



STANDARD AGREEMENT

(Version 9-22-2023)

This AGREEMENT ("Agreement") is entered by and between **Core and Main, LP** ("Contractor"), located at **7022 Easthaven Blvd., Houston, TX 77017** and the **City of League City** ("City"), a home-rule municipality, located at 300 W. Walker St., League City, Texas 77573 on the date set forth below.

Terms:

1. **Scope of Services:** Contractor will perform the services and/or provide the products as set forth in **Exhibit A**, which is attached and incorporated herein, and which can be generally described as **Water and Sewer Line Repair Materials**. If there is a conflict between the terms of this Agreement and Exhibit A, the terms of this Agreement will prevail.
2. **Term and Termination:** This Agreement shall commence on **August 1, 2026** and shall expire on **July 31, 2027**. The period from commencement to expiration is the Contract Term. City reserves the right to terminate this Agreement for convenience upon seven (7) days written notice to Contractor. Upon such termination, City shall pay Contractor, at the rate set out in **Exhibit A**, for services satisfactorily performed or products satisfactorily provided up through the date of termination. Notwithstanding any provision in this Agreement to the contrary, City will not be required to pay or reimburse Contractor for any services performed or for expenses incurred by Contractor after the date of the termination notice that could have been avoided or mitigated by Contractor.
3. **Compensation:** Contractor shall be paid for the services/products as set forth in **Exhibit A**. In no event shall the total compensation exceed **\$268,875.00** during the term of this Agreement. City shall tender payment (including progress/partial payments) for services/goods only after such services are completed or goods are delivered and are deemed to be acceptable under this Agreement, in the sole reasonable discretion of City. Contractor must submit to City invoices for all goods delivered and services provided, which invoices must include details and dates of service or delivery. Payment by City shall be made within thirty (30) days of receipt of an invoice, except for any portion of the invoiced amount that City disapproves as not compliant under this Agreement, in the sole reasonable discretion of City. If City disapproves any amount submitted for payment by Contractor, City shall give Contractor specific reasons for disapproval in writing.
4. **Insurance:** Contractor is required during the Contract Term to maintain insurance as follows: (a) Comprehensive General Commercial Liability insurance covering bodily injury and property damage, with minimum coverage limits—exclusive of defense costs—of \$1,000,000 per occurrence and \$2,000,000 aggregate; (b) If Contractor will provide City "professional services," as that term is used in Chapter 252 of the Texas Local Government Code, Professional Liability (errors and omissions/malpractice) insurance with minimum coverage limits—exclusive of defense costs—of \$2,000,000 per occurrence; and (c) If at any point during the Contract Term it is foreseeable that Contractor will enter upon City premises: (i) Worker's Compensation coverage with statutory limits for the State of Texas, and (ii) Commercial Automobile Liability coverage with minimum coverage limits—exclusive of defense costs—of \$1,000,000 per occurrence and

\$2,000,000 aggregate. All policies must contain a waiver of subrogation against City. Comprehensive General Liability and Commercial Automobile Liability policies must name the City as Additional Insured. Contractor shall pay all insurance deductibles and deductibles must not exceed \$10,000 unless approved in advance by City. Contractor shall provide City Certificates of Insurance evidencing these insurance requirements prior to the start of work.

5. **Liquidated Damages:** Liquidated damages **are** applicable to this transaction. Contractor acknowledges that time is of the essence in performing this Agreement. City and Contractor (collectively, the "Parties") agree that if Contractor is late in performing any obligation of this Agreement, City will suffer loss, damages, or other harm from Contractor's delay. The Parties agree that the amount of loss, damages, or harm likely to be incurred is incapable or difficult to precisely estimate, and therefore Contractor agrees to pay City liquidated damages for delay at a daily rate equal to the total compensation allowed under the Agreement divided by the number of days in the Contract Term. The Parties further agree that: (i) the liquidated damages specified herein are not a penalty but rather bear a reasonable relationship to, and is not plainly or grossly disproportionate to, the probable loss likely to be incurred by City as a result of Contractor's delay; (ii) one of the reasons for City and Contractor to agree to such amounts is the uncertainty and cost of litigation regarding the question of actual damages; and (iii) City and Contractor are sophisticated business parties and negotiated this Agreement at arm's length.
6. **Independent Contractor:** Contractor is an independent contractor and is not an employee, partner, joint venture, or agent of City. Contractor understands and agrees that he/she will not be entitled to any benefits generally available to City employees. Contractor shall be responsible for all expenses necessary to carry out the services under this Agreement and shall not be reimbursed by City for such expenses except as otherwise provided in this Agreement.
7. **Intellectual Property:** This Agreement shall be an Agreement for services and the parties intend and consider any work created as a result of this Agreement, including any and all documentation, images, products or results, to be a work (the "Work") for hire under federal copyright law. Ownership of the Work shall belong to and remain the exclusive property of City. The Work may be edited at any time within City's discretion. If the Work would not be considered a work-for-hire under applicable law, Contractor hereby assigns, transfers, and conveys any and all rights, title and interest to City, including without limitation all copyrights, patents, rights of reproduction, rights to ownership, and right to secure registrations, renewals, reissues and extensions thereof. As the sole copyright holder of the Work, City maintains and asserts the rights to use, reproduce, make derivative works from, and/or edit the Work in any form of medium, expression or technology now known or hereafter developed, at any time within City's discretion. Contractor shall not sell, disclose or obtain any other compensation for the services provided herein or the Work. If the Work is one to which the provisions of 17 U.S.C. § 106A apply, Contractor hereby waives and appoints City to assert on Contractor's behalf Contractor's moral rights or any equivalent rights regarding the form or extent of any alteration to the Work (including, without limitation, removal or destruction) or the making of any derivative works based on the Work, including, without limitation, photographs, drawings or other visual reproductions of the work, in any medium, for City's purposes.
8. **Confidentiality:** During the course of the services to be provided under this Agreement, Contractor may become privy to confidential information of City. Contractor agrees to treat as confidential the information or knowledge that becomes known to Contractor during performance of this Agreement and to not use, copy, or disclose such information to any third party unless authorized in writing by City. This provision does not restrict the disclosure of any

information that is required to be disclosed under applicable law. Contractor shall promptly notify City of any misuse or unauthorized disclosure of City's confidential information and upon expiration of this Agreement shall return to City all confidential information in Contractor's possession or control. Contractor shall further comply with all information security policies of City that may apply and shall not make any press releases, public statements or advertisement referring to the services provided under this Agreement or the engagement of Contractor without the prior written approval of City.

9. **Warranties and Representations:** Contractor warrants and agrees that Contractor shall perform its services and conduct all operations in conformity with all applicable federal, state, and local laws, rules, regulations, and ordinances. For any service performed on premises owned or controlled by City, Contractor warrants and agrees that Contractor will perform said services in compliance with all City rules, including but not limited to, prohibitions related to tobacco use, alcohol, and other drugs.
10. **Licenses/Certifications:** Contractor represents and warrants that it will obtain and maintain in effect, and pay the cost of, all licenses, permits or certifications that may be necessary for Contractor's performance of this Agreement. If Contractor is a business entity, Contractor warrants, represents, covenants, and agrees that it is duly organized, validly existing and in good standing under the laws of the state of its formation; and is duly authorized and in good standing to conduct business in the State of Texas, that it has all necessary power and has received all necessary approvals to execute and deliver the Agreement and is authorized to execute this Agreement according to its terms on behalf of Contractor.
11. **Performance/Qualifications:** Contractor agrees and represents that Contractor has the personnel, experience, and knowledge necessary to qualify Contractor for the particular duties to be performed under this Agreement. Contractor warrants that all services performed under this Agreement shall be performed consistent with generally prevailing professional or industry standards.
12. **Conflict of Interest:** Contractor warrants, represents, and agrees that Contractor presently has no interest and shall not acquire any interest, direct or indirect, that would conflict in any manner or degree with Contractor's performance of the services hereunder. Contractor further warrants and affirms that no relationship or affiliation exists between Contractor and City that could be construed as a conflict of interest with regard to this Agreement.
13. **INDEMNIFICATION:** CONTRACTOR SHALL DEFEND, INDEMNIFY AND HOLD HARMLESS CITY , AND EACH OF ITS OFFICIALS, OFFICERS, AGENTS AND EMPLOYEES FROM AND AGAINST ALL CLAIMS, ACTIONS, SUITS, DEMANDS, PROCEEDINGS, COSTS, DAMAGES AND LIABILITIES, INCLUDING WITHOUT LIMITATION ATTORNEYS' FEES AND REASONABLE LITIGATION COSTS, ARISING OUT OF, CONNECTED WITH, OR RESULTING FROM ANY ACTS OR OMISSIONS OF CONTRACTOR OR ANY AGENT, EMPLOYEE, SUBCONTRACTOR, OR SUPPLIER OF CONTRACTOR IN THE EXECUTION OR PERFORMANCE OF THIS CONTRACT, TO THE EXTENT THE CLAIM ARISES FROM

NEGLIGENCE, WILLFUL ACT, BREACH OF CONTRACT OR VIOLATION OF LAW.

14. **Force Majeure:** Neither City nor Contractor shall be liable for any delay in the performance of this Agreement, nor for any other breach, nor for any loss or damage arising solely from uncontrollable forces such as fire, theft, storm, war, or any other force majeure that could not have been reasonably avoided by the exercise of due diligence.
15. **Notices:** Any notice given under this Agreement by either party to the other may be affected either by personal delivery in writing or by mail, registered or certified postage prepaid with return receipt requested. Mailed notices shall be addressed to the addresses of the Parties as they appear in the contract. Notices delivered personally shall be deemed communicated at the time of actual receipt. Mailed notices shall be deemed communicated three (3) days after mailing.
16. **Texas Family Code Child Support Certification:** Pursuant to Section 231.006 of the Texas Family Code, Contractor certifies that it is not ineligible to receive the award of or payments under the Agreement and acknowledges that the Agreement may be terminated, and payment may be withheld if this certification is inaccurate.
17. **State and/or City Auditor:** Contractor understands that acceptance of funds under the Agreement constitutes acceptance of the authority of the Texas State Auditor's Office, or any successor agency or the City's internal auditor (collectively, the "Auditor"), to conduct an audit or investigation in connection with those funds. Contractor agrees to cooperate with the Auditor in the conduct of the audit or investigation, including without limitation providing all records requested. Contractor will include this provision in all contracts with permitted subcontractors.
18. **Jurisdiction:** Any disputes under this Agreement shall be brought in a court of competent jurisdiction in Galveston, Texas and governed by Texas law.
19. **Alternative Dispute Resolution:** To the extent that Chapter 2260, Texas Government Code, is applicable to this Contract and is not preempted by other applicable law, the dispute resolution process provided for in Chapter 2260 and the related rules adopted by the Texas Attorney General Pursuant to Chapter 2260, shall be used by City and Contractor to attempt to resolve any claim for breach of contract made by Contractor that cannot be resolved in the ordinary course of business. The Director of Finance of City shall examine Contractor's claim and any counterclaim and negotiate with Contractor in an effort to resolve such claims. This provision shall not be construed as a waiver by City of its right to seek redress in the courts.
20. **Entire Agreement:** This Agreement contains the entire understanding between the Parties and supersedes all prior agreements, arrangements, and understanding, oral or written between the Parties relating to this Agreement. This Agreement may not be modified except by mutual written agreement of the Parties executed subsequent to this Agreement.
21. **Eligibility to Receive Payment:** Contractor certifies that, as a matter of state law, it is not ineligible to receive the Agreement and payments pursuant to the Agreement and acknowledges that the Agreement may be terminated, and payment withheld if this representation is inaccurate.
22. **Payment of Debt/Delinquency to State:** Contractor certifies that it is not indebted to the City of League City and is current on all taxes owed to the City of League City. Contractor agrees that any payments owing to Contractor under the Agreement may be applied directly toward any debt

or delinquency that Contractor owes the City of League City regardless of when it arises, until such debt or delinquency is paid in full.

23. **Products and Materials Produced in Texas:** If Contractor will provide services under the Agreement, Contractor covenants and agrees that in performing its duties and obligations under the Agreement, it will purchase products and materials produced in Texas when such products and materials are available at a price and delivery time comparable to products and materials produced outside of Texas.
24. **Risk of Loss:** If applicable, all work performed by Contractor pursuant to the Agreement will be at Contractor's exclusive risk until final and complete acceptance of the work by City. In the case of any loss or damage to the work prior to City's acceptance, bearing such loss or damage will be Contractor's responsibility.
25. **Publicity:** Contractor shall not use City's name, logo or likeness in any press release, marketing materials or other public announcement without receiving City's prior written approval.
26. **Legal Construction/Severability:** In the event that any one or more of the provisions contained in this Agreement shall for any reason be held to be invalid, illegal or unenforceable in any respect, such invalidity, illegality or unenforceability shall not affect any other provision, and this Agreement shall be construed as if such invalid, illegal or unenforceable provisions had never been contained in it. To this end, the provisions of this Agreement are declared to be severable. The Parties may mutually agree to renegotiate the Agreement to cure such illegality/invalidity or unconstitutionality if such may be reasonably accomplished.
27. **Limitations:** The Parties are aware that there are constitutional and statutory limitations on the authority of City to enter into certain terms and conditions of the Agreement, including, but not limited to, those terms and conditions relating to liens on City's property; disclaimers and limitations of warranties; disclaimers and limitations of liability for damages; waivers, disclaimers and limitations of legal rights, remedies, requirements and processes; limitations of periods to bring legal action; granting control of litigation or settlement to another party; liability for acts or omissions of third parties; payment of attorneys' fees; dispute resolution; indemnities; and confidentiality (collectively, the "Limitations"). Any terms and conditions related to the Limitations will not be binding on City except to the extent authorized by the laws and Constitution of the State of Texas.
28. **Sovereign Immunity:** The Parties agree that neither the execution of the Agreement by City nor any other conduct, action or inaction of any City representative relating to the Agreement constitutes a waiver of sovereign immunity by City. The Parties also agree that this Agreement constitutes a governmental function and is not a proprietary function.
29. **Authority:** The Parties stipulate that in entering into this Agreement, the City is performing a solely governmental function and not a proprietary function. Contractor warrants and represents that Contractor has full power and authority to enter into and perform this Agreement and to make the grant of rights contained herein. The person signing on behalf of City represents that he/she has authority to sign this Agreement on behalf of City.
30. **Non-Waiver:** The Parties specifically agree that neither the occurrence of an event giving rise to a breach of contract claim nor the pendency of a claim constitute grounds for the suspension of performance by Contractor. No covenant or condition of this Agreement may be waived except

by written consent of the waiving party. Forbearance or indulgence by one party in any regard whatsoever shall not constitute a waiver of the covenant or condition to be performed by the other party.

31. **Prohibitions Pursuant to Texas Government Code:** By executing this Agreement Contractor verifies that Contractor (1) does not boycott Israel and will not during the term of this Agreement per Section 2274.002; (2) is not engaged in business with Iran, Sudan, or any company on the list referenced in Section 2252.152; (3) does not boycott energy companies and will not during the term of this Agreement per 2274.002; and (4) does not have a practice, policy, guidance, or directive of this Agreement against a firearm entity or firearm trade association and will not during the term of this Agreement per 2274.002.

(signature block on next page)

Executed on _____. *(date to be filled in by City Secretary)*

CORE AND MAIN, LP - "Contractor"



Jim Cross, District Manager

CITY OF LEAGUE CITY - "City"

John Baumgartner, City Manager

Attest:

Diana Stapp, City Secretary

Approved as to Form:

Office of the City Attorney

Exhibit A

Scope of Services/Description of Products/Payment Schedule
(There are 38 pages for Exhibit A, including this page)

“Option to renew for one (1) additional one (1) year period”

SECTION 2: WATER SYSTEM MATERIALS: 5% ESCALATION**A. Water Pipe:**

All pipe shall be made from PVC components or polyethylene as defined and described in ASTM D-1784 and AWWA C900-81. As per League City specifications class (150) C-900 pipe is required for six inch (6") through twelve inch (12") diameter pipe and schedule 40 pipe is required for one-half inch (1/2") through four inch (4") pipe. All pipe shall be in twenty foot (20') sections in the following sizes unless otherwise specified by vendor.

CORE & MAIN					
Description	Estimated Quantity	Unit Price	Extended Price	Leadtime	Delivery Time
4" C900	400	\$ 6.27	\$ 2,508.00		
6" C900	200	\$ 12.77	\$ 2,554.00		
8" C900	500	\$ 21.89	\$ 10,945.00		
10" C900	100	\$ 32.85	\$ 3,285.00		
12" C900	100	\$ 46.28	\$ 4,618.00		
3/4" Black Polyethylene 200 psi	500	\$ 0.44	\$ 220.00		
1" Black Polyethylene 200 psi	500	\$ 0.71	\$ 355.00		
1 1/2" Black Polyethylene 200 psi	400	\$ 1.46	\$ 584.00		
2" Black Polyethylene 200 psi	200	\$ 2.51	\$ 502.00		
Blue Marking Paint (inverted spray)	500	\$ 5.50	\$ 2,750.00		
Green Marking Paint (inverted spray)	500	\$ 5.50	\$ 2,750.00		
Blue Marking Flags (4" x 5")	1500	\$ 0.11	\$ 165.00		
Green Marking Flags (4"x5")	1500	\$ 0.11	\$ 165.00		
SECTION 1A SUB-TOTAL			\$ 31,401.00		

B. Fire Hydrants:

Quotes shall include all three manufacturers-AFC (American Darling) B-84-B5 AWWA C-502, Mueller A-423 Super Centurian 200 AWWA C-502 and E.J. 5CD250 WaterMaster F.H. AWWA C-502

Description/Performance and Design Criteria:

Dry-Barrel Fire Hydrant shall meet or exceed the latest revisions of AWWA C502 and shall meet or exceed the requirements of this specification. All Dry-Barrel Fire Hydrant components in contact with

potable water shall conform to the requirements of NSF 61.

1. Dry Barrel Fire Hydrant: Shall be rated working pressure of 250 psi or greater

2. Operating Nut: Non-rising, pentagonal shape nut measuring 1-1/2" from point of opposite flat and 1-1/4" depth for pentagon. Open by turning the operating nut to the left (counterclockwise). Provide operating direction clearly marked with an embossed arrow and provide a weather cap which conceals the hold down nut.

3. Main Valve: Composition shall be a minimum 5-1/4" in diameter not less than 1" thick and rubber or neoprene. Durometer hardness of 90 + 5 Compression type, opening against pressure and closing with pressure.

4. Nozzles: Shall be 3 way arrangement and shall thread counter-clockwise into barrel with "O" ring pressure seals.

Hose Nozzle Size: Two 2-1/2" hose nozzles, 180 degrees apart and Right hand National Standard Thread.

Pump Nozzle Size: 5" Storz quick connection pumper nozzle and connection shall have matching cap with cable tether and be free of louvers

5. Hydrant Barrel Configuration: Upper barrel shall be fabricated of cast iron. Have a breakable swivel flange to join the upper and lower barrels approximately 2" above the final grade line. Shall have a minimum of six bolts. Shall provide 360 degree rotation of upper barrel.

6. Pressure Seal: Shall be cloth impregnated rubber gasket. An "O" ring is not acceptable.

7. Breakable Stem: Shall join the two-piece stem adjacent to the ground-line flange. Screws, pins, fasteners or bolts used in the coupling shall be stainless steel. The weakened portion of stem coupling shall be below the coupling pins.

8. Lower Barrel: Shall be fabricated of cast iron. The ground line shall not be less than eighteen inches below the centerline of the lowest nozzle and the ground line shall be clearly embossed on the lower barrel.

9. Lubrication Reservoir: Shall be filled with a viscous, non-toxic lubricant and shall be sealed at the top and bottom with "O" rings.

The bearing surfaces and threaded parts are automatically lubricated when hydrant is operated. No less than two "O" rings separating the waterway from the oil reservoir and that portion of the stem making this seal shall be sleeved with bronze. An anti-friction washer shall be in place above the thrust collar to minimize operation torque.

10. Bonnet: Shall be attached to the upper barrel by not less than four bolts utilizing a cloth impregnated rubber gasket as a pressure seal.

11. Drain Valve: Shall operate without springs, tubes, levers, toggles, or other intricate mechanism.

12 Shoe Connection: Shall be a 6" approved mechanically restrained joint. Shall have ample blocking pads for sturdy setting and concrete blocking. A minimum of 6 bolts is required to fasten the shoe to the lower barrel. Interior, lower valve plate, and cap nut shall have a protective epoxy coating of at least 4 mils. If cap nut is utilized, it must be locked in place with a stainless steel lock washer or similar non-corrosive device.

NOTE: FAILURE TO COMPLY WITH ANY OF THESE REQUIREMENTS MAY RESULT IN REJECTION OF THE PROPOSED HYDRANTS.

Manufacturer Type - AFC (American Darling) B-84-B5 AWWA C-502

Description	Estimated Quantity	Unit Price	Extended Price	Leadtime	Delivery Time
4 foot	5	\$ 3,833.35	\$ 19,166.75		
5 foot	5	\$ 4,180.40	\$ 20,902.00		
Extension Kits: 6 inch	20	\$ 365.48	\$ 7,309.60		
1 foot	20	\$ 426.91	\$ 8,538.20		
Flange Kits	10	\$ 224.33	\$ 2,243.30		
Fire Hydrant Wrenches	15	\$ 23.46	\$ 351.90		

SECTION 1B SUB-TOTAL **\$ 58,511.75**

Manufacturer Type - Mueller A-423 Super Centurion 200 AWWA C-502

Description	Estimated Quantity	Unit Price	Extended Price	Leadtime	Delivery Time
4 foot	5	\$ 3,484.56	\$ 17,422.80		
5 foot	5	\$ 3,625.01	\$ 18,125.05		
Extension Kits: 6 inch	20	\$ 396.10	\$ 7,922.00		
1 foot	20	\$ 462.49	\$ 9,249.80		
Flange Kits	10	\$ 344.77	\$ 3,447.70		
Bonnet Repair Kits	10	\$ 113.58	\$ 1,135.80		
Fire Hydrant Wrenches	15	\$ 23.46	\$ 351.90		

SECTION 1B SUB-TOTAL **\$ 57,655.05**

Manufacturer Type - East Jordan Model 5CD250 WaterMaster

Description	Estimated Quantity	Unit Price	Extended Price	Leadtime	Delivery Time
4 foot	5		\$ -		
5 foot	5		\$ -		
Extension Kits: 6 inch	20		\$ -		
1 foot	20	Submitted blank	-		
Flange Kits	10		\$ -		
Bonnet Repair Kits	10		\$ -		
Fire Hydrant Wrenches	15		\$ -		

SECTION 1B SUB-TOTAL **\$ -**

C. Fittings:

All fittings described in the specifications shall comply with ANSI/AWWA C153/A21.53 for MJ fitting, ANSI/AWWA C110/A21.10 and C115/2A21.15 for flanged fittings and ASTM D3034 for PVC products. All brass products must meet AWWA C800-89 or ASTM B-62 standards.

Description	Estimated Quantity	Unit Price	Extended Price	Leadtime	Delivery Time
ELBOW/BENDS 22.5 DEGREE					
4" C-900 MJ	3	\$ 69.15	\$ 207.45		
6" C-900 MJ	3	\$ 105.95	\$ 317.85		
8" C-900 MJ	3	\$ 165.57	\$ 496.71		
ELBOW/BENDS 45 DEGREE					
6" CI, MJ w/ acc pak	5	\$ 251.36	\$ 1,256.80		
8" CI, MJ w/ acc pak	5	\$ 351.33	\$ 1,756.65		
10" CI, MJ w/ acc pak	2	\$ 560.84	\$ 1,121.68		
12" CI, MJ w/ acc pak	2	\$ 697.27	\$ 1,394.54		
14" CI, MJ w/acc pak	2	\$ 1,095.92	\$ 2,191.84		
ELBOW/BENDS 90 DEGREE					
6" CI, MJ w/ acc pak	5	\$ 278.64	\$ 1,393.20		
8" CI, MJ w/ acc pak	5	\$ 388.76	\$ 1,943.80		
10" CI, MJ w/ acc pak	2	\$ 644.57	\$ 1,289.14		
12" CI, MJ w/ acc pak	2	\$ 773.40	\$ 1,546.80		
TRANSITION COUPLINGS, RUBBER					
3" CI x PVC	10	\$ 4.03	\$ 40.30		
4" CI x PVC	10	\$ 4.79	\$ 47.90		
6" CI x PVC	10	\$ 10.24	\$ 102.40		
8" CI x PVC	10	\$ 15.75	\$ 157.50		
10" CI x PVC	10	\$ 23.64	\$ 236.40		
12" CI x PVC	1	\$ 27.57	\$ 27.57		
TOP BOLT COUPLING 262 OR					
3"	6	\$ 162.90	\$ 977.40		
4" 4.25-5.63	6	\$ 204.40	\$ 1,226.40		
4" over size	6	\$ -	\$ -		

6" 6.42-7.68	20	\$	269.88	\$	5,397.60		
8" 8.54-9.84	20	\$	305.64	\$	6,112.80		
10" 10.96-12.66	6	\$	388.90	\$	2,333.40		
10" over size	20	\$	423.20	\$	8,464.00		
12" 12.40-13.66	10	\$	475.20	\$	4,752.00		
12" over size 13.15-14.41	10	\$	565.56	\$	5,655.60		
TEE							
6" x 6" x 6" CI MJ w/ acc pak	10	\$	408.12	\$	4,081.20		
6" x 8" x 8" CI MJ w/acc pak	10	\$	504.28	\$	5,042.80		
8" x 8" x 8" CI MJ w/acc pak	10	\$	580.91	\$	5,809.10		
10" x 10" x 6" CI MJ w/acc pak	10	\$	713.16	\$	7,131.60		
10" x 10" x 8" CI MJ w/acc pak	10	\$	792.33	\$	7,923.30		
12" x 12" x 6" CI MJ w/acc pak	5	\$	815.34	\$	4,076.70		
12" x 12" x 8" CI MJ w/acc pak	5	\$	901.49	\$	4,507.45		
BRASS (No Lead)							
2" Brass Coupling	15	\$	18.21	\$	273.15		
2" Brass 90	15	\$	21.13	\$	316.95		
2" Brass Tee	10	\$	29.25	\$	292.50		
2" Brass Cap	10	\$	14.93	\$	149.30		
2" Brass SQ HD Cored Plug	8	\$	9.79	\$	78.32		
2" x 3/4" Brass Bushing	8	\$	13.32	\$	106.56		
2" x 1" Brass Bushing	8	\$	13.32	\$	106.56		
2" x 1 1/2" Brass Bushing	8	\$	11.07	\$	88.56		
2" x CL Brass Nipple	12	\$	10.26	\$	123.12		
2" x 3" Brass Nipple	12	\$	12.78	\$	153.36		
2" x 4" Brass Nipple	12	\$	16.72	\$	200.64		
2" x 6" Brass Nipple	12	\$	24.68	\$	296.16		
2" x 12" Brass Nipple	10	\$	48.62	\$	486.20		
GALVINIZED PIPE							
2" Galvanized Pipe x 8'	10	\$	134.84	\$	1,348.40		

2" Galvanized Coupling	10	\$ 7.80	\$ 78.00		
PRESSURE RATED SCH 40 PVC FITTINGS					
2" Glue Joint Coupling	10	\$ 1.02	\$ 10.20		
2 1/2" Glue Joint Coupling	10	\$ 2.25	\$ 22.50		
3" Glue Joint Coupling	10	\$ 3.51	\$ 35.10		
2" Glue Joint 45 Degree Bend	10	\$ 1.98	\$ 19.80		
2 1/2" Glue Joint 45 Degree Bend	10	\$ 5.18	\$ 51.80		
3" Glue Joint 45 Degree Bend	5	\$ 8.03	\$ 40.15		
2" Glue Joint 90 Degree	5	\$ 1.70	\$ 8.50		
2 1/2" Glue Joint 90 Degree Bend	5	\$ 5.17	\$ 25.85		
3" Glue Joint 90 Degree Bend	2	\$ 6.18	\$ 30.90		
PLUG, CAST IRON		\$ -			
4" MJ w/ acc pak	10	\$ 95.10	\$ 951.00		
4" x 2" center, MJ w/ acc pak	10	\$ 129.98	\$ 1,299.80		
4" Push On	10	\$ 52.03	\$ 520.30		
6" MJ w/ acc pak	10	\$ 144.71	\$ 1,447.10		
6" Push On	10	\$ 83.74	\$ 837.40		
8 " MJ w/ acc pak	5	\$ 204.86	\$ 1,024.30		
8" Push On	5	\$ 113.56	\$ 567.80		
10" MJ w/ acc pak	5	\$ 356.55	\$ 1,782.75		
12" MJ w/ acc pak	2	\$ 361.01	\$ 722.02		
6" x 2" center, MJ w/ acc pak	10	\$ 178.33	\$ 1,783.30		
8" x 2" center, MJ w/ acc pak	5	\$ 239.11	\$ 1,195.55		
10" x 2" center, MJ w/ acc pak	5	\$ 390.80	\$ 1,954.00		
12" x 2" center, MJ w/ acc pak	2	\$ 394.63	\$ 789.26		
REDUCERS					
6" x 4" CI, MJ w/ acc pak	10	\$ 204.91	\$ 2,049.10		

8" x 6" CI, MJ w/ acc pak	5	\$ 279.77	\$ 1,398.85		
10" x 8" CI, MJ w/ acc pak	5	\$ 420.56	\$ 2,102.80		
12" x 10" CI, MJ w/ acc pak	2	\$ 556.42	\$ 1,112.84		
CORPORATION STOPS; MIP x PJ x CTS					
2" x 2" x 2" (FB1100-7)	10	\$ 272.55	\$ 2,725.50		
CORPORATION STOPS; CC x CTS COMP					
3/4" x 3/4" x 3/4" (F1000-3)	20	\$ 38.28	\$ 765.60		
1" x 1" x 1" (F1000-4)	20	\$ 58.15	\$ 1,163.00		
CORPORATION STOPS; CC TAPER x PJ		\$ -			
2" x 2" x 2" (FB1000-7)	15	\$ 272.55	\$ 4,088.25		
CORPORATION STOPS FITTING ADAPTING					
3/4" (C04-33)	20	\$ 20.02	\$ 400.40		
1" (C04-44)	20	\$ 29.40	\$ 588.00		
1 1/4" (C04-55)	20	\$ 51.09	\$ 1,021.80		
1 1/2" (C04-66)	20	\$ 71.27	\$ 1,425.40		

CURB STOPS; BALL VALVES; FIP x FIP					
2" Curbstop x CTS PJ	10	\$ 379.79	\$ 3,797.90		
2" Curbstop for cast iron box	10	\$ 380.19	\$ 3,801.90		
3/4" CI Box Curbstop (GBV83-23)	10	\$ 58.85	\$ 588.50		
5/8" x 3/4" x 3/4" x 3 3/4" (BL11-233WR)	10	\$ 45.17	\$ 451.70		
3/4" x 3/4" x 3/4" x 3 3/8" (B11- 333WR)	10	\$ 67.16	\$ 671.60		
3/4" x 1" x 1" x 3 11/16" (B11-344WR)	10	\$ 74.49	\$ 744.90		
STRAIGHT METER COUPLING METER TAILS					
5/8" x 3/4" x 2.5" (C38-23-2.5)	40	\$ 10.68	\$ 427.20		
3/4" x 3/4" x 3" (C38-23-3)	40	\$ 14.52	\$ 580.80		
1" x 2.625" (C38-44-2.625)	40	\$ 16.41	\$ 656.40		
PACK JOINT COUPLINGS					
3/4" x 3/4" x 3/4" tee (T444-333)	10	\$ 49.31	\$ 493.10		
1" x 1" x 1" tee (T444-444)	10	\$ 58.17	\$ 581.70		
PACK JOINT EXPANSION COUPLING WHEEL ASSEMBLY FOR 1" CAST IRON BOX					
3/4" standard (EC-23)	10	\$ 22.73	\$ 227.30		
1" standard (EC-4)	10	\$ 40.59	\$ 405.90		
PACK JOINT COUPLING PVC x CTS					
3/4" x 3/4" (C47-33)	10	\$ 27.68	\$ 276.80		
2" x 2" (C47-77)	10	\$ 118.78	\$ 1,187.80		
PACK JOINT COUPLINGS MIP x CTS					
3/4" x 3/4" (C84-33)	20	\$ 17.57	\$ 351.40		
3/4" x 1" (C84-34)	20	\$ 19.14	\$ 382.80		

1" x 3/4" (C84-43)	20	\$	18.15	\$	363.00		
1" x 1" (C84-44)	20	\$	20.80	\$	416.00		
2" x 2" (C84-77)	20	\$	83.69	\$	1,673.80		
PACK JOINT COUPLINGS MIP x PVC							
3/4" x 3/4" (C87-33)	20	\$	21.87	\$	437.40		
3/4" x 1" (C87-34)	20	\$	26.75	\$	535.00		
1" x 1" (C87-44)	20	\$	34.13	\$	682.60		
2" x 2" (C87-77)	20	\$	98.12	\$	1,962.40		
PACK JOINT COUPLINGS CTS x CTS							
3/4" x 1" (C44-34)	45	\$	23.67	\$	1,065.15		
3/4" x 3/4" (C44-33)	45	\$	21.45	\$	965.25		
1" x 1" (C44-44)	45	\$	23.40	\$	1,053.00		
1" x 1 1/4" (C44-45)	20	\$	37.91	\$	758.20		
1 1/4" x 1 1/4" (C44-55)	20	\$	44.37	\$	887.40		
1 1/2" x 1 1/2" (C44-66)	20	\$	82.51	\$	1,650.20		
2" x 2" (C44-77)	20	\$	111.43	\$	2,228.60		

PACK JOINT COUPLINGS CTS X CTS 90 DEGREE BEND BRASS FITTING					
3/4"x 3/4" (L44-33)	20	\$ 26.37	\$ 527.40		
1" x 1" (L44-44)	20	\$ 33.84	\$ 676.80		
1 1/2" x 1 1/2" (L44-66)	20	\$ 114.94	\$ 2,298.80		
2" x 2" (L44-77)	20	\$ 232.55	\$ 4,651.00		
PACK JOINT COUPLINGS CTS X CTS (WYE'S PART # Y44-243-Y68-337					
1" x 3/4" (Y44-243)	40	\$ 42.21	\$ 1,688.40		
1 1/2" x 1" (Y44-264)	20	\$ 107.91	\$ 2,158.20		
2" x 1" (Y48-274)	20	\$ 101.37	\$ 2,027.40		
U-BRANCH CTS X MIP OUTLETS					
1" x 3/4" x 6.5 (U41-43-6.5)	5	\$ 52.35	\$ 261.75		
1" x 3/4" x 7.5 (U41-43-7.5)	5	\$ 50.81	\$ 254.05		
PACK JOINT COUPLINGS FIP x PVC					
3/4" x 3/4" (C17-33)	40	\$ 21.42	\$ 856.80		
3/4" x 1" (C17-34)	40	\$ 34.20	\$ 1,368.00		
PACK JOINT COUPLINGS FIP x CTS					
3/4" x 3/4" (C14-33)	40	\$ 18.84	\$ 753.60		
3/4" x 1" (C14-34)	40	\$ 22.02	\$ 880.80		
1" x 3/4" (C14-43)	40	\$ 21.81	\$ 872.40		
1" x 1" (C14-44)	40	\$ 26.32	\$ 1,052.80		
2" x 2" (C14-77)	15	\$ 87.52	\$ 1,312.80		

INSERT STIFFNERS					
3/4" x 1"	20	\$	1.75	\$	35.00
3/4" x 3/4"	20	\$	1.87	\$	37.40
1" x 1"	20	\$	2.29	\$	45.80
1" x 1 1/4"	20	\$	2.56	\$	51.20
1 1/2" x 1 1/2"	20	\$	2.56	\$	51.20
2" x 2"	20	\$	2.56	\$	51.20
SLEEVES, CI, MJ w/ acc					
2" x 7" Short	10	\$	140.81	\$	1,408.10
2" x 12" Long	10	\$	140.81	\$	1,408.10
4" x 7" Short	10	\$	164.08	\$	1,640.80
4" x 12" Long	10	\$	187.40	\$	1,874.00
6" x 7" Short	10	\$	234.41	\$	2,344.10
6" x 12" Long	10	\$	268.10	\$	2,681.00
8" x 7" Short	10	\$	310.89	\$	3,108.90
8" x 12" Long	10	\$	395.12	\$	3,951.20
10" x 12" Long	10	\$	571.88	\$	5,718.80
12" x 12" Long	10	\$	675.91	\$	6,759.10
GASKETS – RUBBER YOE					
3/4" iron box (GT 118)	500	\$	0.35	\$	175.00
1" iron box (GT123)	500	\$	0.39	\$	195.00
2 1/2" replacement	500	\$	3.00	\$	1,475.00
GASKETS – RUBBER FLANGE GASKET, BLACK					
1 1/2" rubber gasket	200	\$	0.44	\$	88.00
2" rubber gasket	200	\$	0.71	\$	142.00
FIBER GASKETS, BLACK					
3/4" x 1/16"	1000	\$	0.12	\$	120.00
3/4" x 1/32"	1000	\$	0.08	\$	80.00
1" x 1/16"	1000	\$	0.14	\$	140.00
1" x 1/32"	1000	\$	0.12	\$	120.00

PROBING RODS WITH TIPS SS					
Probing rod tips	100	\$ 6.49	\$ 649.00		
Gray hand pump	10	\$ 76.80	\$ 768.00		
4 feet	10	\$ 25.95	\$ 259.50		
5 feet	10	\$ 29.34	\$ 293.40		
MEGALUGS FLANGES					
3" Megalug flange ACC Pack	10	\$ 86.68	\$ 866.80		
4" Megalug flange ACC Pack	10	\$ 88.83	\$ 888.30		
6" Megalug flange ACC Pack	30	\$ 112.27	\$ 3,368.10		
8" Megalug flange ACC Pack	30	\$ 152.06	\$ 4,561.80		
10" Megalug flange ACC Pack	15	\$ 262.89	\$ 3,943.35		
12" Megalug flange ACC Pack	15	\$ 277.11	\$ 4,156.65		
14" Megalug flange ACC Pack	15	\$ 490.26	\$ 7,353.90		
18" Megalug flange ACC Pack	15	\$ 738.93	\$ 11,083.95		
STAINLESS STEEL HEX BOLTS					
1/2" - 18 X 1 1/2"	100	\$ 0.44	\$ 44.00		
1/2" - 18 x 2"	100	\$ 1.39	\$ 139.00		
1/2" - 18 x 2 1/2"	100	\$ 1.62	\$ 162.00		
1/2" - 18 x 3"	100	\$ 0.32	\$ 32.00		
1/2" - 18 Nuts	100	\$ 0.44	\$ 44.00		
ZINC HEX BOLTS					
1/2" - 18 x 1 1/2"	100	\$ -	\$ -		
1/2" - 18 x 2"	100	\$ -	\$ -		
1/2" - 18 x 2 1/2"	100	\$ -	\$ -		
1/2" - 18 x 3"	100	\$ -	\$ -		
1/2" - 18 Nuts	100	\$ 0.14	\$ 14.00		
1/2" Washers	100	\$ 0.14	\$ 14.00		

SECTION 1C SUB-TOTAL

\$ 251,367.93

D. Service Saddles:

Services saddles will be single bad, epoxy coated (12 mils) with stainless steel band and bolts. Body will

Description	Estimated Quantity	Unit Price	Extended Price	Leadtime	Delivery Time
2" x 3/4"	5	\$ 76.94	\$ 384.70		
2" x 1"	5	\$ 76.94	\$ 384.70		
3" x 3/4"	5	\$ 78.87	\$ 394.35		
3" x 1"	5	\$ 78.87	\$ 394.35		
4" x 3/4"	10	\$ 83.42	\$ 834.20		
4" x 1"	10	\$ 83.42	\$ 834.20		
6" x 3/4"	5	\$ 96.64	\$ 483.20		
6" x 1"	5	\$ 96.64	\$ 483.20		
6" x 2"	5	\$ 113.53	\$ 567.65		
8" x 3/4"	5	\$ 114.63	\$ 573.15		
8" x 1"	5	\$ 114.63	\$ 573.15		
8" x 2"	5	\$ 136.94	\$ 684.70		
10" x 3/4"	5	\$ 127.33	\$ 636.65		
10" x 1"	5	\$ 127.33	\$ 636.65		
10" x 2"	5	\$ 155.57	\$ 777.85		
12" x 3/4"	5	\$ 147.29	\$ 736.45		
12" x 1"	5	\$ 147.29	\$ 736.45		
12" x 2"	5	\$ 180.82	\$ 904.10		

SECTION 1D SUB-TOTAL

\$ 11,019.70

E. Full Circle Clamps:

The repair clamp is to have stainless steel single bands type 304 for corrosion resistance, flexibility and strength. Lugs are to be ultra high strength ductile iron (ASTM A-536), with mutually supporting sliding

Description	Estimated Quantity	Unit Price	Extended Price	Leadtime	Delivery Time
12" x 12" x 13.44-14.20 A/C	10	\$ 436.23	\$ 4,362.30		
12" x 12" x 13.20-13.50 C-900	10	\$ 258.48	\$ 2,584.80		
12" x 7.5" x 13.44-14.20 A/C	10	\$ 176.23	\$ 1,762.30		
12" x 7.5" 13.20-13.50 C-900	10	\$ 154.43	\$ 1,544.30		
12"x15" 13.20-13.50 A/C	10	\$ 308.84	\$ 3,088.40		
12" x 7.5" 12.006-13.02 SCH 40	10	\$ 150.06	\$ 1,500.60		
12" x 7.5" 12.06-13.20 DI	10	\$ -	\$ -		
10" x 12" 11.24-11.95 A/C	10	\$ 212.68	\$ 2,126.80		

10" x 12" 11.10-11.40 C-900	10	\$ 225.47	\$ 2,254.70		
10" x 7.5" 11.24-11.95 A/C	10	\$ 136.92	\$ 1,369.20		
10" x 7.5" 11.10-11.40 C-900	10	\$ 431.81	\$ 4,318.10		
10" x 15" 11.24-11.95 A/C	10	\$ 198.82	\$ 1,988.20		
8" x 12" 9.27-9.67 A/C	10	\$ 121.49	\$ 1,214.90		
8" x 7 1/2" 8.99-9.39 C-900	10	\$ 117.75	\$ 1,177.50		
8" x 7 1/2" 8.54-8.94 SCH 40	10	\$ 124.17	\$ 1,241.70		
8" x 7 1/2" 9.27-9.67 A/C	10	\$ 235.15	\$ 2,351.50		
8" x 15" 9.27-9.67 A/C	10	\$ 169.79	\$ 1,697.90		
6" x 12" 7.45-7.85 A/C SMOOTH	10	\$ 165.09	\$ 1,650.90		
6" x 12" 7.05-7.45 A/C ROUGH	10	\$ 101.56	\$ 1,015.60		
6" x 7 1/2" 6.84-7.24 SCH 40	10	\$ 103.09	\$ 1,030.90		
6" x 7 1/2" 7.05-7.45 A/C	10	\$ 196.11	\$ 1,961.10		
6" x 15" 7.45-7.85 A/C SMOOTH	10	\$ 191.22	\$ 1,912.20		
6" x 15" 7.05-7.45 A/C ROUGH	10	\$ 83.14	\$ 831.40		
4" x 7 1/2" 4.45-4.73 SCH 40	10	\$ 86.05	\$ 860.50		
4" x 7 1/2" 4.95-5.53 A/C	10	\$ 86.97	\$ 869.70		
4" x 7 1/2" 4.95-5.14 C-900	10	\$ 86.97	\$ 869.70		
4" x 7 1/2" 4.95-5.53 A/C	10	\$ 86.05	\$ 860.50		
3" x 7 1/2" 3.13-3.50 SCH 40	10	\$ 75.69	\$ 756.90		
3" x 7 1/2" 3.45-3.70 CI	10	\$ 75.69	\$ 756.90		
3" x 7 1/2" 3.74-4.17 A/C	10	\$ 137.58	\$ 1,375.80		
3" x 15" 3.74-4.17 A/C	10	\$ 270.22	\$ 2,702.20		
2" x 7 1/2" 2.35-2.63 CI	25	\$ 71.97	\$ 1,799.25		
2" x 12" 2.35-2.63 CI	25	\$ 123.53	\$ 3,088.25		
TAPPED REPAIR CLAMPS	Page 14 of 25				

4" 4.74-5.14 f1-5.14-7.5-CC3	10	\$ 120.11	\$ 1,201.10		
4" 4.74-5.14 f1-5.14-7.5-CC4	10	\$ 120.11	\$ 1,201.10		
4" 4.95-5.35 F1-5.35-7.5-CC3	10	\$ 120.96	\$ 1,209.60		
4" 4.96-5.35 F1-5.35-7.5-CC4	10	\$ 120.96	\$ 1,209.60		
4" 5.22-5.62 F1-5.62-7.5-CC3	10	\$ 122.00	\$ 1,220.00		
4" 5.22-5.62 F1-5.62-7.5-CC4	10	\$ 122.75	\$ 1,227.50		
6" 5.95-6.35 F1-6.35-7.5-CC3	10	\$ 142.29	\$ 1,422.90		
6" 5.95-6.35 F1 6.35-7.5-CC4	10	\$ 124.23	\$ 1,242.30		
6" 6.56-6.96 F1-6.96-7.5-CC3	10	\$ 132.69	\$ 1,326.90		
6" 6.84-7.24 F1-7.24-7.5-CC3	10	\$ 132.69	\$ 1,326.90		
6" 6.84-7.24 F1-7.24-7.5-CC4	10	\$ 134.75	\$ 1,347.50		
6" 7.05-7.45 F1-7.45-7.5-CC3	10	\$ 136.19	\$ 1,361.90		
6" 7.05-7.45 F1-7.45-7.5-CC4	10	\$ 136.19	\$ 1,361.90		
6" 7.45-7.85 F1-7.85-7.5-CC3	10	\$ 138.69	\$ 1,386.90		
6" 7.45+7.85 F1-7.85-7.5-CC4	10	\$ 138.69	\$ 1,386.90		
8" 7.95-8.35 F1-8.35-7.5-CC3	5	\$ 140.56	\$ 702.80		

8" 7.95-8.35 F1-8.35-7.5-CC4	5	\$	140.75	\$	703.75		
8" 8.54-8.94 F1-8.94-7.5-CC3	5	\$	150.03	\$	750.15		
8" 8.54-8.94 F1-8.94-7.5-CC4	5	\$	150.03	\$	750.15		
8" 8.99-9.39 F4-9.36-7.5-CC3	5	\$	153.57	\$	767.85		
8" 8.99-9.39 F1-9.39-7.5-CC4	5	\$	153.57	\$	767.85		
8" 9.27-9.67-F1-9.67-7.5-CC3	5	\$	156.10	\$	780.50		
8" 9.27-9.67 F1- 9.67-7.5-CC4	5	\$	156.10	\$	780.50		
8" 9.70-10.10 F1-10.10-7.5-CC3	5	\$	163.94	\$	819.70		
8" 9.70-10.10 F1-10.10-7.5-CC4	5	\$	165.27	\$	826.35		
10" 10.64-11.04 F1-11.04-7.5-CC3	5	\$	175.56	\$	877.80		
10" 10.64-11.04 F1-11.04-7.5-CC4	5	\$	175.56	\$	877.80		
10" 11.04-11.44 F1-11.44-7.5-CC3	5	\$	178.49	\$	892.45		
10" 11.04-11.44 F1-11.44-7.5-CC4	5	\$	178.49	\$	892.45		
10" 11.34-11.74 F1-11.74-7.5-CC3	5	\$	176.26	\$	881.30		
10" 11.34-11.74 F1-11.74-7.5-CC4	5	\$	178.49	\$	892.45		
10" 11.74-12.15 F1-12.15-7.5-CC3	5	\$	174.00	\$	870.00		
10" 11.75-12.15 F1-12.15-7.5-CC4	5	\$	180.68	\$	903.40		
12" 12.00-12.40 F1-12.40-7.5-CC3	5	\$	149.54	\$	747.70		

12" 12.00-12.40 F1-12.40-7.5-CC4	5	\$ 191.88	\$ 959.40		
12" 12.62-13.02 f1-13.02-7.5-CC3	5	\$ 191.88	\$ 959.40		
12" 12.62-13.02 f1-13.02-7.5-CC4	5	\$ 196.35	\$ 981.75		
12" 13.10-13.50 1-13.50-7.5-CC3	5	\$ 196.35	\$ 981.75		
12" 13.10-13.50 F1-13.50-7.5-CC4	5	\$ 203.16	\$ 1,015.80		
12" 13.40-13.80 F1-13.80-7.5-CC3	5	\$ 200.80	\$ 1,004.00		
12" 13.40-13.80 F1-13.80-7.5-CC4	5	\$ 205.26	\$ 1,026.30		
12" 13.70-14.10 F1-14.10-7.5-CC3	5	\$ 227.15	\$ 1,135.75		
12" 13.70-14.10 F1-14.10-7.5-CC4	5	\$ 227.15	\$ 1,135.75		
12" 14.00-14.40 F1-14.40-7.5-CC3	5	\$ 227.15	\$ 1,135.75		
12" 14.00-14.40 F1-14.40-7.5-CC4	5	\$ 227.15	\$ 1,135.75		

BELL JOINT LEAK CLAMPS FOR CAST IRON OR C-900 PVC

Description	Estimated Quantity	Unit Price	Extended Price	Leadtime	Delivery Time
4" 4.80-5.00 FBC-500	5	\$ 121.25	\$ 606.25		
6" 6.90-7.10 FBC-710	5	\$ 136.86	\$ 684.30		
8" 9.05-9.30 FBC-930	5	\$ 161.62	\$ 808.10		
10" 11.10-11.40 FBC-1140	5	\$ 191.03	\$ 955.15		
12" 13.20-13.50 FBC 1350	5	\$ 194.66	\$ 973.30		

BELL JOINT LEAK CLAMPS FOR STANDARD STEEL SIZE

4" 4.50 FCC-450	5	\$ 102.53	\$ 512.65		
6" 6.63 FCC-663	5	\$ 126.41	\$ 632.05		
8" 8.63 FCC-863	5	\$ 141.10	\$ 705.50		

10" 10.75 FCC-1075	5	\$ 142.54	\$ 712.70		
12" 12.75 FCC 1275	5	\$ 189.51	\$ 947.55		
MISC. REPAIR CLAMPS					
24" x 12.5" tripleband clamp 25.60-26.80	10	\$ 1,126.18	\$ 11,261.80		
12" x 20" 14.00-14.40	10	\$ 459.39	\$ 4,593.90		
12" x 12.5" 14.00-14.40	10	\$ 280.02	\$ 2,800.20		
20" x 18" Universal Clamp 21.40-22.40	10	\$ -	\$ -		
12" x 15" 12.62-13.02	10	\$ 558.56	\$ 5,585.60		
14" x 15" 15.07-15.82 (C- 900)	10	\$ 243.87	\$ 2,438.70		
10" x 12.5" 11.75-12.15	10	\$ 239.14	\$ 2,391.40		
10" x 12.5" 11.34-11.74	10	\$ 215.53	\$ 2,155.30		
8" x 12.5" 9.70-10.10	10	\$ 180.14	\$ 1,801.40		
8" x 12.5" 7.95-8.35	10	\$ 180.14	\$ 1,801.40		
6" x 7.5" 5.95-6.35	10	\$ 90.43	\$ 904.30		
4" x 7.5" 5.22-5.62	10	\$ 88.07	\$ 880.70		
4" x 7.5" 4.74-5.14	10	\$ 86.05	\$ 860.50		
4" x 7.5" 4.45-4.73	10	\$ 83.14	\$ 831.40		
3 to 4" x 7.5" 3.96-4.25	10	\$ 136.43	\$ 1,364.30		
3" x 7.5" 3.73-4.00	10	\$ 77.53	\$ 775.30		
3" x 7.5" 3.46-3.70	10	\$ 75.69	\$ 756.90		
2.5" x 7.5" 2.70-3.00	10	\$ 69.18	\$ 691.80		

SECTION 1E SUB-TOTAL

\$ 152,746.80

F. Meter Boxes and Lids

Description	Estimated Quantity	Unit Price	Extended Price	Leadtime	Delivery Time
3/4" x 3/4" Single Service Meter box to be Ford Yoke Box or approved equivalent. Body Only (No Lid) CIYM 241-233-T (angle in – straight out).	90	\$206.17	\$ 18,555.30		
3/4" x 3/4" Single Service Meter box to be Ford Yoke Box or approved equivalent. Body and lid to be CIYM 241-233-T (angle in – straight out).	90	\$424.44	\$ 38,199.60		
1" Single Service Yoke Box YL111-444-T or approved equivalent. Body and lid to be cast iron.	20	\$376.64	\$ 7,532.80		
3/4" x 3/4" Double Service Meter box to be Ford Double Gulf Box DG 248-243-T or approved equivalent. Body and lid to be CI (Angle in – straight out).	20	\$951.66	\$ 19,033.20		
2" Protector Meter Box w/ Epoxy Coat – Body and lid to be cast iron, epoxy coated. FPMB7EP-T.	20	\$32.18	\$ 643.60		
Epoxycoated CI lid for 2" meter box	20	\$69.71	\$ 1,394.20		
CI lid for 1" meter box	20	\$33.84	\$ 676.80		
CI lid for single 3/4" meter box	20	\$20.83	\$ 416.60		
CI lid for double 3/4" meter box	20	\$37.45	\$ 749.00		
Meter Box Keys MBLK	20	\$13.18	\$ 263.60		
2" Backflow preventer for 3" construction meter	10	\$1,449.45	\$ 14,494.50		
2" Ball valve FIPT no lead	10	\$50.44	\$ 504.40		

Coupling assembly for 3" construction meter	10	\$48.48	\$ 484.80		
2 1/2" Gasket for 3" construction meter	30	\$3.00	\$ 90.00		

SECTION 1F SUB-TOTAL **\$ 103,038.40**

G. Gate Valves:

Description:

Gate Valves: Shall be resilient seat and shall meet or exceed AWWA C515 and shall meet or exceed the requirements of this Specification. All valve components in contact with potable water shall conform to the requirements of NSF 61 and NSF 372 Materials.

Valve Body: Shall be ductile iron per ASTM A536

Description	Estimated Quantity	Unit Price	Extended Price	Leadtime	Delivery Time
2" brass, threaded	10	\$ 50.43	\$ 504.30		
2" cast iron, MJ with acc pak	6	\$ 430.57	\$ 2,583.42		
2" cast iron female threaded	6	\$ 415.51	\$ 2,493.06		
4" cast iron, MJ with acc pak	4	\$ 680.84	\$ 2,723.36		
6" cast iron, MJ with a acc pak	12	\$ 869.11	\$ 10,429.32		
8" cast iron, MJ with acc pak	8	\$ 1,382.96	\$ 11,063.68		
10" cast iron, MJ with acc pak	8	\$ 2,155.94	\$ 17,247.52		
12" cast iron, MJ with acc pak	8	\$ 2,728.26	\$ 21,826.08		

SECTION 1G SUB-TOTAL **\$ 68,870.74**

H. Valve Boxes

Description	Estimated	Unit Price	Extended Price	Leadtime	Delivery
Black adjustable, black iron 18 x 24	40	\$ 69.12	\$ 2,764.80		
Valve box lid, 4" diameter	40	\$ 21.71	\$ 868.40		
Adjustable valve box top, Part #IVBSTS 10	70	\$ 34.06	\$ 2,384.20		
Adjustable valve bottom, Part #VB2612	1	\$ 43.27	\$ 43.27		

SECTION H SUB-TOTAL **\$ 6,060.67**

SECTION 1 TOTAL **\$ 740,672.04**

SECTION 2: WASTEWATER MATERIALS:**A Sewer Pipe:**

All pipe shall be made from PVC components as defined and described in ASTM D-1784 for rigid poly (vinyl chloride) compounds and chlorinated poly (vinyl chloride) compounds. As per League City

Description	Estimated Quantity	Unit Price	Extended Price	Leadtime	Delivery Time
4" SCH 40 DWV	400	\$ 2.52	\$ 1,008.00		
4" SDR 35	400	\$ 2.49	\$ 996.00		
4" SDR 26 CL 160	400	\$ 3.40	\$ 1,360.00		
6" SDR 35	400	\$ 5.71	\$ 2,284.00		
6" SCH 40, DWV	400	\$ 5.37	\$ 2,148.00		
6" SDR 26 CL 160	400	\$ 7.59	\$ 3,036.00		
8" SDR 35	200	\$ 10.37	\$ 2,074.00		
8" SDR 26 CL 160	200	\$ 13.74	\$ 2,748.00		
8" SCH 40 DWV	200	\$ 7.25	\$ 1,450.00		
10" SDR 35	200	\$ 16.13	\$ 3,226.00		
10" SDR-26 CL 160	200	\$ 21.39	\$ 4,278.00		
10" SCH 40 DWV	40	\$ 10.11	\$ 404.40		
PVC Glue Quart	13	\$ 13.64	\$ 177.32		
PVC Primer Quart	13	\$ 10.26	\$ 133.38		

SECTION 2A SUB-TOTAL**\$ 25,323.10****B. Fiberglass Manholes:**

Fiberglass manholes shall be manufactured with a standard 48" inside diameter for the barrel portion. The top shall be hemispherical-shaped reducer with a 22 1/2" inside diameter man way. Lengths shall be as

Description	Estimated Quantity	Unit Price	Extended Price	Leadtime	Delivery Time
4 ft.	2		\$ -		
5 ft.	2		\$ -		
6 ft.	2		\$ -		
8 ft.	2		\$ -		

SECTION 2B SUB-TOTAL**\$ - NO BID**

C. Manhole Rings and Covers:

Manhole rings and covers should be imprinted with the "City of League City" oak tree symbol and

Description	Estimated	Unit Price	Extended Price	Leadtime	Delivery
Rings and covers 23.5" w/ logo	35	Submitted blank	\$ 14,055.04		
Rings and covers 32" w/ 1	35	\$ 505.65	\$ 17,697.70		
Throat rings 23 1/2" diameter by 3" thick	55	\$ 18.90	\$ 1,039.50		
Sewer cleanout boot	10	\$ 136.08	\$ 1,360.80		
23.5" Bolted Rings and	30	No bid	No bid		
Infra Riser 24" x 1" to 2"	1	\$ 116.94	\$ 116.94		
Infra Riser 24" x 1.5" to 3"	1	\$ 116.94	\$ 116.94		
Infra Riser 24" x 2" to 3"	1	\$ 171.14	\$ 171.14		
SECTION 2C SUB-TOTAL			\$ 34,558.02		

D. In Flow Protectors:

The manhole inflow protector and its associated valve body and components shall be manufactured from corrosion proof material suitable for atmospheres containing hydrogen Sulphide and diluted sulfuric acid as well as other gases associated with wastewater collection systems. White plastic with handle.

The gas relief valve shall be designed to relieve at a pressure of one (1) pound. The valve body shall be

Description	Estimated Quantity	Unit Price	Extended Price	Leadtime	Delivery Time
In-Flow Protectors	10	\$ 84.01	\$ 840.10		
SECTION 2D SUB-TOTAL			\$ 840.10		

E. Manhole Rehab**Sealants:**

A ready-mixed hand or trowel-applied base sewer joint compound, designed to prevent infiltration

Description	Estimated Quantity	Unit Price	Extended Price	Leadtime	Delivery Time
TALCO 4"w x 4"1 Rim Neck Epoxy	10		\$ -		

A two-component acrylic polymer modified hydraulic coating which is

Description	Estimated Quantity	Unit Price	Extended Price	Leadtime	Delivery Time
Pro Plug 45 Stop Leak Hydraulic Cement	25	\$ 38.91	\$ 972.75		
SECTION 2E SUB-TOTAL			\$ 972.75		

F. Fernco Adaptors with Clamps

Description	Estimated Quantity	Unit Price	Extended Price	Leadtime	Delivery Time
4" pvc-pvc	50	\$ 4.79	\$ 239.50		
4" clay-pvc	50	\$ 4.79	\$ 239.50		
6" pvc-pvc	30	\$ 10.24	\$ 307.20		
6" clay-pvc	30	\$ 10.24	\$ 307.20		
8" pvc-pvc	15	\$ 15.75	\$ 236.25		
8" clay-pvc	15	\$ 15.75	\$ 236.25		
10" pvc-pvc	10	\$ 23.64	\$ 236.40		
10" clay-pvc	10	\$ 23.64	\$ 236.40		
12" pvc-pvc	10	\$ 27.57	\$ 275.70		
12" clay-pvc	10	\$ 27.57	\$ 275.70		
RUBBER TAPPING SADDLES					
4" TST-4 (2313-74	20	\$ 42.98	\$ 859.60		

SECTION 2F SUB-TOTAL **\$ 3,449.70**

G. Backflow Preventer

Description	Estimated Quantity	Unit Price	Extended Price	Leadtime	Delivery Time
4" SCH 40	10	\$ 102.32	\$ 1,023.20		
6" SCH 40	10	\$ 451.23	\$ 4,512.30		

SECTION 2G SUB-TOTAL **\$ 5,535.50**

H. PVC Fittings

Description	Estimated Quantity	Unit Price	Extended Price	Leadtime	Delivery Time
WYE'S					
4" x 4" Sch 40 DWV	75	\$ 13.55	\$ 1,016.25		
4" x 4" SDR 35	10	\$ 8.22	\$ 82.20		
6" x 4" SCH 40 DWV	10	\$ 72.43	\$ 724.30		
6" x 4" SDR 35	10	\$ 30.41	\$ 304.10		
6" x 6" Sch 40 DWV	5	\$ 74.49	\$ 372.45		

6" x 6" SDR 35	5	\$ 34.88	\$ 174.40		
ELBOWS/BENDS 90 Degrees					
4" Sch 40 DWV	10	\$ 11.77	\$ 117.70		
4" SDR 35	10	\$ 5.24	\$ 52.40		
6" Sch 40 DWV	10	\$ 46.80	\$ 468.00		
6" SDR 35	10	\$ 16.49	\$ 164.90		
6" SDR 26	10	\$ 46.27	\$ 462.70		
ELBOWS/BENDS 22 1/2 Degrees					
4" Sch 40 DWV	60	\$ 14.88	\$ 892.80		
4" SDR 35	10	\$ 4.95	\$ 49.50		
6" Sch 40 DWV	10	\$ 68.86	\$ 688.60		
6" SDR 35	10	\$ 21.66	\$ 216.60		
6" SDR 26	10	\$ 59.38	\$ 593.80		
ELBOWS/BENDS 45 Degrees					
4" Sch 40 DWV	60	\$ 9.53	\$ 571.80		
4" SDR 35	10	\$ 4.50	\$ 45.00		
6" Sch 40 DWV	10	\$ 44.05	\$ 440.50		
6" SDR 35	5	\$ 17.78	\$ 88.90		
6" SDR 26	5	\$ 43.58	\$ 217.90		
STRAIGHT					
4" Sch 40 DWV Glue	30	\$ 6.43	\$ 192.90		

4" SDR 35 Glue Joint	30	\$ 2.99	\$ 89.70		
6" Sch 40 DWV Glue Joint	10	\$ 26.43	\$ 264.30		
6" SDR 35 Glue Joint	10	\$ 10.91	\$ 109.10		
8" Sch 40 DWV Glue	10	\$ 50.40	\$ 504.00		
8" SDR 35 Glue Joint	10	\$ 33.90	\$ 339.00		
10" Sch 40 DWV Glue	10	\$ 87.96	\$ 879.60		
10" SDR 35 Glue Joint	10	\$ 96.04	\$ 960.40		
ADAPTOR, FEMALE, Clean Out, Threaded					
4" Sch 40 DWV	60	\$ 10.55	\$ 633.00		
4" SDR 35	15	\$ 7.26	\$ 108.90		
4" SDR 26	10	\$ 7.26	\$ 72.60		
6" Sch 40 DWV	30	\$ 33.33	\$ 999.90		
6" SDR 35	30	\$ 34.24	\$ 1,027.20		
6" SDR 26	5	\$ 34.24	\$ 171.20		
CAPS, MALE, Threaded					
4" Sch 40 DWV	70	\$ 5.28	\$ 369.60		
4" SDR 35	70	\$ 3.59	\$ 251.30		
4" SDR 26	10	\$ 3.59	\$ -		
6" Sch 40 DWV	50	\$ 22.16	\$ 1,108.00		
6" SDR 35	10	\$ 18.10	\$ 181.00		
SECTION 2H SUB-TOTAL			\$ 16,006.50		
SECTION 2 TOTAL			\$ 86,685.67		
SECTION 1 TOTAL			\$ 740,672.04		
GRAND TOTAL			\$ 827,357.71		

TOTALS USED FOR COST ANALYSIS: \$ 223,875.17

EXCEPTIONS
of Core & Main LP
Submitted to the City of League City
RFP 25-025 Water & Line Repair Materials

Notwithstanding anything contained in any bid or contract documents to the contrary, Core & Main LP ("Core & Main") hereby qualifies its bid as follows. The bid of Core & Main and acceptance by Core & Main of any subsequent agreement is made expressly conditioned upon assent by City of League City, TX (the "Owner"), to the following additional or different terms, which shall supersede and control over the terms of any request for bid or request for proposal, any contract documents and specifications, and any prior addenda thereto:

1. **Warranty:** The extent of any warranty or guarantee to be provided by Core & Main is set forth in the attached Core & Main LP Warranty.
2. **Delivery:** Core & Main will use commercially reasonable efforts to deliver materials and services ordered within the time specified in the bid documents or the Agreement. Core & Main reserves the right to extend those delivery times based on manufacturer lead times as impacted events beyond the control of Core & Main or the manufacturer. Core & Main will not be liable for liquidated damages or other delay damages arising from delays in delivery, increases in manufacturer lead times or other circumstances beyond the control of Core & Main. This term supersedes all other contractual provisions.
3. **Unless otherwise specified herein, prices quoted are valid if accepted by the Owner and products are released by the Owner for manufacture within thirty (30) calendar days from the date of this quotation. Core & Main reserves the right to increase prices upon thirty (30) calendar days' notice to address factors, including but not limited to, government regulations, tariffs, transportation, fuel and raw material costs. Delivery will commence based upon manufacturer lead times. Any material deliveries delayed beyond manufacturer's lead times may be subject to price increases and/or applicable storage fees.**
4. **Termination:** In the event the City terminates the contract on 30 days' prior notice, the City agrees to pay for any materials ordered prior to the date of termination at the contract price.

CORE & MAIN LP



DELEGATION OF AUTHORITY

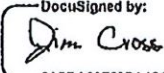
I, Jim Cross, District Manager of Core & Main LP, a Florida limited partnership (the "Company"), hereby delegate authority to Dalton Hale (the "Delegate"), to execute and deliver that certain Water Meter Installation Project within the RFP 25-025 documents to be signed (the "Documents") to the City of League City League City, Texas, and to take or cause to be taken any and all actions in connection therewith as such individual or individuals may consider necessary or desirable, with such necessity or desirability being conclusively evidenced by the actions so taken, on behalf of the Company.

This Delegation is limited to the Documents as described above.

The Delegation is personal to the Delegate. The Delegate may not further delegate the authorities granted in this Delegation.

IN WITNESS WHEREOF, I have hereunto set my hand on June 18, 2025.

CORE & MAIN LP

DocuSigned by:

61CBA68F53BA489

Jim Cross
District Manager

LEAGUE CITY
EST. 1917

Purchasing Department

Addendum Number One (1)

June 10, 2025

Bids for: RFP #25-025 Water and Line Repair Materials

The following clarifications, amendments, deletions, additions, revision and/or modifications are made a part of the contract documents and change the original documents only in the manner and to the extent hereinafter stated and shall be incorporated in the contract documents.

Provisions of this addendum shall take precedence over requirements of the original contract documents and all BIDDERS ARE REQUESTED TO ACKNOWLEDGE SAID PROVISIONS IN THEIR SUBMISSION.

Addendum as follows:

I. Introduction

The City of League City is soliciting proposals from interested and qualified vendors to provide Water & Sewer Line Repair Materials. It is the City's intention to make a single/multiple award(s) to satisfy all services listed in the Scope of Work, but the City does reserve the right to make a single/multiple award(s) to satisfy all services outlined in this RFP. The City intends to enter a one-year agreement with the option for two one-year renewals. The renewal escalation factor will be up to 5%, at the discretion of the using department.

From page 8:

13.TERM OF CONTRACT: Contract term is one (1) year with the option to renew for two (2) additional one (1) year periods. The renewal escalation factor will be up to 5%, at the discretion of the using department.

End of Addendum

If you have any questions, please contact Purchasing Department at purchasing@leaguecitytx.gov.

NOTE: ADDENDA MUST BE ACKNOWLEDGED ON THE BID COVER SHEET.



Gabby Palz
Purchasing Supervisor

III. Scope of Work

A. General

The City of League City is seeking qualified proposers **Water & Sewer Line Repair Materials**. The quantities in the Request for Proposal are estimates based on previous usage. These estimates are for acquainting the proposer with probable quantities to be expected during the contract term. These estimates are for acquainting the proposer with probable quantities to be expected during the contract term. These estimates are not intended to set forth minimum or maximum quantities on this.

B. SCOPE OF SERVICE

Any governmental entity that has an Inter-local Agreement with the COLC shall be allowed to utilize this contract. If there is a mutual agreement between the entity and the contractor, any usage by any entity from this contract shall be between successful supplier and the individual entity and shall not affect the award of this bid.

C. REQUIREMENTS:

Any variance in any item must be specified clearly under the Exception to Bidders Proposal by Bidder in order to have a valid bid. Any exceptions taken may be just cause for disqualification. All unit pricing shall be specified on the attached pricing sheet.

1. All parts must be new and unused.
2. If using a distribution center, part numbers must not change from center to invoice.
3. **NO LEAD BRASS:** As required in the Federal Government's "Reduction of Lead in Drinking Water Act" all brass valves, fittings, and meter components contained in this bid shall comply with the U.S. Drinking Water Act and the U.S. Environmental Protection Agency requirements.
4. All fittings and valves shall be manufactured in accordance with the latest revision of AWWA Standard C-800 and as further specified below.
5. All products supplied, in this bid, whose wetted surfaces come into contact with potable (drinking) water shall contain no greater than a weighted average of 0.25 percent lead when used with respect to the wetted surfaces of pipes, pipe fittings, plumbing fittings, and fixtures. These products are considered to be classified as No-Lead, Low Lead, Lead Free, Federalloy and Envirobrass.
6. All brass fittings and valves shall have the manufacturer's name and an identifying mark signifying the fitting or valve to be constructed of a "No-Lead" brass alloy.
 - a) Any brass part of the fitting or valve not in contact with potable water shall be made of 85-5-5 brass alloy.
7. All brass valves and fittings shall be certified by an ANSI accredited test lab per ANSI/NSF Standard 61, Drinking Water Components - Health Effects, Section 8. The lead content of the wetted components in contact with potable water shall also be

verified by an ANSI accredited test lab. If requested an affidavit certifying compliance with the above standards shall be signed and submitted by the manufacturing firm's Quality Assurance or Engineering Manager.

8. Material certifications to be furnished upon request.
9. **ORDERING DATA:** The City of League City shall order brass fittings on an "as needed basis". Bidder shall specify on attached sheets any minimum order requirements for price bid. If no minimums are declared, no minimums will be allowed. Minimums may affect the evaluation of the bid.
10. **WARRANTY:** Bidder shall provide warranty or guarantee offered for product: if available.
11. **ACCEPTANCE AND NONCONFORMING STANDARDS:** All deliveries shall be accepted subject to inspection, count, and/or testing. A waiver on one occasion does not constitute a waiver on future occasions.
12. **ON FUNDING CLAUSE:** The City of League City's budget is funded on a October 1st to September 30th fiscal year basis. Accordingly, the City of League City reserves the right to terminate this contract giving Bidder thirty (30) days written notice, without liability to the city, in the event that funding for this contract is discontinued or is no longer available.
13. **TERM OF CONTRACT:** Contract term is one (1) year with the option to renew for two (2) additional one (1) year periods with no more than a 3%-unit price escalation per year.

D. WATER SYSTEM MATERIALS

1. Water Pipe

- a) All pipes shall be made from PVC components or polyethylene as defined and described in ASTM D-1784 and AWWA C900-81.
- b) Class (150) C-900 pipe is required for six-inch (6") through twelve-inch (12") diameter pipe and schedule 40 pipe are required for one-half inch (1/2") through four-inch (4") pipe.
- c) All pipes shall be in twenty-foot (20') sections.

2. Fire Hydrants

- a) Quotes shall include all three manufacturers-AFC (American Darling) B-84- B5 AWWA C-502, Mueller A-423 Super Centurian 200 AWWA C-502 and E.J. 5CD250 WaterMaster F.H. AWWA C-502
- b) The three brands listed are in compliance with The City's construction standards and specifications.

c) Dry-Barrel Fire Hydrant

- i) Meet or exceed the latest revisions of AWWA C502 and shall meet or exceed the requirements of this specification.
- ii) All Dry-Barrel Fire Hydrant components in contact with potable water shall conform to the requirements of NSF 61
- iii) Be rated working pressure of 250 psi or greater

d) Operating Nut

- i) Non-rising, pentagonal shape nut measuring 1-1/2" from point of opposite flat and 1-1/4" depth for pentagon.
- ii) Open by turning the operating nut to the left (counterclockwise). Provide operating direction clearly marked with an embossed arrow and provide a weather cap which conceals the hold down nut

e) Main Valve

- i) Composition shall be a minimum 5-1/4" in diameter not less than 1" thick and rubber or neoprene.
- ii) Durometer hardness of 90 + 5 Compression type, opening against pressure and closing with pressure.

f) Nozzles

- i) Be a 3-way arrangement
- ii) Thread counterclockwise into barrel with "O" ring pressure seals.

iii) Hose Nozzle Size:

- Two 2-1/2" hose nozzles
- 180 degrees apart
- Right hand National Standard Thread.

iv) Pump Nozzle Size

- 5" Integral Storz quick connection pumper nozzle

- Connection shall have matching cap with cable tether and be free of louvers.

g) Hydrant Barrel Configuration

- i) Upper barrel shall be fabricated of cast iron.
- ii) Have a breakable swivel flange to join the upper and lower barrels approximately 2" above the final grade line.
- iii) Have a minimum of six (6) bolts.
- iv) Provide 360-degree rotation of upper barrel.
- v) Pressure Seal shall:
 - Be cloth impregnated rubber gasket.
 - An "O" ring is not acceptable.

h) Breakable Stem

- i) Shall join the two-piece stem adjacent to the ground-line flange.
- ii) Screws, pins, fasteners, or bolts used in the coupling shall be stainless steel.
- iii) The weakened portion of stem coupling shall be below the coupling pins.

i) Lower Barrel

- i) Be fabricated of cast iron.
- ii) The ground line shall not be less than eighteen inches (18") below the centerline of the lowest nozzle and the ground line shall be clearly embossed on the lower barrel.

j) Lubrication Reservoir

- i) Be filled with a viscous, non-toxic lubricant and shall be sealed at the top and bottom with "O" rings.
- ii) The bearing surfaces and threaded parts are automatically lubricated when hydrant is operated. No less than two "O" rings separating the waterway from the oil reservoir and that portion of the stem making this seal shall be sleeved with bronze. An anti-friction washer shall be in place above the thrust collar to minimize operation torque.

k) Bonnet

i) shall be attached to the upper barrel by not less than four(4) bolts utilizing a cloth impregnated rubber gasket as a pressure seal.

l) Drain Valve

i) shall operate without springs, tubes, levers, toggles,
or other intricate mechanism.

m) Shoe Connection

- i) Be a 6" approved mechanically restrained joint.
- ii) Have ample blocking pads for sturdy setting and concrete blocking.
- iii) A minimum of 6 bolts is required to fasten the shoe to the lower barrel.
- iv) Interior, lower valve plate, and cap nut shall have a protective epoxy coating of at least 4 mils.
 - If cap nut is utilized, it must be locked in place with a stainless steel lock washer or similar non-corrosive device.

n). Fittings

- i) All fittings shall comply with ANSI/AWWA C153/A21.53 for MJ fitting, ANSI/AWWA C110/A21.10 and C115/A21.15 for flanged fittings and ASTM D3034 for PVC products.
- ii) All brass products must meet AWWA C800-89 or ASTM B-62 standards.

o) Service Saddles

- i) Service saddles will be single band, epoxy coated (12 mils) with stainless steel band and bolts.
- ii) Body will be high strength ductile Iron per ASTM A536.
- iii) Threads should be CC per AWWA C800 or standard female Iron pipe or BSP.
- iv) Band will be two inch (2") minimum width.
- v) Bolts will be 5/8" NC threaded bolts of 18-8-gauge stainless steel.

vi) Welds shall be corrosion resistant.

vii) Gasket to be Buna-N rubber per ASTM D2000.

viii) Nuts and washers should be 18-8 type 304 stainless steel with fluorocarbon coating (Ford FC101 or equal).

p) Full Circle Clamps

i) The repair clamp is to have stainless steel single bands type 304 for corrosion resistance, flexibility, and strength.

ii) Lugs are to be ultra-high strength ductile iron (ASTM A-536), with mutually supporting sliding fingers and band locks.

iii) These clamps will be used with DI, CI, or PVC piping. FORDFS1 with grade 30 gasket for A/C pipe or equivalent.

q) Gate Valves

i) Be resilient seat and meet or exceed AWWA C515.

- All valve components in contact with potable water shall conform to the requirements of NSF 61 and NSF 372 Materials.

ii) Valve Body shall be ductile iron per ASTM A536

iii) Bonnet and Bonnet Covers shall be ductile iron per ASTM A536

iv) Flanged Ends: Furnish in accordance with ASME B16.1, Class 125, and AWWA/ANSI C110

v) Mechanical Joints: Furnish with outlets which conform to AWWA/ANSI C111/A21.11.

r) Valve Interior and Exterior Surfaces

i) Fusion bonded epoxy coated, 8 mils nominal, meeting AWWA C550 requirements.

ii) All parts to be epoxy coated must be shot blasted just prior to application of epoxy.

iii) Where not otherwise noted all valves shall be mechanical joint with gasket and mega-lug type restraint to match the pipe material.

s) Stem

i) Shall be non-rising stem made of cast, forged, or rolled bronze shown in AWWA C515.

ii) Three (3) stem seals minimum shall be provided and shall be of the "O" ring type.

- "O" Ring shall be one above and one below the thrust collar.

- Upper "O" Rings must be protected from contact with

ground water by an external stem seal. This seal shall also be capable of sealing against internal or external pressure equal to the valve's rated working pressure.

iii) The Stem Nut, also made of bronze, must be independent of the gate to protect against stem binding.

iv) Valve shall be designed such that no metal fasteners or screw other than the stem and stem nut are exposed to water.

t) Sealing Mechanism

i) Shall consist of a cast iron gate, having vulcanized synthetic rubber coating.

ii) Resilient-Sealing Mechanism shall provide zero leakage at the water working pressure when installed with the line flow in either direction.

u) Valve Gate

i) Have no metal seams or edges on the water way when in the fully closed position.

ii) Be designed that no sliding or rubber on the seating surfaces is required to compress the rubber and be designed such that compression-set of the rubber shall not affect the ability of the valve to seal when pressure is applied to either side of the gate.

- Seating Mechanism shall have no metal-to-metal stops.

v) Gate Valve Bolts and Nuts

Bonnet, Stuffing Box and Gear Box - Hex head bolt, and hex nut: Steel ASTM A307 Gr. B, Zinc Plate per ASTM B633, SC3 for non-buried service (4-inch through 12-inch valves).

i) Hex Head Bolt and Hex Nut: AISI 304 stainless steel for buried service (all sizes) and for valves 16-inch through 36-inch (non-buried service)

w) Bolts and Nuts

- i) Bonnet bolts shall be stainless steel.
- ii) Flanged ends shall meet requirements of AWWA C110, ASME B16.1, Class 125 or AWWA C207.

x) Joints

- i) Flanged joints shall be in accordance with AWWA/ANSI 110, ASME B16.1, Class 125.
- ii) Flange bolt circles and bolt holes shall match those of ASME B16.1, Class 125.

y) Operating Nuts

- i) Supply for buried service valves, 1-15/16-inch square at the top, 2-inch at the base, and 1-3/4-inch high.
- ii) Cast an arrow showing the direction of opening with the word "OPEN" on the operating nut base. To open, the operating nut shall be turned to the LEFT (COUNTERCLOCKWISE) direction. Paint nut black per AWWA specifications.

E. WASTEWATER MATERIALS

1. Sewer Pipe

- a) All pipes shall be made from PVC components as defined and described in ASTM D-1784 for rigid poly (vinyl chloride) compounds and chlorinated poly (vinyl chloride) compounds.
- b) Schedule 40, 35 and SDR 26 is required.
- c) The fluid tight integral bell gasket shall be the only gasket bid.

2. Fiberglass Manholes

- a) Fiberglass manholes shall be manufactured with a standard 48" inside diameter for the barrel portion.
- b) The top shall be hemispherical-shaped reducer with a 22 1/2" inside diameter man way. Lengths shall be as specified herein.
- c) Fiberglass manholes shall be of one-piece construction as manufactured by Owens/Corning or equivalent.

3. Manhole Rings and Covers

- a) Manhole rings and covers should be imprinted with the "City of League City" oak tree symbol and "Sanitary Sewer" embossed on the covers.
- b) Covers should have no vent holes.
- c) Rings and covers are to be cast iron moldings. They must be manufactured in the United States of America.
- d) Vulcan Part #V-1418-2N, Western Iron Works WM-18 or equivalent.

4. In Flow Protectors

- a) The manhole inflow protector and its associated valve body and components shall be manufactured from corrosion proof material suitable for atmospheres containing hydrogen sulfide and diluted sulfuric acid, as well as other gases associated with wastewater collection systems. White plastic with handle.
- b) The cover body shall be made from an acetate, butyrate, styrene material that meets the federal standards of L.P. 1183 and can pass the following ASTM test requirements: D256; D638; D790, D784; D648.
- c) The thickness shall not be less than 3/32" nor greater than 3/16".
- d) The gasket shall be made of closed cell neoprene. The gasket shall have a pressure sensitive adhesive on one side and be placed under the cover rim by the manufacturer. The adhesive shall be compatible with the cover material so as to form a long-lasting bond in either wet or dry conditions of use.
- e) The gas relief valve shall be designed to relieve at a pressure of one (1) pound. The valve body shall be made of medium density polyethylene. The venting tube shall be capable of sealing on dirt and small debris. The valve shall have a leak down rate not exceeding ten (10) gallons in twenty-four (24) hours to eliminate the standing pond of water over the manhole cover after a rainstorm.

5. Manhole Rehab Sealants

- a) A ready-mixed hand or trowel-applied base sewer joint compound designed to prevent infiltration between manhole frames and cone sections.
- b) A two-component acrylic polymer modified hydraulic coating which is supplied in ready mix kits. When applied to concrete or