

GROUP WS-1

Proposal for Furnishing
WATER & SEWER LINE SUPPLIES

City Manager, Honorable Mayor and City Council
City of D'Iberville
P.O. Box 6519
D'Iberville, MS 39540

City Manager, Mayor and Council Members:

Pursuant to your advertisement, we do hereby submit this, our proposal for furnishing Water and Sewer Line supplies in accordance with the specifications listed below, for a period of eleven months, beginning November 1, 2007 and reserving the right to request an extension of contract for a second term of twelve months, which is as follows:

I. Municipal service tubing

Copper tube size OD ASTM D-2737-SDR9 (PE3408) Drisco pipe or equal

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|----|------|------------|-----------------|
| 1. | ¾" | brand_____ | \$_____per foot |
| 2. | 1" | brand_____ | \$_____per foot |
| 3. | 1 ¼" | brand_____ | \$_____per foot |
| 4. | 1 ½" | brand_____ | \$_____per foot |
| 5. | 2" | brand_____ | \$_____per foot |

II. PVC Pressure Pipe

All PVC pressure pipe to conform to the following or latest specifications.

Polyvinyl chloride (PVC) pipe conforming to AWWA C-900, Class 150, SDR-18. Pipe shall be made to cast iron AWWA. Each length of pipe shall be stamped with approval of the National Sanitation Foundation and Underwriters Laboratories, Inc. for transporting potable water. At least 85 percent of pipe shall be in standard 20-foot lengths. Remaining random lengths shall not be less than 10 feet long. Pipe couplings or joints shall be an integral part of the pipe barrel. It shall consist of an expanded bell with groove to retain a rubber sealing ring conforming to the requirements of AWWA C-111.

or

Molecularly oriented polyvinyl chloride (PVCO) pipe, Ultrablue, conforming to ASTM standards F483, D1784, D2241, D3139, and D2774 and also designed using the same criteria as AWWA C900 for class 150 pipe. Pipe shall be made to cast iron OD's and each length shall be stamped with the approval of the national sanitation foundation and underwriters laboratories, inc., for transporting potable water. Pipe couplings shall be an integral part of the pipe barrel, consisting of an expanded bell with a factory-installed retained rubber sealing ring designed to avoid rolling of the ring during pipe joint assembly.

Bid price per foot of lying length excluding spigot end inside bell. Bid price to include all necessary gaskets and gasket lubricant.

All PVC pressure pipe is to be as slip joint pipe.

1. 4" brand _____ \$ _____ per linear ft.
 2. 6" brand _____ \$ _____ per linear ft.
 3. 8" brand _____ \$ _____ per linear ft.
 4. 10" brand _____ \$ _____ per linear ft.
 5. 12" brand _____ \$ _____ per linear ft.
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III. PVC sewer fittings SDR35 glue type

1. 6" sleeve brand _____ \$ _____ ea
2. 6" with a 1/16" bend 22.5° brand _____ \$ _____ ea
3. 6" with a 1/8" bend 45° brand _____ \$ _____ ea
4. 6" with a 1/4" bend 90° brand _____ \$ _____ ea
5. 6" bell cap brand _____ \$ _____ ea
6. 6"x 6" line WYE brand _____ \$ _____ ea
7. 8"x 6" line WYE brand _____ \$ _____ ea
8. 8"x 6" saddle WYE brand _____ \$ _____ ea
9. 6"x 6" saddle WYE brand _____ \$ _____ ea
10. 6" spigot caps brand _____ \$ _____ ea
11. 8" sleeves brand _____ \$ _____ ea
12. 6"x 4" reducers brand _____ \$ _____ ea
13. 8"x 6" reducers brand _____ \$ _____ ea

IV. Ductile iron pressure main

Ductile iron pipe

All ductile iron pipes will meet the latest edition of the following guidelines/specifications:

- ANSI/AWWA C151/A21.51 minimum thickness
- AWWA - C151 grade 60-42-10 4" class 54
- ANSI/AWWA - C104/A21.4 6" class 53
- 8" class 52
- 10" class 52
- 12" class 52

Bid price per foot of laying length excluding spigot end inside of bell. Bid price to include necessary gaskets and gasket lubricant.

1. 4" mechanical joint brand_____ \$_____per linear ft.
 2. 6" mechanical joint brand_____ \$_____per linear ft.
 3. 8" mechanical joint brand_____ \$_____per linear ft.
 4. 10" mechanical joint brand_____ \$_____per linear ft.
 5. 12" mechanical joint brand_____ \$_____per linear ft.
 6. 18" mechanical joint brand_____ \$_____per linear ft.
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V. PVC sewer pipe

All PVC sanitary sewer pipe will comply with the latest edition of the following guidelines/specifications:

- ASTM - D3034
- SDR - 35

All pipe bids to be per linear foot bid price including gaskets and gasket lubricant.

1. 4" brand_____ \$_____per linear ft.
 2. 6" brand_____ \$_____per linear ft.
 3. 8" brand_____ \$_____per linear ft.
 4. 10" brand_____ \$_____per linear ft.
 - 5 12" brand_____ \$_____per linear ft.
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VI. Ductile iron fittings - without flanges

All ductile iron fittings will comply with the latest edition of the following guidelines/specifications:

- ANSI / AWWA C153 / A21.53-84

All ductile iron fitting bids will include necessary bolts and rubber gaskets. Not to include regulation glands.

Tee (all tees to have bell on each of three ends)

1.	4 x 4" MJ	brand_____	\$_____	ea
2.	6 x 4" MJ	brand_____	\$_____	ea
3.	6 x 6" MJ	brand_____	\$_____	ea
4.	8 x 4" MJ	brand_____	\$_____	ea
5.	8 x 6" MJ	brand_____	\$_____	ea
6.	8 x 8" MJ	brand_____	\$_____	ea
7.	10 x 4" MJ	brand_____	\$_____	ea
8.	10 x 6" MJ	brand_____	\$_____	ea
9.	10 x 8" MJ	brand_____	\$_____	ea
10.	10 x 10" MJ	brand_____	\$_____	ea
11.	12 x 12" MJ	brand_____	\$_____	ea
12.	12 x 4" MJ	brand_____	\$_____	ea
13.	12 x 6" MJ	brand_____	\$_____	ea
14.	12 x 8" MJ	brand_____	\$_____	ea
15.	12 x 10" MJ	brand_____	\$_____	ea

Bends: 22 1/2° bends; bell on each end

16. 4" MJ brand _____ \$ _____ ea
17. 6" MJ brand _____ \$ _____ ea
18. 8" MJ brand _____ \$ _____ ea
19. 10" MJ brand _____ \$ _____ ea
20. 12" MJ brand _____ \$ _____ ea
-

Bends: 45° bends; bell on each end

21. 4" MJ brand _____ \$ _____ ea
22. 6" MJ brand _____ \$ _____ ea
23. 8" MJ brand _____ \$ _____ ea
24. 10" MJ brand _____ \$ _____ ea
25. 12" MJ brand _____ \$ _____ ea
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Bends: 90° degree bends; bell on each end

26. 4" MJ brand _____ \$ _____ ea
27. 6" MJ brand _____ \$ _____ ea
28. 8" MJ brand _____ \$ _____ ea
29. 10" MJ brand _____ \$ _____ ea
30. 12" MJ brand _____ \$ _____ ea
-

Crosses: bell on each of four ends

31. 4 x 4" brand _____ \$ _____ ea
32. 6 x 4" brand _____ \$ _____ ea
33. 6 x 6" brand _____ \$ _____ ea
34. 8 x 6" brand _____ \$ _____ ea
35. 8 x 8" brand _____ \$ _____ ea
-

WYES: bell on each of three ends

36. 4" MJ brand _____ \$ _____ ea

37. 6" MJ brand _____ \$ _____ ea

Reducers: spigot on each of 2 ends

38. 6 x 4" MJ brand _____ \$ _____ ea

39. 8 x 4" MJ brand _____ \$ _____ ea

40. 8 x 6" MJ brand _____ \$ _____ ea

41. 10 x 4" MJ brand _____ \$ _____ ea

42. 10 x 6" MJ brand _____ \$ _____ ea

43. 10 x 8" MJ brand _____ \$ _____ ea

44. 12 x 6" MJ brand _____ \$ _____ ea

45. 12 x 8" MJ brand _____ \$ _____ ea

46. 12 x 10" MJ brand _____ \$ _____ ea

Reducers: spigot on one end; bell on one end

47. 6 x 4" MJ brand _____ \$ _____ ea

48. 8 x 4" MJ brand _____ \$ _____ ea

49. 8 x 6" MJ brand _____ \$ _____ ea

50. 10 x 4" MJ brand _____ \$ _____ ea

51. 10 x 6" MJ brand _____ \$ _____ ea

52. 10 x 8" MJ brand _____ \$ _____ ea

53. 12 x 6" MJ brand _____ \$ _____ ea

54. 12 x 8" MJ brand _____ \$ _____ ea

55. 12 x 10" MJ brand _____ \$ _____ ea

Reducers: bell on each of two ends

- 56. 6 x 4" MJ brand _____ \$ _____ ea
- 57. 8 x 4" MJ brand _____ \$ _____ ea
- 58. 8 x 6" MJ brand _____ \$ _____ ea
- 59. 10 x 4" MJ brand _____ \$ _____ ea
- 60. 10 x 6" MJ brand _____ \$ _____ ea
- 61. 10 x 8" MJ brand _____ \$ _____ ea
- 62. 12 x 6" MJ brand _____ \$ _____ ea
- 63. 12 x 8" MJ brand _____ \$ _____ ea
- 64. 12 x 10" MJ brand _____ \$ _____ ea

Retaining glands with required bolts.

Mechanical joint and ductile iron retainer glands used to restrain mechanical joint pipe valves and fittings.

The mechanical joint restraint shall be designed to fit standard mechanical joint bells with standard T-head bolts conforming to current edition of ANSI / AWWA C 111/A21.11 and ANSI / AWWA C153 A21.53.

Glands shall be manufactured of ductile iron conforming to ASTM A536.80 grade 60 42 10; set-screws shall be of hardened ductile iron and require the same torque in all sizes. Steel set-screws are not permitted.

These devices shall have the stated pressure rating with a minimum safety factor of 2:1.

Nominal pipe size	4
Series number	1204
Shipping weight	4.50
Number of set screws	4-5/8 x 2
Working pressure	350
Torque on set screws	70
M dimension	0.75
K2 dimension	9.12
J dimension	7.50
F dimension	4.90
No of bolts	4

Nominal pipe size	6
Series number	1206
Shipping weight	7.75
Number of set screws	6-5/8 x 2
Working pressure	350
Torque on set screws	70
M dimension	0.88
K2 dimension	11.12
J dimension	9.50
F dimension	7.00
No of bolts	6

Nominal pipe size	8
Series number	1208
Shipping weight	10.25
Number of set screws	9-5/8 x 2
Working pressure	250
Torque on set screws	70
M dimension	1.00
K2 dimension	13.37
J dimension	11.75
F dimension	9.15
No of bolts	6

Nominal pipe size	10
Series number	1210
Shipping weight	13.75
Number of set screws	12-5/8 x 2
Working pressure	250
Torque on set screws	70
M dimension	1.00
K2 dimension	15.62
J dimension	14.00
F dimension	11.20
No of bolts	8

Nominal pipe size	12
Series number	1212
Shipping weight	17.75
Number of set screws	16-5/8 x 2
Working pressure	250
Torque on set screws	70
M dimension	1.00
K2 dimension	17.88
J dimension	16.25
F dimension	13.30
No of bolts	8

Retaining Glands

65.	4" MJ	brand_____	\$_____	ea
66.	6" MJ	brand_____	\$_____	ea
67.	8" MJ	brand_____	\$_____	ea
68.	10" MJ	brand_____	\$_____	ea
69.	12" MJ	brand_____	\$_____	ea

Solid sleeves: bell on each of two ends

70.	4" MJ -12" long	brand_____	\$_____	ea
71.	6" MJ -12" long	brand_____	\$_____	ea
72.	8" MJ -12" long	brand_____	\$_____	ea
73.	10" MJ - 12" long	brand_____	\$_____	ea
74.	12" MJ - 12" long	brand_____	\$_____	ea

Blank plug with 2" tap in it, pipe threads

75.	4" MJ	brand_____	\$_____	ea
76.	6" MJ	brand_____	\$_____	ea
77.	8" MJ	brand_____	\$_____	ea
78.	10" MJ	brand_____	\$_____	ea
79.	12" MJ	brand_____	\$_____	ea

Cast iron flange to MJ Sleeve

80.	4"	brand_____	\$_____	ea
81.	6"	brand_____	\$_____	ea
82.	8"	brand_____	\$_____	ea
83.	4" MJ To 3" flange	brand_____	\$_____	ea

Cast iron companion flange - Union

84. 6" – 8 hole brand _____ \$ _____ ea

VII. Bolts and gaskets

Bolts

1. MJ lock bolts brand _____ \$ _____ per 100

2. MJ regular bolts brand _____ \$ _____ per 100

MJ gaskets

3. 4" brand _____ \$ _____ per 50

4. 6" brand _____ \$ _____ per 50

5. 8" brand _____ \$ _____ per 50

6. 10" brand _____ \$ _____ per 50

7. 12" brand _____ \$ _____ per 50

VIII. Gate valves & appurtenances

All gate valves will meet the following specifications:

2" through 24"

1. All valves will meet or exceed all requirements of AWWA C-509 standards, latest edition.
2. All valves will be electro-statically, fusion bonded epoxy coated, minimum 8-mil thickness inside and out, conforming to ANSI/AWWA C550-01 standards, latest edition.
3. Resilient wedge to be ductile iron fully encapsulated wedge design including glide path and shall be NSF-61 approved for potable water.
4. Valve stem material will be stainless steel, Type 400 series, or bronze alloy with minimum strength of 40,000 psi without heat treatment.
5. Valves will have two upper o-ring seals on the stem above the thrust collar and at least one o-ring seal below the collar so designed to allow for replacement of the upper o-rings with the valve under full operating pressure.
6. All exterior fasteners including bonnet, gland flange and operation nut shall be Type 304 stainless steel.

7. All valves will be capable of a 250 psig working pressure and will be hydrostatically pressure tested to 500 psig in compliance with AWWA C-509 prior to shipment and will be covered by a manufacturers ten year warranty from the date of purchase by the end user.
 8. All valves will have a 2" ductile iron wrench nut with direction of valve operation clearly visible.
 9. All valves are to be open left (counter clockwise) unless specifically indicated otherwise.
 10. Tapping valves shall have centering ring cast onto the flanged outlet to ensure proper alignment and a mechanical joint outlet conforming to ANSI B16.1, CLASS 125, AND ANSI/AWWA C111/A21.11. Flanged outlets are not an acceptable substitute for tapping purposes.
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"Gate valves - 3" thru 48" - for water and other liquids".

Mechanical joint gate valve

- | | | | | |
|----|---|------------|---------|----|
| 1. | 3" Mueller or M & H
or equal | brand_____ | \$_____ | ea |
| 2. | 4" Mueller a2380-20 or
M & H 67-01 or equal | brand_____ | \$_____ | ea |
| 3. | 6" Mueller A2380-20 or
M & H 67-01 or equal | brand_____ | \$_____ | ea |
| 4. | 8" Mueller A2380-20 or
M & H 67-01 or equal | brand_____ | \$_____ | ea |
| 5. | 10" Mueller A2380-20 or
M & H 67-01 or equal | brand_____ | \$_____ | ea |
| 6. | 12" Mueller A2380-20 or
M & H 67-01 or equal | brand_____ | \$_____ | ea |
-

Tapping gate valve

- | | | | | |
|----|--|------------|---------|----|
| 7. | 4" Mueller H667 or
M & H 751 or equal | brand_____ | \$_____ | ea |
| 8. | 6" Mueller H667 or
M & H 751 or equal | brand_____ | \$_____ | ea |
| 9. | 8" Mueller H667 or
M & H 751 or equal | brand_____ | \$_____ | ea |

10. 10" Mueller H667 or
M & H 751 or equal brand_____ \$_____ ea
11. 12" Mueller H667 or
M & H 751 or equal brand_____ \$_____ ea

Tapping sleeves:

Material specifications

Body - ASTM 285 Grade C.

Bolts - corrosion resistant, high strength low-alloy AWWA C-111, ANSI A 21.11.

Flange - AWWA C207 class D, ANSI 150 lb. drilling, recessed for tapping valve MSS-SP 60.

Gasket - compounded for use with water, salt solutions, mild acids, bases and natural gas.

Finish - heavy coat of corrosion resistant metal primer.

Service rating - 4" to 12" outlets: 250 psi.

12. 4 x 4" JCM 412 or equal brand_____ \$_____ ea
13. 6 x 4" JCM 412 or equal brand_____ \$_____ ea
14. 6 x 6" JCM 412 or equal brand_____ \$_____ ea
15. 8 x 4" JCM 412 or equal brand_____ \$_____ ea
16. 8 x 6" JCM 412 or equal brand_____ \$_____ ea
17. 8 x 8" JCM 412 or equal brand_____ \$_____ ea
18. 10 x 4" JCM 412 or equal brand_____ \$_____ ea
19. 10 x 6" JCM 412 or equal brand_____ \$_____ ea
20. 10 x 8" JCM 412 or equal brand_____ \$_____ ea
21. 12 x 4" JCM 412 or equal brand_____ \$_____ ea
22. 12 x 6" JCM 412 or equal brand_____ \$_____ ea
23. 12 x 8" JCM 412 or equal brand_____ \$_____ ea
24. 12 x 10" JCM 412 or equal brand_____ \$_____ ea

IX. Sewer check valves (spring & lever) Mueller or equal bronze flapper flange to flange

- | | | | | |
|----|-----------------------|------------|---------|----|
| 1. | 7/8" shaft hinged pin | brand_____ | \$_____ | ea |
| 2. | 1" shaft hinged pin | brand_____ | \$_____ | ea |
-

X. Inserta-valve only manufactured by hydra-stop

- | | | | | |
|----|----|------------|---------|----|
| 1. | 4" | brand_____ | \$_____ | ea |
| 2. | 6" | brand_____ | \$_____ | ea |
| 3. | 8" | brand_____ | \$_____ | ea |
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XI. Double check backflow preventors

All double check backflow preventors will have ANSI, ASSE approved 1024-1985 stamped or attached to the body of the backflow preventors.

Meter nipple built in

- | | | | | |
|----|--------|------------|---------|----|
| 1. | 3/4" | brand_____ | \$_____ | ea |
| 2. | 1" | brand_____ | \$_____ | ea |
| 3. | 1 1/2" | brand_____ | \$_____ | ea |
| 4. | 2" | brand_____ | \$_____ | ea |
-

Without meter nipple

- | | | | | |
|----|------|------------|---------|----|
| 1. | 3/4" | brand_____ | \$_____ | ea |
| 2. | 1" | brand_____ | \$_____ | ea |
| 3. | 1/2" | brand_____ | \$_____ | ea |
| 4. | 2" | brand_____ | \$_____ | ea |
| 5. | 3" | brand_____ | \$_____ | ea |
| 6. | 4" | brand_____ | \$_____ | ea |
| 7. | 6" | brand_____ | \$_____ | ea |
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XII. Bronze water service fittings AWWA C-800

All component parts, body, key, washer, nut, and tube nut shall have same metal analysis. (MCC)

1. 3/4" MCC corp. stop (Mueller thread) brand_____ \$_____ ea
 2. 1" MCC corp. stop (Mueller thread) brand_____ \$_____ ea
 3. 3/4" Mueller H-15008 or Ford F1000
or equal (male thread to compression) brand_____ \$_____ ea
 4. 1" Mueller H-15008 or Ford F1000
or equal (male thread to compression) brand_____ \$_____ ea
 5. 1 x 3/4" Mueller H-15343 or Ford 144-243 WYE
connection or equal
(compression to compression) brand_____ \$_____ ea
-

XIII. Bronze gate valves (1/2" - 3" diameter)

125 lb. Steam rated valve

200 wog -

Brands - Grinnell, Crane, or Stockham only (no substitutes)

Minimum 85 bronze

All bronze gate valves shall meet material and design specifications of federal specification number WWV-54D, Class A.

All bronze gate valve bids are to be a bid price per each delivered to F.O.B. Department of Public Works. With and without accessories (gaskets & bolts).

1. 3/4' diameter bronze gate valve brand_____ \$_____ ea
 2. 1" diameter bronze gate valve brand_____ \$_____ ea
 3. 1 1/4" diameter bronze gate valve brand_____ \$_____ ea
 4. 1 1/2" diameter bronze gate valve brand_____ \$_____ ea
 5. 2" diameter bronze gate valve brand_____ \$_____ ea
 6. 2 1/2" diameter bronze gate valve brand_____ \$_____ ea
 7. 3" diameter bronze gate valve brand_____ \$_____ ea
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Cut off valves (cc) - with lock wing only

1. 3/4" Mueller B-20245 or Ford B11- 333W equal (fip to fip) brand_____ \$_____ea
 2. 1" Mueller B-20200 or Ford B11-444W or equal (fip to fip) brand_____ \$_____ea
 3. 3/4" Mueller H-14348 or Ford B43-332W equal (cts to meter swivel nut) brand_____ \$_____ea
 4. 1" Mueller H-14348 or Ford B43-444W or equal (cts to meter swivel nut) brand_____ \$_____ea
 5. 3/4" x 1" Mueller B-24350 or Ford B43-342W or equal (meter swivel nut to cts) brand_____ \$_____ea
 6. 3/4" Mueller B-24353 or Ford B73-332W or equal (PVC to meter swivel nut) brand_____ \$_____ea
 7. 1" Mueller B-24353 or Ford B47-444W or equal (PVC to meter swivel nut) brand_____ \$_____ea
 8. 3/4" Mueller B-25170 or Ford B41-333W or equal (cts to fip) brand_____ \$_____ea
 9. 1" Mueller B-25170 or Ford B41-444W or equal (cts to fip) brand_____ \$_____ea
 10. 3/4" x 1" Mueller B-25170 or Ford B41-343W or equal (fip to cts) brand_____ \$_____ea
 11. 1 1/4" fip to cts Ford B41-555W or equal brand_____ \$_____ea
 12. 1 1/2" fip to cts Mueller B-25170 or Ford B41-666W brand_____ \$_____ea
 13. 2" fip to cts Mueller B-25170 or Ford B41-777W brand_____ \$_____ea
 14. 1 1/4" fip to fip Ford B11-555W brand_____ \$_____ea
 15. 1 1/2" fip to fip Ford B11-666W brand_____ \$_____ea
 16. 2" fip to fip Ford B11-777W brand_____ \$_____ea
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Couplings

1. 3/4" Mueller H-15428 or Ford C84-33
or equal (compression to male thread) brand_____ \$_____ ea
2. 1" Mueller H-15428 or Ford C84-44
or equal (compression to male thread) brand_____ \$_____ ea
3. 1 1/4" Mueller H-15428 or Ford C84-55
or equal (compression to male thread) brand_____ \$_____ ea
4. 3/4" Mueller H-15451 or Ford C14-33
or equal (compression to female thread) brand_____ \$_____ ea
5. 1" Mueller H-15451 or Ford C14 -44
or equal (compression to female thread) brand_____ \$_____ ea
6. 1 1/4" Mueller H-15451 or Ford C14-55
or equal (compression to female thread) brand_____ \$_____ ea
7. 3/4" Mueller H-15403 or Ford C44-33
or equal (compression to compression) brand_____ \$_____ ea
8. 1" Mueller H-15403 or Ford C44-44
or equal (compression to compression) brand_____ \$_____ ea
9. 1 1/4" Mueller H-15403 or Ford C44-55
or equal (compression to compression) brand_____ \$_____ ea
10. 1 1/4" Mueller H-15403 or Ford C44-66
or equal (compression to compression) brand_____ \$_____ ea
11. 2" Mueller H-15403 or Ford C44-77
or equal (compression to compression) brand_____ \$_____ ea
12. 3/4" fip x 3/4" PVC, Part no.C17-33 brand_____ \$_____ ea
13. 1" fip x 1" PVC, Part no.C17-44 brand_____ \$_____ ea
14. 3/4" fip x 1" cts, Part no.C17-34 brand_____ \$_____ ea
15. 3/4" PVC x 3/4" cts, Part no.C47-33 brand_____ \$_____ ea
16. 1" PVC x 1" cts, Part no.C47-44 brand_____ \$_____ ea
17. 3/4" cts x 1" PVC, Part no.C47-34 brand_____ \$_____ ea
18. 3/4" cts x 1" cts, Part no.C44-34 brand_____ \$_____ ea
19. 3/4" mip x 1" cts, Part no.C84-34 brand_____ \$_____ ea
20. 3/4" male x 3/4" PVC, Part no.C87-33 brand_____ \$_____ ea

21.	1" male x 1" PVC, Part no.C87-44	brand_____	\$_____	ea
22.	1 1/4" mip x 1 1/4" cts, Part no.C84- 55	brand_____	\$_____	ea
23.	1 1/2" mip x 1 1/2" cts, Part no.C84-66	brand_____	\$_____	ea
24.	2" mip x 2" cts, Part no.C84-77	brand_____	\$_____	ea
25.	1 1/4" fip x 1 1/4" cts, Part no.C14-55	brand_____	\$_____	ea
26.	1 1/2" fip x 1 1/2" cts, Part no.C14—66	brand_____	\$_____	ea
27.	2" fip x 2" cts, Part no.C14-77	brand_____	\$_____	ea
28.	3/4"galvanized smith Blair 522 Dresser (compression to compression)	brand_____	\$_____	ea
29.	1" galvanized smith Blair 522 Dresser (compression to compression)	brand_____	\$_____	ea
30.	1 1/4"" galvanized smith Blair 522 Dresser (compression to compression)	brand_____	\$_____	ea
31.	1 1/2" galvanized smith Blair 522 Dresser (compression to compression)	brand_____	\$_____	ea
32.	2" galvanized smith Blair 522 Dresser (compression to compression)	brand_____	\$_____	ea
33.	2 1/2" galvanized smith Blair 522 Dresser (compression to compression)	brand_____	\$_____	ea
34.	3" galvanized dresser for galvanized pipe Smith Blair (compression to compression)	brand_____	\$_____	ea

Brass meter couplings – Arad, Ford, Mueller or Jones

1.	3/4"x 2 1/2" – long	brand_____	\$_____	ea
2.	3/4" x 1 5/8" – short	brand_____	\$_____	ea
3.	1" x 2 1/2" – long	brand_____	\$_____	ea
4.	1" x 2" – short	brand_____	\$_____	ea

XIV. Rubber couplings - Fernco, Mission or equal

Clay to Clay

- | | | | | |
|----|----------------------|------------|---------|----|
| 1. | 4 x 4 clay to clay | brand_____ | \$_____ | ea |
| 2. | 4 x 6 clay to clay | brand_____ | \$_____ | ea |
| 3. | 6 x 6 clay to clay | brand_____ | \$_____ | ea |
| 4. | 6 x 8 clay to clay | brand_____ | \$_____ | ea |
| 5. | 8 x 8 clay to clay | brand_____ | \$_____ | ea |
| 6. | 10 x 10 clay to clay | brand_____ | \$_____ | ea |
| 7. | 12 x 12 clay to clay | brand_____ | \$_____ | ea |
-

PVC to PVC

- | | | | | |
|----|--------------------|------------|---------|----|
| 1. | 4 x 4 PVC to PVC | brand_____ | \$_____ | ea |
| 2. | 4 x 6 PVC to PVC | brand_____ | \$_____ | ea |
| 3. | 6 x 6 PVC to PVC | brand_____ | \$_____ | ea |
| 4. | 6 x 8 PVC to PVC | brand_____ | \$_____ | ea |
| 5. | 8 x 8 PVC to PVC | brand_____ | \$_____ | ea |
| 6. | 10 x 10 PVC to PVC | brand_____ | \$_____ | ea |
| 7. | 12 x 12 PVC to PVC | brand_____ | \$_____ | ea |
-

PVC to Clay

- | | | | | |
|----|---------------------|------------|---------|----|
| 1. | 4 x 4 PVC to clay | brand_____ | \$_____ | ea |
| 2. | 4 x 6 PVC to clay | brand_____ | \$_____ | ea |
| 3. | 6 x 6 PVC to clay | brand_____ | \$_____ | ea |
| 4. | 6 x 8 PVC to clay | brand_____ | \$_____ | ea |
| 5. | 8 x 8 PVC to clay | brand_____ | \$_____ | ea |
| 6. | 10 x 10 PVC to clay | brand_____ | \$_____ | ea |
| 7. | 12 x 12 PVC to clay | brand_____ | \$_____ | ea |

PVC to Concrete

- | | | | |
|-----|-------------------------|------------|-----------|
| 1. | 4 x 4 PVC to concrete | brand_____ | \$_____ea |
| 2. | 4 x 6 PVC to concrete | brand_____ | \$_____ea |
| 3. | 6 x 6 PVC to concrete | brand_____ | \$_____ea |
| 4. | 6 x 8 PVC to concrete | brand_____ | \$_____ea |
| 5. | 8 x 8 PVC to concrete | brand_____ | \$_____ea |
| 6. | 10 x 8 PVC to concrete | brand_____ | \$_____ea |
| 7. | 10 x 10 PVC to concrete | brand_____ | \$_____ea |
| 8. | 12 x 12 PVC to concrete | brand_____ | \$_____ea |
| 9. | 15 x 15 PVC to concrete | brand_____ | \$_____ea |
| 10. | 18 x 18 PVC to concrete | brand_____ | \$_____ea |
-

XV. Coupling - Hymax 2000 or equal

1. Coupling should allow for diameter differences of up to 1.30”.
2. Should have two stage sealing capabilities, rubber non-roll gaskets.
3. Should have one bolt per end, tow bolts total for tightening.
4. Stab installation to allow for no disassembly and re-assembly.
5. Should accommodate up to 8 degrees of angular deflection.
6. Should have corrosion resistant coating of fusion bonded epoxy, stainless steel spanner, nuts and bolts.
7. Bolts and nuts should be ANSI 304/303 stainless steel with coated nuts and anti-seize compound or equal.
8. Pressure assisted gasket should be NSF 61 registered EPDM gasket or equal. Compound approved for contact with drinking water and sewage. The gasket should be made in two layers with an inner removable layer to allow for pipe diameter range expansion or equal.

Size of coupling – should have a working pressure of 260 PSIG

1. 4” with an overall range of 4.25” – 5.63”, overall length 8.7” overall width 7.87” overall coupling middle ring 5.9” maximum gap between pipes 5.50” and weight 15 pounds.

\$_____ Item #_____

2. 6” with an overall range of 6.42” – 7.68”, overall length 10.8”, overall width 10.75” overall coupling middle ring 8.0”, maximum gap between pipes 7.50” and weight 21 pounds.

\$_____ Item #_____

3. 8" with an overall range of 8.54" – 9.84", overall length 10.8", overall width 12.91" overall coupling middle ring 8.0", maximum gap between pipes 7.50" and weight 26 pounds.

\$ _____ Item # _____

4. 10" with an overall range of 10.70" – 11.37", overall length 10.8, overall width 15.04" maximum gap between pipes 7.50" and weight 31 pounds.

\$ _____ Item # _____

XVI. Repair clamps

(Smith Blair)

		3" long	6" long
1.	¾"	_____ ea brand _____	\$ _____ ea brand _____
2.	1"	_____ ea brand _____	\$ _____ ea brand _____
3.	1 ¼"	_____ ea brand _____	\$ _____ ea brand _____
4.	1 ½"	_____ ea brand _____	\$ _____ ea brand _____
5.	2"	_____ ea brand _____	\$ _____ ea brand _____
6.	2 ½"	_____ ea brand _____	\$ _____ ea brand _____
7.	3"	_____ ea brand _____	\$ _____ ea brand _____

Full Circle Repair Clamps- JCM:

All sizes listed below for (1. Steel pipe); (2. Cast iron pipe); (3. Plastic pipe with iron pipe); (4. TRANSITE AC pipe). All are 7 ½" or 12 ½" long full circle repair clamps, baker, smith, Blair, Rockwell, superior and Mueller or equal.

1.	1 ½"	7 ½" \$ _____ ea _____ brand	12 ½" \$ _____ ea _____ brand	12 ½" (Extended Range) \$ _____ ea _____ brand
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2.	2"	\$ _____ ea _____ brand	\$ _____ ea _____ brand	\$ _____ ea _____ brand
	Range(s)	2.35-2.63	2.35-2.63 2.70-3.13	
3.	2 ½"	\$ _____ ea _____ brand	\$ _____ ea _____ brand	\$ _____ ea _____ brand
4.	3"	\$ _____ ea _____ brand	\$ _____ ea _____ brand	\$ _____ ea _____ brand
	Range(s)	2.97-3.25	3.46-3.70 3.73-4.00	3.96-4.25
5.	4"	\$ _____ ea _____ brand	\$ _____ ea _____ brand	\$ _____ ea _____ brand
	Range(s)	4.45-4.73	4.74-5.14 4.95-5.35 5.22-5.62	
6.	6"	\$ _____ ea _____ brand	\$ _____ ea _____ brand	\$ _____ ea _____ brand
	Range(s)		5.95-6.35 6.56-6.96 6.84-7.24 7.05-7.45	
7.	8"	\$ _____ ea _____ brand	\$ _____ ea _____ brand	\$ _____ ea _____ brand
	Range(s)		7.95-8.35 8.54-8.94 8.99-9.39 9.27-9.67 9.70-10.10	
8.	10"	\$ _____ ea _____ brand	\$ _____ ea _____ brand	\$ _____ ea _____ brand
	Range(s)		11.75-12.15 10.64-11.04 11.04-11.46	
9.	12"	\$ _____ ea _____ brand	\$ _____ ea _____ brand	\$ _____ ea _____ brand
	Range(s)		13.10-13.50	

Bell Joint Clamps:

All are dresser, Smith Blair, Ford, or Mueller, Bell joint clamps 067900

- 1. 4" brand_____ \$_____ ea
 - 2. 6" brand_____ \$_____ ea
 - 3. 8" brand_____ \$_____ ea
 - 4. 10" brand_____ \$_____ ea
 - 5. 12" brand_____ \$_____ ea
-

Foster adapters or approved equal

- 1. 4" brand_____ \$_____ per 50
 - 2. 6" brand_____ \$_____ per 50
 - 3. 8" brand_____ \$_____ per 50
 - 4. 10" brand_____ \$_____ per 50
 - 5. 12" brand_____ \$_____ per 50
-

XVII. Cast Iron Saddles: Baker, Ford, Smith Blair, Mueller, Rockwell with extended range to fit all pipes.

**Double Strap

	MAIN Size	Tap Size	Cast Iron-C900	Extended range
1.	12"***	1"cc	_____ea brand_____	\$_____ea brand_____
		1 ½"	_____ea brand_____	\$_____ea brand_____
		2 "	_____ea brand_____	\$_____ea brand_____
		2 ½"	_____ea brand_____	\$_____ea brand_____

2.	10***	1"cc	_____ea brand_____	\$_____ea brand_____
		1 1/2"	_____ea brand_____	\$_____ea brand_____
		2"	_____ea brand_____	\$_____ea brand_____
		2 1/2"	_____ea brand_____	\$_____ea brand_____

	MAIN Size	Tap Size	Cast Iron-C900	Extended range
--	------------------	-----------------	-----------------------	-----------------------

3.	8***	1"cc	_____ea brand_____	\$_____ea brand_____
		1 1/2"	_____ea brand_____	\$_____ea brand_____
		2"	_____ea brand_____	\$_____ea brand_____
		2 1/2"	_____ea brand_____	\$_____ea brand_____

4.	6***	1" cc	_____ea brand_____	\$_____ea brand_____
		1 1/2"	_____ea brand_____	\$_____ea brand_____
		2"	_____ea brand_____	\$_____ea brand_____
		2 1/2"	_____ea brand_____	\$_____ea brand_____

5.	4***	1"cc	_____ea brand_____	\$_____ea brand_____
		1 1/2"	_____ea brand_____	\$_____ea brand_____
		2"	_____ea brand_____	\$_____ea brand_____
		2 1/2"	_____ea brand_____	\$_____ea brand_____

6.	3***	1"cc	_____ea brand_____	\$_____ea brand_____
7.	2***	1"cc	_____ea brand_____	\$_____ea brand_____
8.	1 1/2***	1"cc	_____ea brand_____	\$_____ea brand_____
9.	1***	1"cc	_____ea brand_____	\$_____ea brand_____

XVIII. Fire hydrants/kits/brass nipples /misc.

Fire Hydrant Specifications:

1. Quality Assurance:

Standard references to use and follow for the below specification are:

- American National Standards Institute (ANSI), A21.11 Rubber Gasket Joints for Cast Iron and Ductile Iron Pressure Pipe and Fittings (AWWA C111).
- ANSI, B16.1 Cast Iron Pipe Flanges and Flanged Fittings, Class 25, 125, 250 and 800.
- American Water Works Association (AWWA), C502-94 - Dry Barrel Hydrants
- AWWA, C509-01- Resilient Seated Gate Valves
- AWWA, C550-05 - Protective Epoxy Interior Coatings for Valves and Hydrants
- AWWA, C600-99 - Installation of Ductile Iron Water Mains and Appurtenances.
- AWWA, C651-99 - Disinfecting Water Mains

2. Fire hydrants shall be dry barrel, traffic type with 5 1/4" minimum main valve opening. Hydrants shall have one 4 1/2" pumper nozzle and two 2 1/2" hose nozzles. Threads on nozzles shall be NST type unless specified in accordance with owner's standards.
3. All hydrants shall conform to AWWA C-502 latest revisions. Rated working pressure shall be 250psi, and tested to 500psig in both the open and closed position prior to shipment. Main valve shall be of the true compression type opening against and closing with pressure.
4. Hydrant bonnet, nozzle section, shoe section and flanges shall be fusion bonded epoxy coated, minimum 6 mil thickness inside and out applied only at the hydrant manufacturers facilities. All hydrants shall be delivered with above ground sections painted externally, yellow in color, and minimum of 4 mils.
5. All hydrants shall allow 360° rotation to position the steamer nozzle in the desired direction after installation. Undercut or breakaway bolting will not be permitted.
6. A weather shield shall be provided to prevent corrosion from affecting the operating mechanism. It will be marked with an arrow indicating the direction of opening, which is open left (counter clockwise). Operating nut shall be 1.5" pentagon shaped bronze with two nylon anti-friction washer, one above and one below the thrust collar.

7. The hydrants Upper and Lower stems, as well as all internal fasteners shall be stainless steel to limit internal corrosion, no springs allowed.
8. Retaining bolts of shoe to lower barrel shall be grade 316 stainless steel or better.
9. The hydrants shall have one positive stop to prevent over travel of the operating rod located on the upper stem (stop nut).
10. Hydrant nozzle sections to be nostalgic in style to maintain visual standardization.
11. Upper assembly shall be provided with a grease or oil reservoir that automatically lubricates all operating stem threads and bearing surfaces during each operation. The system shall be completely sealed from the waterway and external contaminants. The reservoir is to have an external filler point that does not require dismantling of the fire hydrant during regular maintenance and all hydrants are to be completely lubricated with food grade product prior to leaving the factory.
12. All hydrants shall have a traffic breakaway feature.
13. All hydrants shall be furnished with a 6" mechanical joint connection.
14. All hydrants shall be covered by a manufacturers 10 year limited warranty.
15. Exterior casting shall indicate type, design, date, and location of manufacture.
16. Hydrants shall be listed by the Underwriters Laboratory and approved by Factory Mutual for fire line service.

Items (1) and (2) below must come with top 2 bolt holes on 6" shoe and they must be slotted to accommodate thread bolts (3 way hydrant).

150 psi working pressure
 300 psi test pressure
 AWWA C502 or latest and most current revision
 Color: yellow only
 Traffic model only

1. 3' bury size 5 1/4" \$ _____ ea brand _____ model _____
 2. 4' bury size 5 1/4" \$ _____ ea brand _____ model _____
-

Items (3) and (4) below must come with top 2 bolt holes on 4" shoe and they must be slotted to accommodate thread bolts (2 way hydrant).

150 psi working pressure
300 psi test pressure
AWWA C 502 or latest and most current revision
Color: yellow only
Traffic model only

3. 3' bury size 5 1/4" \$ _____ ea brand _____ model _____
4. 4' bury size 5 1/4" \$ _____ ea brand _____ model _____
-

Item (5) to include (1) 2 1/2" hose nozzle. Shore inlet connection to be a MJ 3". Color: yellow only

5. 3' bury \$ _____ ea brand _____ model _____
-

Fire hydrant accessories:

Extension kit for 5 1/4" main valve opening. (barrel, stem, coupling, etc.)

1. M & H 129 12" \$ _____ ea
2. M & H 129 18" \$ _____ ea
3. M & H 129 24" \$ _____ ea
4. M & H 129 36" \$ _____ ea
-

1. M & H 929 12" \$ _____ ea
2. M & H 929 18" \$ _____ ea
3. M & H 929 24" \$ _____ ea
4. M & H 929 36" \$ _____ ea
-

1. Mueller A-422 12" \$ _____ ea
2. Mueller A-422 18" \$ _____ ea
3. Mueller A-422 24" \$ _____ ea
4. Mueller A-422 36" \$ _____ ea
-

1. Mueller A-423 12" \$ _____ ea
2. Mueller A-423 18" \$ _____ ea
3. Mueller A-423 24" \$ _____ ea
4. Mueller A-423 36" \$ _____ ea
-

We/I do hereby certify by my signature that our product(s) bid meets or exceeds your specifications. We agree that failure to meet the specifications shall be just cause for the City of D'Iberville to remove our company from the bid list.

Typed Name _____

Signature _____

Title _____ Date _____

Your attention is called to the fact that the state of Mississippi has a reciprocal preference law in regards to resident contractors. The state's treatment of non-resident contractor's and the local preference percentage shall be applied in evaluating the bids. It is the responsibility of the vendor to submit a copy of their state's preference law with the bid. Failure to do so may be reason to reject the bid.

Notice to bidders:

All bids are to be submitted on this form and shall be submitted in sealed envelopes marked in the lower left hand corner "**Group J1 – Water & Sewer Line Supplies**", **to be opened Tuesday, October 30, 2007 at 10:00 a.m.** Bids not submitted on this form may be disqualified.

Hold harmless: contractor agrees that it will, and hereby does, indemnify, defend and hold harmless City of D'Iberville from and against any and all claims, damages, losses, costs and expenses of every kind and nature, including court costs and attorney fees and claims for damages resulting from or arising out of any infringement claim or claim of bodily injury, death or damage to real or tangible personal property caused by contractor and/or its partners, principals, agents, employees or subcontractors in the performance of this contract. City of D'Iberville will notify the contractor in writing of any claim to be indemnified hereunder, of which city has knowledge, and contractor in turn will promptly notify city of any such claim. Contractor shall, at its sole expense, control the defense of such suit to the extent allowed by Mississippi law. The parties agree to cooperate with one another in the defense of any such matter.

Any request for price increase during the term of contract will be rejected. Should this rejection result in the cancellation of the contract, the vendor shall be removed from the qualified bidders list for twenty-four (24) months.

If adverse conditions exists industry wide, modifications to disqualifications may be made as circumstances warrant.

The city reserves the right to request from the vendor an extension of this contract for a second term of twelve (12) months, commencing October 1, 2008, with all prices remaining constant.

Address bid to:

City Clerk
City of D'Iberville
P.O. Box 6519
D'Iberville, MS 39540