacturer's name and the country of origin must be stamped on all fittings.

Bid delivery shall include all freight and delivery costs to Jefferson Parish warehouse locations on the East and West Banks of Jefferson Parish.

Technical Specifications:

I. Ductile Iron Fittings:

Fittings shall be available in 3" through 48" sizes and shall be cast from ductile iron in accordance with ANSI/AWWA C110/A21.10 and ANSI/AWWA C111/A21.11. Compact fittings shall be available in 3" through 24" and shall be cast from ductile iron in accordance with ANSI/AWWA C153/A21.53. All fittings shall have working pressure rating of 350 psi.

Ductile iron fittings shall have factory applied fusion bonded epoxy coating inside and out, in accordance with all applicable provisions of AWWA C-550 and ANSI/AWWA C116/A21.16-98 (protective fusion-bonded epoxy coatings for the interior and exterior surfaces of ductile iron fittings for water supply services).

II. Adapter Kits For Price Brothers Pipe (16" - 48"):

The purpose of these adapter kits is to connect Price Brothers pipe (Prestressed Concrete Cylinder Pipe, or PCCP) to valves, PVC C-900 or ductile iron pipe. Each kit shall include the following for each size:

- A) One each, price brother bell x mechanical joint spigot, minimum 18" long.
- B) One each, price-brother spigot x mechanical joint spigot, minimum 18" long.
- C) Two each, PCCP O-ring gaskets.
- D) Two each, PCCP diaper (grout bands).

III. Ductile Iron Fittings (Protecto 401 Interior Lining):

Fittings shall be available in 3" through 48" sizes and shall be cast from ductile iron in accordance with ANSI/AWWA C110/A21.10 and ANSI/AWWA C111/A21.11. Compact fittings shall be available in 3" through 24" and shall be cast from ductile iron in accordance with ANSI/AWWA C153/A21.53. All fittings shall have working pressure rating of 350 psi.

Ductile iron fittings shall have a factory applied interior coating/lining of "Protecto 401" ceramic epoxy lining as per manufacturer's recommendations and requirements for sanitary sewer applications and factory asphaltic exterior coating.

Non-Public Works Bid Affidavit Instructions

- Affidavit is supplied as a courtesy to Affiants, but it is the responsibility of the affiant to insure the affidavit they submit to Jefferson Parish complies, in both form and content, with federal, state and parish laws.
- Affidavit must be signed by an authorized representative of the entity or the affidavit will not be accepted.
- Affidavit must be notarized or the affidavit will not be accepted.
- Notary must sign name, print name, and include bar/notary number, or the affidavit will not be accepted.
- Affiant **MUST** select either A or B when required or the affidavit will not be accepted.
- Affiants who select choice A must include an attachment or the affidavit will not be accepted.
- If both choice A and B are selected, the affidavit will not be accepted.
- Affidavit marked N/A will not be accepted.
- It is the responsibility of the Affiant to submit a new affidavit if any additional campaign contributions are made after the affidavit is executed but prior to the time the council acts on the matter.

Instruction sheet may be omitted when submitting the affidavit

Non-Public Works Bid

AFFIDAVIT

STATE OF _____

PARISH/COUNTY OF _____

BEFORE ME, the undersigned authority, personally came and appeared: _____
_____, (Affiant) who after being by me duly sworn, deposed and said that
he/she is the fully authorized _____ of _____ (Entity),
the party who submitted a bid in response to Bid Number _____, to the Parish of
Jefferson.

Affiant further said:

Campaign Contribution Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all campaign contributions, including the date and amount of each contribution, made to current or former elected officials of the Parish of Jefferson by Entity, Affiant, and/or officers, directors and owners, including employees, owning 25% or more of the Entity during the two-year period immediately preceding the date of this affidavit or the current term of the elected official, whichever is greater. Further, Entity, Affiant, and/or Entity Owners have not made any contributions to or in support of current or former members of the Jefferson Parish Council or the Jefferson Parish President through or in the name of another person or legal entity, either directly or indirectly.

Choice B _____ there are **NO** campaign contributions made which would require disclosure under Choice A of this section.

Debt Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all debts owed by the affiant to any elected or appointed official of the Parish of Jefferson, and any and all debts owed by any elected or appointed official of the Parish to the Affiant.

Choice B _____ There are **NO** debts which would require disclosure under Choice A of this section.

Affiant further said:

That Affiant has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for Affiant; and

[The remainder of this page is intentionally left blank.]

That no part of the contract price received by Affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for Affiant.

Signature of Affiant

Printed Name of Affiant

SWORN AND SUBSCRIBED TO BEFORE ME

ON THE _____ DAY OF _____, 20____.

Notary Public

Printed Name of Notary

Notary/Bar Roll Number

My commission expires _____.

CORPORATE RESOLUTION

EXCERPT FROM MINUTES OF MEETING OF THE BOARD OF DIRECTORS OF

INCORPORATED.

AT THE MEETING OF DIRECTORS OF _____
INCORPORATED, DULY NOTICED AND HELD ON _____,
A QUORUM BEING THERE PRESENT, ON MOTION DULY MADE AND SECONDED. IT
WAS:

RESOLVED THAT _____, BE AND IS HEREBY
APPOINTED, CONSTITUTED AND DESIGNATED AS AGENT AND ATTORNEY-IN-
FACT OF THE CORPORATION WITH FULL POWER AND AUTHORITY TO ACT ON
BEHALF OF THIS CORPORATION IN ALL NEGOTIATIONS, BIDDING, CONCERNS
AND TRANSACTIONS WITH THE PARISH OF JEFFERSON OR ANY OF ITS AGENCIES,
DEPARTMENTS, EMPLOYEES OR AGENTS, INCLUDING BUT NOT LIMITED TO, THE
EXECUTION OF ALL BIDS, PAPERS, DOCUMENTS, AFFIDAVITS, BONDS, SURETIES,
CONTRACTS AND ACTS AND TO RECEIVE ALL PURCHASE ORDERS AND NOTICES
ISSUED PURSUANT TO THE PROVISIONS OF ANY SUCH BID OR CONTRACT, THIS
CORPORATION HEREBY RATIFYING, APPROVING, CONFIRMING, AND ACCEPTING
EACH AND EVERY SUCH ACT PERFORMED BY SAID AGENT AND ATTORNEY-IN-
FACT.

I HEREBY CERTIFY THE FOREGOING TO BE
A TRUE AND CORRECT COPY OF AN
EXCERPT OF THE MINUTES OF THE ABOVE
DATED MEETING OF THE BOARD OF
DIRECTORS OF SAID CORPORATION, AND
THE SAME HAS NOT BEEN REVOKED OR
RESCINDED.

SECRETARY-TREASURER

DATE

STANDARD INSURANCE REQUIREMENTS FOR BIDDING PURPOSES

All required insurance under this bid shall conform to Jefferson Parish Resolution No. 113646 or No. 113647, as applicable. Contractors may not commence any work under any ensuing contract unless and until all required insurance and associated evidentiary requirements thereto have been met, along with any additional specifications contained in the **Invitation to Bid**. Except as where otherwise precluded by law, the Parish Attorney or his designee, with the concurrence of the Director of Risk Management or his designee, may agree on a case-by-case basis, to deviate from Jefferson Parish's standard insurance requirements, as provided in this Section. Vendors requesting deviation therefrom shall submit such requests in writing, along with compelling substantiation, to the Purchasing Department prior to the bid's due date. Any changes to the insurance requirements will be reflected in the bid specifications and addenda. Prior to contract execution and at all times thereafter during the term of such contract, contractors must provide and continuously maintain all coverages as required by the foregoing Resolutions, and the contract documents. Failure to do so shall be grounds for suspension, discontinuation or termination of the contract.

For bidding purposes, bidders must submit with bid submission a current (valid) insurance certificate evidencing the required coverages. Failure to comply will cause bid to be rejected. The current insurance certificate will be used for proof of insurance at time of evaluation. Thereafter, and prior to contract execution, the low bidder will be required to provide final insurance certificates to the Parish which shall name **the Jefferson Parish, its Districts Departments and Agencies under the direction of the Parish President and the Parish Council** as additional insureds regarding negligence by the contractor for the Commercial General Liability, Workmen's Compensation Insurance and the Comprehensive Automobile Liability policies. Additionally, said certificates should reflect the name of the Parish Department receiving goods and services and reference the respective Jefferson Parish bid number.

JEFFERSON PARISH REQUIRED STANDARD INSURANCE

☐ WORKER'S COMPENSATION INSURANCE

As required by Louisiana State Statute, exception; Employer's Liability, Section B shall be \$1,000,000 per occurrence when Work is to be over water and involves maritime exposures to cover all employees not covered under the State Worker's Compensation Act, otherwise this limit shall be no less than \$500,000 per occurrence.

Note: If your company is not required by law to carry workmen's compensation insurance, i.e. not a Louisiana company, sole employee of the company, then bidders must request a workmen's compensation insurance declaration affidavit prior to the bid opening date. This insurance declaration affidavit must be fully completed, signed, properly notarized and submitted with the bid. A scanned copy may be submitted with the bid; however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being

rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.

☐ **COMMERCIAL GENERAL LIABILITY**

Shall provide limits not less than the following: \$1,000,000.00 Combined Single Limit per Occurrence for bodily injury and property damage.

☐ **COMPREHENSIVE AUTOMOBILE LIABILITY**

Bodily injury liability \$1,000,000.00 each person; \$1,000,000.00 each occurrence.
Property Damage Liability \$1,000,000.00 each occurrence.

Note: This category may be omitted if bidders do not/will not utilize company vehicles for the project or do not possess company vehicles. Bidder must request an automobile insurance declaration affidavit prior to the bid opening date. This insurance declaration affidavit must be fully completed, signed, properly notarized and submitted with the bid. A scanned copy of the completed, signed and properly notarized affidavit may be submitted with the bid; however, the successful bidder must submit the original affidavit in its original format and without material alteration upon contract execution. Failure to comply will result in the bid submission being rejected as non-responsive. The Parish reserves the right to award bid to the next lowest responsive and responsible bidder in this event.

DEDUCTIBLES - The Parish Attorney with concurrence of the Director of Risk Management have waived the deductible section of the Terms and Conditions for all Invitations to Bid, until further notice.

UMBRELLA LIABILITY COVERAGE

An umbrella policy or excess may be used to meet minimum requirements.

FOR CONSTRUCTION AND RENOVATION PROJECTS:

The following are required unless otherwise specified in the bid. Such insurance is due upon contract execution.

1) **OWNER'S PROTECTIVE LIABILITY**

To be for the same limits of liability for bodily injury and property damage liability established for commercial general liability.

2) **BUILDER'S RISK INSURANCE**

The contractor shall maintain Builder's Risk Insurance at his own expense to insure both the owner (Parish of Jefferson) and contractor as their interest may appear.



JEFFERSON PARISH

Department of Purchasing

Michael S. Yenni
Parish President

Renny Simno
Director

June 2019

CHANGES TO JEFFERSON PARISH BIDDING PROCEDURES

The Jefferson Parish Purchasing Department would like to make vendors aware of the following changes:

DEDUCTIBLES: The Parish Attorney with concurrence of the Director of Risk Management have waived the deductible section of the Terms and Conditions for all Invitations to Bid, until further notice.

PROTESTS: Only those vendors that submit bids in response to a solicitation may protest any element of the procurement, in writing to the Director of the Purchasing Department. Written protest must be received within 48 hours of the release of the bid tabulation by the Purchasing Department. After consultation, the Parish Attorney's Office will then respond to protests in writing.
(For more information, please see Chapter 2, Article VII, Division 2, Sec. 2-914.1 of the Jefferson Parish Code of Ordinances.)

Please contact the Jefferson Parish Purchasing Department at 504-364-2678 if you have any questions or need assistance.



Ceramic Epoxy Lined Ductile Iron
Fittings



Quality – Service – Commitment – Delivered.

PROTECTO 401 C110 DUCTILE IRON FLANGED FITTINGS

PROTECTO 401 C110 DUCTILE IRON FLANGED FITTING BASIC SPECIFICATIONS

- SIZES:**
- 2" - 64"
- MATERIAL:**
- Ductile Iron ASTM A536 Grade 60-42-10, 65-45-12 or 70-50-05.
- PRESSURE:**
- 250 PSI Water Working Pressure for Ductile Iron sizes 2" - 48".
 - 150 PSI Water Working Pressure for Ductile Iron sizes 54" - 64".
- TESTING:**
- In accordance with ANSI / AWWA C110 / A21.10 where applicable.
 - Other items are in accordance with manufacturer's standards.
 - 54" and above Flanged Fittings are manufactured as per AWWA C153/A21.53.
 - All fittings are hydrostatically tested in accordance with SIGMA Quality Management Standard.
 - All fittings are heat coded to ensure traceability and verification of metallurgical properties in accordance with SIGMA Quality Management Standards.
- LAYING LENGTH:**
- In accordance with ANSI / AWWA C110 / A21.10 where applicable.
 - Other items are in accordance with manufacturer's standards.
 - 54" and above Flanged Fittings are manufactured as per AWWA C153/A21.53.
- COATING:**
- Interior of fitting is lined with Protecto 401 (ceramic epoxy coating) standard for lining ductile iron pipe and fittings. Designed specifically for the protection of ductile iron for sanitary sewer service by providing a reliability similar to cement mortar lining in drinking water service but having the excellent chemical resistance of a novalac epoxy for septic sewer service.
 - Exterior: Red Primer
- GASKETS:**
- SBR in accordance with ANSI/AWWA C111/A21.11 & ANSI/AWWA C111/A21.11.
 - Also available in EPDM, NBR and CR.
- APPROVALS:**
- 2"-16" Underwriters Laboratories listed and Factory Mutual Approved.
- STANDARDS:**
- ANSI / AWWA C110 / A21.10 Where applicable.
 - Other items are in accordance with manufacturer's standards.
 - 54" and above Flanged Fittings are manufactured as per AWWA C153/A21.53.
- INSTALLATION:**
- Per ANSI/AWWA C600 and C111 using DIP conforming to C150/C151 and PVC pipe conforming to C900/C905.



FUSION BONDED EPOXY COATED C110 DUCTILE IRON FLANGED FITTINGS

FUSION BONDED EPOXY COATED C110 DUCTILE IRON FLANGED FITTINGS

BASIC SPECIFICATIONS

- SIZES:** • 2" - 64"
- MATERIAL:** • Ductile Iron ASTM A536 Grade 60-42-10, 65-45-12 or 70-50-05.
- PRESSURE:** • 250 PSI Water Working Pressure for Ductile Iron sizes 2" - 48".
• 150 PSI Water Working Pressure for Ductile Iron sizes 54" - 64".
- TESTING:** • In accordance with ANSI / AWWA C110 / A21.10 where applicable.
• Other items are in accordance with manufacturer's standards.
• 54" and above Flanged Fittings are manufactured as per AWWA C153/A21.53.
• All fittings are hydrostatically tested in accordance with SIGMA Quality Management Standard.
• All fittings are heat coded to ensure traceability and verification of metallurgical properties in accordance with SIGMA Quality Management Standards.
- LAYING LENGTH:** • In accordance with ANSI / AWWA C110 / A21.10 where applicable.
• Other items are in accordance with manufacturer's standards.
• 54" and above Flanged Fittings are manufactured as per AWWA C153/A21.53.
- COATING:** • SIGMA FBE Coated Fittings are NSF61 and Annex G approved for potable water applications. The Epoxy Coated Fittings meet or exceed ANSI/AWWA C116/A21.16 and C550 standards (Protective Fusion-Bonded Epoxy Coatings for the Interior and Exterior surfaces of Ductile-Iron and Gray-Iron fittings for water supply service).
• FBE coated fittings of SIGMA are available from 2" to 48" in accordance with ANSI/AWWA C110/A21.10.
- GASKETS:** • SBR in accordance with ANSI/AWWA C111/A21.11 & ANSI/AWWA C111/A21.11.
• Also available in EPDM, NBR and CR.
- APPROVALS:** • 2"-16" Underwriters Laboratories listed and Factory Mutual Approved.
- STANDARDS:** • Certified to NSF61 Standard including Annex G & 372.
• ANSI / AWWA C110 / A21.10 Where applicable.
• Other items are in accordance with manufacturer's standards.
• 54" and above Flanged Fittings are manufactured as per AWWA C153/A21.53.
- INSTALLATION:** • Per ANSI/AWWA C600 and C111 using DIP conforming to C150/C151 and PVC pipe conforming to C900/C905.





Quality – Service – Commitment – Delivered.

FUSION BONDED EPOXY COATED C153 DUCTILE IRON MECHANICAL JOINT FITTINGS

FUSION BONDED EPOXY COATED C153 DUCTILE IRON MECHANICAL JOINT FITTINGS

BASIC SPECIFICATIONS

- SIZES:**
- 2" - 64"
- MATERIAL:**
- Ductile Iron ASTM A536, Grade 65-45-12, 60-42-10 or 70-50-05.
- PRESSURE:**
- 350 PSI Water Working Pressure 2" - 24".
 - 250 PSI Water Working Pressure 30" - 48".
 - 150 PSI Water Working Pressure 54" - 64".
- TESTING:**
- In accordance with ANSI/AWWA C153/A21.53.
 - In accordance with UL - FM requirements.
 - All fittings are hydrostatically tested in accordance with SIGMA Quality Management Standard.
 - All fittings are heat coded to ensure traceability and verification of metallurgical properties in accordance with the prevailing standards and SIGMA Quality Management Standards.
- LAYING LENGTH:**
- Short body design - straight section of body deleted to provide a compact and lighter fitting without reducing strength or flow characteristics.
 - In accordance with ANSI/AWWA C153/A21.53.
- DEFLECTION:**
- Maximum allowable deflection for MJ Joint on a full length pipe is as mentioned below:
 1. 3" - 4" = 8 Degrees
 2. 6" = 7 Degrees
 3. 8" - 12" = 5 Degrees
 4. 14" - 48" = 3 Degrees
- COATING:**
- SIGMA FBE Coated Fittings are NSF61 and Annex G approved for potable water applications. The Epoxy Coated Fittings meet or exceed ANSI/AWWA C116/A21.16 and C550 standards (Protective Fusion-Bonded Epoxy Coatings for the Interior and Exterior surfaces of Ductile-Iron and Gray-Iron fittings for water supply service).
 - FBE coated fittings of SIGMA are available from 2" to 48" in accordance with ANSI/AWWA C153/A21.53.
- GASKETS:**
- SBR in accordance with ANSI/AWWA C111/A21.11.
 - Also available in EPDM, NBR and CR.
- T-BOLTS:**
- Low Alloy corrosion resistant high strength steel in accordance with ANSI/AWWA C111/A21.11.
- APPROVALS:**
- 3"-16" Underwriters Laboratories listed and Factory Mutual Approved.
- STANDARDS:**
- Certified to NSF61 Standard including Annex G & 372.
 - ANSI/AWWA C153/A21.53 for Compact Ductile Iron Fittings 2"-64" for water and other liquids.
- INSTALLATION:**
- Per ANSI/AWWA C600 and C111 using DIP conforming to C150/C151 and PVC pipe conforming to C900/C905.



PROTECTO 401

Ceramic Epoxy Lined Ductile Iron
Fittings

SIGMA™

Quality – Service – Commitment – Delivered.

PROTECTO 401 C153 DUCTILE IRON MECHANICAL JOINT FITTINGS

PROTECTO 401 C153 DUCTILE IRON MECHANICAL JOINT FITTINGS

BASIC SPECIFICATIONS

- SIZES:** • 2" - 64"
- MATERIAL:** • Ductile Iron ASTM A536, Grade 65-45-12, 60-42-10 or 70-50-05.
- PRESSURE:** • 350 PSI Water Working Pressure 2" - 24".
• 250 PSI Water Working Pressure 30" - 48".
• 150 PSI Water Working Pressure 54" - 64".
- TESTING:** • In accordance with ANSI/AWWA C153/A21.53.
• In accordance with UL - FM requirements.
• All fittings are hydrostatically tested in accordance with SIGMA Quality Management Standard.
• All fittings are heat coded to ensure traceability and verification of metallurgical properties in accordance with the prevailing standards and SIGMA Quality Management Standards.
- LAYING LENGTH:** • Short body design - straight section of body deleted to provide a compact and lighter fitting without reducing strength or flow characteristics.
• In accordance with ANSI/AWWA C153/A21.53.
- DEFLECTION:** • Maximum allowable deflection for MJ Joint on a full length pipe is as mentioned below:
1. 3" - 4" = 8 Degrees
2. 6" = 7 Degrees
3. 8" - 12" = 5 Degrees
4. 14" - 48" = 3 Degrees
- COATING:** • Interior of fitting is lined with Protecto 401 (ceramic epoxy coating) standard for lining ductile iron pipe and fittings. Designed specifically for the protection of ductile iron for sanitary sewer service by providing a reliability similar to cement mortar lining in drinking water service but having the excellent chemical resistance of a novalac epoxy for septic sewer service.
• Exterior of fitting is seal coated (asphaltic material) in accordance with ANSI/AWWA C153/A21.53 and NSF approved.
- GASKETS:** • SBR in accordance with ANSI/AWWA C111/A21.11.
• Also available in EPDM, NBR and CR.
- T-BOLTS:** • Low Alloy corrosion resistant high strength steel in accordance with ANSI/AWWA C111/A21.11.
- APPROVALS:** • 3"-16" Underwriters Laboratories listed and Factory Mutual Approved.
- STANDARDS:** • ANSI/AWWA C153/A21.53 for Compact Ductile Iron Fittings 2"-64" for water and other liquids.
- INSTALLATION:** • Per ANSI/AWWA C600 and C111 using DIP conforming to C150/C151 and PVC pipe conforming to C900/C905.





Quality – Service – Commitment – Delivered.

FUSION BONDED EPOXY COATED C110 DUCTILE IRON MECHANICAL JOINT FITTINGS

FUSION BONDED EPOXY COATED C110 DUCTILE IRON MECHANICAL JOINT FITTINGS

BASIC SPECIFICATIONS

- SIZES:**
- 2" - 48"
- MATERIAL:**
- Ductile Iron ASTM A536, Grade 65-45-12, 60-42-10 or 70-50-05.
- PRESSURE:**
- 350 PSI Water Working Pressure 2" - 24".
 - 250 PSI Water Working Pressure 30" - 48".
- TESTING:**
- In accordance with ANSI/AWWA C110/A21.10
 - In accordance with UL - FM requirements.
 - All fittings are hydrostatically tested in accordance with SIGMA Quality Management Standard.
 - All fittings are heat coded to ensure traceability and verification of metallurgical properties in accordance with the prevailing standards and SIGMA Quality Management Standards.
- LAYING LENGTH:**
- In accordance with ANSI / AWWA C110/A21.10.
- DEFLECTION:**
- Maximum allowable deflection for MJ Joint on a full length pipe is as mentioned below:
 1. 3" - 4" = 8 Degrees
 2. 6" = 7 Degrees
 3. 8" - 12" = 5 Degrees
 4. 14" - 48" = 3 Degrees
- COATING:**
- SIGMA FBE Coated Fittings are NSF61 and Annex G approved for potable water applications. The Epoxy Coated Fittings meet or exceed ANSI/AWWA C116/A21.16 and C550 standards (Protective Fusion-Bonded Epoxy Coatings for the Interior and Exterior surfaces of Ductile-Iron and Gray-Iron fittings for water supply service).
 - FBE coated fittings of SIGMA are available from 2" to 48" in accordance with ANSI/AWWA C110/A21.10.
- GASKETS:**
- SBR in accordance with ANSI/AWWA C111/A21.11.
 - Also available in EPDM, NBR and CR.
- T-BOLTS:**
- Low Alloy corrosion resistant high strength steel in accordance with ANSI/AWWA C111/A21.11.
- APPROVALS:**
- 3"-16" Underwriters Laboratories listed and Factory Mutual Approved.
- STANDARDS:**
- Certified to NSF61 Standard including Annex G & 372.
 - ANSI / AWWA C110/A21.10 for Full Body Ductile Iron Fittings 2"-48" for water and other liquids.
- INSTALLATION:**
- Per ANSI/AWWA C600 and C111 using DIP conforming to C150/C151 and PVC pipe conforming to C900/C905.





Ceramic Epoxy Lined Ductile Iron
Fittings



Quality – Service – Commitment – Delivered.

PROTECTO 401 C110 DUCTILE IRON MECHANICAL JOINT FITTINGS

PROTECTO 401 C110 DUCTILE IRON MECHANICAL JOINT FITTINGS

BASIC SPECIFICATIONS

- SIZES:**
- 2" - 48"
- MATERIAL:**
- Ductile Iron ASTM A536, Grade 65-45-12, 60-42-10 or 70-50-05.
- PRESSURE:**
- 350 PSI Water Working Pressure 2" - 24".
 - 250 PSI Water Working Pressure 30" - 48".
- TESTING:**
- In accordance with ANSI/AWWA C110/A21.10
 - In accordance with UL - FM requirements.
 - All fittings are hydrostatically tested in accordance with SIGMA Quality Management Standard.
 - All fittings are heat coded to ensure traceability and verification of metallurgical properties in accordance with the prevailing standards and SIGMA Quality Management Standards.
- LAYING LENGTH:**
- In accordance with ANSI / AWWA C110/A21.10.
- DEFLECTION:**
- Maximum allowable deflection for MJ Joint on a full length pipe is as mentioned below:
 1. 3" - 4" = 8 Degrees
 2. 6" = 7 Degrees
 3. 8" - 12" = 5 Degrees
 4. 14" - 48" = 3 Degrees
- COATING:**
- Interior of fitting is lined with Protecto 401 (ceramic epoxy coating) standard for lining ductile iron pipe and fittings. Designed specifically for the protection of ductile iron for sanitary sewer service by providing a reliability similar to cement mortar lining in drinking water service but having the excellent chemical resistance of a novalac epoxy for septic sewer service.
 - Exterior of fitting is seal coated (asphaltic material) in accordance with ANSI/AWWA C110/A21.10 and NSF approved.
- GASKETS:**
- SBR in accordance with ANSI/AWWA C111/A21.11.
 - Also available in EPDM, NBR and CR.
- T-BOLTS:**
- Low Alloy corrosion resistant high strength steel in accordance with ANSI/AWWA C111/A21.11.
- APPROVALS:**
- 3"-16" Underwriters Laboratories listed and Factory Mutual Approved.
- STANDARDS:**
- ANSI / AWWA C110/A21.10 for Full Body Ductile Iron Fittings 2"-48" for water and other liquids.
- INSTALLATION:**
- Per ANSI/AWWA C600 and C111 using DIP conforming to C150/C151 and PVC pipe conforming to C900/C905.



SIAMA

QTY	Item No.	Description
1	EDML3	3 C153 MJ LP SLV FBE
1	EDML4	4 C153 MJ LP SLV FBE
1	EDMS4	4 C153 MJ SP SLV FBE
1	EDML6	6 C153 MJ LP SLV FBE
1	EDMS6	6 C153 MJ SP SLV FBE
1	EDML8	8 C153 MJ LP SLV FBE
1	EDMS8	8 C153 MJ SP SLV FBE

SIGMA

QTY	Item No.	Description
1	EDML10	10 C153 MJ LP SLV FBE
1	EDMS10	10 C153 MJ SP SLV FBE
1	EDML12	12 C153 MJ LP SLV FBE
1	EDMS12	12 C153 MJ SP SLV FBE
1	EDML14	14 C153 MJ LP SLV FBE
1	EDML16	16 C153 MJ LP SLV FBE
1	EDMS16	16 C153 MJ SP SLV FBE
1	EDML18	18 C153 MJ LP SLV FBE
1	EDMS18	18 C153 MJ SP SLV FBE
1	EDML24	24 C153 MJ LP SLV FBE
1	EDMS24	24 C153 MJ SP SLV FBE
1	EDML30	30 C153 MJ LP SLV FBE
1	EDML30	30 C153 MJ LP SLV FBE
1	EXML36	36 C110 MJ LP SLV FBE
1	EXMS36	36 C110 MJ SP SLV FBE
1	EXML42	42 C110 MJ LP SLV FBE
1	EXMS48	48 C110 MJ SP SLV FBE
1	EDMB390	3 C153 MJ 90 FBE
1	EDMB490	4 C153 MJ 90 FBE
1	EDMB690	6 C153 MJ 90 FBE
1	EDMB890	8 C153 MJ 90 FBE
1	EDMB1290	12 C153 MJ 90 FBE
1	EDMB1890	18 C153 MJ 90 FBE
1	EXMB3090	30 C110 MJ 90 FBE
1	EXMB3690	36 C110 MJ 90 FBE
1	EMFB390	3 C153 MJxFLG 90 FBE
1	EMFB490	4 C153 MJxFLG 90 FBE
1	EMFB690	6 C153 MJxFLG 90 FBE
1	EXMFB3045	30 C110 MJxFLG 90 FBE
1	EDMB345	3 C153 MJ 45 FBE
1	EDMB445	4 C153 MJ 45 FBE
1	EDMB645	6 C153 MJ 45 FBE
1	EDMB845	8 C153 MJ 45 FBE
1	EDMB1245	12 C153 MJ 45 FBE
1	EDMB1445	14 C153 MJ 45 FBE
1	EDMB1645	16 C153 MJ 45 FBE
1	EDMB2445	24 C153 MJ 45 FBE
1	EXMB3045	30 C110 MJ 45 FBE
1	EMFB345	3 C153 MJxFLG 45 FBE
1	EMFB645	6 C153 MJxFLG 45 FBE
1	EMFB845	8 C153 MJxFLG 45 FBE
1	EDMB322	3 C153 MJ 22-1/2 FBE
1	EDMB422	4 C153 MJ 22-1/2 FBE
1	EDMB622	6 C153 MJ 22-1/2 FBE

SICMA

QTY	Item No.	Description
2	EDMB822	8 C153 MJ 22-1/2 FBE
1	EDMB1822	18 C153 MJ 22-1/2 FBE
1	EDMB2022	20 C153 MJ 22-1/2 FBE
1	EDMB611	6 C153 MJ 11-1/4 FBE
1	EDMB811	8 C153 MJ 11-1/4 FBE
1	EDMB1211	12 C153 MJ 11-1/4 FBE
1	EDMB2011	20 C153 MJ 11-1/4 FBE
1	EDMT33	3 C153 MJ TEE FBE
1	EDMT44	4 C153 MJ TEE FBE
1	EDMT64	6x4 C153 MJ TEE FBE
1	EDMT66	6 C153 MJ TEE FBE
1	EDMT86	8x6 C153 MJ TEE FBE
1	EDMT88	8 C153 MJ TEE FBE
1	EDMT106	10x6 C153 MJ TEE FBE
1	EDMT108	10x8 C153 MJ TEE FBE
1	EDMT1010	10 C153 MJ TEE FBE
1	EDMT126	12x6 C153 MJ TEE FBE
1	EDMT128	12x8 C153 MJ TEE FBE
1	EDMT1212	12 C153 MJ TEE FBE
1	EDMT166	16x6 C153 MJ TEE FBE
1	EDMT168	16x8 C153 MJ TEE FBE
1	EDMF64	6x4 C153 MJxFLG TEE FBE
3	EDMF66	6 C153 MJxFLG TEE FBE
1	EDMF86	8x6 C153 MJxFLG TEE FBE
1	EDMF106	10x6 C153 MJxFLG TEE FBE
1	EDMF126	12x6 C153 MJxFLG TEE FBE
1	EDMF146	14x6 C153 MJxFLG TEE FBE
1	EDMH66	6 C153 MJxSW TEE FBE
1	EDMH86	8x6 C153 MJxSW TEE FBE
1	EDMH88	8 C153 MJxSW TEE FBE
1	EDMH106	10x6 C153 MJxSW TEE FBE
1	EDMH126	12x6 C153 MJxSW TEE FBE
1	EDMH128	12x8 C153 MJxSW TEE FBE
1	EDMH166	16x6 C153 MJxSW TEE FBE
1	EDMC44	4 C153 MJ CROSS FBE
1	EDMC64	6x4 C153 MJ CROSS FBE
1	EDMC66	6 C153 MJ CROSS FBE
1	EDMR43	4x3 C153 MJ CON RED FBE
1	EDMR64	6x4 C153 MJ CON RED FBE
1	EDMR84	8x4 C153 MJ CON RED FBE
1	EDMR86	8x6 C153 MJ CON RED FBE
1	EDMR108	10x8 C153 MJ CON RED FBE
1	EDMR126	12x6 C153 MJ CON RED FBE
1	EDMR128	12x8 C153 MJ CON RED FBE

SIGMA

QTY	Item No.	Description
1	EDMR1210	12x10 C153 MJ CON RED FBE
1	EDMR146	14x6 C153 MJ CON RED FBE
1	EMFA4	4 C153 MJxFLG ADPTR FBE
1	EMFA6	6 C153 MJxFLG ADPTR FBE
1	EMFA8	8 C153 MJxFLG ADPTR FBE
1	EDMK4	4 C153 MJ CAP FBE
1	EDMK6	6 C153 MJ CAP FBE
1	EDMK8	8 C153 MJ CAP FBE
1	EDMP4	4 C153 MJ PLUG FBE
1	EDMP6	6 C153 MJ PLUG FBE
1	EDMP8	8 C153 MJ PLUG FBE
1	EDMP10	10 C153 MJ PLUG FBE
1	EDMP12	12 C153 MJ PLUG FBE
1	EDMO812	8x8 C153 MJ OFFSET FBE
1	4-DFB1045	10 C110 FLG 45 401
1	4-DFB1245	12 C110 FLG 45 401
1	4-DFB390	3 C110 FLG 90 401
1	4-DFB490	4 C110 FLG 90 401
1	4-DFB690	6 C110 FLG 90 401
1	4-DFB890	8 C110 FLG 90 401
1	4-DFB1290	12 C110 FLG 90 401
1	4-DFB1210	12 x 10 C110 DI FLG RED 90 401
1	4-DFB1410	14x10 C110 FLG RED 90 401
1	4-DFC44	4 C110 FLG CROSS 401
1	4-DFC66	6 C110 FLG CROSS 401
1	4-DFC1212	12 C110 FLG CROSS 401
1	4-DFC126	12X6 C110 FLG CROSS 401
1	4-DFC166	16X6 C110 FLG CROSS 401
1	4-DFR43	4x3 C110 FLG CON RED 401
1	4-DFR63	6x3 C110 FLG CON RED 401
1	4-DFR64	6x4 C110 FLG CON RED 401
1	4-DFR86	8x6 C110 FLG CON RED 401
1	4-DFR106	10x6 C110 FLG CON RED 401
1	4-DFR108	10x8 C110 FLG CON RED 401
1	4-DFR126	12x6 C110 FLG CON RED 401
1	4-DFR128	12x8 C110 FLG CON RED 401
1	4-DFR1210	12x10 C110 FLG CON RED 401
1	4-DFR148	14x8 C110 FLG CON RED 401
1	4-DFR1410	14x10 C110 FLG CON RED 401
1	4-DFR1612	16x12 C110 FLG CON RED 401
1	4-DFR1610	16x10 C110 FLG CON RED 401
1	4-DFT44	4 C110 FLG TEE 401
12	4-DBT446	4X4X6 C110 BULLHEAD TEE 401
1	4-DFT66	6 C110 FLG TEE 401

SICMA

QTY	Item No.	Description
1	4-DFT88	8 C110 FLG TEE 401
1	4-DFT106	10x6 C110 FLG TEE 401
1	4-DFT1010	10 C110 FLG TEE 401
1	4-DFT126	12x6 C110 FLG TEE 401
1	4-DFT128	12x8 C110 FLG TEE 401
1	4-DFT1212	12 C110 FLG TEE 401
1	4-DFT146	14X6 C110 FLG TEE 401
1	4-DFT1410	14X10 C110 FLG TEE 401
1	4-DFT1616	16 C110 FLG TEE 401
1	4-DFW44	4 C110 FLG TRUWYE 401
1	4-DMB411	4 C153 MJ 11-1/4 401
1	4-DMB611	6 C153 MJ 11-1/4 401
1	4-DMB422	4 C153 MJ 22-1/2 401
1	4-DMB622	6 C153 MJ 22-1/2 401
1	4-DMB822	8 C153 MJ 22-1/2 401
1	4-DMB1022	10 C153 MJ 22-1/2 401
1	4-DMB1222	12 C153 MJ 22-1/2 401
1	4-DMB1422	14 C153 MJ 22-1/2 401
1	4-DMB445	4 C153 MJ 45 401
1	4-DMB645	6 C153 MJ 45 401
1	4-DMB845	8 C153 MJ 45 401
1	4-DMB1045	10 C153 MJ 45 401
1	4-DMB1245	12 C153 MJ 45 401
1	4-DMB1445	14 C153 MJ 45 401
1	4-DMB490	4 C153 MJ 90 401
1	4-DMB690	6 C153 MJ 90 401
1	4-DMB890	8 C153 MJ 90 401
1	4-DMB1090	10 C153 MJ 90 401
1	4-DMB1290	12 C153 MJ 90 401
1	4-DMB1490	14 C153 MJ 90 401
1	4-DMC44	4 C153 MJ CROSS 401
1	4-DMC66	6 C153 MJ CROSS 401
1	4-DMC88	8 C153 MJ CROSS 401
1	4-DMC1010	10 C153 MJ CROSS 401
1	4-DMC1212	12 C153 MJ CROSS 401
1	4-DMC126	12X6 C153 MJ CROSS 401
1	4-DMR43	4x3 C153 MJ CON RED 401
1	4-DMR63	6x3 C153 MJ CON RED 401
1	4-DMR64	6x4 C153 MJ CON RED 401
1	4-DMR86	8x6 C153 MJ CON RED 401
1	4-DMR106	10x6 C153 MJ CON RED 401
1	4-DMR108	10x8 C153 MJ CON RED 401
1	4-DMR126	12x6 C153 MJ CON RED 401
1	4-DMR128	12x8 C153 MJ CON RED 401

SIAMA

QTY	Item No.	Description
1	4-DMR1210	12x10 C153 MJ CON RED 401
1	4-DMR148	14X8 C153 MJ REDUCER 401
1	4-DMT44	4 C153 MJ TEE 401
1	4-DMT64	6x4 C153 MJ TEE 401
1	4-DMT66	6 C153 MJ TEE 401
1	4-DMT86	8x6 C153 MJ TEE 401
1	4-DMT88	8 C153 MJ TEE 401
1	4-DMT106	10x6 C153 MJ TEE 401
1	4-DMT1010	10 C153 MJ TEE 401
1	4-DMT126	12x6 C153 MJ TEE 401
1	4-DMT128	12x8 C153 MJ TEE 401
1	4-DMT1212	12 C153 MJ TEE 401
1	4-DMT146	14x6 C153 MJ TEE 401
1	4-DMT1410	14x10 C153 MJ TEE 401
1	4-DFT44	4 C110 FLG TEE 401
1	4-DFT64	6x4 C110 FLG TEE 401
1	4-DFT66	6 C110 FLG TEE 401
1	4-DFT86	8x6 C110 FLG TEE 401
1	4-DFT88	8 C110 FLG TEE 401
1	4-DFT1212	12 C110 FLG TEE 401
1	4-DFR43	4x3 C110 FLG CON RED 401
1	4-DTP6	6x2 C153 MJ TAP PLG 401
1	4-DTP8	8x2 C153 MJ TAP PLG 401
1	D-EDTP12	12x2 C153 MJ TAP PLG DOM FBE
1	4-DFR64	6x4 C110 FLG CON RED 401
1	D4-DFR86	8x6 C110 FLG CON RED P401 DOM
1	4-DFR128	12x8 C110 FLG CON RED 401
1	4-DFB645	6 C110 FLG 45 401
1	4-DFB390	3 C110 FLG 90 401
1	4-DFT64	6x4 C110 FLG TEE 401
1	4-DFT86	8x6 C110 FLG TEE 401
1	EDMB3690	36 C153 MJ 90 FBE
1	NS	36" MJ XFLG 90 FBE Add: 8.WEEKS ARO ITS#22537

PRICE BROTHERS ADAPTER KITS

1	16" LCP Spigot x MJ Plain End Adapter w/ gasket & diaper
1	16" LCP Bell x MJ Plain End Adapter w/ gasket & diaper
1	18" LCP Spigot x MJ Plain End Adapter w/ gasket & diaper
1	18" LCP Bell x MJ Plain End Adapter w/ gasket & diaper
1	20" LCP Spigot x MJ Plain End Adapter w/ gasket & diaper
1	20" LCP Bell x MJ Plain End Adapter w/ gasket & diaper
1	24" LCP Spigot x MJ Plain End Adapter w/ gasket & diaper
1	24" LCP Bell x MJ Plain End Adapter w/ gasket & diaper
1	30" LCP Spigot x MJ Plain End Adapter w/ gasket & diaper
1	30" LCP Bell x MJ Plain End Adapter w/ gasket & diaper
1	36" LCP Spigot x MJ Plain End Adapter w/ gasket & diaper
1	36" LCP Bell x MJ Plain End Adapter w/ gasket & diaper
1	42" LCP Spigot x MJ Plain End Adapter w/ gasket & diaper
1	42" LCP Bell x MJ Plain End Adapter w/ gasket & diaper
1	48" LCP Spigot x MJ Plain End Adapter w/ gasket & diaper
1	48" LCP Bell x MJ Plain End Adapter w/ gasket & diaper