

PROPOSAL SUBMITTED BY:

CORE AND MAIN LP

Contractor's Name

220 S. WESTGATE DRIVE

Street

CARDL STREAM

P.O. Box

IL

60188

City

State

Zip Code



**CITY OF AURORA
KANE COUNTY
STATE OF ILLINOIS**

Request for Quotations For

**2020 Water & Sewer Division Materials and Supplies
Bid 19-67**

**PROPOSALS DUE
October 30, 2019**

**PREPARED BY
CITY OF AURORA
DIVISION of ENGINEERING
77 S. BROADWAY AVENUE
AURORA, ILLINOIS 60505**

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City of Aurora
Bid 19-67
NOTICE TO BIDDERS

Sealed quotations for the materials and supplies described below will be received at the office of Purchasing, 44 E. Downer Place, Aurora, IL 60507 until 2:00 o'clock P.M., October 30, 2019. Quotes will not be opened publicly.

Description of Work

Name: 2020 Water & Sewer Division Materials and Supplies

Proposed Improvement: The City of Aurora is requesting quotations for the anticipated purchase of certain materials and supplies to be used by the Water & Sewer Maintenance Division during 2020.

Bidders Instructions:

1. Specifications and other pertinent documents may be obtained online at <https://www.aurora-il.org/bids.aspx>, at the Purchasing Office, 44 East Downer Place, Aurora, Illinois 60507 during normal business hours, or by calling 630-256-3550.
2. The City of Aurora reserves the right to reject any or all of the bids and to waive any and all irregularities and technicalities whenever such rejection is in the best interest of the City of Aurora.
3. All bid items will be evaluated separately and the supplier for each bid item will be chosen based on cost and availability of the item at the time of need.
4. **Minority Participation:** The City of Aurora encourages minority business firms to submit proposals and encourages successful contract bidder to utilize minority businesses as sub-contractors for supplies, equipment, services and construction.
5. Any bidder who owes the City money may be disqualified at the City's discretion.
6. **The City of Aurora has a local preference ordinance that would apply to this contract.**

By Order of
City Clerk
City of Aurora

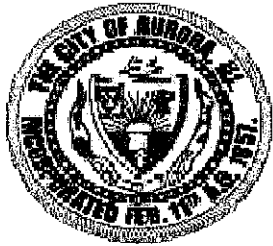
PROPOSAL

TO: THE OFFICE OF THE CITY CLERK
CITY OF AURORA
44 EAST DOWNER PLACE
AURORA, ILLINOIS 60507

1. Proposal of CORE AND MAIN LP
for the improvement known as the **2020 Water & Sewer Division Materials and Supplies, Bid 19-67.**
2. The plans and specifications for the proposed improvements are those prepared by the City of Aurora Engineering Division and approved by the City Council of Aurora, Illinois.
3. In submitting this proposal, the undersigned declares that the only persons or parties interested in the proposal as principals are those named herein, and that the proposal is made without collusion with any person, firm, or corporation.
4. The undersigned further declares that he has carefully examined the proposals, plans, specifications, form of contract, and special provisions, if any, and that he has inspected in detail the site of the proposed work and that he has familiarized himself with all of the local conditions affecting the contract and detailed requirements of construction, and understands that in making this proposal he waives all right to plead any misunderstanding regarding the same.
5. The undersigned declares that he understands that the quantities mentioned are approximate only, and that they are subject to increase or decrease; that he will take in full payment therefore the amount of the summation of the actual quantities, as finally determined, multiplied by the unit prices shown in the schedule of prices contained herein.
6. The undersigned agrees that the unit prices submitted herewith are for the purpose of obtaining a gross sum and for use in computing the value of extras and deductions; that if there is a discrepancy between the gross sum bid and that resulting from the summation of the quantities multiplied by their respective unit prices, the latter shall apply.
7. The undersigned agrees that if the City decides to extend or shorten the improvement, or otherwise alter it by extras or deductions, including the elimination of any one or more of the items, as provided in the specifications, he will perform the work as altered, increased or decreased, at the contract unit prices without claim for profits lost as a result of any work or items eliminated by the City of Aurora.
8. The undersigned agrees that the Engineer may, at any time during the progress of the work covered by this contract, order other work or materials incidental thereto, and that all such work and materials as do not appear in the proposal or contract as a specific item accompanied by a unit price, and which are not included under the bid price for other items in this contract, shall be performed as extra work, and that he will accept as full compensation therefore the actual cost plus ten percent (10%), the actual cost to be determined as provided for in the specifications.
9. The undersigned submits herewith his schedule of prices covering the work to be performed under this contract, he understands that he must show in the schedule the unit prices for which

he proposes to perform each item of work, that the extensions must be made by him, and that if not so done, his proposal may be rejected as irregular or non-responsive.

10. The City of Aurora reserves the right to reject any or all of the bids and to waive any and all irregularities and technicalities. The City of Aurora shall either award the project or reject the bids within Sixty (60) calendar days after the bid opening. This time frame may be extended upon mutual agreement of the City and the Bidder.
11. The undersigned of this proposal agrees that he or she has examined all sections of this Proposal, Specifications, and Bidding Documents and hereby understands and accepts the provisions for access, or the lack of access, to the construction site and shall claim no compensation other than the prices as bid for this condition of accessibility.
12. The undersigned agrees to indemnifying and saving harmless the City of Aurora, its officers, agents, employees, and servants by filing with the City, prior to the execution of the contract, copies of completed Certificates of Insurance satisfactory to the City, with the City of Aurora named as primary, non-contributory additional insured; automobile liability insurance covering owned, non-owned, and hired vehicles with limits of liability as stated in the attached Special Provisions.
13. No contract will be awarded to any bidder where that bidder or any principal or supervisory personnel of the bidder has been personally involved with another business that has been delinquent or unfaithful in any former contract with the City or where that bidder or any supervisory personnel of the bidder has been personally involved with another business that is a defaulter as surety or otherwise upon obligation to the City.
14. The entire set of specifications shall be submitted with each proposal.
15. The City has the right to terminate this Contract, in whole or in part, for any reason or if sufficient funds have not been appropriated to cover the estimated requirement of the Services not yet performed, by providing Bidder with thirty (30) days notice specifying the termination date. On the date specified, this Contract will end. If this Contract is terminated by the City, as provided herein, the City shall pay the Bidder only for services performed up the date of termination. After the termination date, Bidder has no further contractual claim against the City based upon this Contract and any payment so made to the Bidder upon termination shall be in full satisfaction for Services rendered. Bidder shall deliver to the City all finished and unfinished documents, studies and reports and shall become the property of the City.
16. **The City of Aurora has a local preference ordinance that would apply to this contract.** O18-070 approved August 28, 2018 defines "Local business" to mean a vendor or contractor who has a valid, verifiable physical business address located within the corporate boundaries of the City of Aurora at least twelve months prior to a bid or proposal opening date, from which the vendor, contractor or consultant operates or performs business on a daily basis, including manufacturing production or distribution. The business must disclose the percentage of workforce in the City of Aurora; be registered with the City of Aurora, if applicable; be subject to City of Aurora taxes (inclusive of sales taxes); be current with property tax payments and sales tax payments; not have any outside cited code violations; not have any outstanding debts to the City of Aurora; have adequately qualified and trained staff to service the bid of interest.
17. The undersigned submits herewith this **Schedule of Prices** covering the materials requested under this contract:



**Schedule of Prices
City of Aurora Water & Sewer
Maintenance Division
2020 Materials and Supplies
Bid 19-67**

RETURN WITH BID

(For complete information covering these items, see specifications)

| NO. | ITEM | UNIT | UNIT COST |
|--|---|------|-----------|
| Fire Hydrants & Related Parts | | | |
| 1 | Waterous Fire Hydrant Assembly, 4 1/2' Bury | EA | 2540 |
| 2 | Waterous Fire Hydrant Assembly, 5' Bury | EA | 2595 |
| 3 | Waterous Fire Hydrant Assembly, 5 1/2' Bury | EA | 2650 |
| 4 | Waterous Fire Hydrant Assembly, 6' Bury | EA | 2710 |
| 5 | Waterous Fire Hydrant Assembly, 4 1/2' Bury w/Alpha Standard Base | EA | 2590 |
| 6 | Waterous Fire Hydrant Assembly, 5' Bury w/Alpha Standard Base | EA | 2650 |
| 7 | Waterous Fire Hydrant Assembly, 5 1/2' Bury w/Alpha Standard Base | EA | 2706 |
| 8 | Waterous Fire Hydrant Assembly, 6' Bury w/Alpha Standard Base | EA | 2762 |
| 9 | Waterous Fire Hydrant Assembly, 4 1/2' Bury w/Alpha XL Base | EA | 2590 |
| 10 | Waterous Fire Hydrant Assembly, 5' Bury w/Alpha XL Base | EA | 2650 |
| 11 | Waterous Fire Hydrant Assembly, 5 1/2' Bury w/Alpha XL Base | EA | 2706 |
| 12 | Waterous Fire Hydrant Assembly, 6' Bury w/Alpha XL Base | EA | 2762 |
| 13 | Waterous Fire Hydrant Extension, 6" | EA | 484 |
| 14 | Waterous Fire Hydrant Extension, 12" | EA | 570 |
| 15 | Waterous Fire Hydrant Extension, 18" | EA | 661 |
| 16 | Waterous Fire Hydrant Extension, 24" | EA | 746 |
| 17 | Waterous Traffic Kit, Old Style (K525/10") | EA | 272 |
| 18 | Waterous Traffic Kit, New Style (K528/16") | EA | 224 |
| 19 | Waterous Hydrant Kit K834, Hydrant Head w/Traffic Kit | EA | 2600 |
| 20 | Waterous Hydrant Kit K836, Hydrant Head | EA | 1425 |
| 21 | Waterous Hydrant Part #60 (Hydrant Head) | EA | 545 |
| 22 | RoDon Hydra-Finder Hydrant Marker, 60" | EA | 18.50 |
| 23 | Valve Seat - #31 | EA | 206 |
| 24 | Main Valve Rubber #35 | EA | 68 |
| 25 | Breakable Flange #113 | EA | 55 |
| 26 | Flange Lock Ring #64 | EA | 9 |
| 27 | Coupling Sleeve (2 halves) #67 | EA | 15 |
| 28 | Lower Operating Nut #17A | EA | 36 |
| 29 | Drain Plunger #7 | EA | 18 |



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| NO. | ITEM | UNIT | UNIT COST |
|---------------------------------|--|------|-----------|
| 30 | Nozzle - Hose #12 | EA | 117 |
| 31 | Nozzle - Pumper #12 | EA | 331 |
| 32 | Cap Gasket Hose #11 | EA | 8 |
| 33 | Cap Gasket Pumper #11 | EA | 10 |
| 34 | Nozzle Cap Hose #10 | EA | 98 |
| 35 | Nozzle Cap Pumper #10 | EA | 170 |
| 36 | O-Ring (Hose Nozzle) 3-1/4 X 3-5/8 #118 | EA | 10 |
| 37 | O-Ring (Pumper Nozzle) 5-1/4 X 5-5/8 #116 | EA | 11 |
| 38 | Hose Nozzle Retainer #119 | EA | 22 |
| 39 | Pumper Nozzle Retainer #117 | EA | 31 |
| 40 | Cap Gasket - Pumper #11 | EA | 10 |
| 41 | Cap Gasket- Hose #11 | EA | 8 |
| 42 | Nozzle Cap - Pumper #10 | EA | 170 |
| 43 | Brass Lock Nuts #87 | EA | 5 |
| 44 | T-Bolts and Nuts (Per Case) | EA | 440 |
| Valves and Related Parts | | | |
| 45 | Clow Cutting in Valve, 2" | EA | N/B |
| 46 | Clow Cutting in Valve, 4" | EA | |
| 47 | Clow Cutting in Valve, 6" | EA | |
| 48 | Clow Cutting in Valve, 8" | EA | |
| 49 | Clow Cutting in Valve, 10" | EA | |
| 50 | Clow Cutting in Valve, 12" | EA | |
| 51 | American Flow Control Gate Valve, 2" w/ Mechanical Joint Ends | EA | 301 |
| 52 | American Flow Control Gate Valve, 4" w/ Mechanical Joint Ends | EA | 475 |
| 53 | American Flow Control Gate Valve, 6" w/ Mechanical Joint Ends | EA | 610 |
| 54 | American Flow Control Gate Valve, 8" w/ Mechanical Joint Ends | EA | 965 |
| 55 | American Flow Control Gate Valve, 10" w/ Mechanical Joint Ends | EA | 1505 |
| 56 | American Flow Control Gate Valve, 12" w/ Mechanical Joint Ends | EA | 1905 |
| 57 | American Flow Control Gate Valve, 14" w/ Mechanical Joint Ends | EA | 5400 |



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| NO. | ITEM | UNIT | UNIT COST |
|-----|---|------|-----------|
| 58 | American Flow Control Gate Valve, 16" w/ Mechanical Joint Ends | EA | 5400 |
| 59 | American Flow Control Gate Valve, 2" w/ ALPHA Standard Restrained Joint Ends | EA | N/A |
| 60 | American Flow Control Gate Valve, 4" w/ ALPHA Standard Restrained Joint Ends | EA | 520 |
| 61 | American Flow Control Gate Valve, 6" w/ ALPHA Standard Restrained Joint Ends | EA | 670 |
| 62 | American Flow Control Gate Valve, 8" w/ ALPHA Standard Restrained Joint Ends | EA | 1010 |
| 63 | American Flow Control Gate Valve, 10" w/ ALPHA Standard Restrained Joint Ends | EA | 1575 |
| 64 | American Flow Control Gate Valve, 12" w/ ALPHA Standard Restrained Joint Ends | EA | 1985 |
| 65 | American Flow Control Gate Valve, 14" w/ ALPHA Standard Restrained Joint Ends | EA | N/A |
| 66 | American Flow Control Gate Valve, 16" w/ ALPHA Standard Restrained Joint Ends | EA | ↓ |
| 67 | American Flow Control Gate Valve, 2" w/ ALPHA XL Restrained Joint Ends | EA | ↓ |
| 68 | American Flow Control Gate Valve, 4" w/ ALPHA XL Restrained Joint Ends | EA | 520 |
| 69 | American Flow Control Gate Valve, 6" w/ ALPHA XL Restrained Joint Ends | EA | 670 |
| 70 | American Flow Control Gate Valve, 8" w/ ALPHA XL Restrained Joint Ends | EA | 1010 |
| 71 | American Flow Control Gate Valve, 10" w/ ALPHA XL Restrained Joint Ends | EA | 1575 |
| 72 | American Flow Control Gate Valve, 12" w/ ALPHA XL Restrained Joint Ends | EA | 1985 |
| 73 | American Flow Control Gate Valve, 14" w/ ALPHA XL Restrained Joint Ends | EA | N/A |
| 74 | American Flow Control Gate Valve, 16" w/ ALPHA XL Restrained Joint Ends | EA | ↓ |
| 75 | Tyler Valve Box, 664-S Complete w/Lid | EA | 165 |
| 76 | Tyler Valve Box Extension, #58-A | EA | 43 |
| 77 | Tyler Valve Box Extension, #59-A | EA | 57 |
| 78 | Tyler Valve Box Extension, #60-A | EA | 57 |
| 79 | Tyler Valve Box Extension, #69A - 9" | EA | 48 |
| 80 | Tyler Valve Box Extension, #69A - 18" (Foreign OK) | EA | 30 |
| 81 | Tyler Valve Box Extension, #69A - 24" (Foreign OK) | EA | 35 |



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| NO. | ITEM | UNIT | UNIT COST |
|----------------------------------|---|------|-----------|
| Repair Parts and Fittings | | | |
| 82 | 4" Non-Shear Mission Coupling (Clay to Plastic) | EA | 23 |
| 83 | 6" Non-Shear Mission Coupling (Clay to Plastic) | EA | 38 |
| 84 | 8" Non-Shear Mission Coupling (Clay to Plastic) | EA | 42 |
| 85 | 10" Non-Shear Mission Coupling (Clay to Plastic) | EA | 48 |
| 86 | 12" Non-Shear Mission Coupling (Clay to Plastic) | EA | 64 |
| 87 | 15" Non-Shear Mission Coupling (Clay to Plastic) | EA | 120 |
| 88 | 4" Non-Shear Mission Coupling (Plastic to Plastic) | EA | 17 |
| 89 | 6" Non-Shear Mission Coupling (Plastic to Plastic) | EA | 29 |
| 90 | 8" Non-Shear Mission Coupling (Plastic to Plastic) | EA | 42 |
| 91 | 10" Non-Shear Mission Coupling (Plastic to Plastic) | EA | 48 |
| 92 | 12" Non-Shear Mission Coupling (Plastic to Plastic) | EA | 64 |
| 93 | 15" Non-Shear Mission Coupling (Plastic to Plastic) | EA | 115 |
| 94 | 2" x 8" Repair Clamp | EA | 40 |
| 95 | 4" x 8" Repair Clamp | EA | 48 |
| 96 | 6" x 8" Repair Clamp | EA | 57 |
| 97 | 6" x 8" Repair Clamp w/ 3/4" Tap | EA | 78 |
| 98 | 6" x 8" Repair Clamp w/ 1" Tap | EA | 78 |
| 99 | 6" x 10" Repair Clamp | EA | 80 |
| 100 | 6" x 12" Repair Clamp | EA | 91 |
| 101 | 6" x 16" Repair Clamp | EA | 100 |
| 102 | 6" x 36" Repair Clamp | EA | 225 |
| 103 | 8" x 8" Repair Clamp | EA | 67 |
| 104 | 8" x 8" Repair Clamp w/ 3/4" Tap | EA | 90 |
| 105 | 8" x 8" Repair Clamp w/ 1" Tap | EA | 90 |
| 106 | 8" x 10" Repair Clamp | EA | 80 |
| 107 | 8" x 12" Repair Clamp | EA | 108 |
| 108 | 8" x 16" Repair Clamp | EA | 126 |
| 109 | 8" x 36" Repair Clamp | EA | 269 |

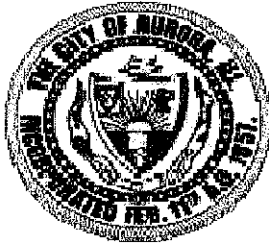


Schedule of Prices
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| NO. | ITEM | UNIT | UNIT COST |
|-----|---|------|-----------|
| 110 | 10" x 10" Repair Clamp | EA | 115 |
| 111 | 10" x 12" Repair Clamp | EA | 139 |
| 112 | 12" x 12" Repair Clamp | EA | 167 |
| 113 | 12" x 16" Repair Clamp | EA | 196 |
| 114 | 12" x 36" Repair Clamp <i>A1KDATE 12x30 *</i> | EA | 375 * |
| 115 | 4" Tyler Cut in Sleeve | EA | 450 |
| 116 | 6" Tyler Cut in Sleeve | EA | 600 |
| 117 | 8" Tyler Cut in Sleeve | EA | 775 |
| 118 | 10" Tyler Cut in Sleeve | EA | 950 |
| 119 | 12" Tyler Cut in Sleeve | EA | 1265 |
| 120 | 4" Full Body MJ Ductile Iron Solid Sleeve | EA | 148 |
| 121 | 6" Full Body MJ Ductile Iron Solid Sleeve | EA | 189 |
| 122 | 8" Full Body MJ Ductile Iron Solid Sleeve | EA | 245 |
| 123 | 10" Full Body MJ Ductile Iron Solid Sleeve | EA | 355 |
| 124 | 12" Full Body MJ Ductile Iron Solid Sleeve | EA | 470 |
| 125 | 14" Full Body MJ Ductile Iron Solid Sleeve | EA | 1150 |
| 126 | 16" Full Body MJ Ductile Iron Solid Sleeve | EA | 1515 |
| 127 | 2" Cast Couplings | EA | 51 |
| 128 | 4" Cast Couplings | EA | 97 |
| 129 | 6" Cast Couplings | EA | 116 |
| 130 | 8" Cast Couplings | EA | 145 |
| 131 | 10" Cast Couplings | EA | 191 |
| 132 | 12" Cast Couplings | EA | 233 |
| 133 | 14" Cast Couplings | EA | 380 |
| 134 | 16" Cast Couplings | EA | 507 |
| 135 | 2" Single Bolt Standard Cast Couplings | EA | NIB |
| 136 | 4" Single Bolt Standard Cast Couplings | EA | |
| 137 | 6" Single Bolt Standard Cast Couplings | EA | |
| 138 | 8" Single Bolt Standard Cast Couplings | EA | |

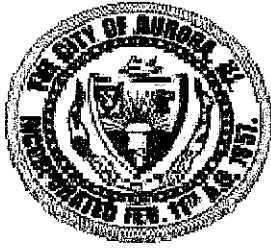


Schedule of Prices
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(For complete information covering these items, see specifications)

| NO. | ITEM | UNIT | UNIT COST |
|-----|---|------|-----------|
| 139 | 10" Single Bolt Standard Cast Couplings | EA | NIB |
| 140 | 12" Single Bolt Standard Cast Couplings | EA | |
| 141 | 14" Single Bolt Standard Cast Couplings | EA | |
| 142 | 16" Single Bolt Standard Cast Couplings | EA | |
| 143 | 2" Single Bolt XL Cast Couplings | EA | |
| 144 | 4" Single Bolt XL Cast Couplings | EA | |
| 145 | 6" Single Bolt XL Cast Couplings | EA | |
| 146 | 8" Single Bolt XL Cast Couplings | EA | |
| 147 | 10" Single Bolt XL Cast Couplings | EA | |
| 148 | 12" Single Bolt XL Cast Couplings | EA | |
| 149 | 14" Single Bolt XL Cast Couplings | EA | |
| 150 | 16" Single Bolt XL Cast Couplings | EA | |
| 151 | 2" Single Bolt Transition Cast Couplings | EA | |
| 152 | 4" Single Bolt Transition Cast Couplings | EA | |
| 153 | 6" Single Bolt Transition Cast Couplings | EA | |
| 154 | 8" Single Bolt Transition Cast Couplings | EA | |
| 155 | 10" Single Bolt Transition Cast Couplings | EA | |
| 156 | 12" Single Bolt Transition Cast Couplings | EA | |
| 157 | 14" Single Bolt Transition Cast Couplings | EA | |
| 158 | 16" Single Bolt Transition Cast Couplings | EA | — |
| 159 | 4" Megalug Restraint for Ductile Iron Pipe | EA | 18 |
| 160 | 4" Megalug Restraint for PVC Pipe | EA | 22 |
| 161 | 6" Megalug Restraint for Ductile Iron Pipe | EA | 21 |
| 162 | 6" Megalug Restraint for PVC Pipe | EA | 27 |
| 163 | 8" Megalug Restraint for Ductile Iron Pipe | EA | 33 |
| 164 | 8" Megalug Restraint for PVC Pipe | EA | 40 |
| 165 | 10" Megalug Restraint for Ductile Iron Pipe | EA | 48 |
| 166 | 10" Megalug Restraint for PVC Pipe | EA | 76 |
| 167 | 12" Megalug Restraint for Ductile Iron Pipe | EA | 70 |



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| NO. | ITEM | UNIT | UNIT COST |
|--|--|------|-----------|
| 168 | 12" Megalug Restraint for PVC Pipe | EA | 80 |
| 169 | 2" Tyler Mechanical Joint Accessory Kit | EA | 18 |
| 170 | 4" Tyler Mechanical Joint Accessory Kit | EA | 33 |
| 171 | 6" Tyler Mechanical Joint Accessory Kit | EA | 37 |
| 172 | 8" Tyler Mechanical Joint Accessory Kit | EA | 42 |
| 173 | 10" Tyler Mechanical Joint Accessory Kit | EA | 61 |
| 174 | 12" Tyler Mechanical Joint Accessory Kit | EA | 63 |
| 175 | 4" Ductile Iron Tyler Bored Out Flange | EA | 29 |
| 176 | 6" Ductile Iron Tyler Bored Out Flange | EA | 40 |
| 177 | 8" Ductile Iron Tyler Bored Out Flange | EA | 60 |
| 178 | 10" Ductile Iron Tyler Bored Out Flange | EA | 75 |
| 179 | 12" Ductile Iron Tyler Bored Out Flange | EA | 76 |
| Watermain Pipe Items | | | |
| 180 | 4" CL 52 Ductile Iron Pipe, 18' | EA | 24.10' |
| 181 | 6" CL 52 Ductile Iron Pipe, 18' | EA | 18.50' |
| 182 | 8" CL 52 Ductile Iron Pipe, 18' | EA | 26.15' |
| 183 | 10" CL 52 Ductile Iron Pipe, 18' | EA | 34.25' |
| 184 | 12" CL 52 Ductile Iron Pipe, 18' | EA | 43.35' |
| 185 | 16" CL 52 Ductile Iron Pipe, 18' | EA | 62.50' |
| <div style="display: flex; align-items: center;"> <div style="border-left: 1px solid black; border-right: 1px solid black; border-bottom: 1px solid black; width: 100px; height: 100px; margin-right: 10px;"></div> <div style="font-size: 2em; font-weight: bold; text-align: center;"> 20' PIPE NOMINAL LENGTH </div> </div> | | | |
| Water Service Related Items | | | |
| 186 | 3/4" Flared Corporation Stop | EA | 26 |
| 187 | 1" Flared Corporation Stop | EA | 40 |
| 188 | 1 1/2" Flared Corporation Stop | EA | 123 |
| 189 | 2" Flared Corporation Stop | EA | 215 |
| 190 | 3/4" Full Port Flared Curb Box | EA | 64 |
| 191 | 1" Full Port Flared Curb Box | EA | 85 |
| 192 | 1 1/2" Full Port Flared Curb Box | EA | 200 |
| 193 | 2" Full Port Flared Curb Box | EA | 324 |
| 194 | 1 1/4" Curb Box | EA | 35 |
| 195 | 1 1/2" Curb Box | EA | 48 |



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| NO. | ITEM | UNIT | UNIT COST |
|--------------------|--|------|-----------|
| 196 | 1 1/4" Curb Box Top | EA | 8.25 |
| 197 | Curb Box Extension Replacement Slip Sleeve | EA | 20 |
| 198 | 3/4" Type K Copper - 60' Roll | EA | 177 |
| 199 | 3/4" Type K Copper - 100' Roll | EA | 295 |
| 200 | 1" Type K Copper - 60' Roll | EA | 230.40 |
| 201 | 1" Type K Copper - 100' Roll | EA | 384 |
| 202 | 1 1/2" Type K Copper - 60' Roll | EA | 297.60 |
| 203 | 1 1/2" Type K Copper - 100' Roll | EA | 496 |
| 204 | 2" Type K Copper - 40' Roll | EA | 396 |
| 205 | 2" Type K Copper - 60' Roll | EA | 594 |
| 206 | 3/4" Copper to 3/4" Copper Coupling | EA | 16 |
| 207 | 3/4" Copper to 1" Copper Coupling | EA | 23 |
| 208 | 1" Copper to 1" Copper Coupling | EA | 27 |
| 209 | 3/4" Copper to 3/4" Strong Lead-Pack Coupling | EA | 28 |
| 210 | 3/4" Copper to 3/4" Extra Strong Lead-Pack Coupling | EA | 32 |
| 211 | 3/4" Copper to 3/4" Double Extra Strong Lead-Pack Coupling | EA | 39 |
| 212 | 1" Copper to 3/4" Strong Lead-Pack Coupling | EA | 46 |
| 213 | 1" Copper to 3/4" Extra Strong Lead-Pack Coupling | EA | 45 |
| 214 | 1" Copper to 1" Strong Lead-Pack Coupling | EA | 55 |
| 215 | 1" Copper to 1" Extra Strong Lead-Pack Coupling | EA | 39 |
| 216 | 1" Copper to 1" Double Extra Strong Lead-Pack Coupling | EA | 51 |
| Meter Items | | | |
| 217 | 3/4" Ford Meter Horn | EA | 66 |
| 218 | 1" Ford Meter Horn | EA | 102 |
| 219 | 3/4" Ford Ball Valve (Check Specifications) | EA | 43.50 |
| 220 | 1" Ford Ball Valve (Check Specifications) | EA | 67 |
| 221 | 5/8" x 1/2" Pipe Thread Ford Meter Coupling (60) | Pkg | 370 |
| 222 | 5/8" x 3/4" Pipe Thread Ford Meter Coupling (50) | Pkg | 420.50 |
| 223 | 3/4" Ford Meter Coupling (25) | Pkg | 235 |



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RETURN WITH BID

(For complete information covering these items, see specifications)

| NO. | ITEM | UNIT | UNIT COST | |
|--------------------------|---|------|-----------|-----|
| 224 | 1" Ford Meter Coupling (15) | Pkg | 194.25 | |
| 225 | 1 1/2" Large Bronze Meter Flange Kit | EA | 59 | |
| 226 | 2" Large Bronze Meter Flange Kit | EA | 60 | |
| 227 | 3" Large Bronze Meter Flange Kit | EA | 250 | |
| 228 | 4" Large Bronze Meter Flange Kit | EA | 410 | |
| 229 | 3" Zenner FHZ30S Hydrant Meter w/Check Valve | EA | NIB | |
| 230 | Ground clamp, 1 1/2" | EA | 2.00 | |
| Storm Sewer Items | | | | |
| 231 | Manhole Frame & Solid Lid, 4", R-1647-B | EA | NIB | |
| 232 | Manhole Frame & Solid Lid, 7", R-1772-B | EA | | |
| 233 | Manhole Frame & Solid Lid, 9", R-1713-B | EA | | |
| 234 | Combination Inlet Frame, Gate, & Curb Box, R-3015-R | EA | | |
| 235 | Beehive Grate, R-4340-B | EA | | |
| 236 | Beehive Grate, R-4341-A | EA | | |
| 237 | Beehive Grate, R-4342 | EA | | |
| 238 | Solid Cover R-1712 | EA | | |
| 239 | Open Cover R-2502, Type D | EA | | |
| 240 | Curb Box - R-3015 | EA | | |
| 241 | Curb Frame R-3015 | EA | | |
| 242 | Grate - R-3015 | EA | | |
| 243 | Inlet Filter for IDOT Type 1 Frame | EA | | 110 |
| 244 | Inlet Filter for IDOT Type 8 Frame | EA | | 110 |
| 245 | Inlet Filter for IDOT Type 23 Frame | EA | | 110 |
| 246 | Concrete Adjusting Ring, 2" | EA | NIB | |
| 247 | Concrete Adjusting Ring, 3" | EA | | |
| 248 | Concrete Adjusting Ring, 4" | EA | | |
| 249 | Concrete Adjusting Ring, 6" | EA | | |
| 250 | HDPE Adjusting Ring, 3/4" x 1-1/2" | EA | 22 | |
| 251 | Composite Adjusting Ring, 0.75" | EA | 29.50 | |
| 252 | Composite Adjusting Ring, 1" | EA | 33 | |

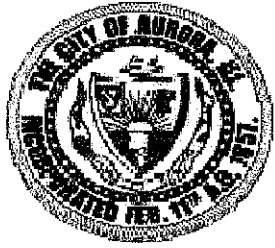


**Schedule of Prices
City of Aurora Water & Sewer
Maintenance Division
2020 Materials and Supplies
Bid 19-67**

RETURN WITH BID

(For complete information covering these items, see specifications)

| NO. | ITEM | UNIT | UNIT COST |
|------------|--|-------------|------------------|
| 253 | Composite Adjusting Ring, 1.25" | EA | 38 |
| 254 | Composite Adjusting Ring, 1.5" | EA | 43.50 |
| 255 | Composite Adjusting Ring, 1.75" | EA | 47 |
| 256 | Composite Adjusting Ring, 2" | EA | 52.50 |
| 257 | Composite Adjusting Ring, 2.25" | EA | 58 |
| 258 | Composite Adjusting Ring, 2.5" | EA | 62 |
| 259 | Composite Adjusting Ring, 4" | EA | 91 |
| 260 | Composite Adjusting Ring, 6" | EA | 126 |
| 261 | M-1 Structural Adhesive/Sealant | EA | 15.25 |
| 262 | 2' x 24" Catch Basin with Base | EA | N/B |
| 263 | 2' x 30" Catch Basin with Base | EA | |
| 264 | 2' x 36" Catch Basin with Base | EA | |
| 265 | 2' x 48" Catch Basin with Base | EA | |
| 266 | 3' x 36" Catch Basin w/lt Base | EA | |
| 267 | 3' x 16" Barrell Section | EA | |
| 268 | 3' x 24" Barrell Section | EA | |
| 269 | 3' x 36" Barrell Section | EA | |
| 270 | 3'x 48" Barrel Section | EA | |
| 271 | 3' x 18" Cone Offset | EA | |
| 272 | 3' Flat Top Eccentric Opening, Non-Tongue and groove | EA | |
| 273 | 3' Flat Top Concentric Opening, Non-Tongue and groove | EA | |
| 274 | 3' Flat Top Eccentric Opening, Tongue and Groove | EA | |
| 275 | 3' Flat Top Concentric Opening, Tongue and groove | EA | |
| 276 | 3' Diameter Base | EA | |
| 277 | 4' Flat Top, 6" Thickness, Concentric Opening, Tongue and Groove | EA | |
| 278 | 4' Flat Top, 6" Thickness Eccentric Opening Tongue and Groove | EA | |
| 279 | 4' Flat Top, 6" Thickness, Concentric Opening, Non-Tongue and Groove | EA | |
| 280 | 4' Flat Top, 6" Thickness Eccentric Opening Non-Tongue and Groove | EA | |

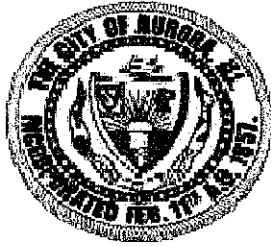


Schedule of Prices
City of Aurora Water & Sewer
Maintenance Division
2020 Materials and Supplies
Bid 19-67

RETURN WITH BID

(For complete information covering these items, see specifications)

| NO. | ITEM | UNIT | UNIT COST |
|-----|--|------|-----------|
| 281 | 4' Flat Top, 12" Thickness, Concentric Tongue and Groove | EA | NIB |
| 282 | 4' Flat Top, 12" Thickness, Eccentric Tongue and Groove | EA | |
| 283 | 4' Flat Top, 12" Thickness, Concentric Non-Tongue and groove | EA | |
| 284 | 4' Flat Top, 12" Thickness, Eccentric Non-Tongue and groove | EA | |
| 285 | 4' x 32" Manhole with Base | EA | |
| 286 | 4' x 48" Barrel Section | EA | |
| 287 | 4' Base | EA | |
| 288 | 5' Flat Top, 6" Thickness, Concentric Opening, Tongue and Groove | EA | |
| 289 | 5' Flat Top, 6" Thickness Eccentric Opening Tongue and Groove | EA | |
| 290 | 5' Flat Top, 6" Thickness, Concentric Opening, Non-Tongue and Groove | EA | |
| 291 | 5' Flat Top, 6" Thickness Eccentric Opening Non-Tongue and Groove | EA | |
| 292 | 5' Flat Top, 12" Thickness, Concentric Tongue and Groove | EA | |
| 293 | 5' Flat Top, 12" Thickness, Eccentric Tongue and Groove | EA | |
| 294 | 5' Flat Top, 12" Thickness, Concentric Non-Tongue and groove | EA | |
| 295 | 5' Flat Top, 12" Thickness, Eccentric Non-Tongue and groove | EA | |
| 296 | 5' x 32" Manhole with Base | EA | |
| 297 | 5' x 48" Barrel Section | EA | |
| 298 | 5' Base | EA | |
| 299 | 12" Diameter ADS N-12 (Water Tight Joints, 20' Sticks) | EA | |
| 300 | 15" Diameter ADS N-12 (Water Tight Joints, 20' Sticks) | EA | |
| 301 | 12" Diameter RCP | EA | |
| 302 | 15" Diameter RCP | EA | |
| 303 | 18" Diameter RCP | EA | |
| 304 | 24" Diameter RCP | EA | |
| 305 | 12" Diameter RCP Flared End Section | EA | |



**Schedule of Prices
City of Aurora Water & Sewer
Maintenance Division
2020 Materials and Supplies
Bid 19-67**

RETURN WITH BID

(For complete information covering these items, see specifications)

| NO. | ITEM | UNIT | UNIT COST |
|-----------------------------|--|------|-----------|
| 306 | 15" Diameter RCP Flared End Section w/Grate | EA | N/B |
| 307 | 18" Diameter RCP Flared End Section w/Grate | EA | I |
| 308 | 24" Diameter RCP Flared End Section w/Grate | EA | I |
| Sanitary Sewer Items | | | |
| 309 | Sanitary Manhole Chimney Seals | EA | 145 |
| 310 | 4" SDR-26 PVC Pipe, 14' | EA | 17.50 |
| 311 | 6" SDR-26 PVC Pipe, 14' | EA | 37.80 |
| 312 | 8" SDR-26 PVC Pipe, 14' | EA | 68.32 |
| 313 | 10" SDR-26 PVC Pipe, 14' | EA | 106.96 |
| 314 | 12" SDR-26 PVC Pipe, 14' | EA | 151.20 |
| 315 | 15" SDR-26 PVC Pipe, 14' | EA | 231 |
| 316 | 18" SDR-26 PVC Pipe, 14' | EA | 336 |
| Miscellaneous Items | | | |
| 317 | Krylon Industrial Quik-Mark Blue Marking Paint, 17 Oz | EA | 2.35 |
| 318 | Krylon Industrial Quik-Mark Green Marking Paint, 17 Oz | EA | 2.35 |
| 319 | Krylon Industrial Quik-Mark White Marking Paint, 17 Oz | EA | 2.35 |
| 320 | Hydraulic Cement, 50 LB Pail | EA | 26 |
| 321 | Masonry Mortar Type M, 80lb Bag | EA | 4.90 |
| 322 | Butyl Rubber Sealant Tape, 3/8"x3"x50' | Roll | N/B |
| 323 | Butyl Rubber Sealant Tape, 3/8"x6"x50' | Roll | |
| 324 | Butyl Rubber Sealant Tape, 3/8"x9"x50' | Roll | |
| 325 | Butyl Rubber Sealant Tape, 3/8"x12"x50' | Roll | |
| 326 | Butyl Rubber Sealant, 3/8"x3.5"x16' | Roll | |
| 327 | Butyl Rubber Sealant, 3/4"x3/4"x16' | Roll | |
| 328 | Type II Barricade | EA | I |



(If an individual)

Signatures

Signature of Bidder _____

Business Address _____

(If a partnership)

Firm Name LORE AND MAIN LP

Signed by Mark Hammon

Business Address 220 S. WESTGATE DRIVE

CRANDSTREAM, IL 60188

Insert
Names and
Addresses of
All Partners

STEVE LeCLAIR CEO

MARK Witkowski CFO

(If a corporation)

Corporate Name _____

Signed By _____
President

Business Address _____

President _____

Secretary _____

Treasurer _____

Attest: _____
Secretary



BIDDER'S CERTIFICATION

I/We hereby certify that:

- A. A complete set of bid papers as intended have been received and that I/We will abide by the contents and/or information received and/or contained therein.
- B. I/We have not entered into any collusion or other unethical practices with any other person, firm, or employee of the City, which would in any way be construed as an unethical practice.
- C. I/We comply with all current Federal, State, and Local laws, statutes, rules, and regulations referencing equal opportunity employment practices.
- D. I/We will abide by all codes, rules, regulations, ordinances, and statutes of the City of Aurora, Counties of Kane, DuPage, as applicable and the State of Illinois and the United States of America.
- E. I/We hereby certify that we have adopted a written sexual harassment policy which is in accordance with the requirements set forth in 775 ILCS 5/2-105(A)(4) and further certify that I/We are also in compliance with all other requirements contained in 775 ILCS 5/2-105(A).
- F. I/We have in place a:
 - written program which meets or exceeds the program requirements of the Substance Abuse Prevention on Public Works Projects Act (Public Act 95-0635), and will provide a written copy thereof to the City of Aurora or
 - collective bargaining agreement which deals with the subject matter of the Substance Abuse Prevention on Public Works Projects Act (Public Act 95-0635) – **Contractor shall check the box for the policy that applies.**

CORE AND MAIN LP
Company Name

220 S. WESTGATE DRIVE CAROL STREAM IL 60188
Address

Keith Lawrence
Name of Corporate or Company Official (print)

Keith Lawrence BRANCH MANAGER
Authorized Signature Title

10/30/19 630-665-1800
Date Phone

Certification Regarding Debarment, Suspension and Other Responsibility Matters

The prospective participant to the best of its knowledge and belief that it and its principles:

- (a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;
- (b) Have not within a three year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property.
- (c) Are not presently indicted for or otherwise criminally or civilly charged by a government entity (Federal, State or local) with commission of any of the offenses enumerated in paragraph (1) (b) of this certification; and
- (d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

I understand that a false statement on this certification may be grounds for rejection of this proposal or termination of the award. In addition, under 18 USC Sec. 1001, a false statement may result in fine of up to \$10,000 or imprisonment for up to 5 years, or both.

Keith Lawrence 10/30/19
(Signature of Authorized Representative) (Date)

I am unable to certify the above statements. My explanation is attached.

Bidder Certification In Compliance with Article 33E to the "Criminal Code of 1961"

I Keith Lawrence, do hereby certify that:
(Name)

- 1. I am BRANCH MANAGER of the COKE AND MAIN LP
(Position) (Firm)
and have authority to execute this certification on behalf of the firm
- 2. This firm is not barred from bidding on this contract as a result of a violation of Section 33E-3, Bid-rigging, or Section 33E-4, Bid Rotating, as set forth in Article 33E to the "Criminal Code of 1961."

Name of Firm CORE AND MAIN LP

Signature Keith Lawrence

Title BRANCH MANAGER

Date 10/30/19

Corporate Seal (where appropriate)

On this 30 day of OCTOBER 2019, before me appeared (Name) Keith Lawrence to me personally known, who, being duly sworn, did execute the foregoing affidavit, and did state that he or she was properly authorized by (Name of Firm) Core + Main LP to execute the affidavit and did so as his or her free act and deed.

Notary Public Donna Pupillo Commission Expires 6/19/2020

Notary Seal



SPECIAL PROVISIONS

INDEX

Provision ***Title***
Number

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- SP 2 – HYDRANT METER
- SP 3 – VALVES
- SP 4 – VALVE BOXES
- SP 5 – MISSION COUPLING
- SP 6 – REPAIR CLAMP
- SP 7 – DUCTILE IRON SLEEVE FITTINGS
- SP 8 – CAST COUPLINGS
- SP 9 – SINGLE BOLT CAST COUPLINGS
- SP 10 – MEGALUG RETAINER GLAND
- SP 11 – MECHANICAL JOINT ACCESSORY KIT
- SP 12 – DUCTILE IRON BORED OUT FLANGE
- SP 13 – SDR-26 PVC PIPE
- SP 14 – CLASS 52 DUCTILE IRON PIPE
- SP 15 – CORPORATION STOP
- SP 16 – CURB BOX
- SP 17 – METER HORN
- SP 18 – BALL VALVE
- SP 19 – METER COUPLING
- SP 20 – TYPE K COPPER
- SP 21 – WATER METER FLANGE KIT
- SP 22 – MARKING PAINT
- SP 23 – NEENAH FRAME AND GRATES

SPECIAL PROVISIONS

INDEX

Provision Title
Number

SP 24 - HYDRAULIC CEMENT

SP 25 – STORM STRUCTURES

SP 26 – TYPE II BARRICADE

SP 27 – GROUND CLAMP

SP 28 – BUTYL MASTIC SEALANT

SP 29 – ADS PIPE

SP 30 – COMPOSITE ADJUSTMENT RINGS

SP 31 – T-BOLTS AND NUTS

SP 32 – INLET FILTERS

SP 33 – CHIMNEY SEALS

SP 34 – WATER SERVICE COUPLINGS

CITY OF AURORA SPECIAL PROVISIONS

The following Special Provisions supplement the "General Specifications," the Illinois Department of Transportation's "Standard Specifications For Road and Bridge Construction," (herein after called the "Standard Specifications", the City of Aurora's "Standard Specifications for Improvements," the "Supplemental Specifications and Recurring Special Provisions," the "Standard Specifications for Water And Sewer Main Construction in Illinois, Sixth Edition," the "Standard Specifications for Traffic Control Items," and the latest edition of the "Illinois Manual on Uniform Traffic Control Devices for Streets and Highways" in effect on the date of invitation for proposals. These special provisions apply to and govern the **Water & Sewer Maintenance Division 2020 Materials and Supplies Request for Quotations** and in case of conflict with any part or parts of said specifications; these Special Provisions shall take precedence and shall govern.

All appropriate parts shall be lead free and be stamped "NL". Materials are to be manufactured in the United States. **Any variation from the special provisions below should be approved prior to providing bid pricing.**

All materials shall be delivered to the Water & Sewer Maintenance Division within 5 business days of being ordered.

SP 1 - FIRE HYDRANT ASSEMBLY

These specifications are to be used in conjunction with the AWWA Standard C502 for fire hydrants for ordinary water works service, and the City of Aurora's Standard Specifications for Improvements.

All materials used in the production of fire hydrants for ordinary service shall conform to the specifications designated for each material listed in AWWA Standard C502.

The hydrant shall be Waterous Pacer WB-67 (5 1/4" barrel) of a pattern approved by the Engineer. The seat must be bronze. The name or mark of the manufacturer, size of the valve opening shall be plainly cast in raised letters and so placed on the hydrant barrel as to be visible after the hydrant has been installed.

Hydrant markers shall be RoDon Hydra-Finder Hydrant Markers or an engineer approved equal. The marker shall be a 3/8" diameter white laminar matrix fiberglass shaft with 6" wide high reflectivity red striping tape. The hydrant marker shall have a standard length of 5'. The fiberglass shaft shall be attached to a heavy duty MIL SPEC chrome-plated spring mount connected to a 5/8" diameter bolt-on steel flat mounting bracket.

See the Figure 6 attached at the end for a diagram showing the specific hydrant replacement parts.

The ALPHA restraint joint shall have a working pressure of 350 psi and be as licensed and manufactured by Romac Industries, Inc.

SP 2 - HYDRANT METER

The Hydrant Meter shall be designed to measure a wide variety of cold potable water flows from hydrants where flows are in one direction. The hydrant meter provided shall be a Zenner FHZ30S or approved equal. The hydrant meter shall comply with AWWA C701 Class II performance standards. The only moving parts in the meter shall be the rotor assembly and vertical shaft. All components of the meter shall be lead free. The optional NC2530B-CV check valve assembly shall be included with the hydrant meter. **The meters shall be 3" and read in century cubic feet.**

SP 3 - VALVES

The minimum requirements for all valves shall, in design, material and workmanship, conform to the standards of the latest AWWA C509-87, and C504. All materials used in the manufacture of waterworks valves shall conform to the AWWA standards designed for each material listed.

Gate Valve: Gate valves shall be resilient wedge with cast iron body, fully bronze mounted, non-rising stem with upper and lower thrust collars. Waterways shall be smooth. All valves shall open by turning counterclockwise. Valves shall meet or exceed ANSI/AWWA C-515-99 latest revision. Gate valves shall be Waterous series 2500 Resilient Wedge Gate Valves. All nuts, bolts, and threaded rods shall be stainless steel, Grade 304 bolts and Grade 316 nuts.

All gate valves shall be furnished with O-Ring Stem Seals. Number, size and design shall conform to the AWWA Standard for R/W valve O-Ring Stem Seals.

Cutting in Valve: Cutting in valves shall be resilient wedge with cast iron body, fully bronze mounted, non-rising stem with upper and lower thrust collars. Waterways shall be smooth. All valves shall open by turning counterclockwise. Valves shall meet or exceed ANSI/AWWA C-509 latest revision. Cutting in valves shall be Clow Model 2640 cutting in joint (MCJ) end Valves. All nuts, bolts, and threaded rods shall be stainless steel, Grade 304 bolts and Grade 316 nuts.

All cutting in valves shall be furnished with O-Ring Stem Seals. Number, size and design shall conform to the AWWA Standard for R/W valve O-Ring Stem Seals.

The ALPHA restraint joint shall have a working pressure of 350 psi and be as licensed and manufactured by Romac Industries, Inc.

SP 4 - VALVE BOXES

Valve boxes and extensions must be cast iron only. Valve boxes shall be 6855 Series as manufactured by Tyler Union. Adjustable cast iron valve boxes shall be slide type. The slide type valve box shall be adjustable by sliding the upper section over the lower section. As shown on the schedule of prices, this item shall be bid as a complete system and as spare parts for purchase as needed. Castings with cast iron ring and cover, and cast iron parts of valve boxes, shall conform to the requirements of Standard Specifications for Gray Iron Castings, ASTM Designation A-48.

SP 5 - MISSION COUPLING

Mission repair couplings shall be Style CNSS non-shear sewer couplings as manufactured by Cascade Water Works, Mfg. Co. of Yorkville, IL. The coupling shall be constructed with an outer shell of T-304 (ASTM A-240/ASME SA-240) stainless steel with three stainless steel heavy duty

worm gear fasteners (SAE J-1508 - MIL 5059-A) permanently welded in place and passivated per ASTM A-380. The shell shall fully encircle a 40 durometer ribbed gasket made from virgin SBR (ASTM D2000) rubber formulated for sewer service.

SP 6 - REPAIR CLAMP

Repair clamps shall be manufactured by The Ford Meter Company, Inc. (FS1), Cascade Waterworks MFG. (CR1), Smith/Blair (261), PowerSeal (3121AS) or an approved equal. All repair clamps shall have type 304 stainless steel components and an 18/8 grade. All clamps shall have a Nitrile (Buna-N) gasket. The lugs shall also be type 304 stainless steel.

SP 7 - DUCTILE IRON SLEEVE FITTINGS

All fittings shall be ductile iron conforming to the latest ANSI specifications A21.10 for short body fittings, twelve inches (12") or less, and AWWA C110 for fittings fourteen inches (14") or larger. Long body sleeves shall be provided unless directed otherwise. When specified to have mechanical joints, Mega Lug wedge action retaining glands, or approved equal shall be included. All nuts and bolts used for jointing shall be stainless steel, Grade 304 bolts, and Grade 316 nuts. Ductile Iron sleeves shall be manufactured by Tyler Union or an approved equal.

SP 8 - CAST COUPLINGS

Cast Couplings shall be manufactured by The Ford Meter Company, Inc. (Style FC1), Cascade Waterworks MFG. (Omega Coupling), Smith/Blair (441), PowerSeal (3501), or an approved equal. All couplings shall meet or exceed requirements of AWWA C-219 and should have a minimum working pressure of 250 psi. All couplings shall be certified to NSF/ANSI 61-G with Nitrile (Buna N) gaskets. An approved equal is to come with stainless steel Grade 304 bolts and Grade 316 nuts.

SP 9 - SINGLE BOLT CAST COUPLINGS

Single Bolt Cast Couplings shall be Alpha restrained joint manufactured by Romac Industries, Inc. or an approved equal. All couplings shall meet or exceed requirements of AWWA A 536, grade 65-45-12 and should have a minimum working pressure of 350 psi. All couplings shall contact gaskets certified by UL to meet NSF/ANSI 61. An approved equal is to come with stainless steel Grade 304 bolts and Grade 316 nuts.

SP 10 - MEGALUG RETAINER GLAND

MegaLug retainer glands shall be Series 1100 (DI) or Series 2000PV (PVC) as manufactured by EBBA Iron Inc. or approved equal (set screw retainer glands will not be accepted). The mechanical joint restraint shall be constructed of ductile iron meeting ASTM A536 and it shall have a pressure rating of 350 PSI. All nuts and bolts shall be stainless steel, Grade 304 bolts and Grade 316 nuts.

SP 11 - MECHANICAL JOINT ACCESSORY KIT

The mechanical joint accessory kit shall include a rubber gasket and a ductile iron backing flange of the size specified in the pay item and the appropriate number of bolts required for the kit size. The kit manufacturer shall be Tyler Union, or an approved equal, and the components shall be for use with ductile iron pipe. The mechanical joint restraint shall be constructed of ductile iron meeting ASTM A536 and it shall have a pressure rating of 350 PSI. All items shall be

manufactured in the U.S.A. All nuts and bolts shall be stainless steel, Grade 304 bolts and Grade 316 nuts.

SP 12 - DUCTILE IRON BORED OUT FLANGE

Ductile iron bored out flanges shall be manufactured by Tyler Union or an approved equal.

SP 13 - SDR-26 PVC PIPE

All pipe shall meet the requirements of ASTM D3034 for 4" through 15" and F679 for 18" through 36" pipe. All pipe shall be made from quality PVC resin, compounded to provide physical and mechanical properties that equal or exceed cell class 12454 or 12364 as defined in ASTM D1784. The bell shall consist of an integral wall section with a solid cross section elastomeric gasket which meets the requirements of ASTM F477.

SDR-26 PVC plastic pipe shall be tested as follows:

Manufacturer shall submit certified copies of all reports of tests conducted by an independent laboratory of PVC Plastic Pipe. Tests shall be conducted in accordance with Standard Method of Test for "External Loading Properties of Plastic Pipe by Parallel-Plate Loading", ASTM Standard D2412. Tests shall also be conducted in accordance with ASTM D 3212 to demonstrate joint performance at 5% maximum diametric deflection of the spigot, as specified in Article 7.4 of ASTM D 3212.

Maximum allowable ordinate as measured from the concave side of the pipe shall not exceed 1/16 inch per foot of length. Pipe shall be so constructed that the initial internal vertical diameter does not decrease by more than 5% in order to provide the complete hydraulic carrying capacity conceived by the design engineer, and to obtain the joint performance at 5% maximum diametric deflection as specified in Article 7.4 of ASTM D 3212.

SP 14 - CLASS 52 DUCTILE IRON PIPE

Ductile-iron pipe shall conform to ANSI Specification A21.51 or AWWA C151. Class 52, thickness designation, casting, marking, testing, etc. shall be provided in accordance with applicable ANSI or AWWA standards.

Cement lining shall be included in accordance with ANSI A21.4 (AWWA C-104). All pipe, specials and fittings shall be cement mortar lined in the shop with centrifugally spun lining in accordance with AWWA C205-85 or cement mortar lined mechanically in accordance with AWWA C602-83. Use ASTM C150, Type II, cement for lining. Field joints shall be made in accordance with AWWA C205, Appendix A.

Pipe joints shall be either push-on (rubber gasket) type as recommended by the pipe manufacturer. All pipe shall be furnished with a depth mark to assure that the spigot end is inserted to the full depth of the joint.

SP 15 - CORPORATION STOP

Corporation stops shall have flared connections conforming to ANSI/AWWA C-800 and shall be the following brands or approved equal: A.Y. McDonald 4701 or Ford F-600. All appropriate parts shall be lead free and be stamped "NL".