

PROPOSAL SUBMITTED BY:

FERGUSON WATERWORKS
Contractor's Name

1720 STATE STREET
Street

DEKALB IL 60115
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 FERGUSON WATERWORKS
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	NO BID
2	Waterous Fire Hydrant Assembly, 5' Bury	EA	NO BID
3	Waterous Fire Hydrant Assembly, 5 1/2' Bury	EA	NO BID
4	Waterous Fire Hydrant Assembly, 6' Bury	EA	NO BID
5	Waterous Fire Hydrant Assembly, 4 1/2' Bury w/Alpha Standard Base	EA	NO BID
6	Waterous Fire Hydrant Assembly, 5' Bury w/Alpha Standard Base	EA	NO BID
7	Waterous Fire Hydrant Assembly, 5 1/2' Bury w/Alpha Standard Base	EA	NO BID
8	Waterous Fire Hydrant Assembly, 6' Bury w/Alpha Standard Base	EA	NO BID
9	Waterous Fire Hydrant Assembly, 4 1/2' Bury w/Alpha XL Base	EA	NO BID
10	Waterous Fire Hydrant Assembly, 5' Bury w/Alpha XL Base	EA	NO BID
11	Waterous Fire Hydrant Assembly, 5 1/2' Bury w/Alpha XL Base	EA	NO BID
12	Waterous Fire Hydrant Assembly, 6' Bury w/Alpha XL Base	EA	NO BID
13	Waterous Fire Hydrant Extension, 6"	EA	NO BID
14	Waterous Fire Hydrant Extension, 12"	EA	NO BID
15	Waterous Fire Hydrant Extension, 18"	EA	NO BID
16	Waterous Fire Hydrant Extension, 24"	EA	NO BID
17	Waterous Traffic Kit, Old Style (K525/10")	EA	NO BID
18	Waterous Traffic Kit, New Style (K528/16")	EA	NO BID
19	Waterous Hydrant Kit K834, Hydrant Head w/Traffic Kit	EA	NO BID
20	Waterous Hydrant Kit K836, Hydrant Head	EA	NO BID
21	Waterous Hydrant Part #60 (Hydrant Head)	EA	NO BID
22	RoDon Hydra-Finder Hydrant Marker, 60"	EA	NO BID
23	Valve Seat - #31	EA	NO BID
24	Main Valve Rubber #35	EA	NO BID
25	Breakable Flange #113	EA	NO BID
26	Flange Lock Ring #64	EA	NO BID
27	Coupling Sleeve (2 halves) #67	EA	NO BID
28	Lower Operating Nut #17A	EA	NO BID
29	Drain Plunger #7	EA	NO BID

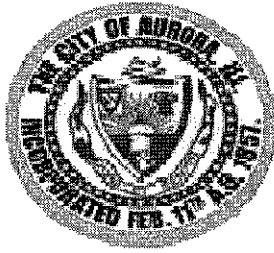


Schedule of Prices
City of Aurora Water & Sewer
Maintenance Division
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(For complete information covering these items, see specifications)

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



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

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(For complete information covering these items, see specifications)

NO.	ITEM	UNIT	UNIT COST
58	American Flow Control Gate Valve, 16" w/ Mechanical Joint Ends	EA	NO BID
59	American Flow Control Gate Valve, 2" w/ ALPHA Standard Restrained Joint Ends	EA	NO BID
60	American Flow Control Gate Valve, 4" w/ ALPHA Standard Restrained Joint Ends	EA	NO BID
61	American Flow Control Gate Valve, 6" w/ ALPHA Standard Restrained Joint Ends	EA	NO BID
62	American Flow Control Gate Valve, 8" w/ ALPHA Standard Restrained Joint Ends	EA	NO BID
63	American Flow Control Gate Valve, 10" w/ ALPHA Standard Restrained Joint Ends	EA	NO BID
64	American Flow Control Gate Valve, 12" w/ ALPHA Standard Restrained Joint Ends	EA	NO BID
65	American Flow Control Gate Valve, 14" w/ ALPHA Standard Restrained Joint Ends	EA	NO BID
66	American Flow Control Gate Valve, 16" w/ ALPHA Standard Restrained Joint Ends	EA	NO BID
67	American Flow Control Gate Valve, 2" w/ ALPHA XL Restrained Joint Ends	EA	NO BID
68	American Flow Control Gate Valve, 4" w/ ALPHA XL Restrained Joint Ends	EA	NO BID
69	American Flow Control Gate Valve, 6" w/ ALPHA XL Restrained Joint Ends	EA	NO BID
70	American Flow Control Gate Valve, 8" w/ ALPHA XL Restrained Joint Ends	EA	NO BID
71	American Flow Control Gate Valve, 10" w/ ALPHA XL Restrained Joint Ends	EA	NO BID
72	American Flow Control Gate Valve, 12" w/ ALPHA XL Restrained Joint Ends	EA	NO BID
73	American Flow Control Gate Valve, 14" w/ ALPHA XL Restrained Joint Ends	EA	NO BID
74	American Flow Control Gate Valve, 16" w/ ALPHA XL Restrained Joint Ends	EA	NO BID
75	Tyler Valve Box, 664-S Complete w/Lid	EA	\$ 172.34
76	Tyler Valve Box Extension, #58-A	EA	\$ 49.55
77	Tyler Valve Box Extension, #59-A	EA	\$ 59.76
78	Tyler Valve Box Extension, #60-A	EA	\$ 60.49
79	Tyler Valve Box Extension, #69A - 9"	EA	\$ 50.29
80	Tyler Valve Box Extension, #69A - 18" (Foreign OK)	EA	\$ 42.94
81	Tyler Valve Box Extension, #69A - 24" (Foreign OK)	EA	\$ 42.94



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City of Aurora Water & Sewer
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(For complete information covering these items, see specifications)

NO.	ITEM	UNIT	UNIT COST
Repair Parts and Fittings			
82	4" Non-Shear Mission Coupling (Clay to Plastic)	EA	\$ 14.86
83	6" Non-Shear Mission Coupling (Clay to Plastic)	EA	\$ 23.01
84	8" Non-Shear Mission Coupling (Clay to Plastic)	EA	\$ 31.26
85	10" Non-Shear Mission Coupling (Clay to Plastic)	EA	\$ 43.36
86	12" Non-Shear Mission Coupling (Clay to Plastic)	EA	\$ 49.18
87	15" Non-Shear Mission Coupling (Clay to Plastic)	EA	\$ 155.27
88	4" Non-Shear Mission Coupling (Plastic to Plastic)	EA	\$ 14.06
89	6" Non-Shear Mission Coupling (Plastic to Plastic)	EA	\$ 23.03
90	8" Non-Shear Mission Coupling (Plastic to Plastic)	EA	\$ 29.36
91	10" Non-Shear Mission Coupling (Plastic to Plastic)	EA	\$ 41.81
92	12" Non-Shear Mission Coupling (Plastic to Plastic)	EA	\$ 81.94
93	15" Non-Shear Mission Coupling (Plastic to Plastic)	EA	\$ 157.53
94	2" x 8" Repair Clamp	EA	\$ 38.54
95	4" x 8" Repair Clamp	EA	\$ 51.88
96	6" x 8" Repair Clamp	EA	\$ 60.50
97	6" x 8" Repair Clamp w/ 3/4" Tap	EA	\$ 82.50
98	6" x 8" Repair Clamp w/ 1" Tap	EA	\$ 82.50
99	6" x 10" Repair Clamp	EA	\$ 81.84
100	6" x 12" Repair Clamp	EA	\$ 96.96
101	6" x 16" Repair Clamp	EA	\$ 106.75
102	6" x 36" Repair Clamp	EA	NO BID
103	8" x 8" Repair Clamp	EA	\$ 70.74
104	8" x 8" Repair Clamp w/ 3/4" Tap	EA	\$ 92.74
105	8" x 8" Repair Clamp w/ 1" Tap	EA	\$ 92.74
106	8" x 10" Repair Clamp	EA	\$ 93.41
107	8" x 12" Repair Clamp	EA	\$ 112.98
108	8" x 16" Repair Clamp	EA	\$ 129.88
109	8" x 36" Repair Clamp	EA	NO BID

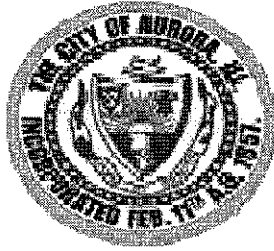


Schedule of Prices
City of Aurora Water & Sewer
Maintenance Division
2020 Materials and Supplies
Bid 19-67

RETURN WITH BID

(For complete information covering these items, see specifications)

NO.	ITEM	UNIT	UNIT COST
110	10" x 10" Repair Clamp	EA	\$ 120.99
111	10" x 12" Repair Clamp	EA	\$ 144.12
112	12" x 12" Repair Clamp	EA	\$ 174.49
113	12" x 16" Repair Clamp	EA	\$ 198.48
114	12" x 36" Repair Clamp	EA	NO BID
115	4" Tyler Cut in Sleeve	EA	\$ 440.78
116	6" Tyler Cut in Sleeve	EA	\$ 587.47
117	8" Tyler Cut in Sleeve	EA	\$ 760.21
118	10" Tyler Cut in Sleeve	EA	\$ 932.95
119	12" Tyler Cut in Sleeve	EA	\$ 1241.93
120	4" Full Body MJ Ductile Iron Solid Sleeve	EA	\$ 168.97
121	6" Full Body MJ Ductile Iron Solid Sleeve	EA	\$ 209.32
122	8" Full Body MJ Ductile Iron Solid Sleeve	EA	\$ 253.11
123	10" Full Body MJ Ductile Iron Solid Sleeve	EA	\$ 383.21
124	12" Full Body MJ Ductile Iron Solid Sleeve	EA	\$ 460.13
125	14" Full Body MJ Ductile Iron Solid Sleeve	EA	\$ 1128.84
126	16" Full Body MJ Ductile Iron Solid Sleeve	EA	\$ 1499.75
127	2" Cast Couplings	EA	\$ 31.37
128	4" Cast Couplings	EA	\$ 96.43
129	6" Cast Couplings	EA	\$ 114.71
130	8" Cast Couplings	EA	\$ 143.90
131	10" Cast Couplings	EA	\$ 189.10
132	12" Cast Couplings	EA	\$ 229.87
133	14" Cast Couplings	EA	\$ 293.79
134	16" Cast Couplings	EA	\$ 501.09
135	2" Single Bolt Standard Cast Couplings	EA	NO BID
136	4" Single Bolt Standard Cast Couplings	EA	\$ 250.73
137	6" Single Bolt Standard Cast Couplings	EA	\$ 325.28
138	8" Single Bolt Standard Cast Couplings	EA	\$ 369.33



Schedule of Prices
City of Aurora Water & Sewer
Maintenance Division
2020 Materials and Supplies
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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	\$ 477.76
140	12" Single Bolt Standard Cast Couplings	EA	\$ 562.47
141	14" Single Bolt Standard Cast Couplings	EA	NO BID
142	16" Single Bolt Standard Cast Couplings	EA	NO BID
143	2" Single Bolt XL Cast Couplings	EA	NO BID
144	4" Single Bolt XL Cast Couplings	EA	\$ 261.24
145	6" Single Bolt XL Cast Couplings	EA	\$ 338.50
146	8" Single Bolt XL Cast Couplings	EA	\$ 384.58
147	10" Single Bolt XL Cast Couplings	EA	\$ 497.08
148	12" Single Bolt XL Cast Couplings	EA	NO BID
149	14" Single Bolt XL Cast Couplings	EA	NO BID
150	16" Single Bolt XL Cast Couplings	EA	NO BID
151	2" Single Bolt Transition Cast Couplings	EA	NO BID
152	4" Single Bolt Transition Cast Couplings	EA	NO BID
153	6" Single Bolt Transition Cast Couplings	EA	NO BID
154	8" Single Bolt Transition Cast Couplings	EA	NO BID
155	10" Single Bolt Transition Cast Couplings	EA	NO BID
156	12" Single Bolt Transition Cast Couplings	EA	NO BID
157	14" Single Bolt Transition Cast Couplings	EA	NO BID
158	16" Single Bolt Transition Cast Couplings	EA	NO BID
159	4" Megalug Restraint for Ductile Iron Pipe	EA	\$ 18.88
160	4" Megalug Restraint for PVC Pipe	EA	\$ 22.77
161	6" Megalug Restraint for Ductile Iron Pipe	EA	\$ 22.26
162	6" Megalug Restraint for PVC Pipe	EA	\$ 28.13
163	8" Megalug Restraint for Ductile Iron Pipe	EA	\$ 33.45
164	8" Megalug Restraint for PVC Pipe	EA	\$ 41.64
165	10" Megalug Restraint for Ductile Iron Pipe	EA	\$ 50.15
166	10" Megalug Restraint for PVC Pipe	EA	\$ 78.73
167	12" Megalug Restraint for Ductile Iron Pipe	EA	\$ 69.64

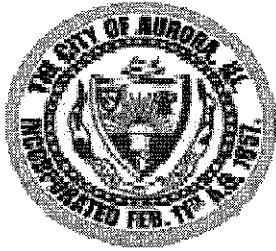


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2020 Materials and Supplies
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NO.	ITEM	UNIT	UNIT COST
168	12" Megalug Restraint for PVC Pipe	EA	\$ 83.22
169	2" Tyler Mechanical Joint Accessory Kit	EA	NO BID
170	4" Tyler Mechanical Joint Accessory Kit	EA	NO BID
171	6" Tyler Mechanical Joint Accessory Kit	EA	NO BID
172	8" Tyler Mechanical Joint Accessory Kit	EA	NO BID
173	10" Tyler Mechanical Joint Accessory Kit	EA	NO BID
174	12" Tyler Mechanical Joint Accessory Kit	EA	NO BID
175	4" Ductile Iron Tyler Bored Out Flange	EA	NO BID
176	6" Ductile Iron Tyler Bored Out Flange	EA	NO BID
177	8" Ductile Iron Tyler Bored Out Flange	EA	NO BID
178	10" Ductile Iron Tyler Bored Out Flange	EA	NO BID
179	12" Ductile Iron Tyler Bored Out Flange	EA	NO BID
Watermain Pipe Items			
180	4" CL 52 Ductile Iron Pipe, 18'	EA	NO BID
181	6" CL 52 Ductile Iron Pipe, 18'	EA	NO BID
182	8" CL 52 Ductile Iron Pipe, 18'	EA	NO BID
183	10" CL 52 Ductile Iron Pipe, 18'	EA	NO BID
184	12" CL 52 Ductile Iron Pipe, 18'	EA	NO BID
185	16" CL 52 Ductile Iron Pipe, 18'	EA	NO BID
Water Service Related Items			
186	3/4" Flared Corporation Stop	EA	\$ 23.70
187	1" Flared Corporation Stop	EA	\$ 36.30
188	1 1/2" Flared Corporation Stop	EA	\$ 111.60
189	2" Flared Corporation Stop	EA	\$ 194.90
190	3/4" Full Port Flared Curb Box	EA	\$ 57.20
191	1" Full Port Flared Curb Box	EA	\$ 77.20
192	1 1/2" Full Port Flared Curb Box	EA	\$ 181.60
193	2" Full Port Flared Curb Box	EA	\$ 293.80
194	1 1/4" Curb Box	EA	\$ 24.60
195	1 1/2" Curb Box	EA	\$ 43.60



Schedule of Prices
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NO.	ITEM	UNIT	UNIT COST
196	1 1/4" Curb Box Top	EA	\$ 8.50
197	Curb Box Extension Replacement Slip Sleeve	EA	\$ 10.96
198	3/4" Type K Copper - 60' Roll	EA	\$ 192.53
199	3/4" Type K Copper - 100' Roll	EA	\$ 320.88
200	1" Type K Copper - 60' Roll	EA	\$ 250.66
201	1" Type K Copper - 100' Roll	EA	\$ 417.78
202	1 1/2" Type K Copper - 60' Roll	EA	\$ 391.68
203	1 1/2" Type K Copper - 100' Roll	EA	\$ 652.80
204	2" Type K Copper - 40' Roll	EA	\$ 414.98
205	2" Type K Copper - 60' Roll	EA	\$ 622.45
206	3/4" Copper to 3/4" Copper Coupling	EA	\$ 14.00
207	3/4" Copper to 1" Copper Coupling	EA	\$ 20.80
208	1" Copper to 1" Copper Coupling	EA	\$ 24.60
209	3/4" Copper to 3/4" Strong Lead-Pack Coupling	EA	\$ 23.40
210	3/4" Copper to 3/4" Extra Strong Lead-Pack Coupling	EA	\$ 27.70
211	3/4" Copper to 3/4" Double Extra Strong Lead-Pack Coupling	EA	\$ 32.60
212	1" Copper to 3/4" Strong Lead-Pack Coupling	EA	\$ 41.00
213	1" Copper to 3/4" Extra Strong Lead-Pack Coupling	EA	\$ 39.60
214	1" Copper to 1" Strong Lead-Pack Coupling	EA	\$ 48.80
215	1" Copper to 1" Extra Strong Lead-Pack Coupling	EA	\$ 34.80
216	1" Copper to 1" Double Extra Strong Lead-Pack Coupling	EA	\$ 44.00
Meter Items			
217	3/4" Ford Meter Horn	EA	\$ 67.96
218	1" Ford Meter Horn	EA	\$ 105.72
219	3/4" Ford Ball Valve (Check Specifications)	EA	NO BID
220	1" Ford Ball Valve (Check Specifications)	EA	NO BID
221	5/8" x 1/2" Pipe Thread Ford Meter Coupling	Pkg	\$ 7.80 EA
222	5/8" x 3/4" Pipe Thread Ford Meter Coupling	Pkg	\$ 9.30 EA
223	3/4" Ford Meter Coupling	Pkg	\$ 9.40 EA



**Schedule of Prices
City of Aurora Water & Sewer
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(For complete information covering these items, see specifications)

NO.	ITEM	UNIT	UNIT COST
224	1" Ford Meter Coupling	Pkg	\$12.60 EA
225	1 1/2" Large Bronze Meter Flange Kit	EA	\$81.00
226	2" Large Bronze Meter Flange Kit	EA	\$111.20
227	3" Large Bronze Meter Flange Kit	EA	\$206.80
228	4" Large Bronze Meter Flange Kit	EA	\$330.50
229	3" Zenner FHZ30S Hydrant Meter w/Check Valve	EA	NO BID
230	Ground clamp, 1 1/2"	EA	NO BID
Storm Sewer Items			
231	Manhole Frame & Solid Lid, 4", R-1647-B	EA	NO BID
232	Manhole Frame & Solid Lid, 7", R-1772-B	EA	NO BID
233	Manhole Frame & Solid Lid, 9", R-1713-B	EA	NO BID
234	Combination Inlet Frame, Grate, & Curb Box, R-3015-R	EA	NO BID
235	Beehive Grate, R-4340-B	EA	NO BID
236	Beehive Grate, R-4341-A	EA	NO BID
237	Beehive Grate, R-4342	EA	NO BID
238	Solid Cover R-1712	EA	NO BID
239	Open Cover R-2502, Type D	EA	NO BID
240	Curb Box - R-3015	EA	NO BID
241	Curb Frame R-3015	EA	NO BID
242	Grate - R-3015	EA	NO BID
243	Inlet Filter for IDOT Type 1 Frame	EA	NO BID
244	Inlet Filter for IDOT Type 8 Frame	EA	NO BID
245	Inlet Filter for IDOT Type 23 Frame	EA	NO BID
246	Concrete Adjusting Ring, 2"	EA	NO BID
247	Concrete Adjusting Ring, 3"	EA	NO BID
248	Concrete Adjusting Ring, 4"	EA	NO BID
249	Concrete Adjusting Ring, 6"	EA	NO BID
250	HDPE Adjusting Ring, 3/4" x 1-1/2"	EA	NO BID
251	Composite Adjusting Ring, 0.75"	EA	NO BID
252	Composite Adjusting Ring, 1"	EA	NO BID



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	NO BID
254	Composite Adjusting Ring, 1.5"	EA	NO BID
255	Composite Adjusting Ring, 1.75"	EA	NO BID
256	Composite Adjusting Ring, 2"	EA	NO BID
257	Composite Adjusting Ring, 2.25"	EA	NO BID
258	Composite Adjusting Ring, 2.5"	EA	NO BID
259	Composite Adjusting Ring, 4"	EA	NO BID
260	Composite Adjusting Ring, 6"	EA	NO BID
261	M-1 Structural Adhesive/Sealant	EA	NO BID
262	2' x 24" Catch Basin with Base	EA	NO BID
263	2' x 30" Catch Basin with Base	EA	NO BID
264	2' x 36" Catch Basin with Base	EA	NO BID
265	2' x 48" Catch Basin with Base	EA	NO BID
266	3' x 36" Catch Basin with Base	EA	NO BID
267	3' x 16" Barrell Section	EA	NO BID
268	3' x 24" Barrell Section	EA	NO BID
269	3' x 36" Barrell Section	EA	NO BID
270	3' x 48" Barrel Section	EA	NO BID
271	3' x 18" Cone Offset	EA	NO BID
272	3' Flat Top Eccentric Opening, Non-Tongue and groove	EA	NO BID
273	3' Flat Top Concentric Opening, Non-Tongue and groove	EA	NO BID
274	3' Flat Top Eccentric Opening, Tongue and Groove	EA	NO BID
275	3' Flat Top Concentric Opening, Tongue and groove	EA	NO BID
276	3' Diameter Base	EA	NO BID
277	4' Flat Top, 6" Thickness, Concentric Opening, Tongue and Groove	EA	NO BID
278	4' Flat Top, 6" Thickness Eccentric Opening Tongue and Groove	EA	NO BID
279	4' Flat Top, 6" Thickness, Concentric Opening, Non-Tongue and Groove	EA	NO BID
280	4' Flat Top, 6" Thickness Eccentric Opening Non-Tongue and Groove	EA	NO BID



**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	NO BID
282	4' Flat Top, 12" Thickness, Eccentric Tongue and Groove	EA	NO BID
283	4' Flat Top, 12" Thickness, Concentric Non-Tongue and groove	EA	NO BID
284	4' Flat Top, 12" Thickness, Eccentric Non-Tongue and groove	EA	NO BID
285	4' x 32" Manhole with Base	EA	NO BID
286	4' x 48" Barrel Section	EA	NO BID
287	4' Base	EA	NO BID
288	5' Flat Top, 6" Thickness, Concentric Opening, Tongue and Groove	EA	NO BID
289	5' Flat Top, 6" Thickness Eccentric Opening Tongue and Groove	EA	NO BID
290	5' Flat Top, 6" Thickness, Concentric Opening, Non-Tongue and Groove	EA	NO BID
291	5' Flat Top, 6" Thickness Eccentric Opening Non-Tongue and Groove	EA	NO BID
292	5' Flat Top, 12" Thickness, Concentric Tongue and Groove	EA	NO BID
293	5' Flat Top, 12" Thickness, Eccentric Tongue and Groove	EA	NO BID
294	5' Flat Top, 12" Thickness, Concentric Non-Tongue and groove	EA	NO BID
295	5' Flat Top, 12" Thickness, Eccentric Non-Tongue and groove	EA	NO BID
296	5' x 32" Manhole with Base	EA	NO BID
297	5' x 48" Barrel Section	EA	NO BID
298	5' Base	EA	NO BID
299	12" Diameter ADS N-12 (Water Tight Joints, 20' Sticks)	EA	\$ 118.18
300	15" Diameter ADS N-12 (Water Tight Joints, 20' Sticks)	EA	\$ 157.50
301	12" Diameter RCP	EA	NO BID
302	15" Diameter RCP	EA	NO BID
303	18" Diameter RCP	EA	NO BID
304	24" Diameter RCP	EA	NO BID
305	12" Diameter RCP Flared End Section	EA	NO BID



**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	NO BID
307	18" Diameter RCP Flared End Section w/Grate	EA	NO BID
308	24" Diameter RCP Flared End Section w/Grate	EA	NO BID
Sanitary Sewer Items			
309	Sanitary Manhole Chimney Seals	EA	\$153.40
310	4" SDR-26 PVC Pipe, 14'	EA	\$17.30 stick
311	6" SDR-26 PVC Pipe, 14'	EA	\$37.03 stick
312	8" SDR-26 PVC Pipe, 14'	EA	\$66.84 stick
313	10" SDR-26 PVC Pipe, 14'	EA	\$104.78 stick
314	12" SDR-26 PVC Pipe, 14'	EA	\$149.32 stick
315	15" SDR-26 PVC Pipe, 14'	EA	\$226.72 stick
316	18" SDR-26 PVC Pipe, 14'	EA	\$378.00 stick
Miscellaneous Items			
317	Krylon Industrial Quik-Mark Blue Marking Paint, 17 Oz	EA	NO BID
318	Krylon Industrial Quik-Mark Green Marking Paint, 17 Oz	EA	NO BID
319	Krylon Industrial Quik-Mark White Marking Paint, 17 Oz	EA	NO BID
320	Hydraulic Cement, 50 LB Pail	EA	\$40.47
321	Masonry Mortar Type M, 80lb Bag	EA	NO BID
322	Butyl Rubber Sealant Tape, 3/8"x3"x50'	Roll	NO BID
323	Butyl Rubber Sealant Tape, 3/8"x6"x50'	Roll	NO BID
324	Butyl Rubber Sealant Tape, 3/8"x9"x50'	Roll	NO BID
325	Butyl Rubber Sealant Tape, 3/8"x12"x50'	Roll	NO BID
326	Butyl Rubber Sealant, 3/8"x3.5"x16'	Roll	NO BID
327	Butyl Rubber Sealant, 3/4"x3/4"x16'	Roll	NO BID
328	Type II Barricade	EA	NO BID



(If an individual)

Signatures

Signature of Bidder _____

Business Address _____

(If a partnership)

Firm Name _____

Signed by _____

Business Address _____

Insert
Names and
Addresses of
All Partners

(If a corporation)

Corporate Name: FERGUSON ENTERPRISES

Signed By: [Signature] Ryan Kempf
President Branch Manager

Business Address: 1720 STATE STREET

President: N/A
Secretary: N/A
Treasurer: N/A

Attest: [Signature]
Secretary
Sobles



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.**

FERGUSON WATERWORKS
Company Name

1720. STATE STREET DEKALB IL 60115
Address

RYAN RAUPE
Name of Corporate or Company Official (print)

[Handwritten Signature]
Authorized Signature

Branch Manager
Title

Date 10/22/19

Phone 815-756-2800

Certification Regarding Debarment, Suspension and Other Responsibility Matters

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

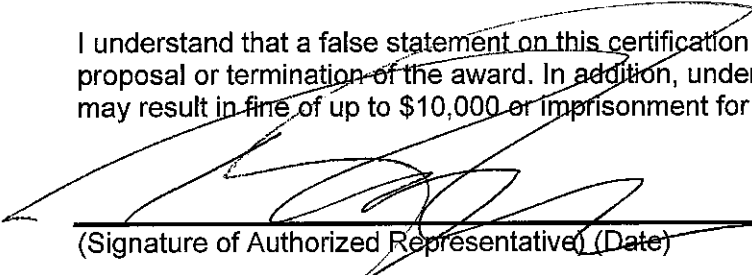
(a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;

(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.



(Signature of Authorized Representative) (Date)

01/29/19

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

EPA FORM 5700-49 (11-88)

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

I Ryan Raupp, do hereby certify that:
(Name)

1. I am Branch Manager of the Ferguson Waterworks
(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 Ferguson Waterworks

Signature [Signature]

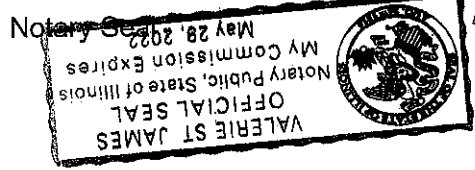
Title Branch Manager

Date 10/22/19

Corporate Seal (where appropriate)

On this 29th day of October 2019, before me appeared (Name) Ryan Raupp 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) Ferguson Waterworks to execute the affidavit and did so as his or her free act and deed.

Notary Public Valerie St James Commission Expires 5/29/2022



SPECIAL PROVISIONS

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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
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- SP 19 – METER COUPLING
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SPECIAL PROVISIONS

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Provision *Title*
Number

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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".

SP 16 - CURB BOX

All curb boxes shall be Minneapolis pattern with flared connections conforming to ANSI/AWWA C800 and shall be the following brands or approved equal: A.Y. McDonald 6104, Ford B22-444M, or Mueller H-15151. All curb boxes shall be 5'6" bury Minneapolis pattern with minimum 1-1/4" upper section equal to: A.Y. McDonald 5614 or Ford EM-55-56. (Accepted Brands: Mueller, Star Pipe Products, Sigma/Nappco, Bingham & Taylor or approved equal). All appropriate parts shall be lead free and be stamped "NL".

SP 17 - METER HORN

Meter horns shall be CH88-33 style as manufactured by The Fort Meter Box Company, Inc. or engineer approved equal. All brass shall conform to AWWA Standard C800 (ASTM B-62 and ASTM B-584, UNS NO C83600-85-5-5-5). Meter threads shall conform to AWWA C700. Copper shall conform to ASTM B-75 and shall consist of copper alloy #122.

SP 18 - BALL VALVE

Ford ball valves shall be manufactured in accordance with AWWA C800. The valve shall be designed to withstand water pressure up to 300 psi and maintain a watertight seal. The valve shall include a fluorocarbon-coated ball that is supported by molded Buna-N or EPDM rubber seats.

SP 19 - METER COUPLING

Meter couplings shall be C38-11-2-NL 5/8", C38-23-2-75-NL 3/4", or C38-44-2-625-NL 1" models as style as manufactured by The Fort Meter Box Company, Inc. or engineer approved equal. This item shall be bid per Package with 50 per package for the 5/8" size, 25 per package for the 3/4", and 15 per package for the 1" couplings. The 5/8" and 3/4" meter couplings shall have a 3/4" male thread size and the 1" meter couplings shall have a 1" male thread size. Couplings shall be Ford Meter Box no-lead brass products manufactured from UNS/CDA No. 89833 alloy.

SP 20 - TYPE K COPPER

Type K copper pipe shall be supplied in the diameter and length as specified. The type K copper shall have a color code of green and shall be in accordance with ASTM B 88 & AWWA publication M-22 entitled, "Water Service Lines And Meters".

SP 21 - WATER METER FLANGE KIT

The flange kit shall include two water meter flanges, two gaskets, four stainless steel nuts and bolts for the 1 1/2" and 2" flanges, eight stainless steel nuts and bolts for the 3" and sixteen stainless steel nuts and bolts for the 4" flanges. All parts and components manufactured 100% in USA. Parts shall be manufactured in accordance with the following specifications: Bronze casting C87850 ECOBRASS (.09% lead max), Round flanges conforming to ANSI B16.1, Gaskets ANSI/AWWA C111/A21.11, Bolts ANSI B18.2.1, Nuts SAE J995 Grade 5 with dimensional tolerances ANSI B182.2.2, & plating ASTM F1491. All appropriate parts shall be lead free and be stamped "NL".

SP 22 - MARKING PAINT

Marking paint provided shall be Krylon Industrial Quik-Mark (or approved equal) for inverted use,

water based, 20 ounces in size (net weight 17 oz), and of the color specified. The paint shall also be environmentally safe.

SP 23 – NEENAH FRAMES AND GRATES

Frames and lids shall be manufactured by NEENAH and the type specified. All manhole type B covers shall have "CITY OF AURORA" cast into the top in two (2) inch high lettering and shall be the concealed pick hole type. All type B covers shall have a machined surface and a watertight rubber gasket seal.

SP 24 - HYDRAULIC CEMENT

Hydraulic cement shall be Speccrete W-10 Waterstopper Plug Cement or an engineer approved equal. The compressive strength shall be a minimum 4,200 P.S.I. after 28 days per ASTM C-109. The hydraulic cement shall have a final set time of 3-5 minutes per CRD C-621. The requested material shall come in a 50 pound pail. The cost supplied shall be for each 50 pound pail of hydraulic cement.

SP 25 – STORM STRUCTURES

New storm structures shall be constructed of pre-cast reinforced concrete in accordance with the Standard Specifications for Water and Sewer Main Construction in Illinois.

SP 26 – TYPE II BARRICADE

All type II barricades shall be in conformance with the Illinois Department of Transportation's "Standard Specifications For Road and Bridge Construction" (current edition) and be equipped with a yellow light that is battery operated.

SP 27 – GROUND CLAMP

Ground clamps shall be Burndy C11N model or engineer approved equal. The ground clamp shall be cast bronze for cable to water pipe or copper tube connection using a 10 – 2 AWG. It shall connect to a ½" to 1" water pipe with a torque of 50 of-in.

SP 28 – BUTYL MASTIC SEALANT

Butyl Mastic Sealant shall be NPC-Bidco C-56 Trelleborg or engineer approved equal. Each roll of Butyl Mastic Sealant shall be thickness, width and length as specified in the individual pay items. All approved equals shall meet or exceed the following:

- Federal Specifications SS-S-210 A "Sealing Compound, Preformed Plastic for Pipe Joints", Type 1, Rope Form
- AASHTO Designation M-198 75 I, Type B, Flexible Plastic Gasket (Bitumin)
- ASTM Designation C-990-91.

SP 29 – ADS PIPE

Pipe shall consist of N-12 Dual Wall WT IB HDPE Pipe as manufactured by Advanced Drainage Systems (ADS) or approved equal. The pipe supplied shall utilize water tight joints meeting ASTM D3212. The pipe shall be joined using a bell & spigot joint meeting AASHTO M252 for 4-10 inch diameter pipe, AASHTO M294 for 12-60 inch diameter pipe, and ASTM F2306 for 12-60 inch diameter pipe. Gaskets shall be installed by the pipe manufacturer and covered with a removable,

protective wrap to ensure the gasket is free from debris. Material for pipe and fitting production shall be high-density polyethylene conforming with the minimum requirements of cell classification 424420C for 4-10 diameters, and 435400C for 12-60 inch diameters, as defined and described in the latest version of ASTM D3350, except that carbon black content shall not exceed 4%.

SP 30 – COMPOSITE ADJUSTMENT RINGS

The acceptable manufacturer shall be PRO-RING by Cretex Specialty Products or an approved equal. The grade adjustment rings shall be manufactured from ARPRO Expanded Polypropylene, (EPP), black. 5000 series meeting ASTM D3575 and ASTM D48-1913; B6D7G4L3M₂4S2T₁7W7. The rings shall be manufactured using a high compression molding process to produce a finished density of 120 g/l ((7.5pcf). "Grade" adjustment rings may contain either an upper or lower keyway (tongue and groove) for vertical alignment and/or an adhesive trench on the underside with a flat top. The grade adjustment rings shall be capable of supporting the minimum requirements of AASHTO M-306, H-25 and HS-25, be UV stable and be resistant to chemicals and corrosion commonly associated with the sanitary and storm sewer environments.

Sealant shall be Cretex 28 oz. adhesive sealant in white or approved equal and shall be paid for each tube. The M-1 Structural Adhesive/Sealant or equal meeting the following specifications shall be used to set the rings as required in the manufacturers specifications:

- ASTM C-920, Type S, Grade NS, Class 25, Uses NT, T, M, G, A and O
- Federal Specification TT-S-00239-C Type II, Class A
- Corps of Engineers CRD-C-541, Type II, Class A
- Canadian Standards Board CA 19, 13-M82
- AAMA 802.3-08 Type II, AAMA 803.3-08 Type I and AAMA 805.2-08 Group C

SP 31 – T-BOLTS AND NUTS

All T-Bolts and Nuts shall be manufactured per ANSI/AWWA C111/A21.11. The acceptable manufacturer shall be Active Waterworks Industries or an approved equal. T-Bolts shall be stainless steel grade 304 and nuts shall be stainless steel grade 316. The size shall be ¾" x 3.5". The cost supplied shall be per each case of 125 T-Head Bolts and Nuts.

SP 32 – INLET FILTERS

All inlet filters shall be Flex Storm Catch-it models as manufactured by Advanced Drainage Systems or an approved equal. The models provided shall fit inside the IDOT frame types listed.

SP 33 – CHIMNEY SEALS

All chimney seals shall be bandless and be Adaptor-Seal, Infi-Shield, CanUSA (wrapid seal), Flexrib or approved equal external chimney seal.

SP 34 – WATER SERVICE COUPLINGS

All water service repair couplings shall be the model and manufacturer listed in the attached table below or an engineer approved equal. All connections to copper pipes shall utilize a flared fitting.

Water Service Coupling Models		
Part	Ford Meter Co.	A.Y. McDonald Mfg. Co.
3/4" Flare Copper to 3/4" Flare Copper Coupling	Q22-33-NL	74758 3/4"
3/4" Flare Copper to 1" Flare Copper Coupling	Q22-34-NL	74758 3/4"x1"
1" Flare Copper to 1" Flare Copper Coupling	Q22-44-NL	74758 1"
5/8" Double Extra Strong Lead (XXS) or 3/4" Strong Lead (S) to 3/4" Flare Copper Lead-Pack Coupling	Q12-33-Q32-23-NL	74758C-68 3/4"x5/8", 74758C-66 3/4"
3/4" XS to 3/4" Flare Copper Lead-Pack Coupling	Q22-33-NL	74758C-67 3/4"
3/4" XXS to 3/4" Flare Copper Lead-Pack Coupling	Q32-33-NL	74758C-68 3/4"
5/8" XXS or 3/4" S to 1" Flare Copper Lead-Pack Coupling	Q12-34-Q32-24-NL	74758C-68 1"x5/8", 74758C-66 1"x3/4"
3/4" XS to 1" Flare Copper Lead-Pack Coupling	Q22-34-NL	74758C-67 1"x3/4"
1" S to 1" Flare Copper Lead-Pack Coupling	Q12-44-NL	74758C-66 1"
1" XS to 1" Flare Copper Lead-Pack Coupling	Q22-44-NL	74758C-67 1"
1" XXS to 1" Flare Copper Lead-Pack Coupling	Q32-44-NL	74758C-68 1"