
OFFICIAL BID PACKAGE

Pipe & Pipe Fittings

Bid Opening: Wednesday, October 2, 2013

The City of Canton Water Department

Name of Bidder: _____

LEGAL NOTICE

Ordinance 05-2013

The Director of Public Service of the City of Canton, Ohio will accept sealed bids until 2:00PM local time on **Wednesday, October 2, 2013**, for the purpose of securing bids for:

PIPE & PIPE FITTINGS

Submit bid according to the specifications and bid sheets shown on the Purchasing Department website at (<http://cantonohio.gov/purchasing/?pg=bids>).

Submit all bids to the City of Canton Purchasing Department, 218 Cleveland Avenue SW, Purchasing Department/ Sixth Floor, Canton, Ohio 44702 before 2:00 p.m. on the day of the bid opening. **THE CITY WILL DISQUALIFY ANY BID NOT RECEIVED ON OR BEFORE 2:00 PM ON Wednesday, October 2, 2013.** The Sixth Floor Conference Room of Canton City Hall is the location for the Bid Opening. Contact Randy Dublikar at (330) 438-4185 or randall.dublikar@cantonohio.gov if you have any questions.

Each bid must contain the full name of every person or company participating in the bid. **An original CERTIFIED CHECK, CASHIER'S CHECK or SURETY BOND must accompany the bid.** Draw this check or bond from a solvent bank or bonding company satisfactory to the Director of Public Service as a guarantee the contract and its performance are properly secured if the bid is accepted.

You the Bidder shall verify the CERTIFIED CHECK, CASHIER'S CHECK or BID BOND for the amount of **FIVE HUNDRED (\$500.00) DOLLARS.** PLEASE NOTE. THE CITY OF CANTON WILL ONLY ACCEPT ORIGINAL CHECKS AND BID BONDS. THEREFORE, IF ANY COMPANY AND/OR BIDDER SUBMITS A COPY (INCLUDING FAXED COPIES) OF HIS/HER \$500.00 SECURITY, THE CITY WILL DISQUALIFY THE BID.

The Director of Public Service reserves the right to waive any technical defects in any bid bond submitted so long as the bond is in substantial compliance with State law. Any bidder may withdraw his bid, by written request, at any time prior to the hour set for the bid opening. Please be advised, the City of Canton may impose a \$500.00 penalty to any bidder that withdraws a bid after the bid opening and prior to a contract award(s).

Should any bid be rejected, such check or bond will be returned to the bidder or bidders after the execution of the contract.

The Board of Control reserves the right to reject any or all bids and to accept the bid(s) deemed most beneficial to the City of Canton. All companies must submit their Federal ID Number.

By order of the Director of Public Service: William Bartos
Published in the Canton Repository: September 17 and September 24, 2013

ATTENTION

PLEASE BE ADVISED THAT THIS WILL BE A ONE-YEAR SUPPLY CONTRACT WITH THE OPTION OF A 30 DAY EXTENSION AT THE SOLE DISCRETION OF THE CITY OF CANTON.

EACH BIDDER MUST SUBMIT AN "AFFIRMATIVE ACTION PLAN" AND/OR "EEO POLICY." BIDDER MUST READ ALL EEO AND MBE REQUIREMENTS. ENCLOSE THE COMPANY EEO POLICY. IF THE COMPANY DOES NOT HAVE A FORMAL EEO POLICY, PLEASE COMPLETE THE EEO POLICY STATEMENT INCLUDED IN THIS BID PACKAGE.

The undersigned agrees to supply Pipe and Pipe Fittings to the City of Canton Water Department per the attached specifications. Prices shall be that as quoted in the bid and in accordance with the terms and conditions of the contract.

EACH BIDDER MUST SUBMIT THEIR FEDERAL ID NUMBER FOR IRS PURPOSES.

The bidder must print this entire package and submit in its entirety. We request that the bidder submit three (3) copies.

PLEASE ACKNOWLEDGE THAT YOU HAVE READ THE ABOVE REQUIREMENTS BY SIGNING BELOW.

DATE

SIGNATURE

**Pipe & Pipe Fittings
City of Canton Water Department**

SPECIFICATIONS

1.0 SCOPE AND CLASSIFICATION

- 1.1 **Scope:** The City of Canton, Ohio Water Department is seeking bids for a one-year, as-needed, supply contract for pipe and pipe fittings.
- 1.2 **Classification:** The successful bidder will furnish to the City of Canton, Ohio Water Department the materials in the estimated quantities as stated (more or less), F.O.B. per truck load anywhere in the Canton area and as per these specifications and per the information contained on the proposal pages.

2.0 APPLICABLE PUBLICATIONS AND STANDARDS

- 2.1 All service fittings shall be manufactured in accordance with the latest revision of the Safe Water Drinking Act.
- 2.2 Please refer to the requirements section and proposal pages for specific requirements and standards for individual items.

3.0 REQUIREMENTS

3.1 General Requirements

- 3.1.1 **Price:** All bidders are requested to bid fixed, firm pricing for the duration of the contract in the spaces provided from pages 7 to 56. Bids subject to an escalator clause **WILL NOT BE CONSIDERED.**
- 3.1.2 This will be a one-year supply contract from the date the contract is executed. The contract can be extended for one additional one-month period at the sole discretion of the City of Canton.
- 3.1.2 **Quality:** All bids must meet the minimum specifications listed below.
- 3.1.3 **Quantity:** The materials will be requested as needed. Specific locations will be identified throughout the year.

3.2 Specification Requirements

- 3.2.1 See the proposal pages (pages 7 through 56) for the list of requested materials and the necessary requirements for each individual item.
- 3.2.2 Brass goods furnished under this contract shall be new and unused.

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City of Canton Water Department**

- 3.2.3 Except where as noted, all fittings shall conform to ANSI AWWA Standard C800, latest revision.
- 3.2.3 Any metal part of a fitting in contact with potable water must be made of a “Lead Free” brass, defined for these specifications and this contract as Sebiloy II (Envirobrass) ASTM B584 (UNS Alloy C89520) or Federalloy UNS Alloy C89833. Residual lead levels of the metal shall not exceed .25% by weight as cast or extruded. Coated or washed metals are not acceptable if their residual lead levels exceed .25% by weight prior to the coating or washing process.
- 3.2.4 Metal components that do not contact the water shall comply with the requirements of ASTM B62 or ASTM B584 copper alloy C83600 and AWWA C-800.
- 3.2.5 All fittings shall be stamped or embossed with a mark or name indicating that the product is manufactured from the low-lead alloy as specified above.

4.0 SAMPLING, INSPECTION, AND TEST PROCEDURES

- 4.1 All purchases made under this agreement will be to the satisfaction of the City of Canton, Ohio Water Department.

5.0 DELIVERY AND INVOICING

- 5.1 The successful bidder will furnish to the City of Canton, Ohio Water Department the materials in the estimated quantities as stated (more or less), F.O.B. per truck load anywhere in the Canton area and as per the specifications.
- 5.2 Invoices shall show the City’s purchase order number, the item number, the quantity, a brief description of the item, the unit price and the total amount. Invoices shall be submitted to the address on the purchase order.

6.0 NOTES

- 6.1 Proposal Page Instructions
 - 6.1.1 Bidder shall provide unit pricing for the various items listed in the proposal pages (pages 7 through 56). Be sure to bid based on the unit of measure specified.
 - 6.1.2 We will award only one (1) manufacturer in each section and all items in each section must be bid.
 - 6.1.3 We will award bids from manufacturers only for ductile iron pipe and ductile

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iron fittings. Bids submitted by distributors will be rejected for ductile iron pipe and ductile iron fittings.

- 6.2 Contracts will be awarded in accordance to Section 105.09 of the City of Canton Codified Ordinances using the standard of lowest and best bidder.

**Pipe & Pipe Fittings
City of Canton Water Department**

PROPOSAL PAGES

DUCTILE CAST IRON PIPE 4"-12" - PUSH ON JOINTS, CEMENT LINED, AMERICAN STANDARDS ASSOCIATION THICKNESS CLASS 53, MANUFACTURING STANDARDS ASA A21.51 AND ASA A21.4 (WITH ACCESSORIES) F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Per Foot</u>
1	4000 ft. - 4" pipe	\$ _____
2	4000 ft. - 6" pipe	\$ _____
3	4000 ft. - 8" pipe	\$ _____
4	500 ft. - 10" pipe	\$ _____
5	4000 ft. - 12" pipe	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

DUCTILE CAST IRON PIPE 16"-36" - PUSH ON JOINTS, CEMENT LINED, AMERICAN STANDARDS ASSOCIATION THICKNESS, MANUFACTURING STANDARDS ASA A21.51 AND ASA A21.4 (WITH ACCESSORIES) F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Per Foot</u>
1	500 ft. - 16" Class 54 pipe	\$ _____
2	500 ft. - 18" Class 54 pipe	\$ _____
3	500 ft. - 20" Class 54 pipe	\$ _____
4	500 ft. - 24" Class 54 pipe	\$ _____
5	500 ft. - 30" Class 54 pipe	\$ _____
6	500 ft. - 36" Class 54 pipe	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

**Pipe & Pipe Fittings
City of Canton Water Department**

MECHANICAL JOINT DUCTILE IRON PIPE 4"-12" - AMERICAN STANDARDS ASSOCIATION THICKNESS CLASS 53, MANUFACTURING STANDARDS ASA A21.51 AND ASA A21.4 (WITH ACCESSORIES) F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Per Foot</u>
1	750 ft. - 4" pipe	\$ _____
2	750 ft. - 6" pipe	\$ _____
3	750 ft. - 8" pipe	\$ _____
4	750 ft. - 12" pipe	\$ _____

Terms _____
Manufacturer's Name _____
Delivery _____
Remarks _____

MECHANICAL JOINT DUCTILE IRON PIPE 16"-36" - AMERICAN STANDARDS ASSOCIATION THICKNESS CLASS 53, MANUFACTURING STANDARDS ASA A21.51 AND ASA A21.4 (WITH ACCESSORIES) F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Per Foot</u>
1	750 ft. - 16" pipe	\$ _____
2	750 ft. - 20" pipe	\$ _____
3	750 ft. - 24" pipe	\$ _____
4	750 ft. - 30" pipe	\$ _____
5	750 ft. - 36" pipe	\$ _____

Terms _____
Manufacturer's Name _____
Delivery _____
Remarks _____

**Pipe & Pipe Fittings
City of Canton Water Department**

**PVC WATER DISTRIBUTION PIPE - AWWA C909 DR-14 POLY(VINYL CHLORIDE)
F.O.B. CANTON, OHIO**

This specification covers the requirements for AWWA C909 Poly (Vinyl Chloride) PVC water distribution pipes with integral bell and spigot gasketed joints in Cast Iron Outside Diameter (CIOD) nominal sizes 4", 6", 8", 12" and 16". The pipes must meet the requirements of American Water Works Association standard ANSI/AWWA C-909 and must be 150 or 200 psi rated.

The pipe must be manufactured from virgin PVC compound meeting the requirements of cell class 12454-B as defined by ASTM D-1784, Standard Specification for Rigid Poly (Vinyl Chloride)PVC Compounds. These compounds must have a hydrostatic design basis rating of 7,100 psi for water at 73.4 degree F. The pipe must be certified by NFS International to ANSI/NSF Standard 61 and must meet all quality assurance testing requirements as specified in ANSI/AWWA C-909.

The pipes must be manufactured to the Cast Iron Outside Diameter nominal size series for use as a pressure conduit. The DR-14 wall thickness class pipes must be rated as Pressure Class 150 or 200. The pipe must utilize a locked inintegral gasket joint design meeting the requirements of ASTM D-339, Standard Specification for Joints for Plastic Pressure Pipes Using Flexible Elastomeric Seals. The gaskets must be reinforced with a steel band and conform to the requirements of ASTM F-477, Standard Specification for Elastomeric Seals (Gaskets) for Joining Plastic Pipes. Markings shall be as specified in ANSI/AWWA C-909.

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Per Foot</u>
1	4" PVC pipe (C900) - 150 psi rated	\$ _____
2	6" PVC pipe - 150 psi rated	\$ _____
3	8" PVC pipe - 150 psi rated	\$ _____
4	12" PVC pipe - 150 psi rated	\$ _____
5	16" PVC pipe - 165 psi rated	\$ _____
6	4" PVC pipe - 200 psi rated	\$ _____
7	6" PVC pipe - 200 psi rated	\$ _____
8	8" PVC pipe - 200 psi rated	\$ _____
9	12" PVC pipe - 200 psi rated	\$ _____
10	16" PVC pipe - 200 psi rated	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

Pipe & Pipe Fittings
City of Canton Water Department

REDUCERS - COMPACT DUCTILE MECHANICAL JOINT ENAMEL LINED HALF THICKNESS - CLASS 250 W/ACCESSORIES (FLANGES, RUBBERS, NUTS, BOLTS PACKED AS ONE UNIT) F.O.B. CANTON

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Clow or Equal</u>	<u>Each</u>
1	10 - 6 x 4 red.-full (sp to sp)	C153	\$ _____
2	5 - 8 x 6 reducer (sp to sp)	C153	\$ _____
3	5 - 12 x 8 reducer (sp to sp)	C153	\$ _____
4	5 - 12 x 10 reducer (sp to sp)	C153	\$ _____
5	5 - 6 x 8 reducer (sp to lep)	C153	\$ _____
6	5 - 8 x 6 reducer (lep to sp)	C153	\$ _____
7	5 - 8 x 6 reducer (sp-leb)	C153	\$ _____
8	5 - 6 x 4 reducer (seb-lep)	C110	\$ _____
9	5 - 6 x 4 reducer (leb-sep)	C110	\$ _____
10	5 - 6 x 4 reducer (b to b)	C110	\$ _____
11	5 - 8 x 6 reducer (b to b)	C110	\$ _____
12	10-6 x 4 reducer (sp to sp)	C110	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

REDUCERS - MECHANICAL JOINT ENAMEL LINED HALF THICKNESS - CLASS 250 W/ACCESSORIES (FLANGES, RUBBERS, NUTS, BOLTS PACKED AS ONE UNIT) F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Clow or Equal</u>	<u>Each</u>
1	5 - 12 x 8 reducer (b to b)		\$ _____
2	5 - 12 x 8 reducer (leb-sep)		\$ _____
3	5 - 12 x 6 reducer (b to b)		\$ _____
4	5 - 12 x 6 reducer (leb-sep)		\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

Pipe & Pipe Fittings
City of Canton Water Department

BENDS - MECHANICAL JOINT ENAMEL LINED HALF THICKNESS CLASS 350 - DUCTILE IRON-W/ACCESSORIES (FLANGES, RUBBERS, NUTS, BOLTS **PACKED AS ONE UNIT) F.O.B. CANTON**

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Clow or Equal Compact Ductile</u>	<u>Each</u>
1	20 - 4" 90 deg bend (b to b)	C153	\$ _____
2	20 - 6" 90 deg bend (b to b)	C153	\$ _____
3	20 - 8" 90 deg bend (b to b)	C153	\$ _____
4	20 - 12" 90 deg bend (b to b)	C153	\$ _____
5	20 - 4" 45 deg bend (b to b)	C153	\$ _____
6	20 - 6" 45 deg bend (b to b)	C153	\$ _____
7	20 - 8" 45 deg bend (b to b)	C153	\$ _____
8	20 - 12" 45 deg bend (b to b)	C153	\$ _____
9	20 - 4" 22-1/2 deg bend (b to b)	C153	\$ _____
10	20 - 6" 22-1/2 deg bend (b to b)	C153	\$ _____
11	20 - 8" 22-1/2 deg bend (b to b)	C153	\$ _____
12	20 - 12" 22-1/2 deg bend (b to b)	C153	\$ _____
13	20 - 4" 11-1/4 deg bend (b to b)	C153	\$ _____
14	20 - 6" 11-1/4 deg bend (b to b)	C153	\$ _____
15	20 - 8" 11-1/4 deg bend (b to b)	C153	\$ _____
16	20 - 12" 11-1/4 deg bend (b to b)	C153	\$ _____
17	20 - 6"x18" offset bend (b to b)	C110	\$ _____
18	20 - 6"x24" offset bend (b to b)	C110	\$ _____
19	20 - 4"x18" offset bend (b to b)	C110	\$ _____
20	20 - 4"x24" offset bend (b to b)	C110	\$ _____
21	20 - 8"x18" offset bend (b to b)	C110	\$ _____
22	20 - 8"x24" offset bend (b to b)	C110	\$ _____
23	20 - 12"x18" offset bend (b to b)	C110	\$ _____
24	20 - 12"x24" offset bend (b to b)	C110	\$ _____
25	6 - 6" x 12" offset bend (b to b)	C110	\$ _____
26	6 - 8" x 12" offset bend (b to b)	C110	\$ _____
27	6 - 12" x 12" offset bend (b to b)	C110	\$ _____
28	20 - 490 deg bend (b to Sp)	C153	\$ _____
29	20 - 6" 90 deg bend (b to Sp)	C153	\$ _____
30	20 - 8" 90 deg bend (b to Sp)	C153	\$ _____
31	20 - 12" 90 deg bend (b to Sp)	C153	\$ _____
32	20 - 4" 45 deg bend (b to Sp)	C153	\$ _____
33	20 - 6" 45 deg bend (b to Sp)	C153	\$ _____

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34	20 - 8" 45 deg bend (b to Sp)	C153	\$ _____
35	20 - 12" 45 deg bend (b to Sp)	C153	\$ _____
36	20 - 4" 22-1/2 deg bend (b to Sp)	C153	\$ _____
37	20 - 6" 22-1/2 deg bend (b to Sp)	C153	\$ _____
38	20 - 8" 22-1/2 deg bend (b to Sp)	C153	\$ _____
39	20 - 12" 22-1/2 deg bend (b to Sp)	C153	\$ _____
40	20 - 4" 11-1/4 deg bend (b to Sp)	C153	\$ _____
41	20 - 6" 11-1/4 deg bend (b to Sp)	C153	\$ _____
42	20 - 8" 11-1/4 deg bend (b to Sp)	C153	\$ _____
43	20 - 12" 11-1/4 deg bend (b to Sp)	C153	\$ _____
44	5 - 16" 22-1/2 deg bend (b to b)	C153	\$ _____
45	5 - 16" 45 deg bend (b to b)	C153	\$ _____
46	5 - 16" 90 deg bend (b to b)	C153	\$ _____
47	5 - 20" 22-1/2 deg bend (b to b)	C153	\$ _____
48	5 - 20" 45 deg bend (b to b)	C153	\$ _____
49	5 - 20" 90 deg bend (b to b)	C153	\$ _____
50	5 - 24" 22-1/2 deg bend (b to b)	C153	\$ _____
51	5 - 24" 45 deg bend (b to b)	C153	\$ _____
52	5 - 24" 90 deg bend (b to b)	C153	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

ANCHOR TEES - MECHANICAL JOINT CLOW C-153 OR EQUAL - DUCTILE IRON - CLASS 350 W/ACCESSORIES (FLANGES, RUBBERS, NUTS, BOLTS PACKED AS ONE UNIT) - F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	20 - 6 x 6 anchor tee	\$ _____
2	20 - 8 x 6 anchor tee	\$ _____
3	20 - 8 x 8 anchor tee	\$ _____
4	20 - 12 x 6 anchor tee	\$ _____
5	20 - 12 x 8 anchor tee	\$ _____
6	10 - 16 x 6 anchor tee	\$ _____
7	8 - 20 x 6 anchor tee	\$ _____
8	8 - 24 x 6 anchor tee	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

**Pipe & Pipe Fittings
City of Canton Water Department**

SMITH BLAIR COUPLING #441 - MUST HAVE #316 STAINLESS STEEL NUTS & BOLTS. F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	10- 3" coupling 441-000-396-000	\$ _____
2	40- 4" coupling 441-000-510-000	\$ _____
3	85 - 6" coupling 441-000-722-000	\$ _____
4	60 - 8" coupling 441-000-945-900	\$ _____
5	10 -10" coupling 441-001-140-900	\$ _____
6	10 - 12" coupling 441-001-350-900	\$ _____
7	10 - 16" coupling 441-000-1780-931	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

SMITH BLAIR COUPLING #442 - MUST HAVE 431 STAINLESS STEEL NUTS & BOLTS. F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	40- 4" coupling 442-00000-510-431	\$ _____
2	85 - 6" coupling 442-00000-722-431	\$ _____
3	60 - 8" coupling 442-00000-945-431	\$ _____
4	10 -10" coupling 442-0000-1160-431	\$ _____
5	10 - 12" coupling 442-0000-1350-431	\$ _____
6	10 - 14" coupling 442-0000-1550-431	\$ _____
7	10 - 16" coupling 442-0000-1780-431	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

**Pipe & Pipe Fittings
City of Canton Water Department**

BELL JOINT LEAK CLAMPS 4" – 12" - SMITH BLAIR STYLE 274 – MUST HAVE #316 STAINLESS STEEL NUTS & BOLTS F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	10- 4" bell joint leak clamp	\$ _____
2	10 - 6" bell joint leak clamp	\$ _____
3	10 - 8" bell joint leak clamp	\$ _____
4	10 -10" bell joint leak clamp	\$ _____
5	10 - 12" bell joint leak clamp	\$ _____

Terms _____
Manufacturer's Name _____
Delivery _____
Remarks _____

BELL JOINT LEAK CLAMPS 16" – 24" - SMITH BLAIR STYLE 274 – MUST HAVE #316 STAINLESS STEEL NUTS & BOLTS. F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	10- 16" bell joint leak clamp	\$ _____
2	10 - 18" bell joint leak clamp	\$ _____
3	10 - 20" bell joint leak clamp	\$ _____
4	10 -24" bell joint leak clamp	\$ _____

Terms _____
Manufacturer's Name _____
Delivery _____
Remarks _____

**Pipe & Pipe Fittings
City of Canton Water Department**

**TPS HYMAX COUPLINGS - MUST HAVE STAINLESS STEEL NUT & BOLTS
F.O.B. CANTON, OHIO**

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Part Number</u>	<u>Overall Range</u>	<u>Each</u>
1	10 1.5coupling	2000-0213-260	1.61-2.13"	\$ _____
2	10 2coupling	2000-0303-260	2.10-3.03"	\$ _____
3	10 3coupling	2000-0433-260	3.46-4.33"	\$ _____
4	10 4coupling	2000-0511-260	4.25-5.11"	\$ _____
5	10 4o.s. coupling	2000-0561-260	4.75-5.61"	\$ _____
6	10 6coupling	2000-0768-260	6.42-7.68"	\$ _____
7	10 8coupling	2000-0984-260	8.54-9.84"	\$ _____
8	10 10coupling	2000-1200-260	10.70-12.00"	\$ _____
9	10 10o.s. coupling	2000-1226-260	10.96-12.26"	\$ _____
10	10 12coupling	2000-1366-260	12.40-13.66"	\$ _____
11	10 12s.s. coupling	2000-1441-260	13.15-14.41"	\$ _____
12	10 16coupling	2000-1920-260	17.10-19.20"	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

**Pipe & Pipe Fittings
City of Canton Water Department**

PLUGS W/ACCESSORIES (FLANGES, RUBBERS, NUTS, BOLTS PACKED AS ONE UNIT) - F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Clow or Equal</u>	<u>Each</u>
1	2 - 4" mechanical plug w/2" outlet	F-1054	\$ _____
2	4 - 6" mechanical plug w/2" outlet	F-1054	\$ _____
3	4 - 8" mechanical plug w/2" outlet	F-1054	\$ _____
4	2 - 12" mechanical plug w/2" outlet	F-1054	\$ _____
5	2 - 4" mechanical plug	F-1035	\$ _____
6	3 - 6" mechanical plug	F-1035	\$ _____
7	3 - 8" mechanical plug	F-1035	\$ _____
8	2 - 12" mechanical plug	F-1035	\$ _____
9	4 - 4" restrained plug solid w/2" tap	F-1159	\$ _____
10	6 - 6" restrained plug solid w/2" tap	F-1159	\$ _____
11	6 - 8" restrained plug solid w/2" tap	F-1159	\$ _____
12	4 - 12" restrained plug solid w/2" tap	F-1159	\$ _____
13	4 - 4" restrained plug solid	F-1159	\$ _____
14	6 - 6" restrained plug solid	F-1159	\$ _____
15	6 - 8" restrained plug solid	F-1159	\$ _____
16	4 - 12" restrained plug solid	F-1159	\$ _____
17	6 - 16" mechanical plug	F-1035	\$ _____
18	6 - 20" mechanical plug	F-1035	\$ _____
19	6 - 24" mechanical plug	F-1035	\$ _____
20	6 - 16" mechanical plug w/2" outlet	F-1054	\$ _____
21	6 - 20" mechanical plug w/2" outlet	F-1054	\$ _____
22	6 - 24" mechanical plug w/2" outlet	F-1054	\$ _____

Terms _____

Manufacturer's Name _____

Delivery _____

Remarks _____

**Pipe & Pipe Fittings
City of Canton Water Department**

SLEEVES - SOLID – DUCTILE IRON CL 53 W/ACCESSORIES (FLANGES, RUBBERS, NUTS, BOLTS PACKED AS ONE UNIT) – F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Clow or Equal</u>	<u>Each</u>
1	10 - 4" solid sleeve 12" length Class 53 Ductile	FI014	\$ _____
2	20 - 6" solid sleeve 12" length Class 53 Ductile	FI014	\$ _____
3	10 - 8" solid sleeve 12" length Class 53 Ductile	FI014	\$ _____
4	10 - 10" solid sleeve 12" length Class 53 Ductile	FI014	\$ _____
5	10 - 12" solid sleeve 12" length Class 53 Ductile	FI014	\$ _____
6	5 - 16" solid sleeve 15" length Class 53 Ductile	FI014	\$ _____
7	6 - 20" solid sleeve 15" length Class 53 Ductile	FI014	\$ _____
8	6 - 24" solid sleeve 15" length Class 53 Ductile	FI014	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

SLEEVES - DUO - DUCTILE IRON CLASS 53 W/ACCESSORIES (FLANGES, RUBBERS, NUTS, BOLTS) – F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Clow or Equal</u>	<u>Each</u>
1	10 - 4" duo sleeve Class 53 Ductile	F-1208	\$ _____
2	10 - 6" duo sleeve Class 53 Ductile	F-1208	\$ _____
3	10 - 8" duo sleeve Class 53 Ductile	F-1208	\$ _____
4	1 - 10" duo sleeve Class 53 Ductile	F-1208	\$ _____
5	5 - 12" duo sleeve Class 53 Ductile	F-1208	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

**Pipe & Pipe Fittings
City of Canton Water Department**

SLEEVES - CUTTING IN - DUCTILE IRON CLASS 53 W/ACCESSORIES (FLANGES, RUBBERS, NUTS, BOLTS **PACKED AS ONE UNIT) – MUST HAVE TEST PLUG IN SLEEVE BODY – F.O.B. CANTON, OHIO**

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Clow or Equal</u>	<u>Each</u>
1	10 - 4" cutting in sleeve	F1220	\$ _____
2	10 - 6" cutting in sleeve	F1220	\$ _____
3	10 - 8" cutting in sleeve	F1220	\$ _____
4	10 - 10" cutting in sleeve	F1220	\$ _____
5	10 - 12" cutting in sleeve	F1220	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

**ANCHOR COUPLINGS - W/ROTO RING FLANGED - CLOW C-153 OR EQUAL
F.O.B.CANTON, OHIO**

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	1 - 4" anchor coupling	\$ _____
2	30 - 6" anchor coupling	\$ _____
3	25 - 8" anchor coupling	\$ _____
4	12 - 12" anchor coupling	\$ _____
5	12 - 16" anchor coupling	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

**Pipe & Pipe Fittings
City of Canton Water Department**

**MECHANICAL JOINT Y FITTINGS 4" – 12" - COMPACT DUCTILE IRON MJ X MJ W/ACCESSORIES (FLANGES, RUBBERS, NUTS, BOLTS PACKED AS ONE UNIT)
CLOW C-153 OR EQUAL - F.O.B. CANTON, OHIO**

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	10 – 4" mech joint Y fitting	\$ _____
2	10 – 6" mech joint Y fitting	\$ _____
3	10 – 8" mech joint Y fitting	\$ _____
4	10 – 10" mech joint Y fitting	\$ _____
5	10 – 12" mech joint Y fitting	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

**MECHANICAL JOINT Y FITTINGS 16" – 24" - COMPACT DUCTILE IRON MJ X MJ W/ACCESSORIES (FLANGES, RUBBERS, NUTS, BOLTS PACKED AS ONE UNIT)
CLOW C-153 OR EQUAL - F.O.B. CANTON, OHIO**

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	10 – 16" mech joint Y fitting	\$ _____
2	10 – 20" mech joint Y fitting	\$ _____
3	10 – 24" mech joint Y fitting	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

Pipe & Pipe Fittings
City of Canton Water Department

**TEES - MECHANICAL JOINT ENAMEL LINED HALF THICKNESS - CLASS 350
 DUCTILE IRON W/ACCESSORIES (FLANGES, RUBBERS, NUTS, BOLTS **PACKED AS
 ONE UNIT**) CLOW C-153 OR EQUAL - F.O.B. CANTON, OHIO**

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	10 - 4 x 4 mechanical tee	\$ _____
2	10 - 6 x 4 mechanical tee	\$ _____
3	10 - 6 x 6 mechanical tee	\$ _____
4	10 - 8 x 4 mechanical tee	\$ _____
5	10 - 8 x 6 mechanical tee	\$ _____
6	10 - 8 x 8 mechanical tee	\$ _____
7	10 - 12 x 6 mechanical tee	\$ _____
8	10 - 12 x 8 mechanical tee	\$ _____
9	10 - 12 x 12 mechanical tee	\$ _____
10	5 - 16 x 6 mechanical tee	\$ _____
11	5 - 16 x 8 mechanical tee	\$ _____
12	5 - 16 x 12 mechanical tee	\$ _____
13	5 - 16 x 16 mechanical tee	\$ _____
14	5 - 20 x 6 mechanical tee	\$ _____
15	5 - 20 x 8 mechanical tee	\$ _____
16	5 - 20 x 12 mechanical tee	\$ _____
17	5 - 20 x 16 mechanical tee	\$ _____
18	5 - 20 x 20 mechanical tee	\$ _____
19	5 - 24 x 6 mechanical tee	\$ _____
20	5 - 24 x 8 mechanical tee	\$ _____
21	5 - 24 x 12 mechanical tee	\$ _____
22	5 - 24 x 16 mechanical tee	\$ _____
23	5 - 24 x 24 mechanical tee	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

**Pipe & Pipe Fittings
City of Canton Water Department**

CROSSES - MECHANICAL JOINT ENAMEL LINED HALF THICKNESS - CLASS 350 DUCTILE IRON W/ACCESSORIES (FLANGES, RUBBERS, NUTS, BOLTS **PACKED AS ONE UNIT**) CLOW C-153 OR EQUAL - COMPACT - F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	5 - 4 x 4 mechanical cross	\$ _____
2	5 - 6 x 6 mechanical cross	\$ _____
3	5 - 8 x 8 mechanical cross	\$ _____
4	5 - 10 x 10 mechanical cross	\$ _____
5	5 - 12 x 12 mechanical cross	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

VALVES 4" – 12"

F.O.B. CANTON, OHIO

The items covered by this specification shall meet all applicable AWWA C509 standards and the following specifications:

All valves shall be non-rising stem, iron body, resilient wedge disc.

The design of the thrust collar shall be such that the thrust collar is sealed from line pressure by means of an "O" ring seal.

All valves shall be furnished with a two (2) inch square operating nut, OPEN RIGHT.

All valves shall be furnished with mechanical joint end connections.

The stem shall be protected from external grit by a weather shield and an upper "O" ring. Stem shall be lubricated.

Gate coating shall have a minimum thickness of 10 mils.

Valve shall be tested at the rated working pressure of 250 psi with no leakage. Shell test of 500 psi shall be applied to body with valve in the open position with no leakage through the metal, stem seals or joints.

**Pipe & Pipe Fittings
City of Canton Water Department**

Valve must have traditional stuffing box.

All bolting material in the thrust collar and bonnet shall be #316 ss bolts.

All valves with accessories (flanges, rubbers, nuts, bolts **packed as one unit**).

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	15 - 4" mechanical gate valve	\$ _____
2	40 - 6" mechanical gate valve	\$ _____
3	30 - 8" mechanical gate valve	\$ _____
4	2 - 10" mechanical gate valve	\$ _____
5	15 - 12" mechanical gate valve	\$ _____

Terms _____
Manufacturer's Name _____
Delivery _____
Remarks _____

VALVES 16" – 24"

F.O.B. CANTON, OHIO

The items covered by this specification shall meet all applicable AWWA C509 standards and the following specifications:

All valves shall be non-rising stem, iron body, resilient wedge disc.

The design of the thrust collar shall be such that the thrust collar is sealed from line pressure by means of an "O" ring seal.

All valves shall be furnished with a two (2) inch square operating nut, OPEN RIGHT.

All valves shall be furnished with mechanical joint end connections.

The stem shall be protected from external grit by a weather shield and an upper "O" ring. Stem shall be lubricated.

Gate coating shall have a minimum thickness of 10 mils.

Valve shall be tested at the rated working pressure of 250 psi with no leakage. Shell test of 500

**Pipe & Pipe Fittings
City of Canton Water Department**

psi shall be applied to body with valve in the open position with no leakage through the metal, stem seals or joints.

Valve must have traditional stuffing box.

All bolting material in the thrust collar and bonnet shall be **#316** ss bolts

All valves with accessories (flanges, rubbers, nuts, bolts **packed as one unit**).

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	2 - 16" mechanical gate valve	\$ _____
2	2 - 18" mechanical gate valve	\$ _____
3	2 - 20" mechanical gate valve	\$ _____
4	2 - 24" mechanical gate valve	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

CUT IN VALVES - MUELLER 863 OR EQUAL - OPEN RIGHT - RESILIENT SEAL WITH #316 SS BONNET BOLTS - F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	10 - 4" cut in valve	\$ _____
2	15 - 6" cut in valve	\$ _____
3	10 - 8" cut in valve	\$ _____
4	5 - 12" cut in valve	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

**Pipe & Pipe Fittings
City of Canton Water Department**

BUTTERFLY VALVES 150B W/ACCESSORIES (FLANGES, RUBBERS, NUTS, BOLTS PACKED AS ONE UNIT) – F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	1 - 16" butterfly valve	\$ _____
2	1 - 18" butterfly valve	\$ _____
3	1 - 20" butterfly valve	\$ _____
4	1 - 24" butterfly valve	\$ _____
5	1 - 30" butterfly valve	\$ _____
6	1 - 36" butterfly valve	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

MECHANICAL JOINT CAPS W/ACCESSORIES (FLANGES, RUBBERS, NUTS, BOLTS PACKED AS ONE UNIT) – F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Clow or Equal</u>	<u>Each</u>
1	6 - 4" cap	F1040	\$ _____
2	6 - 6" cap	F1040	\$ _____
3	6 - 8" cap	F1040	\$ _____
4	4 - 12" cap	F1040	\$ _____
5	4 - 16" cap	F1040	\$ _____
6	4 - 20" cap	F1040	\$ _____
7	4 - 24" cap	F1040	\$ _____
8	4 - 4" cap w/2" tapped outlet	F1042	\$ _____
9	4 - 6" cap w/2" tapped outlet	F1042	\$ _____
10	4 - 8" cap w/2" tapped outlet	F1042	\$ _____
11	4 - 12" cap w/2" tapped outlet	F1042	\$ _____
12	4 - 16" cap w/2" tapped outlet	F1042	\$ _____
13	4 - 20" cap w/2" tapped outlet	F1042	\$ _____
14	4 - 24" cap w/2" tapped outlet	F1042	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

**Pipe & Pipe Fittings
City of Canton Water Department**

TAPPING SLEEVE

F.O.B. CANTON, OHIO

The Fast Tapping Sleeve will be constructed of Grade 18-8, Type 304 stainless steel and will feature stainless steel bolts with heavy hex nuts. The heavy hex nuts and washers must have special lubricating fluorocarbon coating, heat cured to prevent galling. Stainless steel lifter bars will be incorporated in the design of the Tapping Sleeve and each bar will span the sleeve length to provide even torque distribution.

The Fast Sleeve will be furnished with a gridded rubber gasket, consisting of SBR compounded for water service meeting ASTM D2000 80M4AA607. The gasket will provide 360 degree circumferential support and will have 16 gauge, 1/4 hard stainless steel armors, a minimum of 2.25 inches wide, molded in place to span the gap between the two Tapping Sleeve sections. Each Fast Sleeve will also have a Buna-N outlet gasket to provide primary seal.

Each sleeve will be furnished with a 3/4" test port with a square head plug for easy use. The stainless steel flange will conform to AWWA C207, Class D-ANSI 150 pound drilling and will be recessed to accept standard tapping valves. The flange face shall be smooth. A weld on the flange face, covered with a glued-on flange gasket, will not be acceptable. The outlet neck will be welded at two locations (inside and out) to the flange and also to the sleeve. Each Fast Sleeve will be rated for 150 PSI working pressure, and 225 PSI test pressure.

All stainless steel welds used in the construction of the Sleeve will conform to AWS Codes and will be passivated in order to return the stainless steel material to its original corrosive resistant condition. The flange outlet section will be double welded, inside and out, to provide maximum strength.

Sleeves furnished for the nominal pipe sizes listed below shall have the corresponding O.D. Ranges.

<u>Nominal Pipe Size</u>	<u>O. D. Range</u>
4"	4.80-5.10
6"	6.90-7.30
8"	9.05-9.45
12"	13.10-13.50
16"	17.40-17.80

Sleeves furnished will be the FAST, as manufactured by The Ford Meter Box Company, Inc., Wabash, Indiana.
F.O.B. Canton, Ohio

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	10 - 4 x 4 tapping sleeve	\$ _____
2	10 - 6 x 4 tapping sleeve	\$ _____
3	12 - 6 x 6 tapping sleeve	\$ _____
4	10 - 8 x 4 tapping sleeve	\$ _____
5	12 - 8 x 6 tapping sleeve	\$ _____
6	12 - 8 x 8 tapping sleeve	\$ _____
7	10 - 12 x 4 tapping sleeve	\$ _____
8	12 - 12 x 6 tapping sleeve	\$ _____
9	12 - 12 x 8 tapping sleeve	\$ _____
10	12 - 12 x 12 tapping sleeve	\$ _____
11	5 - 16 x 4 tapping sleeve	\$ _____
12	5 - 16 x 6 tapping sleeve	\$ _____
13	5 - 16 x 8 tapping sleeve	\$ _____

**Pipe & Pipe Fittings
City of Canton Water Department**

14	5 - 16 x 12 tapping sleeve	\$ _____
15	2 - 20 x 4 tapping sleeve	\$ _____
16	2 - 20 x 6 tapping sleeve	\$ _____
17	2 - 20 x 8 tapping sleeve	\$ _____
18	2 - 20 x 12 tapping sleeve	\$ _____
19	2 - 24 x 4 tapping sleeve	\$ _____
20	2 - 24 x 6 tapping sleeve	\$ _____
21	2 - 24 x 8 tapping sleeve	\$ _____
22	2 - 24 x 12 tapping sleeve	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

**TAPPING SLEEVE WITH MECHANICAL JOINT ADAPTER OUTLET
 OPTION WITH STAINLESS STEEL FLANGE** F.O.B. CANTON, OHIO

The Fast Tapping Sleeve will be constructed of Grade 18-8, Type 304 stainless steel and will feature stainless steel bolts with heavy hex nuts. The heavy hex nuts and washers must have special lubricating fluorocarbon coating, heat cured to prevent galling. Stainless steel lifter bars will be incorporated in the design of the Tapping Sleeve and each bar will span the sleeve length to provide even torque distribution.

The Fast Sleeve will be furnished with a gridded rubber gasket, consisting of SBR compounded for water service meeting ASTM D2000 80M4AA607. The gasket will provide 360 degree circumferential support and will have 16 gauge, 1/4 hard stainless steel armors, a minimum of 2.25 inches wide, molded in place to span the gap between the two Tapping Sleeve sections. Each Fast Sleeve will also have a Buna-N outlet gasket to provide primary seal.

Each sleeve will be furnished with a 3/4" test port with a square head plug for easy use. The stainless steel flange will conform to AWWA C207, Class D-ANSI 150 pound drilling and will be recessed to accept standard tapping valves. The flange face shall be smooth. A weld on the flange face, covered with a glued-on flange gasket, will not be acceptable. The outlet neck will be welded at two locations (inside and out) to the flange and also to the sleeve. Each Fast Sleeve will be rated for 150 PSI working pressure, and 225 PSI test pressure.

All stainless steel welds used in the construction of the Sleeve will conform to AWS Codes and will be passivated in order to return the stainless steel material to its original corrosive resistant condition. The flange outlet section will be double welded, inside and out, to provide maximum strength.

Sleeves furnished for the nominal pipe sizes listed below shall have the corresponding O.D. Ranges.

<u>Nominal Pipe Size</u>	<u>O. D. Range</u>
4"	4.80-5.10
6"	6.90-7.30
8"	9.05-9.45
12"	13.10-13.50
16"	17.40-17.80

Sleeves furnished will be the FAST, as manufactured by The Ford Meter Box Co., Inc., Wabash, Indiana.

**Pipe & Pipe Fittings
City of Canton Water Department**

WITH MECHANICAL JOINT ADAPTER OUTLET OPTION

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	10 - 4 x 4 tapping sleeve	\$ _____
2	10 - 6 x 4 tapping sleeve	\$ _____
3	12 - 6 x 6 tapping sleeve	\$ _____
4	10 - 8 x 4 tapping sleeve	\$ _____
5	12 - 8 x 6 tapping sleeve	\$ _____
6	12 - 8 x 8 tapping sleeve	\$ _____
7	10 - 12 x 4 tapping sleeve	\$ _____
8	12 - 12 x 6 tapping sleeve	\$ _____
9	12 - 12 x 8 tapping sleeve	\$ _____
10	12 - 12 x 12 tapping sleeve	\$ _____
11	5 - 16 x 4 tapping sleeve	\$ _____
12	5 - 16 x 6 tapping sleeve	\$ _____
13	5 - 16 x 8 tapping sleeve	\$ _____
14	5 - 16 x 12 tapping sleeve	\$ _____
15	2 - 20 x 4 tapping sleeve	\$ _____
16	2 - 20 x 6 tapping sleeve	\$ _____
17	2 - 20 x 8 tapping sleeve	\$ _____
18	2 - 20 x 12 tapping sleeve	\$ _____
19	2 - 24 x 4 tapping sleeve	\$ _____
20	2 - 24 x 6 tapping sleeve	\$ _____
21	2 - 24 x 8 tapping sleeve	\$ _____
22	2 - 24 x 12 tapping sleeve	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

**Pipe & Pipe Fittings
City of Canton Water Department**

TAPPING VALVE

F.O.B. CANTON, OHIO

The items covered by this specification shall meet all applicable AWWA C509 standards and the following specifications:

All valves shall be non-rising stem, iron body, resilient wedge disc.

The design of the thrust collar shall be such that the thrust collar is sealed from line pressure by means of an "O" ring seal.

All valves shall be furnished with a two (2) inch square operating nut, OPEN RIGHT.

All valves shall be furnished with mechanical joint end connections.

Valve square must be bolted, not pinned.

The stem shall be protected from external grit by a weather shield and an upper "O" ring. Stem shall be lubricated.

Gate coating shall have a minimum thickness of 10 mils.

Valve shall be tested at the rated working pressure of 250 psi with no leakage. Shell test of 500 psi shall be applied to body with valve in the open position with no leakage through the metal, stem seals or joints.

All bolting material in the thrust collar and bonnet shall be 316 ss bolts.

Valves must take full size cutter.

All valves with accessories (flanges, rubbers, nuts, bolts **packed as one unit**).

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	20 - 4" tapping valve	\$ _____
2	20 - 6" tapping valve	\$ _____
3	20 - 8" tapping valve	\$ _____
4	20 -12" tapping valve	\$ _____

Terms _____

Manufacturer's Name _____

Delivery _____

Remarks _____

Pipe & Pipe Fittings
City of Canton Water Department

POLYETHYLENE SERVICE TUBING - SHALL BE COPPER TUBE SIZE AND MEET STANDARDS ASTM-D2737 PE3408, MUST BE PERFORMANCE PIPE BY CHEVRON PHILLIPS IN 100 FOOT ROLLS ONLY NO EXCEPTIONS F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Per Foot</u>
1	3,000 ft. - 3/4 plastic tubing	\$ _____
2	3,000 ft. - 1" plastic tubing	\$ _____
3	3,000 ft. - 1-1/2" plastic tubing	\$ _____
4	3,000 ft. - 2" plastic tubing	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

COPPER TUBING - TYPE "K" OR EQUAL - 60 FOOT COILS F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Per Foot</u>
1	500 ft. - 3/4" copper tubing	\$ _____
2	300 ft. - 1" copper tubing	\$ _____
3	500 ft. - 1-1/4" copper tubing	\$ _____
4	200 ft. - 1-1/2" copper tubing	\$ _____
5	300 ft. - 2" copper tubing	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

Pipe & Pipe Fittings
City of Canton Water Department

ACCESSORIES FOR MECHANICAL JOINT FITTINGS

F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	40 - 10' lengths 3/4"x10' all thread rod n.c. underground - Stainless	\$ _____
2	200 - 3/4" duc lugs S-14 underground	\$ _____
3	50 - 3/4"x10" 90 deg eyebolts n.c. underground with nuts	\$ _____
4	500 - 3/4"x10"x3-1/2" T bolts underground with nuts	\$ _____
5	500 - 3/4"x10"x4" T bolts underground with nuts	\$ _____
6	500 - 3/4"x10"x4-1/2" bolts underground with nuts	\$ _____
7	500 - 3/4"x10"x5" T bolts underground with nuts	\$ _____
8	1000 - 3/4" nut for T bolts underground with nuts	\$ _____
9	100 - 4" mechanical joint rubber gasket	\$ _____
10	100 - 6" mechanical joint rubber gasket	\$ _____
11	100 - 8" mechanical joint rubber gasket	\$ _____
12	100 - 12" mechanical joint rubber gasket	\$ _____
13	25 - 16" mechanical joint rubber gasket	\$ _____
14	500 - 3-1/2" lughead T7 bolts (anti-rotating) with nuts	\$ _____
15	500 - 4" lughead T7 bolts (anti-rotating) with nuts	\$ _____
16	500 - 4-1/2" lughead T7 bolts (anti-rotating) with nuts	\$ _____
17	500 - 3/4"x10"x5" T7 bolts (anti-rotating) with nuts	\$ _____
18	500 -eye bolts 3-1/2" x 3/4" with nuts	\$ _____
19	500 -eye bolts 4-1/2" x 3/4" with nuts	\$ _____
20	500 -coupling nut 3/4" (stainless)	\$ _____
21	25 - 4" field lock gasket	\$ _____
22	25 - 6" field lock gasket	\$ _____
23	25 - 8" field lock gasket	\$ _____
24	25 - 12" field lock gasket	\$ _____
25	25 - 16" field lock gasket	\$ _____
26	25 - 20" field lock gasket	\$ _____
27	25 - 24" field lock gasket	\$ _____

Terms _____

Manufacturer's Name _____

Delivery _____

Remarks _____

**Pipe & Pipe Fittings
City of Canton Water Department**

CORPORATION STOPS (1" AND UNDER)

F.O.B. CANTON, OHIO

All corporation stops shall be of the round way type for insertion into water mains under pressure. The inlet thread shall be Mueller (AWWA) and conform to table one (1) of AWWA C-800 latest revision. All threads shall be protected in shipment by a plastic coating or other equally satisfactory means. All corporation stops one inch (1") and under shall be designed as to rotate about the axis of the flow passageway inside a minimum of 2-7/8" circle of rotation.

The plugs of corporation stops one inch (1") and under shall be provided with integral cast tee heads 3/8" high by 3/8" wide for shut off key. All corporation stops must operate (open and close) with a fifty (50) foot pound maximum torque at 40 degrees F. under a head of sixty (60) psi. The key and the body shall be tapered and shall be accurately fitting together by turning the key and reaming the body and the seating surfaces shall be lapped together using abrasive suspension to insure accurate fit. The key shall be securely fastened in place with the 5/8" threaded brass nut and washer at the bottom of the plug. The nut must be prestaked to distort the last thread and prevent accidental backing off of the nut.

The outlet connection may be one of two types as called for in the bid items, copper flare or compression (see specifications for compression joints) flare joints for copper tubing, services shall have threads which comply to and conform with table two of AWWA C-800 latest revision; coupling nut threads shall conform to table three of AWWA C-800 latest revision. The length of the tube nut must be of sufficient length to support pipe loading.

NO BALL VALVES WILL BE ACCEPTED.

CORPORATION STOPS (1-1/2" X 2")

F.O.B. CANTON, OHIO

All corporation stops must be of the straight or tapered plug type using rubber "O" rings as pressure seals. The inlet threads shall be Mueller (AWWA) as listed above. The outlet shall be of the compression type. (See compression joint specification). All corporation stops must operate (open and close) with a fifty (50) foot pound maximum torque at 40 degrees F. under a head of sixty (60) p.s.i.

Bidder to furnish the following test data:

For corporation stops - the torque required to operate (open and close) at 40 degrees F. under a head of sixty (60) p.s.i. A fifty (50) foot pound torque maximum is required.

NO BALL VALVES WILL BE ACCEPTED.

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Mueller or Equal</u>	<u>Each</u>
1	200 - 3/4" cop less flaring nut	H15000	\$ _____
2	150 - 1" cop less flaring nut	H15000	\$ _____
3	5 - 1-1/4" cop less flaring nut	H15000	\$ _____
4	200 - 1-1/2" cop less flaring nut	H15000	\$ _____

Pipe & Pipe Fittings
City of Canton Water Department

5	100 - 2" cop less flaring nut	H15000	\$ _____
6	100 - 3/4" ip x cop less flaring nut	H15025	\$ _____
7	50 - 1" ip x cop less flaring nut	H15025	\$ _____
8	10 - 1-1/4" ip x cop less flaring nut	H15025	\$ _____
9	20 - 1-1/2" ip x cop less flaring nut	H15025	\$ _____
10	20 - 2" ip x cop less flaring nut	H15025	\$ _____
11	10 - 1" i corp stop	H10003	\$ _____
12	20 - 1-1/2" i corp stop	H10003	\$ _____
13	5 - 2" i corp stop	H10003	\$ _____
14	10 - 3/4" Mueller cc thread plug(sq head)	H10033	\$ _____
15	10 - 1" Mueller cc thread plug(sq head)	H10033	\$ _____
16	10 - 1-1/4" Mueller cc thread plug(sq head)	H10033	\$ _____
17	10 - 1-1/2" Mueller cc thread plug(sq head)	H10033	\$ _____
18	10 - 2" Mueller cc thread plug(sq head)	H10033	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

SERVICE FITTINGS 3/4", 1", 1-1/4", 1-1/2" & 2" F.O.B. CANTON, OHIO

All service fittings shall fully comply with the latest AWWA Standards, and the following design requirements. The end connections shall be male iron pipe, female iron pipe, copper flare, or compression joint (see specifications for compression joints.)

<u>Item</u>	<u>Estimated Quantity & Size</u>	<u>Mueller or Equal</u>	<u>Each</u>
1	25 - 3/4" c x 1" c	H15062	\$ _____
2	25 - 1" c x 3/4" c	H15062	\$ _____
3	200 - 3/4" copper ell	H15068	\$ _____
4	200 - 1" copper ell	H15068	\$ _____
5	10 - 1-1/4" copper ell	H15068	\$ _____
6	50 - 1-1/2" copper ell	H15068	\$ _____
7	50 - 2" copper ell	H15068	\$ _____
8	50 - 3/4" copper ell swivel	H15069	\$ _____
9	50 - 1" copper ell swivel	H15069	\$ _____
10	100 - 3/4" male coupling c.i.	H15425	\$ _____
11	100 - 1" male coupling c.i.	H15425	\$ _____
12	30 - 1-1/4" male coupling c.i.	H15425	\$ _____
13	30 - 1-1/2" male coupling c.i.	H15425	\$ _____
14	25 - 2" male coupling c.i.	H15425	\$ _____
15	150 - 3/4" female coupling c.i.	H15450	\$ _____
16	100 - 1" female coupling c.i.	H15450	\$ _____
17	15 - 1-1/4" female coupling c.i.	H15450	\$ _____

Pipe & Pipe Fittings
City of Canton Water Department

18	15 - 1-1/2" female coupling c.i.	H15450	\$ _____
19	15 - 2" female coupling c.i.	H15450	\$ _____
20	10 - 3/4" corp stop adapter	H15082	\$ _____
21	10 - 1" corp stop adapter	H15082	\$ _____
22	10 - 1-1/2" corp stop adapter	H15082	\$ _____
23	10 - 2" corp stop adapter	H15082	\$ _____
24	50 - 3/4" CI ell	H15460	\$ _____
25	75 - 2" CI ell	H15460	\$ _____
26	20 - 1-1/4" CI ell 90 deg	H15460	\$ _____
27	50 - 1-1/2" CI ell	H15460	\$ _____
28	50 - 2" C x I ell 45 deg	H15460	\$ _____
29	50 - 3/4" cop to cop ell	H15525	\$ _____
30	50 - 1" cop to cop ell	H15525	\$ _____
31	100 - 3/4" cop ell 45 deg	H15063	\$ _____
32	100 - 1" cop ell 45 deg	H15063	\$ _____
33	25 - 1-1/2" cop ell 45 deg	H15063	\$ _____
34	20 - 2" cop ell 45 deg	H15063	\$ _____
35	20 - 3/4" male ell 90 deg	H15530	\$ _____
36	20 - 1" male ell 90 deg	H15530	\$ _____
37	75 - 2" comp x iron ell 90 deg	H15533	\$ _____
38	50 - 1-1/2" comp x iron ell 90 deg	H15533	\$ _____
39	25 - 1" comp x iron ell 90 deg	H15533	\$ _____
40	25 - 3/4" comp x iron ell 90 deg	H15533	\$ _____
41	25 - 3/4" swivel ell comp x c 45 deg	H15075	\$ _____
42	25 - 1" swivel ell comp x c 45 deg	H15075	\$ _____
43	25 - 1-1/2" c swivel ell 90 deg	H15069	\$ _____
44	30 - 3/4" comp x male ell	H15531	\$ _____
45	30 - 1" comp x male ell	H15531	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

**Pipe & Pipe Fittings
City of Canton Water Department**

MECHANICAL JOINT RESTRAINTS

F.O.B. CANTON, OHIO

Mechanical joint restraint shall be incorporated in the design of the follower gland and shall include a restraining mechanism which, when actuated, imparts multiple wedging action against the pipe, increasing its resistance as the pressure increases. Flexibility of the joint shall be maintained after burial. Glands shall be manufactured of ductile iron conforming to ASTM A 536-80. Restraining devices shall be of ductile iron heat treated to a minimum hardness of 370 FHN. Dimensions of the gland shall be such that it can be used with the standardized mechanical joint bell and tee-head bolts conforming to ANSI/AWWA A21.11 and ANSI/AWWA C153/A21.53 of latest revision. Twist-off nuts, sized same as tee-head bolts, shall be used to insure proper actuating of restraining devices. The mechanical joint restraint device shall have a working pressure of at least 250 psi with a minimum safety factor of 2:1 and shall be EBAA Iron, Inc., MEGALUG or equal.

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	50 - 4" mechanical joint restraint	\$ _____
2	50 - 6" mechanical joint restraint	\$ _____
3	50 - 8" mechanical joint restraint	\$ _____
4	50 - 12" mechanical joint restraint	\$ _____
5	10 - 16" mechanical joint restraint	\$ _____
6	10 - 20" mechanical joint restraint	\$ _____
7	10 - 24" mechanical joint restraint	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

MECHANICAL JOINT RESTRAINTS FOR AWWA C900 SERIES PVC
F.O.B. CANTON, OHIO - 2000PV Mechanical Joint Restraint Specifications

Restraint devices for mechanical joint fittings and appurtenances conforming to either ANSI/AWWA C111/A21.11 or ANSI/AWWA C153/A21.53, shall conform to the following:

Design

1. Restraint devices for nominal pipe sizes 3 inch through 36 inch shall consist of multiple gripping wedges incorporated into a follower gland meeting the applicable requirements of ANSI/AWWA C110/A21.10.
2. The devices shall have a working pressure rating equal to that found in the most current product brochure. Ratings are for water pressure and must include a minimum safety factor of 2:1 in all sizes.

Material

1. Gland body, wedges and wedge actuating components shall be cast from grade 65-45-12 ductile iron material in accordance with ASTM A536.
2. Three (3) test bars shall be incrementally poured per production shift as per Underwriter's Laboratory (U.L.) specifications and ASTM A536. Testing for tensile, yield and elongation shall be done in accordance with ASTM E8.
3. Chemical and nodularity tests shall be performed as recommended by the Ductile Iron Society, on a per ladle basis.

Traceability

1. An identification number consisting of year, day, plant and shift (YYDDD) (plant designation) (Shift number), shall be cast into each gland body.
2. All physical and chemical test results shall be recorded such that they can be accessed via the identification number on the casting. These Material Traceability Records (MTR's) are to be made available, in hard copy, to the purchaser that requests such documentation and submits his gland body identification number.
3. Production pieces that are too small to accommodate individual numbering, such as fasteners and wedges, shall be controlled in segregate inventory until such time as all quality control tests are passed. These component parts may then be released to a general inventory for final assembly and packaging.
4. All components shall be manufactured and assembled in the United States. The purchaser shall, with reasonable notice, have the right to plant visitation at his/her expense.

Installation

1. Mechanical joint restraint shall require conventional tools and installation procedures per AWWA C600, while retaining full mechanical joint deflection during assembly.
2. Proper actuation of the gripping wedges shall be ensured with torque limiting twist off nuts.

**Pipe & Pipe Fittings
City of Canton Water Department**

Approvals

1. Mechanical Joint Restraints shall be Listed by Underwriters Laboratories in the 4 inch through 12 inch sizes.
2. Mechanical Joint Restraints shall be Factory Mutual Approved in the 4 inch through 12 inch sizes.
3. Mechanical Joint Restraints, 4 inch through 24 inch, shall meet or exceed the requirements of ASTM F1674 of the latest revision.
4. Mechanical joint restraint shall be Series 2000PV produced by EBAA Iron Inc. or approved equal.

MEGA-BOND® Restraint Coating System

Coating for restraint devices shall consist of the following:

All wedge assemblies and related parts shall be processed through a phosphate wash, rinse and drying operation prior to coating application. The coating shall consist of a minimum of two coats of liquid thermoset epoxy coating with heat cure to follow each coat.

All casting bodies shall be surface pretreated with a phosphate wash, rinse and sealer before drying. The coating shall be electrostatically applied and heat cured. The coating shall be a polyester based powder to provide corrosion, impact and UV resistance.

The coating system shall be MEGA-BOND by EBAA Iron, Inc. or approved equal. Requests for approved equal must submit coating material and process details for review prior to bid.

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	10 - 4" mechanical joint restraint for PVC pipe	\$ _____
2	10 - 16" mechanical joint restraint for PVC pipe	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

**Pipe & Pipe Fittings
City of Canton Water Department**

**MECHANICAL JOINT RESTRAINTS FOR AWWA C909 SERIES PVC
F.O.B. CANTON, OHIO - Specification for Restraint of C909 PVC 6in – 12in**

Restraint for AWWA C909 PVC Pipe shall consist of the following: The restraint shall be manufactured of ductile iron conforming to ASTM A536. The restraint devices shall be coated with MEGA-BOND. (For complete specifications on MEGA-BOND visit www.ebaa.com.) The combination of the restraint(s) and fasteners shall have a pressure rating to the full pressure rating of the pipe. The restraint shall have a two to one safety factor.

Restraint at Ductile Iron Fittings: A split serrated ring shall be used to grip the plain-end of the pipe, a sufficient number of bolts shall connect the restraint ring to the ductile iron fitting. The restraint for mechanical joint fittings shall be the Series 19MJ00. The restraint for push-on fittings with restraining ears shall be the 19PF00.

Restraint Harness: A split serrated ring shall be used to grip the plain-end of the pipe. A split serrated ring shall also be used to grip the barrel of the pipe behind the bell, and a sufficient number of bolts shall be used to connect the restraint rings. The combination shall be the Series 1900.

All Series manufactured by EBAA Iron, Inc., or approved equal.

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	10 - 6" mechanical joint restraint for PVC pipe	\$ _____
2	10 - 8" mechanical joint restraint for PVC pipe	\$ _____
3	10 - 12" mechanical joint restraint for PVC pipe	\$ _____

Terms _____

Manufacturer's Name _____

Delivery _____

Remarks _____

**Pipe & Pipe Fittings
City of Canton Water Department**

RESTRAINT DEVICE FOR PVC PIPE BELL JOINTS F.O.B. CANTON, OHIO

Uni-Flange Series #1390 or equal. Restraint device for bell and spigot joints of PVC pipe shall consist of split restraint rings, one installed on the spigot, connected to one installed on the pipe barrel behind the bell. The restraint device shall incorporate a series of serrations on the inside diameter to provide positive restraint, exact fit, 360 degrees contact and support of the pipe wall. Restraint device shall be of ductile iron, ASTM A536, Grade 65-45-12 or ASTM A36 structural steel, and connecting rods shall be of high strength, low alloy material in accordance with ANSI/AWWA C111/A21.11.

Restraint device shall have a water working pressure rating equivalent to the full rated pressure of the PVC pipe they are installed on with a minimum 2:1 safety factor in any nominal pipe size. In addition, they shall meet or exceed the requirements of Uni-B-13-94, Recommended Performance Specification For Joint Restraint Devices For Use With Polyvinyl Chloride (PVC) Pipe. Notarized certification from the manufacturer of the restraint device shall be provided with submittals. Restraint device for bell and spigot joints of PVC pipe shall be Uni-Flange 1390 or approved equal.

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	75 - 4" restraint for PVC pipe bell joints	\$ _____
2	75 - 6" restraint for PVC pipe bell joints	\$ _____
3	75 - 8" restraint for PVC pipe bell joints	\$ _____
4	75 - 10" restraint for PVC pipe bell joints	\$ _____
5	75 - 12" restraint for PVC pipe bell joints	\$ _____
6	75 - 16" restraint for PVC pipe bell joints	\$ _____

Terms _____

Manufacturer's Name _____

Delivery _____

Remarks _____

**Pipe & Pipe Fittings
City of Canton Water Department**

CURB VALVES

F.O.B. CANTON, OHIO

All curb valves are to be of the cylindrical or tapered plug type with an integrally cast tee head drilled or cored to permit attachment of operating rods. Curb valves shall be of the resilient seat type using "O" rings as pressure seals. All valves when in the closed position must have zero (0) leakage thru the top, bottom, and ports at the maximum rated working pressure of 175 p.s.i.

All curb valves must be able to withstand minimum torque requirements of 125 ft. pounds input turning torque:

- a) Against the check in the opening direction
- b) Against the check in the closing direction
- c) With plug restrained in the open position (to stimulate blockage)

The inlet and outlet connections may be one of two types as called for in the bid items, copper flare or compression (see specification for compression joints) flare joints for copper tubing services shall have threads which comply to and conform with table two and conform with table two of AWWA C-800 latest revision; coupling nut threads shall conform to table three of AWWA C-800 latest revision. The length of tube nut must be of sufficient length to support pipe loading.

For curb valves - the torque that the valve can withstand against the check in the opening direction, against the check in the closing direction and with the plug restrained in the open position (to stimulate blockage). A 125 foot pound torque minimum is required for each of the three tests.

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Mueller or equal</u>	<u>Each</u>
1	200 - 3/4" curb valve II	H10283	\$ _____
2	200 - 1" curb valve II	H10283	\$ _____
3	10 - 1-1/4" curb valve II	H10283	\$ _____
4	20 - 1-1/2" curb valve II	H10283	\$ _____
5	20 - 2" curb valve II	H10283	\$ _____
6	250 - 3/4" curb valve CI	H15174	\$ _____
7	200 - 1" curb valve CI	H15174	\$ _____
8	10 - 1-1/4" curb valve CI	H15174	\$ _____
9	20 - 1-1/2" curb valve CI	H15174	\$ _____
10	20 - 2" curb valve CI	H15174	\$ _____
11	50 - 3/4" cop x cop curb stop	H15204	\$ _____
12	50 - 1" cop x cop curb stop	H15204	\$ _____
13	25- 3/4" curb valve comp x iron	H15172	\$ _____
14	25- 1" curb valve comp x iron	H15172	\$ _____
15	30 - 1-1/2" curb valve comp x iron	H15172	\$ _____
16	30 - 2" curb valve comp x iron	H15172	\$ _____
17	25 - 3/4" comp x comp curb stop	H15209	\$ _____
18	25 - 1" comp x comp curb stop	H15209	\$ _____
19	30 - 1-1/2" comp x comp curb stop	H15209	\$ _____
20	30 - 2" comp x comp curb stop	H15209	\$ _____

Terms _____

Manufacturer's Name _____

Delivery _____

Remarks _____

**Pipe & Pipe Fittings
City of Canton Water Department**

**MUELLER BALL VALVES COMPRESSION X COMPRESSION B-25209 OR EQUAL
F.O.B. CANTON, OHIO**

<u>Item</u>	<u>Estimated Quantity & Size</u>	<u>Mueller or Equal</u>	<u>Each</u>
1	20 - 1-1/2" curb valve	B25209	\$ _____
2	20 - 2" curb valve	B25209	\$ _____
3	20 - 1-1/2" comp x I curb valve	B25172	\$ _____
4	20 - 2" comp x I curb valve	B25172	\$ _____
5	10 - 2" comp x comp curb valve	B25209	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

COMPRESSION JOINTS

F.O.B. CANTON, OHIO

All compression joints must be of the conductive type. The compression nut must have a baked on coating to reduce friction and prevent the gasket from gaulding to the nut. All compression joints must be of the design so that the gasket cannot be over compressed. The joint design must permit a stab connection not requiring total disassembly of the joint. All 1-1/2" and 2" compression joints must be able to withstand a pull out of 3000 lbs. tensile load.

Bidder to furnish the following test data:

For compression joints - the tensile load pull out the joint can withstand.
 A 3000 pound tensile pull out minimum is required.

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Mueller or Equal</u>	<u>Each</u>
1	40 - 3/4" stainless insert	H55	\$ _____
2	40 - 1" stainless insert	H55	\$ _____
3	300 - 1-1/2" stainless insert	H55	\$ _____
4	300 - 2" stainless insert	H55	\$ _____
5	30 - 3/4" female comp coup	H15071	\$ _____
6	30 - 1" female comp coup	H15071	\$ _____
7	20 - 1-1/4" female comp coup	H15071	\$ _____
8	200 - 1-1/2" female comp coup	H15071	\$ _____
9	200 - 2" female comp coup	H15071	\$ _____
10	200 - 3/4" female instatite	H15074	\$ _____
11	200 - 1" female instatite	H15074	\$ _____
12	20 - 3/4" cop union	H15400	\$ _____
13	20 - 1" cop union	H15400	\$ _____
14	20 - 1-1/4" cop union	H15400	\$ _____

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15	20 - 1-1/2" cop union	HI5400	\$ _____
16	20 - 2" cop union	HI5400	\$ _____
17	50 - 3/4" dresser coupling	HI5403	\$ _____
18	50 - 1" dresser coupling	HI5403	\$ _____
19	50 - 1-1/4" dresser coupling	HI5403	\$ _____
20	50 - 1-1/2" dresser coupling	HI5403	\$ _____
21	50 - 2" dresser coupling	HI5403	\$ _____
22	50 - 3/4" male instatite	HI5424	\$ _____
23	50 - 1" male instatite	HI5424	\$ _____
24	30 - 3/4" male comp coup	HI5428	\$ _____
25	30 - 1" male comp coup	HI5428	\$ _____
26	20 - 1-1/4" male comp coup	HI5428	\$ _____
27	100 - 1-1/2" male comp coup	HI5428	\$ _____
28	100 - 2" male comp coup	HI5428	\$ _____
29	20 - 3/4"x 1" male comp coup	HI5428	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

SERVICE AND VALVE BOXES AND PARTS (BUFFALO TYPE)
MUST BE GENERAL FOUNDRY ONLY - HEAVY DUTY F.O.B. CANTON, OHIO

VALVE BOX

These specifications provide for three-piece round head screw type valve boxes and parts. These valve boxes consist of a lid, top, middle, and base section. Also, included is a screw type extension.

Nothing in these specifications shall be interpreted as relieving the manufacturer or supplier of the responsibility of furnishing a product suitable for the intended purpose.

Quality of Material - The lid, top, middle, and base section, and extension, shall be made of good quality gray cast iron conforming to Class 25 in the latest ASTM Specification A-48, saving a minimum tensile strength of 25,000 p.s.i.

Design and Dimensions - The design and dimensions shall be Buffalo type three-piece screw type as manufactured by Bingham and Taylor Corporation, or other approved equal.

The lids shall fit snug and shall not be removable except by lifting up straight from the shoulder of the top section shaft. The lids, top sections, and middles and extension of any manufacturer shall be made in such manner in conformance with the dimensions shown that will be interchangeable and fit the base section.

Coating - All castings shall be thoroughly cleaned by sand blasting, tumbling or other approved process. When entirely clean and free from rust, all castings shall be completely covered with one coat of approved asphaltum or coal tar paint which shall be allowed to dry thoroughly before shipment.

**Pipe & Pipe Fittings
City of Canton Water Department**

CURB BOX

These specifications provide for Buffalo type two-piece screw type curb boxes and parts. These curb boxes consist of a lid and screw, top, and bottom. Also, included in these specifications is a screw type extension for the two-piece screw type curb boxes.

Nothing in these specifications shall be interpreted as relieving the manufacturer or supplier of the responsibility for furnishing a product suitable for the intended purpose.

Quality of Material - The lid, top, and bottom section and extension shall be made of good quality gray cast iron conforming to Class 25 in the latest ASTM Specification S-48, having a minimum tensile strength of 25,000 p.s.i.

The screw shall be brass pentagon head and machined from brass bar stock.

Design and Dimensions - The design and dimensions shall be Buffalo type, new style, two piece screw type as manufactured by Bingham and Taylor Corporation, or other approved equal.

The lid shall be affixed to the top section with a brass screw. The screw shall be pentagon head 7/8" from flat to point 1-3/16" under the head, diameter 17/32" and 12 threads per inch.

The lids, screws, tops and extensions of any manufacturer shall be made in such a manner in conformance with dimensions shown that they will be interchangeable and that the top and extension shall fit the bottom section.

Workmanship - Castings shall be of uniform quality, true to the drawing, strong, tough, of even grain, sound, smooth without cold shuts, swell, scales, blisters and sand holes, cracks, or other defects.

Coating - All castings shall be thoroughly cleaned by sand blasting, tumbling or other approved process. When entirely clean and free from rust, all castings shall be completely covered with one coat of approved asphaltum or coal tar paint which shall be allowed to dry thoroughly before shipment.

MUST STAY WITH SAME MANUFACTURER FOR LENGTH OF CONTRACT

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	100 - "A" valve box with lid & #6 base	\$ _____
2	100 - "B" valve box with lid & #6 base	\$ _____
3	100 - "C" valve box with lid & #6 base	\$ _____
4	75 - "D" valve box with lid & #6 base	\$ _____
5	50 - valve box extension #58 - 14"	\$ _____
6	50 - valve box extension #59 - 20"	\$ _____
7	750 - 94E service box 2-1/2" shaft screw type	\$ _____
8	100 - No. 4 svc. box 2-1/2" shaft screw type	\$ _____
9	50 - service box extension #155 - 20"	\$ _____
10	50 - service box extension #151 - 9"	\$ _____
11	50 - service box extension #152 - 16"	\$ _____
12	300 - 2" valve box adapter less lid	\$ _____
13	100 - 3" valve box adapter less lid	\$ _____

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14	75 - 4" valve box adapter less lid	\$ _____
15	300 - 1" valve box adapter with lid	\$ _____
16	200 - 2-1/2" outside lid #10374	\$ _____
17	200 - 2-1/2" inside lid #10373	\$ _____
18	175 - roadway box with lid (R144) - complete	\$ _____
19	40 - 18" roadway box extension #49	\$ _____
20	300 - #6 base for "A", "B" & "C" valve box	\$ _____
21	100 - valve box lid for "A", "B" & "C" valve box	\$ _____
22	75 - top section with lid & bolt for 94E	\$ _____
23	50 - top section for A, B, C, D valve box	\$ _____
24	100 - A valve box w/lid, less base	\$ _____
25	100 - B valve box w/lid, less base	\$ _____
26	100 - C valve box w/lid, less base	\$ _____
27	100 - D valve box w/lid, less base	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

BRASS ELLS

F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	10 - 3/4" brass ell	\$ _____
2	10 - 1" brass ell	\$ _____
3	10 - 1-1/4" brass ell	\$ _____
4	20 - 1-1/2" brass ell	\$ _____
5	20 - 2" brass ell	\$ _____
6	6 - 3/4" brass street ell	\$ _____
7	6 - 1" brass street ell	\$ _____
8	6 - 1-1/4" brass street ell	\$ _____
9	6 - 1-1/2" brass street ell	\$ _____
10	6 - 2" brass street ell	\$ _____
11	10 - 2" brass ell 45 deg	\$ _____
12	10 - 1-1/2" brass ell 45 deg	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

**Pipe & Pipe Fittings
City of Canton Water Department**

BRASS BUSHINGS - STANDARD #570

F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	50 - 1" x 3/4" brass bushing	\$ _____
2	50 - 1-1/4" x 3/4" brass bushing	\$ _____
3	50 - 1-1/4" x 1" brass bushing	\$ _____
4	50 - 1-1/2" x 1-1/4" brass bushing	\$ _____
5	20 - 2" x 3/4" brass bushing	\$ _____
6	20 - 2" x 1" brass bushing	\$ _____
7	50 - 2" x 1-1/4" brass bushing	\$ _____
8	50 - 2" x 1-1/2" brass bushing	\$ _____
9	30 - 1-1/2" x 3/4" brass bushing	\$ _____
10	30 - 1-1/2" x 1" brass bushing	\$ _____
11	10 - 3/4" x 1/2" brass bushing	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

BRASS COUPLINGS - STANDARD

F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	20 - 3/4" brass coupling	\$ _____
2	20 - 1" brass coupling	\$ _____
3	20 - 1-1/4" brass coupling	\$ _____
4	20 - 1-1/2" brass coupling	\$ _____
5	20 - 2" brass coupling	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

**Pipe & Pipe Fittings
City of Canton Water Department**

BRASS REDUCING COUPLINGS

F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	12 - 1" x 3/4" brass reducing coupling	\$ _____
2	12 - 1-1/4" x 1" brass reducing coupling	\$ _____
3	12 - 1-1/2" x 1-1/4" brass reducing coupling	\$ _____
4	12 - 2" x 1-1/2" brass reducing coupling	\$ _____
5	12 - 3/4" x 1/2" brass reducing coupling	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

BRASS TEES

F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	50 - 2" x 2" x 2" brass tee	\$ _____
2	100 - 2" x 2" x 3/4" brass tee	\$ _____
3	100 - 2" x 2" x 1" brass tee	\$ _____
4	50 - 2x 2x 1-1/2brass tee	\$ _____
5	50 - 1-1/2" x 1-1/2" x 1-1/2" brass tee	\$ _____
6	100 - 1-1/2" x 1-1/2" x 3/4" brass tee	\$ _____
7	100 - 1-1/2" x 1-1/2" x 1" brass tee	\$ _____
8	50 - 1-1/4" x 1-1/4" x 1-1/4" brass tee	\$ _____
9	25 - 1-1/4" x 1-1/4" x 3/4" brass tee	\$ _____
10	25 - 1-1/4" x 1-1/4" x 1" brass tee	\$ _____
11	50 - 1" x 1" x 1" brass tee	\$ _____
12	50 - 3/4" x 3/4" x 3/4" brass tee	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

Pipe & Pipe Fittings
City of Canton Water Department

BRASS NIPPLES

F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	30 - 1/2" x 2" brass nipple	\$ _____
2	30 - 1/2" x 3" brass nipple	\$ _____
3	30 - 1/2" x 4" brass nipple	\$ _____
4	30 - 1/2" x 5" brass nipple	\$ _____
5	30 - 1/2" x 6" brass nipple	\$ _____
6	30 - 3/4" x 2" brass nipple	\$ _____
7	30 - 3/4" x 3" brass nipple	\$ _____
8	30 - 3/4" x 4" brass nipple	\$ _____
9	30 - 3/4" x 5" brass nipple	\$ _____
10	30 - 3/4" x 6" brass nipple	\$ _____
11	30 - 1" x 2" brass nipple	\$ _____
12	30 - 1" x 3" brass nipple	\$ _____
13	30 - 1" x 4" brass nipple	\$ _____
14	30 - 1" x 5" brass nipple	\$ _____
15	30 - 1" x 6" brass nipple	\$ _____
16	30 - 1-1/4" x 2" brass nipple	\$ _____
17	30 - 1-1/4" x 3" brass nipple	\$ _____
18	30 - 1-1/4" x 4" brass nipple	\$ _____
19	30 - 1-1/4" x 5" brass nipple	\$ _____
20	30 - 1-1/4" x 6" brass nipple	\$ _____
21	30 - 1-1/2" x 2" brass nipple	\$ _____
22	30 - 1-1/2" x 3" brass nipple	\$ _____
23	30 - 1-1/2" x 4" brass nipple	\$ _____
24	30 - 1-1/2" x 5" brass nipple	\$ _____
25	30 - 1-1/2" x 6" brass nipple	\$ _____
26	30 - 2" x 2" brass nipple	\$ _____
27	30 - 2" x 3" brass nipple	\$ _____
28	30 - 2" x 4" brass nipple	\$ _____
29	30 - 2" x 5" brass nipple	\$ _____
30	30 - 2" x 6" brass nipple	\$ _____

Terms _____

Manufacturer's Name _____

Delivery _____

Remarks _____

Pipe & Pipe Fittings
City of Canton Water Department

BRASS PLUGS

F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	25 - 3/4" standard pipe thread (n.c.)	\$ _____
2	25 - 1" standard pipe thread (n.c.)	\$ _____
3	25 - 1-1/4" standard pipe thread (n.c.)	\$ _____
4	25 - 1-1/2" standard pipe thread (n.c.)	\$ _____
5	25 - 2" standard pipe thread (n.c.)	\$ _____
6	25 - 3/4" standard pipe thread brass cap	\$ _____
7	25 - 1" standard pipe thread brass cap	\$ _____
8	25 - 1-1/4" standard pipe thread brass cap	\$ _____
9	25 - 1-1/2" standard pipe thread brass cap	\$ _____
10	25 - 2" standard pipe thread brass cap	\$ _____
11	25 - 2-1/2" standard pipe thread brass cap	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

SMITH BLAIR #411 AND #413

F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	5 - 16" #411-1740-08-003 3/8 x 10 Smith Blair	\$ _____
2	5 - 18" #411-1950-07-003 3/8 x 7 Smith Blair	\$ _____
3	5 - 18" #411-1950-08-003 3/8 x 8 Smith Blair	\$ _____
4	5 - 20" #411-2160-08-003 3/8 x 10 Smith Blair	\$ _____
5	5 - 24" #411-2580-08-003 3/8 x 10 Smith Blair	\$ _____
6	5 - 30" #411-3200-07-003 3/8 x 7 Smith Blair	\$ _____
7	5 - 36" #411-3910-007-003 3/8 x 7 Smith Blair	\$ _____
8	5 - 16" #413-1740-1706-202 Smith Blair	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

Pipe & Pipe Fittings
City of Canton Water Department

SMITH BLAIR DRESSER COUPLING #65 GALVANIZED LONG
F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	100 - 3/4" dresser coupling galv #65 long	\$ _____
2	100 - 1" dresser coupling galv #65 long	\$ _____
3	100 - 1-1/4" dresser coupling galv #65 long	\$ _____
4	100 - 1-1/2" dresser coupling galv #65 long	\$ _____
5	100 - 2" dresser coupling galv #65 long	\$ _____

**Pipe & Pipe Fittings
City of Canton Water Department**

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

DRESSER COUPLING STYLE 38

F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	2 - 20" Dresser coup O.D. 21.60 for Class A Pipe	\$ _____
2	2 - 20" Dresser coup O.D. 21.60 for Class B Pipe	\$ _____
3	2 - 20" Dresser coup O.D. 22.06 for Class C Pipe	\$ _____
4	2 - 20" Dresser coup O.D. 22.06 for Class D Pipe	\$ _____
5	2 - 24" Dresser coup O.D. 25.80 for Class A Pipe	\$ _____
6	2 - 24" Dresser coup O.D. 25.80 for Class B Pipe	\$ _____
7	2 - 24" Dresser coup O.D. 26.32 for Class C Pipe	\$ _____
8	2 - 24" Dresser coup O.D. 26.32 for Class D Pipe	\$ _____
9	2 - 30" Dresser coup O.D. 31.74 for Class A Pipe	\$ _____
10	2 - 30" Dresser coup O.D. 32.00 for Class B Pipe	\$ _____
11	2 - 30" Dresser coup O.D. 32.40 for Class C Pipe	\$ _____
12	2 - 30" Dresser coup O.D. 32.74 for Class D Pipe	\$ _____
13	2 - 36" Dresser coup O.D. 37.96 for Class A Pipe	\$ _____
14	2 - 36" Dresser coup O.D. 38.30 for Class B Pipe	\$ _____
15	2 - 36" Dresser coup O.D. 38.70 for Class C Pipe	\$ _____
16	2 - 36" Dresser coup O.D. 39.16 for Class D Pipe	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

FULL SEAL MUELLER ALL STAINLESS STEEL CLAMP SINGLE BOLT

F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	25 - 2" 520-9-2.35-2"x 9"	\$ _____
2	25 - 2-1/4" 520-9-2.70-2-1/4"x 9"	\$ _____
3	25 - 3" 520-9-2.97-3"x 9"	\$ _____
4	25 - 3" 520-9-3.46-3"x 9"	\$ _____
5	25 - 3-1/2" 520-9-3.96-3-1/2"x 9"	\$ _____

**Pipe & Pipe Fittings
City of Canton Water Department**

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

PIPE REPAIR CLAMPS - MUELLER SERIES 520, 530, 550, 220 AND 510 CLAMPS
 (or approved equal) MUST BE ALL STAINLESS STEEL BAND AND BOLTING
 MECHANISM F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	5 - #520-9-3.73-3"x9" Mueller All SS Clamp, Single Bolt	\$ _____
2	50 - #520-9-4.74-4"x9" Mueller All SS Clamp, Single Bolt	\$ _____
3	50 - #520-9-6.84-6"x9" Mueller All SS Clamp, Single Bolt	\$ _____
4	50 - #520-9-8.99-8"x9" Mueller All SS Clamp, Single Bolt	\$ _____
5	5 - #520-12-2.35-2"x12" Mueller All SS Clamp, Single Bolt	\$ _____
6	5 - #520-12-2.70-2"x12" Mueller All SS Clamp, Single Bolt	\$ _____
7	5 - #520-12-3.73-3"x12" Mueller All SS Clamp, Single Bolt	\$ _____
8	5 - #520-12-4.74-4"x12" Mueller All SS Clamp, Single Bolt	\$ _____
9	5 - #520-12-6.84-6"x12" Mueller All SS Clamp, Single Bolt	\$ _____
10	3 - #520-12-8.99-8"x12" Mueller All SS Clamp, Single Bolt	\$ _____
11	5 - #520-16-4.74-4"x16" Mueller All SS Clamp, Single Bolt	\$ _____
12	5 - #520-16-6.84-6"x16" Mueller All SS Clamp, Single Bolt	\$ _____
13	5 - #520-16-8.99-8"x16" Mueller All SS Clamp, Single Bolt	\$ _____
14	5 - #520-16-13.14-12"x16" Mueller All SS Clamp, Single Bolt	\$ _____
15	2 - #520-12-11.04-10"x12" Mueller All SS Clamp, Single Bolt	\$ _____
16	6 - #520-12-13.14-12"x12" Mueller All SS Clamp, Single Bolt	\$ _____
17	5 - #520-16-3.73-3"x16" Mueller All SS Clamp, Single Bolt	\$ _____
18	5 - #520-18-2.35-2"x18" Mueller All SS Clamp, Single Bolt	\$ _____
19	6 - #520-18-4.74-4"x18" Mueller All SS Clamp, Single Bolt	\$ _____
20	5 - #520-18-6.84-6"x18" Mueller All SS Clamp, Single Bolt	\$ _____
21	10 - #520-18-8.99-8"x18" Mueller All SS Clamp, Single Bolt	\$ _____
22	3 - #520-18-11.04-10"x18" Mueller All SS Clamp, Single Bolt	\$ _____
23	4 - #520-18-13.14-12"x18" Mueller All SS Clamp, Single Bolt	\$ _____
24	5 - #522-9-4.74-4"x9"x3/4"cc Mueller All SS Clamp-Tapped, Single Bolt	\$ _____
25	6 - #522-9-6.84-6"x9"x3/4"cc Mueller All SS Clamp-Tapped, Single Bolt	\$ _____
26	5 - #522-9-8.99-8"x9"x3/4"cc Mueller All SS Clamp-Tapped, Single Bolt	\$ _____
27	4 - #522-12-13.14-12"x12"x3/4"cc Mueller All SS Clamp-Tapped, Single Bolt	\$ _____
28	5 - #524-9-4.74-4"x9"x1"cc Mueller All SS Clamp-Tapped, Single Bolt	\$ _____
29	4 - #524-9-6.84-6"x9"x1"cc Mueller All SS Clamp-Tapped, Single Bolt	\$ _____

Pipe & Pipe Fittings
City of Canton Water Department

30	2 - #524-9-8.99-8"x9"x1"cc Mueller All SS Clamp-Tapped, Single Bolt	\$ _____
31	4 - #524-12-13.14-12"x12"x1"cc Mueller All SS Clamp-Tapped, Single Bolt	\$ _____
32	3 - #526-9-4.74-4"x9"x1-1/2"cc Mueller All SS Clamp-Tapped, Single Bolt	\$ _____
33	3 - #526-9-6.84-6"x9"x1-1/2"cc Mueller All SS Clamp-Tapped, Single Bolt	\$ _____
34	11 - #526-9-8.99"x9"x1-1/2"cc Mueller All SS Clamp-Tapped, Single Bolt	\$ _____
35	4 - #526-12-13.14-12"x12"x1-1/2"cc Mueller All SS Clamp-Tapped, Single Bolt	\$ _____
36	35 - #220-3-1.05-3/4"x3" Mueller Pipe Saver Clamp	\$ _____
37	20 - #220-6-1.05-3/4"x6" Mueller Pipe Saver Clamp	\$ _____
38	20 - #220-3-1.31-1"x3" Mueller Pipe Saver Clamp	\$ _____
39	20 - #220-6-1.31-1"x6" Mueller Pipe Saver Clamp	\$ _____
40	50 - #220-3-1.66-1-1/4"x3" Mueller Pipe Saver Clamp	\$ _____
41	50 - #220-6-1.66-1-1/4"x6" Mueller Pipe Saver Clamp	\$ _____
42	30 - #210-3-1.66-1-1/4"x3" Mueller Pipe Saver Clamp	\$ _____
43	30 - #210-6-1.66-1-1/4"x6" Mueller Pipe Saver Clamp	\$ _____
44	100 - #212-3-1.90-1-1/2"x3" Mueller Pipe Saver Clamp Gridded gasket(full seal)	\$ _____
45	100 - #212-6-1.90-1-1/2"x6" Mueller Pipe Saver Clamp Gridded gasket(full seal)	\$ _____
46	100 - #212-3-2.37-2"x3" Mueller Pipe Saver Clamp Gridded gasket(full seal)	\$ _____
47	100 - #212-6-2.37-2"x6" Mueller Pipe Saver Clamp Gridded gasket(full seal)	\$ _____
48	50 - #530-9-4.70-4"x9" Mueller All SS Clamp-double bolt	\$ _____
49	50 - #530-9-6.75-6"x9" Mueller All SS Clamp-double bolt	\$ _____
50	50 - #530-9-8.88-8"x9" Mueller All SS Clamp-double bolt	\$ _____
51	5 - #530-12-4.70-4"x12" Mueller All SS Clamp-double bolt	\$ _____
52	5 - #530-12-6.75-6"x12" Mueller All SS Clamp-double bolt	\$ _____
53	3 - #530-12-8.88-8"x12" Mueller All SS Clamp-double bolt	\$ _____
54	2 - #530-12-11.05-10"x12" Mueller All SS Clamp-double bolt	\$ _____
55	6 - #530-12-13.10-12"x12" Mueller All SS Clamp-double bolt	\$ _____
56	6 - #530-18-4.70-4"x18" Mueller All SS Clamp-double bolt	\$ _____
57	5 - #530-18-6.75-6"x18" Mueller All SS Clamp-double bolt	\$ _____
58	10 - #530-18-8.88-8"x18" Mueller All SS Clamp-double bolt	\$ _____
59	3 - #530-18-11.05-10"x18" Mueller All SS Clamp-double bolt	\$ _____
60	4 - #530-18-13.10-12"x18" Mueller All SS Clamp-double bolt	\$ _____
61	5 - #532-9-4.70-4"x9"x3/4" cc Mueller All SS Clamp-tapped, double bolt	\$ _____
62	6 - #532-9-6.75-6"x9"x3/4" cc Mueller All SS Clamp-tapped, double bolt	\$ _____
63	5 - #532-9-8.88-8"x9"x3/4" cc Mueller All SS Clamp-tapped,	\$ _____

**Pipe & Pipe Fittings
City of Canton Water Department**

	double bolt	\$ _____
64	5 - #534-9-4.70-4"x9"x1" cc Mueller All SS Clamp-tapped, double bolt	\$ _____
65	5 - #534-9-6.75-6"x9"x1" cc Mueller All SS Clamp-tapped, double bolt	\$ _____
66	5 - #534-9-8.88-8"x9"x1" cc Mueller All SS Clamp-tapped, double bolt	\$ _____
67	5 - #536-9-4.70-4"x9"x1-1/2" cc Mueller All SS Clamp-tapped, double bolt	\$ _____
68	5 - #536-9-6.75-6"x9"x1-1/2" cc Mueller All SS Clamp-tapped, double bolt	\$ _____
69	11 - #536-9-8.88-8"x9"x1-1/2" cc Mueller All SS Clamp-tapped, double bolt	\$ _____
70	1 - #510-18-15.10-14"x18" Mueller clamp, Iron Bolts, double bolt	\$ _____
71	1 - #510-18-17.20-16"x18" Mueller clamp, Iron Bolts double bolt	\$ _____
72	1 - #510-18-19.50-18"x18" Mueller clamp, Iron Bolts, double bolt	\$ _____
73	1 - #510-18-21.60-20"x18" Mueller clamp, Iron Bolts, double bolt	\$ _____
74	1 - #510-18-25.66-24"x18" Mueller clamp, Iron Bolts, double bolt	\$ _____
75	1 - #510-18-31.22-30"x18" Mueller clamp, Iron Bolts, double bolt	\$ _____
76	1 - #510-18-37.86-36"x18" Mueller clamp, Iron Bolts, double bolt	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

RETAINER CLAMPS OR FRICTION CLAMP - W/UNDERGROUND WASHERS
 F.O.B. CANTON, OHIO

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	15 - 4" retainer clamp	\$ _____
2	15 - 6" retainer clamp	\$ _____
3	15 - 8" retainer clamp	\$ _____
4	1 - 10" retainer clamp	\$ _____
5	10 - 12" retainer clamp	\$ _____
6	3 - 16" retainer clamp	\$ _____

Terms _____

**Pipe & Pipe Fittings
City of Canton Water Department**

Manufacturer's Name _____
 Delivery _____
 Remarks _____

INSERTING VALVE COMPLETE WITH SLEEVE-F.O.B. CANTON

Must be stainless steel, open right, complete with sleeve and compatible with City of Canton Water Department's Hydro-Stop Insta-Valve inserting machine.

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Part No.</u>	<u>Each</u>
1	2 - 4" s.s. inserting valve complete		
	o.d. 4.50 - range 4.30-4.70	2204321000	\$ _____
	o.d. 4.80 - range 4.60-5.00	2204121000	\$ _____
2	2 - 6" s.s. inserting valve complete		
	o.d. 6.63 - range 6.43-6.83	2206221000	\$ _____
	o.d. 6.90 - range 6.70-7.10	2206121000	\$ _____
3	2 - 8" s.s. inserting valve complete		
	o.d. 8.63 - range 8.43-8.83	2208231000	\$ _____
	o.d. 9.05 - range 8.85-9.25	2208131000	\$ _____
	o.d. 9.79 - range 9.59-9.99	2208331000	\$ _____
4	1 - 10" s.s. inserting valve complete		
	o.d. 11.50 - range 11.35-11.70	2210432100	\$ _____
	o.d. 10.75 - range 10.55-10.95	2210241100	\$ _____
	o.d. 11.10 - range 10.90-11.3	2210141100	\$ _____
5	2 - 12" s.s. inserting valve complete		
	o.d. 13.50 - range 13.35-13.65	2212442100	\$ _____
	o.d. 12.75 - range 12.55-12.95	2212241100	\$ _____
	o.d. 13.20 - range 13.00-13.50	2212141100	\$ _____
	o.d. 13.75 - range 13.55-13.95	2212541100	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

Pipe & Pipe Fittings
City of Canton Water Department

INSERTING VALVE INSTALLED BY CONTRACTOR - ROMAC OR EQUAL -
CITY WILL EXCAVATE **F.O.B. CANTON, OHIO**

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	1 - 4" inserting valve complete installed by contractor	\$ _____
2	1 - 6" inserting valve complete installed by contractor	\$ _____
3	1 - 8" inserting valve complete installed by contractor	\$ _____
4	1 - 10" inserting valve complete installed by contractor	\$ _____
5	1 - 12" inserting valve complete installed by contractor	\$ _____

Terms _____
Manufacturer's Name _____
Delivery _____
Remarks _____

**Pipe & Pipe Fittings
City of Canton Water Department**

TAP SADDLES

F.O.B. CANTON, OHIO

Tap saddles for prestressed concrete cylinder pipe must have straps in lieu of a solid back half. The gland and the saddle shall be separate pieces such that the saddle can be installed prior to cutting the prestressed wires and installing the gland. The saddle shall have gasket seals around its periphery and openings in the saddle for the purpose of grouting an annular space of approximately 1/2" thickness between the exterior surface of the pipe and the underside of the saddle. The gland shall have a rubber gasket for making a watertight seal between the gland and the steel cylinder of the prestressed concrete cylinder pipe. The inside surface of the gland neck which will be in contact with the water shall be lined with cement mortar or a fusion applied epoxy per AWWA.

<u>Item</u>	<u>Estimated Quantity and Size</u>	<u>Each</u>
1	10 - 24" saddle w/1" cc tapered thread tap for 24" concrete pipe complete with band	\$ _____
2	10 - 30" saddle w/1" cc tapered thread tap for 30" concrete pipe complete with band (92")	\$ _____
3	10 - 36" saddle w/1" cc tapered thread tap for 36" concrete pipe complete with band (107")	\$ _____
4	6 - 42" saddle w/1" cc tapered thread tap for 42" concrete pipe complete with band (130")	\$ _____
5	10 - 16" x 1" saddle w/1" cc tapered thread tap for 16" concrete pipe complete with band	\$ _____
6	4 - 16" saddle w/1-1/2" cc tapered thread tap for 16" concrete pipe complete with band	\$ _____
7	4 - 24" saddle w/1-1/2" cc tapered thread tap for 24" concrete pipe complete with band	\$ _____
8	4 - 30" saddle w/1-1/2" cc tapered thread tap for 30" concrete pipe complete with band	\$ _____
9	4 - 36" saddle w/1-1/2" cc tapered thread tap for 36" concrete pipe complete with band	\$ _____
10	4 - 42" saddle w/1-1/2" cc tapered thread tap for 42" concrete pipe complete with band	\$ _____

Terms _____
 Manufacturer's Name _____
 Delivery _____
 Remarks _____

Pipe & Pipe Fittings
City of Canton Water Department

SERVICE SADDLES - FORD ONLY FC 202 DESIGN - SINGLE BANDED - STAINLESS STEEL - EPOXY COATED - WITH AWWA TAPER THREAD OR EQUAL F.O.B. CANTON, OHIO

<u>Items</u>	<u>Estimated Quantity and Size</u>	<u>Ford</u>	<u>Each</u>
1	25 - 4" x 1-1/2" service saddle	FC202-5.26-CC6	\$ _____
2	25 - 4" x 1" service saddle	FC202-5.26-CC6	\$ _____
3	25 - 6" x 1-1/2" service saddle	FC202-7.60-CC6	\$ _____
4	25 - 6" x 1" service saddle	FC202-7.60-CC6	\$ _____
5	20 - 8" x 1-1/2" service saddle	FC202-9.79-CC6	\$ _____
6	20 - 8" x 1" service saddle	FC202-9.79-CC6	\$ _____
7	10 - 10" x 1-1/2" service saddle	FC202-12.12-CC6	\$ _____
8	10 - 10" x 1" service saddle	FC202-12.12-CC6	\$ _____
9	20 - 12" x 1-1/2" service saddle	FC202-14.38-CC6	\$ _____
10	20 - 12" x 1" service saddle	FC202-14.38-CC6	\$ _____
11	10 - 16" x 1-1/2" service saddle	FC202-18.40-CC6	\$ _____
12	10 - 16" x 1" service saddle	FC202-18.40-CC6	\$ _____
13	4 - 18" x 1-1/2" service saddle	FC202-20.50-CC6	\$ _____
14	4 - 20" x 1-1/2" service saddle	FC202-22.20-CC6	\$ _____
15	4 - 24" x 1-1/2" service saddle	FC202-26.50-CC6	\$ _____

Terms _____

Manufacturer's Name _____

Delivery _____

Remarks _____

**Pipe & Pipe Fittings
City of Canton Water Department**

BIDDER'S CHECKLIST

A complete bid packet will consist of the items listed below.

Complete this checklist to confirm the items required in your bid. Place a checkmark or "X" next to each item that you are submitting to the City of Canton. Failure to submit the listed documents may be cause for rejection of your bid. This checklist should be returned with your proposal.

- _____ Cover Sheet (Page 1)
- _____ Legal Notice/Information (Pages 2-3)
- _____ Specifications (Pages 4-6)
- _____ Proposal Pages (Pages 7-56)
- _____ Bidder's Checklist (Page 57)
- _____ Bid Check (Certified or Cashier's) or Bid Bond (Page 58)
- _____ Bidder Information/Signature Pages (Pages 59-61)
- _____ Insurance Requirements (if applicable) (Pages 62-63)
- _____ Additional Requirements, Information, and Considerations (Pages 64-67)
- _____ EEO Forms (Pages 68-72)

**Pipe & Pipe Fittings
City of Canton Water Department**

INSERT BID GUARANTY HERE (Original Copy Required)

If a Bid Bond is supplied, the Ohio Statutory Bid Guaranty and Contract Bond, as set forth in ORC 153.571 is to be used.

**Pipe & Pipe Fittings
City of Canton Water Department**

Bidder Information Page 2 of 3

2. Form of Business Organization.

____ Corporation

____ Partnership

____ Other (Please specify: _____)

3. The bidder shall provide the names and addresses of all persons interested as principals (officers, partners, and associates) in this proposal. Write first name in full, and give titles for offices.

_____	_____
_____	_____
_____	_____
_____	_____

All of the above, including the signatory to this bid, are citizens of the United States, except the following. (Provide names and addresses of those not a citizen of the United States.)

_____	_____
_____	_____
_____	_____
_____	_____

4. Name and address of other person, firms or companies interested in this contract.

_____	_____
_____	_____
_____	_____
_____	_____

**Pipe & Pipe Fittings
City of Canton Water Department**

Bidder Information Page 3 of 3

The undersigned certifies that the bidder has the facilities, ability and financial resources available for the fulfillment of the contract if such be awarded to said bidder.

Upon request, the bidder will be expected to amplify the foregoing statements as necessary to satisfy the OWNER concerning his ability to successfully perform the work in a satisfactory manner.

Signed this _____ day of _____, 20 _____.

Contractor

By _____
(Signature of individual, partner or officer signing the proposal.)

Please have this page Notarized

**Pipe & Pipe Fittings
City of Canton Water Department**

INSURANCE

The following standard indemnity agreement and minimum insurance requirements are incorporated in the Specifications for all work performed by the Contractor for the Owner, its affiliated and associated organizations or subsidiaries, hereinafter referred to as Owner.

- I. The Contractor agrees to indemnify and save the Owner harmless from and against any and all costs, loss and expense, liability damages, or claims for damages, including cost for defending any action, on account of any injury to persons (including death) or damage to or destruction of property of the Owner, arising or resulting from the work provided for or performed, or from any act, omission, or negligence of the Contractor, Subcontractor and his or their agents or employees. The foregoing provisions shall in no way be deemed released, waived or modified in any respect by reason of any insurance or surety provided by the Contractor.

- II. The Contractor shall maintain liability insurance and furnish the Service Director with Certificates of Insurance as evidence thereof in the prescribed form. If any work provided for or to be performed under any Specifications is sublet (as otherwise permitted by the terms of such Specifications), the Contractor shall require the sub-contractors to maintain and furnish him with satisfactory evidence of Workmen's Compensation, Employer's Liability and such other forms and amounts of insurance which Contractor deems reasonably adequate.

- III. In accordance with Item II, the Contractor shall maintain the following insurance:
 1. Workmen's Compensation and Employer's Liability Insurance affording,
 - a. Protection under the Workmen's Compensation Law in the State of Ohio.
 - b. Employer's Liability protection subject to a minimum limit of \$100,000.00.

 2. General Liability Insurance in amounts not less than:

a. General Aggregate Limit	\$2,000,000.00
b. Personal and Advertising Injury Limit	\$1,000,000.00
c. Each Occurrence Limit	\$1,000,000.00
d. Fire Damage	\$ 50,000.00
e. Medical Expense Limit	\$ 5,000.00

This insurance shall:

- a. include coverage for the liability assumed by Contractor under Item I (Indemnity);

**Pipe & Pipe Fittings
City of Canton Water Department**

- b. and the Certificates of Insurance furnished by the Contractor shall show by specific reference that each of the foregoing items have been provided for.
- 3. Comprehensive Automobile Liability Insurance in the following minimum amounts:
 - a. Bodily Injury and Property Damage
any one accident or loss: \$1,000,000.00

Further, the policy required under this section shall NAME THE CITY OF CANTON “AS AN ADDITIONALLY NAMED INSURED” and shall contain an endorsement by the insurance carrier providing ten (10) days notice to both the City and insured in the event of any change in coverage under the policy. No less than ten (10) days advance notice of cancellation of the insurance policy shall be given to the City by the insurer. A copy of the foregoing policy shall be filed with the Director of Public Service.

**Pipe & Pipe Fittings
City of Canton Water Department**

PLEASE READ CAREFULLY

PLEASE BE ADVISED THAT BY SUBMITTING YOUR BID(S) TO THE CITY OF CANTON, THE CITY WILL ASSUME THAT AN AUTHORIZED REPRESENTATIVE OF YOUR COMPANY REVIEWED SAID BID(S) TO ASSURE THAT THE BID(S) IS/ARE CORRECT AND/OR ACCURATE.

ANY BIDDER MAY WITHDRAW THE BID(S), BY WRITTEN REQUEST, AT ANY TIME PRIOR TO THE HOUR SET FOR THE BID OPENING.

IF THERE IS NO WITHDRAWAL OF THE BID(S), IN ACCORDANCE WITH THE ABOVE PROCEDURE, THE CITY RESERVES THE RIGHT TO ENFORCE SAID BID PRICE(S) AND/OR CONTRACT.

ALTERNATE OR OPTIONAL BIDS

IF YOU SUBMIT AN ALTERNATE OR OPTIONAL BID THAT MEETS OR EXCEEDS SPECIFICATIONS, SAID BID WILL BE CONSIDERED IN THE EVALUATION AND/OR AWARD. HOWEVER, REMEMBER THAT THE BOARD OF CONTROL RESERVES THE RIGHT TO AWARD THAT BID WHICH IS IN THE BEST INTEREST OF THE CITY.

ARTICLES OF INCORPORATION

UNLESS THE BIDDER SUBMITS, WITH ITS BID, THE "ARTICLES OF INCORPORATION" SHOWING EXACTLY WHAT NAME YOU ARE INCORPORATED UNDER WITH THE STATE OF OHIO, CANTON MAY REQUEST THE BIDDER PROVIDE THIS INFORMATION.

THE ARTICLES OF INCORPORATION ARE THE DOCUMENTS FILED WITH THE STATE (OHIO OR OTHERWISE) CREATING THE CORPORATE ENTITY.

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SUPPLEMENTARY GENERAL CONDITIONS

CANTON INCOME TAX

Each bidder, by the act of submitting its bid agrees to withhold all City Income Taxes due or payable under Chapter 181 of the Codified Ordinances of the City of Canton for wages, salaries, fees and commissions paid to its employees and further agrees that any of its subcontractors shall be required to agree to withhold any such City Income Taxes due for service performed under this contract.

Furthermore, any person, firm, or agency that has a contract or agreement with the City shall be subject to the City Income Tax whether the work being done is in the City or out of the City. In addition to the tax withheld for employees, the net profit on the contract shall be subject to City Income Tax.

Questions regarding this matter shall be directed to the City of Canton, Income Tax Department at 330-430-7900.

CITY OF CANTON CODIFIED ORDINANCES

Bidders shall take notice that they are to comply with the Codified Ordinances of the City of Canton, including but not limited, to the following:

- 1. Section 105.03 – U.S. steel usage required; exception.**
All City contracts shall stipulate or provide that all steel necessary in the construction of any work performed under such contracts shall be steel that is produced in the United States unless a specific product which is required is not produced by manufacturers in the United States in which event this prohibition does not apply. This section shall apply to only contracts awarded by the Board of Control of the City. (Ord. 224-77. Passed 6-27-77.)
- 2. Section 105.05 – Materials to be purchased locally.**
In all future contracts for the construction of buildings, structures, or other improvements under the Capital Improvement Budget, the following clause shall be printed or typewritten on each contract:
It is the desire of the City of Canton that all materials used in the construction covered by this contract shall be purchased in the Canton area except such materials which are unavailable in the Canton area. (Res. 49-77. Passed 2-7-77.)
- 3. Section 105.06 – Minority Contract Provision.**
(a) All contracts with the City shall include the following clause:
The bidder agrees to expend at least \$_____ of the Contract in the event the contract is awarded to such bidder for minority/women's business enterprises. For purposes of this pledge, the term "minority/women's business enterprise" means a bona fide business established as a sole proprietorship, partnership or corporation owned, operated and controlled by one or more minority persons or

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women who have at least fifty-one percent (51%) ownership. "Minority" includes African Americans, Asian/Pacific Islanders, Hispanic/Latino Americans and Native American Indians. The minority or woman must have operational and managerial control, interest in capital, and earnings commensurate with the percentage of ownership. Minority/women's business enterprises may be employed as construction contractors, subcontractors, vendors or suppliers. (Ord.185-2011. Passed 10-31-11.)

4. Section 105.12 – Local Bidder Preference.

(a) The Board of Control, in determining the lowest and best bidder in the award of contracts, is authorized to award contracts to local bidders as hereinafter defined, whose bid is not more than ten percent (10%) higher, subject to a maximum amount of one hundred thousand dollars (\$100,000.00), than the lowest dollar bid submitted by non-local bidders, provided that the project bid does not exceed ten percent (10%) of the engineer's estimate. The Board of Control's decision in making such an award shall be final. (Ord. 86-2009. Passed 5-18-09.)

(b) For purposes of this section, "local bidder" means an individual or business entity which at the time of the award of the contract:

- (1) Is a resident of the City and/or has its principal place of business in the City; and
- (2) Which has filed a City of Canton "Resident" Income Tax Return for the past two tax years.

(c) All contract specifications and/or bid documents that are distributed by Canton for the purpose of soliciting bids for goods and/or services shall contain the following notice:

Prospective bidders will take notice that the City of Canton, in determining the lowest and best bidder in the award of this contract, may award a local bidder preference to any qualified bidder pursuant to Section [105.12](#) of the Codified Ordinances of the City of Canton. The determination of whether a bidder qualifies for the local preference shall be made by Board of Control. The Board's decision shall be final. A copy of City Code Section [105.12](#) is attached.

(Ord.112-97. Passed 6-2-97.)

(d) This section shall be applicable to all contracts for the purchase of material, equipment, supplies or services, which are purchased, leased or constructed at a cost in excess of twenty thousand dollars (\$20,000) and which require bidding pursuant to Ohio R.C. 735.05 through 735.09 and Ohio R.C. 737.03. (Ord. 112-97. Passed 6-2-97; Ord. 52-99. Passed 3-29-99; Ord. 240-2005. Passed 11-21-05.)

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PLEASE FILL OUT THIS FORM AND RETURN PROMPTLY TO THE ADDRESS BELOW

BIDDER AND CONTRACTOR EMPLOYMENT PRACTICES REPORT

Minority Coordinator
218 Cleveland Avenue SW
Canton, Ohio 44702

I. INSTRUCTIONS

- A. **EQUAL EMPLOYMENT OPPORTUNITY REQUIREMENT:** This form is designed to provide an evaluation of your policies and practices relating to the extension of equal employment opportunity to all persons without regard to race, religion, color, sex or national origin.

Ordinance No. 179-74 of the City of Canton and the rules and regulations pursuant thereto provide for a contract compliance inspection of personnel policies and practices related to any contract with the City including contracts for work, labor, services, supplies, equipment, materials, leases, concession agreements, and permits.

- B. **CONTRACTOR AND BIDDER PERFORMANCE:** Completion of this Contractor and Bidder Employment Practices Report is one of the steps which demonstrates compliance with the City's Equal Employment Opportunity Program. Responsibility for demonstrating compliance with the Program by the contractor and his subcontractors rests with the contractor or subcontractor. Such demonstration is a prerequisite for continued eligibility for bidding on city contracts, or for continuing in contract with the City.

II. CONTRACTOR AND BIDDER INFORMATION

1. REPORTING STATUS <input type="checkbox"/> a. Prime Contractor <input type="checkbox"/> b. Prime Subcontractor <input type="checkbox"/> c. Supplier <input type="checkbox"/> d. Other (Specify)
2. NAME, ADDRESS AND TELEPHONE NUMBER OF BIDDER COVERED BY THIS REPORT
3. NAME, ADDRESS AND TELEPHONE NUMBER OF PRINCIPAL OFFICIAL OR MANAGER OF BIDDER
4. NAME, ADDRESS AND TELEPHONE NUMBER OF PRINCIPAL OFFICE OF BIDDER
5. CONTRACTING CITY AGENCY (OR AGENCIES)
6. SIGNATURE AND TITLE OF AUTHORIZED EQUAL EMPLOYMENT OPPORTUNITY REPRESENTATIVE DATE

EVALUATION (level blank)

Compliance

Non-Compliance

Follow-up _____

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III. POLICIES AND PRACTICES

The bidder and the Contractor will indicate his willingness or unwillingness to comply with the requirements of the Equal Employment Opportunity Program of the City of Canton by encircling the appropriate or applicable letter to the left of each item below. The letters are to be interpreted as follows:

- A - This is now a practice of the Company.
- B - The Company will adopt this policy.
- C - The Company cannot or will not adopt this policy. (If "C" is circled, state reason. Use separate sheet if additional space is needed.)

It is understood that the Company's willingness to participate in the Equal Employment Opportunity Program will be evaluated by the Office of Directors of Contract Compliance. This evaluation will directly influence our decision on the qualifications of each bidder and contractor, and is an integral part of your bid.

CIRCLE ONE	ITEMS	STATE REASON IF (C) IS CIRCLED
A B C	1. The Company will adopt a policy of non-discrimination on the basis of race, religion, color, sex, or national origin with regard to recruitment, hiring, training, upgrading, promotion and discipline of employees or applicants for employment.	
A B C	2. The Company will develop procedures which will assure that this policy is understood and carried out by managerial, administrative, supervisory personnel.	
A B C	3. The Company will state its non-discriminatory policy in writing and communicate it to the following: a. All employees d. All relevant employee organizations including labor unions b. All recruitment sources c. All subcontractors	
A B C	4. The Company will use recruitment sources such as employment agencies, unions, and schools which have a policy of referring applicants on a non-discriminatory basis.	
A B C	5. The Company will participate in training programs for the benefit of employees or prospective employees, according to the intent of City Ordinance Number 179-74.	
A B C	6. Company recruiters will seek a broad recruitment base in order that a representative cross-section of applications might be obtained, and will refrain from a hiring policy which limits job applicants to persons recommended by company personnel.	
A B C	7. The Company will take steps to integrate any position, departments, or plant locations which have no minority persons including African Americans or are almost completely staffed with one particular ethnic or racial group.	
A B C	8. The Company will review its qualifications for each job to determine whether such standards eliminate unemployed persons who could, if hired, perform the duties of the job adequately. The following qualifications should be reviewed: a. education c. tests b. experience d. arrest records	
A B C	9. Residence in a particular geographical area will not be a qualifying or disqualifying criterion for employment with the Company.	
A B C	10. The Company will provide that all bargaining agreements with employee organizations, including labor unions, have non-discrimination clauses requiring equal employment opportunity.	

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IV. EMPLOYMENT DATA

Please note that this data may be obtained by visual survey or post-employment records. Neither visual surveys nor post-employment records are prohibited by any Federal, State or local law. All specified data are required to be filled in by law.

JOB CATEGORIES	ALL EMPLOYEES			MINORITY GROUP EMPLOYEES								
	TOTAL MALE & FEMALE	MALE	FEMALE	MALE				FEMALE				
				African American	Asian American	Native American	Hispanic	African American	Asian American	Native American	Hispanic	
Officials, Mgrs and Supervisors												
Professionals												
Technicians												
Part-Time Seasonal												
Office and Clerical												
Craftsmen (Skilled)												
Operatives (Semi-skilled)												
Laborers (Unskilled)												
Service Workers												
TOTAL												
Total employment from previous report (if any)												

REMARKS Use this space to give any identification data appearing on last report which differs from that given above, explain major changes in employment, changes in composition of reporting units, and other pertinent information.

The undersigned certifies that he is legally authorized by the bidder to make the statements and representations contained in this report. That he has read all of the foregoing statements and representations and that they are true and correct to the best of his knowledge and belief. The undersigned, understands that if any of the statements and representations are made knowing them to be false or there is a failure to implement any of the stated intentions or objectives, set forth herein, without prior notice to the Office of Contract Compliance, the bidder will be subject to the loss of all future awards.

FIRM OR CORPORATE NAME _____

DATE OF SIGNING _____

SIGNATURE _____

TITLE _____

SIGNATURE _____

TITLE _____

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V. ADDITIONAL INFORMATION (OPTIONAL)

Describe any other actions taken which show that all employees are recruited, hired, trained, and promoted without regard to their race, religion, color, sex, or national origin. Use separate sheet if additional space is required.

DESCRIPTION OF OCCUPATIONAL CATEGORIES

Officials, managers and supervisors - Occupations requiring administrative personnel who set broad policies, exercise over-all responsibility for execution of these policies, and direct individual departments or special phases of a firm's operations. Includes officials, executives, middle management, plant managers, department managers and superintendents, salaried foremen who are members of management, purchasing agents and buyers, and kindred workers.

Professionals - Occupations requiring either college graduation or experience of such kind and amount as to provide a comparable background. Includes accountants and auditors, airplane pilots and navigators, architects, artists, chemists, designers, dietitians, editors, engineers, lawyers, librarians, mathematicians, natural scientists, physicians, social scientists, teachers, and kindred workers.

Technicians - Occupations requiring a combination of basic scientific knowledge and manual skill which can be obtained through about 2 years of post high school education, such as is offered in many technical institutes and junior colleges, or through equivalent on-the-job training. Includes draftsmen, engineering aids, junior engineers, mathematical aids, nurses, photographers, radio operators, scientific assistants, surveyors, technical illustrators, physicians, (medical, dental, electronic physical sciences), and kindred workers.

Sales workers - Occupations engaging wholly or primarily in direct selling. Includes advertising agents and salesmen, insurance agents and brokers, stock and bond salesmen, demonstrators, salesmen and sales clerks and kindred workers.

Office and clerical - Includes all clerical type work regardless of level of difficulty, where the activities are predominantly nonmanual though some manual work not directly involved with altering or transporting the products is included. Includes bookkeepers, cashiers, collectors (bills and accounts), messengers and office boys, office machine operators, shipping and receiving clerks, stenographers, typists and secretaries, telegraph and telephone operators, and kindred workers.

Craftsmen (Skilled) - Manual workers of relatively high skill level having a thorough and comprehensive knowledge of the processes involved in their work. Exercise considerable independent judgement and usually receive an extensive period of training. Includes the building trades hourly paid foremen and leadmen who are not members of management, mechanics and repairmen, skilled machining occupations, compositors and typesetters, electricians, engravers, job setters (metal), motion picture projectionists, pattern and model makers, stationary engineers, tailors and tailoresses, and kindred workers.

Operatives - (Semi-Skilled) - Workers who operate machine or processing equipment or perform other factory-type duties of intermediate skill level which can be mastered in a few weeks and require only limited training.

Laborers (Unskilled) - Workers in manual occupations which generally require no special training. Perform elementary duties that may be learned in a few days and require no independent judgement. Includes garage laborers, car washers and greasers, gardeners (except farm) and groundskeepers, longshoremen and stevedores, lumbermen, raftsmen and wood choppers, laborers performing lifting, digging, mixing, loading, and pulling operations, and kindred workers.

Service workers - Workers in both protective and nonprotective service occupations. Includes attendants (hospital and other institution, professional and personal service), barbers, charwomen and cleaners, cooks (except household), counter and fountain workers, elevator operators, firemen and fire protection, guards, watchmen, and doorkeepers, stewards, janitors, policemen and detectives, porters, waiters and waitresses, and kindred workers.

Apprentices - Persons employed in a program including work training and related instruction to learn a trade or craft which is traditionally considered an apprenticeship, regardless of whether the program is registered with federal or State agency.

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POLICY STATEMENT

THE CITY OF CANTON, OHIO IN CONFORMANCE WITH LOCAL, STATE, AND FEDERAL REGULATIONS REQUIRE EACH EMPLOYER, CONTRACTOR, AND MATERIAL SUPPLIERS WORKING CITY PROJECTS TO BE SIGNATURES OF THE FOLLOWING STATEMENTS:

1. IT IS THE POLICY OF _____ THAT EQUAL EMPLOYMENT OPPORTUNITY BE AFORDED TO ALL QUALIFIED PERSONS WITHOUT REGARD TO RACE, RELIGION, SEX OR NATIONAL ORIGIN.
2. IN SUPPORT OF THIS DOCUMENT _____ WILL NOT DISCRIMINATE AGAINST ANY EMPLOYEE OR APPLICANT BECAUSE OF RACE, RELIGION, COLOR, SEX OR NATIONAL ORGIN.
3. THE _____ WILL TAKE AFFIRMATIVE ACTION TO INSURE THAT APPLICANTS ARE EMPLOYED AND THAT EMPLOYEES ARE TREATED DURING EMPLOYMENT WITHOUT REGARD TO THEIR RACE, RELIGION, COLOR SEX OR NATIONAL ORIGIN. SUCH ACTION WILL INCLUDE BUT NOT BE LIMITED TO:
RECRUITMENT, ADVERTISING OR SOLICITATION FOR EMPLOYMENT, HIRING, PLACEMENT, UPGRADING, TRANSFER OR DEMOTION, SELECTION FOR TRAINING INCLUDING APPRENTICESHIP RATES OF PAY OR OTHER FORMS OF COMPENSATION, LAYOFFS OR TERMINATION.
4. THE OF _____ WILL MAKE EVERY EFFORT TO COMPLY WITH MINORITY UTILIZATION GOALS AS FOLLOWS: (9%) NINE PERCENT MINORITIES IN WORKFORCE ON THIS JOB, (6.9%) SIX POINT NINE PERCENT FEMALE UTILIZATION ON THIS JOB, (10%) TEN PERCENT OF CONTRACT AMOUNT EXPENDED WITH MINORITY BUSINESS ENTERPRISES.
5. THE OF _____ SHALL REQUIRE EACH SUB-CONTRACTOR WE HIRE ON THIS PROJECT TO ADHERE TO, SIGN, AND RETURN THIS STATEMENT TO THE CITY.

(Date)

(Name of Company)

(Signature and Title of Company Officer)