

CLAYTON COUNTY WATER AUTHORITY
Regular Board Meeting
Zoom Meeting

Present at the meeting were: Chairman Robin Malone, Vice Chairman Marie Barber, Secretary/Treasurer Rodney Givens, Board Member John Westervelt, Board Member Dr. Cephus Jackson, Board Member Vivian Baldwin, General Manager H. Bernard Franks, Assistant General Manager Keisha Thorpe, Legal Counsel Steve Fincher, Executive Coordinator Amanda La Pierre and other CCWA staff and visitors. Absent: Board Member John Chafin and Assistant General Manager Teresa Worley.

Invocation

Robin Malone introduced Sr. Engineering Technician Michael Shinn to perform the invocation.

Adoption of Agenda

UPON MOTION by Dr. Cephus Jackson and second by Marie Barber to adopt the agenda as presented, it was unanimously

RESOLVED to adopt the agenda as presented.

Approval of Minutes

Chairman Robin Malone called for any omissions or additions to the Minutes of the Regular Board Meeting held on August 6, 2020.

UPON MOTION by Dr. Cephus Jackson and second by Marie Barber, it was unanimously

RESOLVED to approve the Minutes of the Regular Board Meeting held on August 6, 2020.

Financial and Statistical Reports

Finance Director Allison Halron reviewed the financial information distributed to the Board for the period ending July 31, 2020. Information only, no action taken.

Recognition

Introduction of New I.T. Director Mr. Tommy Higginbotham: General Manager H. Bernard Franks introduced new I.T. Director Mr. Tommy Higginbotham. Information only, no action taken.

GFOA Certificate of Achievement for Excellence in Financial Reporting Award:

Communications and Public Relations Manager Suzanne Brown recognized CCWA's Finance Department for receiving the GFOA Certificate of Achievement for Excellence in Financial Reporting. Information only, no action taken.

New Business

Annual Contract for General Pipe Work Recommendation: Stormwater Director Kevin Osbey presented a recommendation on the Annual Contract for General Pipe Work.

To repair, maintain, and/or replace the nearly 3,400 miles of water, sewer, and stormwater infrastructure within CCWA's service area, our staff supplements our internal workforce using experienced and qualified Licensed Utility Contractors.

Contractor	Total Bid Summary	CCWA SLBE Vendor	SLBE Bid Summary
Don Hall Construction, Inc Hampton, GA	\$3,919,882.21	Yes (10%)	\$3,527,893.99
DAF Concrete, Inc Jonesboro, GA	\$4,004,404.30	Yes (10%)	\$3,603,963.87
Jewel of the South, Inc Conyers, GA	\$4,339,426.05	Yes (7.5%)	\$4,013,969.10
Civil Work, Inc Atlanta, GA	\$8,556,225.75	Yes (10%)	\$7,700,603.18

				Civil Works, Inc.	DAF Concrete, Inc.	Don Hall Construction, Inc.	Jewel of the South, Inc.
No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost	Unit Cost
1	Lowboy Service		EA	\$ 1,000.00	\$ 450.00	\$ 700.00	\$ 800.00
2	Emergency Mobilization		EA	\$ 3,000.00	\$ 1,300.00	\$ 1,800.00	\$ 1,500.00
3	Performance and Payment Bonds	For Project Work Orders of \$100,000 to \$125,000	EA	\$ 3,000.00	\$ 1,400.00	\$ 1,800.00	\$ 3,000.00
4		For Each Additional \$25,000 Increase	EA	\$ 500.00	\$ 200.00	\$ 360.00	\$ 750.00
5	Construction Exit		EA	\$ 2,000.00	\$ 300.00	\$ 900.00	\$ 750.00
6	Sediment Barrier Installation	Silt Fence - Type A	LF	\$ 3.50	\$ 150.00	\$ 3.50	\$ 2.25
7		Silt Fence - Type C	LF	\$ 4.00	\$ 150.00	\$ 4.50	\$ 3.50
8		Hay Bale	LF	\$ 7.00	\$ 4.00	\$ 5.00	\$ 5.00
9	Sediment Barrier Removal		LF	\$ 1.50	\$ 5.00	\$ 1.00	\$ 1.25
10	Curb Inlet Sediment Trap		EA	\$ 125.00	\$ 100.00	\$ 100.00	\$ 125.00
11	Soil Stabilization	Straw Mulching	SF	\$ 0.25	\$ 0.25	\$ 0.35	\$ 0.30
12		Seed and Straw Mulch	SF	\$ 0.25	\$ 0.25	\$ 0.40	\$ 0.35
13		Seed and Matt Blanket	SF	\$ 1.00	\$ 0.30	\$ 0.45	\$ 0.75
14		Sod	SF	\$ 1.25	\$ 1.00	\$ 1.90	\$ 1.25

15	Hauling Material from Outside of County		HR	\$ 100.00	\$ 50.00	\$ 75.00	\$ 95.00
16	Tree Removal	4 inch to 6 inch diameter	EA	\$ 200.00	\$ 280.00	\$ 400.00	\$ 400.00
17		Greater than 6 inch to 12 inch diameter	EA	\$ 600.00	\$ 800.00	\$ 700.00	\$ 750.00
18		Greater than 12 inch to 24 inch diameter	EA	\$ 900.00	\$ 1,200.00	\$ 1,800.00	\$ 1,500.00
19		Greater than 24 inch to 36 inch diameter	EA	\$ 1,200.00	\$ 1,780.00	\$ 2,000.00	\$ 1,950.00
20	Easement Clearing		SF	\$ 5.00	\$ 0.25	\$ 0.50	\$ 0.75
21	Fence Work	Chain-Link / Wire Removal or Reinstall	LF	\$ 6.00	\$ 9.00	\$ 12.00	\$ 10.50
22		Wood Removal or Reinstall	LF	\$ 6.00	\$ 16.00	\$ 20.00	\$ 18.00
23	General Excavation	Up to 6 feet deep	CF	\$ 0.40	\$ 1.20	\$ 1.80	\$ 2.00
24		Greater than 6 feet to 10 feet deep	CF	\$ 0.60	\$ 1.20	\$ 1.80	\$ 1.25
25		Greater than 10 feet to 14 feet deep	CF	\$ 1.00	\$ 1.20	\$ 1.80	\$ 1.35
26		Greater than 14 feet to 18 feet deep	CF	\$ 2.00	\$ 1.60	\$ 1.80	\$ 1.55
27	Rock Excavation		CF	\$ 14.00	\$ 2.50	\$ 4.00	\$ 4.00
28	General Fill / Backfill	Fill Dirt	CF	\$ 1.00	\$ 1.30	\$ 1.30	\$ 1.55
29		Sand	CF	\$ 2.00	\$ 1.00	\$ 1.50	\$ 1.55
30		Crushed Stone / Graded Aggregate Base	CF	\$ 2.50	\$ 1.50	\$ 1.40	\$ 1.55
31		#3, #4, #34, #5, #57 and #89 Stone	CF	\$ 2.00	\$ 0.90	\$ 1.65	\$ 1.55
32		Surge Stone	CF	\$ 3.00	\$ 1.50	\$ 1.65	\$ 1.75
33		Rip-Rap Stone Type III	CF	\$ 5.00	\$ 1.00	\$ 1.85	\$ 1.75
34	Stone Placement Crushed Stone / Graded Aggregate Base	6 inch thick layer	SF	\$ 2.00	\$ 1.00	\$ 1.70	\$ 1.75
35		2 inch thick increment	SF	\$ 1.00	\$ 1.00	\$ 0.56	\$ 1.25
36	Stone Placement #3, #4, #34, #5, #57 and #89 Stone	6 inch thick layer	SF	\$ 2.00	\$ 1.00	\$ 1.60	\$ 2.00
37		2 inch thick increment	SF	\$ 1.00	\$ 1.00	\$ 0.52	\$ 1.75
38	Stone Placement Surge Stone	Surge Stone 6 inch thick layer	SF	\$ 2.00	\$ 1.00	\$ 1.70	\$ 1.75
39		6 inch thick increment	SF	\$ 1.00	\$ 1.00	\$ 1.70	\$ 1.75
40	Stone Placement	Type III Rip-Rap Stone 12 inch thick layer	SF	\$ 3.00	\$ 1.60	\$ 2.00	\$ 2.00

				Civil Works, Inc.	DAF Concrete, Inc.	Don Hall Construction, Inc.	Jewel of the South, Inc.
No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost	Unit Cost
41	Type III Rip-Rap	12 inch thick increment	SF	\$ 2.00	\$ 1.60	\$ 2.00	\$ 2.00
42	Stone Placement Type I Rip-Rap	Type I Rip-Rap	SF	\$ 4.00	\$ 2.30	\$ 3.00	\$ 2.50
43	Gabion Basket Installation		CF	\$ 6.50	\$ 8.50	\$ 10.00	\$ 15.00
44	Geotextile Fabric Installation		SF	\$ 1.00	\$ 6.50	\$ 1.00	\$ 0.95
45	Pavement – Remove Asphalt	Up to 4 inch thick layer	SF	\$ 1.50	\$ 2.00	\$ 2.50	\$ 2.50

46	Pavement – Remove Asphalt	Greater than 4 inch to 8 inch thick layer	SF	\$ 1.75	\$ 2.00	\$ 3.00	\$ 2.50
47	Pavement – Remove Asphalt	Greater than 8 inch to 12 inch thick layer	SF	\$ 2.00	\$ 2.00	\$ 4.00	\$ 4.50
48	Pavement – Remove Asphalt	Greater than 12 inch thick layer	SF	\$ 3.00	\$ 2.00	\$ 5.00	\$ 6.00
49	Pavement – Remove Concrete Flat Work	Up to 4 inch thick layer	SF	\$ 1.00	\$ 2.00	\$ 2.50	\$ 3.25
50	Pavement – Remove Concrete Flat Work	Greater than 4 inch to 8 inch thick layer	SF	\$ 2.00	\$ 2.00	\$ 3.00	\$ 3.75
51	Pavement – Remove Concrete Flat Work	Greater than 8 inch to 12 inch thick layer	SF	\$ 4.00	\$ 2.00	\$ 4.00	\$ 4.25
52	Pavement – Remove Concrete Flat Work	Greater than 12 inch thick layer	SF	\$ 6.00	\$ 2.00	\$ 6.00	\$ 6.00
53	Pavement – Remove Concrete Flat Work	Curb and Gutter	LF	\$ 8.00	\$ 4.00	\$ 5.00	\$ 5.25
54	Pavement – Milling	Up to 1500 SF	EA	\$ 5,000.00	\$ 4,200.00	\$ 5,900.00	\$ 6,000.00
55		Additional Square Footage	SF	\$ 10.00	\$ 3.00	\$ 4.00	\$ 6.00
56	Pavement – Asphalt Patching	3 inch thick layer	SF	\$ 6.00	\$ 5.50	\$ 7.00	\$ 7.00
57		1 inch thick increment	SF	\$ 5.00	\$ 2.00	\$ 2.30	\$ 2.50
58	Pavement – Asphalt Paving	3 inch thick layer	SF	\$ 8.00	\$ 5.50	\$ 6.00	\$ 6.25
59		1 inch thick increment	SF	\$ 6.00	\$ 2.00	\$ 2.00	\$ 2.50
60	Pavement – Concrete Flatwork	Up to 4 inch thick layer	SF	\$ 8.00	\$ 5.00	\$ 6.00	\$ 6.25
61		Greater than 4 inch to 6 inch thick layer	SF	\$ 8.00	\$ 6.00	\$ 7.00	\$ 7.50
62		Greater than 6 inch to 8 inch thick layer	SF	\$ 12.00	\$ 8.00	\$ 8.50	\$ 8.00
63		Greater than 8 inch to 10 inch thick layer	SF	\$ 16.00	\$ 8.00	\$ 9.50	\$ 10.00
64		Wire Mesh	SF	\$ 4.00	\$ 0.80	\$ 1.20	\$ 1.35
65		Steel Reinforcement	LF	\$ 80.00	\$ 0.60	\$ 5.50	\$ 3.35
66	Pavement – Curb and Gutter Replacement	Up to 24 inch width, square back	LF	\$ 36.00	\$ 20.00	\$ 25.00	\$ 30.00
67		Up to 24 inch width, roll back	LF	\$ 42.00	\$ 20.00	\$ 25.00	\$ 30.00
68	Pavement – Catch Basin Spillway Throat		LF	\$ 62.00	\$ 25.00	\$ 100.00	\$ 150.00
69	Pavement – Line Striping	Up to 6 inch wide	LF	\$ 6.00	\$ 3.00	\$ 5.50	\$ 2.25
70		24 inch wide	LF	\$ 12.00	\$ 5.00	\$ 8.50	\$ 9.50
71	Pavement – Marking	Handicap Symbol	EA	\$ 600.00	\$ 2.50	\$ 150.00	\$ 400.00
72	Pavement – Pressure Washing		SF	\$ 10.00	\$ 0.50	\$ 0.50	\$ 0.65
73	Pumping 4-inch Pump	Single Pump System	DY	\$ 1,200.00	\$ 450.00	\$ 1,000.00	\$ 900.00
74		Single Pump System	WK	\$ 1,800.00	\$ 700.00	\$ 4,800.00	\$ 1,350.00
75		Single Pump System	2WK	\$ 3,600.00	\$ 1,200.00	\$ 9,000.00	\$ 2,700.00
76		Single Pump System	MO	\$ 5,200.00	\$ 2,000.00	\$ 15,000.00	\$ 4,100.00
77		Redundant Pump System	DY	\$ 300.00	\$ 700.00	\$ 1,000.00	\$ 1,200.00
78		Redundant Pump System	WK	\$ 3,200.00	\$ 1,200.00	\$ 4,800.00	\$ 1,800.00
79		Redundant Pump System	2WK	\$ 3,200.00	\$ 1,800.00	\$ 9,000.00	\$ 3,600.00
80		Redundant Pump System	MO	\$ 4,800.00	\$ 2,600.00	\$ 15,000.00	\$ 5,400.00

				Civil Works, Inc.	DAF Concrete, Inc.	Don Hall Construction, Inc.	Jewel of the South, Inc.
No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost	Unit Cost
	Copper (Type "L") 1-1/2 to 2-inch						
122		Greater than 10 feet deep	LF	\$ 78.00	\$ 42.00	\$ 51.50	\$ 55.00
123	Pipe Installation - Open Cut PVC up to 8-inch	Point Repair, up to 6 feet deep	EA	\$ 3,800.00	\$ 2,360.00	\$ 3,000.00	\$ 4,000.00
124		Point Repair, greater than 6 feet to 10 feet deep	EA	\$ 4,800.00	\$ 2,890.00	\$ 3,500.00	\$ 5,000.00
125		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 7,800.00	\$ 5,390.00	\$ 5,500.00	\$ 6,000.00
126		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 12,600.00	\$ 6,950.00	\$ 6,500.00	\$ 8,000.00
127		Additional Footage, up to 6 feet deep	LF	\$ 10.00	\$ 20.00	\$ 30.00	\$ 40.00
128		Additional Footage, greater than 6 feet to 10 feet deep	LF	\$ 32.00	\$ 35.00	\$ 35.00	\$ 50.00
129		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 48.00	\$ 50.00	\$ 45.00	\$ 60.00
130		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 72.00	\$ 74.00	\$ 65.00	\$ 80.00
131	Pipe Installation - Open Cut PVC greater than 8-inch to 16-inch	Point Repair, up to 6 feet deep	EA	\$ 8,800.00	\$ 2,780.00	\$ 3,000.00	\$ 4,000.00
132		Point Repair, greater than 6 feet to 10 feet deep	EA	\$ 9,800.00	\$ 2,920.00	\$ 3,500.00	\$ 5,000.00
133		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 10,700.00	\$ 5,390.00	\$ 5,000.00	\$ 6,000.00
134		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 14,200.00	\$ 6,360.00	\$ 7,000.00	\$ 8,000.00
135		Additional Footage, up to 6 feet deep	LF	\$ 48.00	\$ 44.00	\$ 35.00	\$ 45.00
136		Additional Footage, greater than 6 feet to 10 feet deep	LF	\$ 72.00	\$ 38.00	\$ 45.00	\$ 55.00
137		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 72.00	\$ 40.00	\$ 55.00	\$ 65.00
138		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 84.00	\$ 55.00	\$ 75.00	\$ 85.00
139	Pipe Installation - Open Cut PVC greater than 16-inch to 24-inch	Point Repair, up to 6 feet deep	EA	\$ 10,500.00	\$ 2,970.00	\$ 3,500.00	\$ 4,500.00
140		Point Repair, greater than 6 feet to 10 feet deep	EA	\$ 14,800.00	\$ 2,780.00	\$ 4,500.00	\$ 5,500.00
141		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 16,500.00	\$ 5,100.00	\$ 6,000.00	\$ 6,500.00
142		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 18,600.00	\$ 6,420.00	\$ 7,500.00	\$ 8,500.00
143		Additional Footage, up to 6 feet deep	LF	\$ 120.00	\$ 35.00	\$ 40.00	\$ 50.00
144		Additional Footage, greater than 6 feet to 10 feet deep	LF	\$ 120.00	\$ 50.00	\$ 50.00	\$ 60.00
145		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 210.00	\$ 48.00	\$ 60.00	\$ 70.00
146		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 220.00	\$ 64.00	\$ 80.00	\$ 90.00
147	Pipe Installation - Open Cut PVC greater than 24-inch to 36-inch	Point Repair, up to 6 feet deep	EA	\$ 10,800.00	\$ 3,600.00	\$ 3,500.00	\$ 4,500.00
148		Point Repair, greater than 6 feet to 10 feet deep	EA	\$ 12,800.00	\$ 4,100.00	\$ 4,500.00	\$ 5,500.00
149		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 13,200.00	\$ 5,600.00	\$ 6,500.00	\$ 7,000.00
150		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 16,000.00	\$ 6,100.00	\$ 8,000.00	\$ 10,000.00
151		Additional Footage, up to 6 feet deep	LF	\$ 240.00	\$ 38.00	\$ 50.00	\$ 55.00
152		Additional Footage, greater than 6 feet to 10 feet deep	LF	\$ 280.00	\$ 45.00	\$ 60.00	\$ 65.00
153		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 300.00	\$ 70.00	\$ 70.00	\$ 70.00

154		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 310.00	\$ 91.00	\$ 90.00	\$ 95.00
155		Point Repair, up to 6 feet deep	EA	\$ 4,200.00	\$ 2,800.00	\$ 3,000.00	\$ 4,000.00
156		Point Repair, greater than 6 feet to 10 feet deep	EA	\$ 5,200.00	\$ 2,900.00	\$ 4,000.00	\$ 4,500.00
157		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 8,200.00	\$ 4,450.00	\$ 5,500.00	\$ 5,500.00
158		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 10,000.00	\$ 5,950.00	\$ 7,000.00	\$ 6,500.00
159	Pipe Installation - Open Cut DI up to 8-inch	Additional Footage, up to 6 feet deep	LF	\$ 20.00	\$ 38.00	\$ 30.00	\$ 40.00
160		Additional Footage, greater than 6 feet to 10 feet deep	LF	\$ 38.00	\$ 36.00	\$ 35.00	\$ 50.00
161		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 52.00	\$ 41.00	\$ 50.00	\$ 60.00
162		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 84.00	\$ 58.00	\$ 70.00	\$ 80.00

				Civil Works, Inc.	DAF Concrete, Inc.	Don Hall Construction, Inc.	Jewel of the South, Inc.
No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost	Unit Cost
163		Point Repair, up to 6 feet deep	EA	\$ 6,800.00	\$ 3,150.00	\$ 3,500.00	\$ 4,000.00
164		Point Repair, greater than 6 feet to 10 feet deep	EA	\$ 8,600.00	\$ 3,050.00	\$ 4,500.00	\$ 4,500.00
165		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 10,800.00	\$ 4,800.00	\$ 5,500.00	\$ 5,500.00
166		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 12,000.00	\$ 5,950.00	\$ 7,000.00	\$ 6,500.00
167	Pipe Installation - Open Cut DI greater than 8-inch to 16-inch	Additional Footage, up to 6 feet deep	LF	\$ 52.00	\$ 38.00	\$ 30.00	\$ 45.00
168		Additional Footage, greater than 6 feet to 10 feet deep	LF	\$ 74.00	\$ 45.00	\$ 35.00	\$ 55.00
169		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 86.00	\$ 70.00	\$ 50.00	\$ 65.00
170		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 120.00	\$ 91.00	\$ 70.00	\$ 85.00
171		Point Repair, up to 6 feet deep	EA	\$ 12,800.00	\$ 3,150.00	\$ 3,500.00	\$ 4,000.00
172		Point Repair, greater than 6 feet to 10 feet deep	EA	\$ 16,000.00	\$ 4,050.00	\$ 4,500.00	\$ 5,000.00
173		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 18,000.00	\$ 5,350.00	\$ 5,500.00	\$ 6,000.00
174		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 18,000.00	\$ 6,400.00	\$ 7,000.00	\$ 7,000.00
175	Pipe Installation - Open Cut DI greater than 16-inch to 24-inch	Additional Footage, up to 6 feet deep	LF	\$ 200.00	\$ 38.00	\$ 35.00	\$ 50.00
176		Additional Footage, greater than 6 feet to 10 feet deep	LF	\$ 210.00	\$ 36.00	\$ 45.00	\$ 60.00
177		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 215.00	\$ 42.00	\$ 55.00	\$ 70.00
178		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 220.00	\$ 58.00	\$ 75.00	\$ 90.00
179		Point Repair, up to 6 feet deep	EA	\$ 12,600.00	\$ 3,150.00	\$ 3,500.00	\$ 4,500.00
180		Point Repair, greater than 6 feet to 10 feet deep	EA	\$ 12,800.00	\$ 3,410.00	\$ 4,500.00	\$ 5,500.00
181		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 12,880.00	\$ 5,250.00	\$ 6,500.00	\$ 6,500.00
182	Pipe Installation - Open Cut DI greater than 24-inch to 36-inch	Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 14,000.00	\$ 6,480.00	\$ 8,000.00	\$ 9,000.00
183		Additional Footage, up to 6 feet deep	LF	\$ 180.00	\$ 38.00	\$ 50.00	\$ 55.00
184		Additional Footage, greater than 6 feet to 10 feet deep	LF	\$ 210.00	\$ 48.00	\$ 60.00	\$ 65.00

185		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 220.00	\$ 64.00	\$ 70.00	\$ 75.00
186		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 240.00	\$ 76.00	\$ 90.00	\$ 95.00
187	Pipe Installation - Open Cut DI greater than 36-inch to 48-inch	Point Repair, up to 6 feet deep	EA	\$ 13,200.00	\$ 4,200.00	\$ 4,000.00	\$ 5,000.00
188		Point Repair, greater than 6 feet to 10 feet deep	EA	\$ 13,700.00	\$ 5,350.00	\$ 5,000.00	\$ 6,000.00
189		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 14,000.00	\$ 6,180.00	\$ 7,000.00	\$ 8,000.00
190		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 14,200.00	\$ 6,950.00	\$ 9,000.00	\$ 10,000.00
191		Additional Footage, up to 6 feet deep	LF	\$ 300.00	\$ 38.00	\$ 55.00	\$ 60.00
192		Additional Footage, greater than 6 feet to 10 feet deep	LF	\$ 310.00	\$ 53.00	\$ 65.00	\$ 70.00
193		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 320.00	\$ 81.00	\$ 75.00	\$ 80.00
194		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 350.00	\$ 82.00	\$ 95.00	\$ 100.00
195	Pipe Installation - Open Cut DI greater than 48-inch to 60-inch	Point Repair, up to 6 feet deep	EA	\$ 14,000.00	\$ 3,900.00	\$ 4,500.00	\$ 5,500.00
196		Point Repair, greater than 6 feet to 10 feet deep	EA	\$ 14,200.00	\$ 4,950.00	\$ 5,500.00	\$ 6,500.00
197		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 14,400.00	\$ 5,850.00	\$ 7,500.00	\$ 9,500.00
198		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 14,800.00	\$ 6,970.00	\$ 9,500.00	\$ 11,500.00
199		Additional Footage, up to 6 feet deep	LF	\$ 300.00	\$ 38.00	\$ 60.00	\$ 65.00
200		Additional Footage, greater than 6 feet to 10 feet deep	LF	\$ 320.00	\$ 48.00	\$ 70.00	\$ 75.00
201		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 380.00	\$ 64.00	\$ 80.00	\$ 85.00
202		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 600.00	\$ 76.00	\$ 95.00	\$ 125.00
203		Point Repair, up to 6 feet deep	EA	\$ 7,200.00	\$ 2,750.00	\$ 3,000.00	\$ 4,000.00

				Civil Works, Inc.	DAF Concrete, Inc.	Don Hall Construction, Inc.	Jewel of the South, Inc.
No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost	Unit Cost
204	Pipe Installation - Open Cut RC up to 16-inch	Point Repair, greater than 6 feet to 10 feet deep	EA	\$ 8,400.00	\$ 3,250.00	\$ 4,000.00	\$ 5,000.00
205		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 10,700.00	\$ 3,940.00	\$ 6,000.00	\$ 6,000.00
206		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 12,000.00	\$ 4,850.00	\$ 8,000.00	\$ 8,000.00
207		Additional Footage, up to 6 feet deep	LF	\$ 48.00	\$ 38.00	\$ 30.00	\$ 50.00
208		Additional Footage, greater than 6 feet to 10 feet deep	LF	\$ 72.00	\$ 48.00	\$ 40.00	\$ 60.00
209		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 72.00	\$ 64.00	\$ 50.00	\$ 70.00
210		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 84.00	\$ 76.00	\$ 70.00	\$ 90.00
211	Pipe Installation - Open Cut RC greater than 16-inch to 24-inch	Point Repair, up to 6 feet deep	EA	\$ 14,000.00	\$ 3,140.00	\$ 3,500.00	\$ 4,500.00
212		Point Repair, greater than 6 feet to 10 feet deep	EA	\$ 14,800.00	\$ 3,210.00	\$ 4,500.00	\$ 5,500.00
213		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 16,800.00	\$ 4,115.00	\$ 6,000.00	\$ 6,500.00
214		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 18,800.00	\$ 4,980.00	\$ 8,000.00	\$ 8,500.00
215		Additional Footage, up to 6 feet deep	LF	\$ 120.00	\$ 38.00	\$ 35.00	\$ 50.00

216		Additional Footage, greater than 6 feet to 10 feet deep	LF	\$ 120.00	\$ 40.00	\$ 45.00	\$ 60.00
217		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 210.00	\$ 43.00	\$ 55.00	\$ 70.00
218		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 280.00	\$ 65.00	\$ 75.00	\$ 90.00
219	Pipe Installation - Open Cut RC greater than 24-inch to 36-inch	Point Repair, up to 6 feet deep	EA	\$ 16,800.00	\$ 2,900.00	\$ 3,500.00	\$ 5,000.00
220		Point Repair, greater than 6 feet to 10 feet deep	EA	\$ 16,800.00	\$ 3,000.00	\$ 4,500.00	\$ 6,000.00
221		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 18,800.00	\$ 4,170.00	\$ 6,000.00	\$ 7,000.00
222		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 18,800.00	\$ 5,240.00	\$ 8,000.00	\$ 9,000.00
223		Additional Footage, up to 6 feet deep	LF	\$ 180.00	\$ 38.00	\$ 35.00	\$ 60.00
224		Additional Footage, greater than 6 feet to 10 feet deep	LF	\$ 200.00	\$ 40.00	\$ 45.00	\$ 70.00
225		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 210.00	\$ 44.00	\$ 55.00	\$ 80.00
226		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 210.00	\$ 69.00	\$ 75.00	\$ 100.00
227		Point Repair, up to 6 feet deep	EA	\$ 300.00	\$ 2,900.00	\$ 3,500.00	\$ 5,500.00
228		Point Repair, greater than 6 feet to 10 feet deep	EA	\$ 18,800.00	\$ 3,000.00	\$ 4,500.00	\$ 6,500.00
229	Pipe Installation - Open Cut RC greater than 36-inch to 48-inch	Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 18,800.00	\$ 4,170.00	\$ 6,000.00	\$ 8,000.00
230		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 20,000.00	\$ 5,240.00	\$ 8,000.00	\$ 10,000.00
231		Additional Footage, up to 6 feet deep	LF	\$ 20,200.00	\$ 38.00	\$ 40.00	\$ 65.00
232		Additional Footage, greater than 6 feet to 10 feet deep	LF	\$ 200.00	\$ 40.00	\$ 50.00	\$ 75.00
233		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 210.00	\$ 43.00	\$ 60.00	\$ 85.00
234		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 220.00	\$ 65.00	\$ 80.00	\$ 120.00
235		Point Repair, up to 6 feet deep	EA	\$ 240.00	\$ 3,850.00	\$ 3,500.00	\$ 5,500.00
236		Point Repair, greater than 6 feet to 10 feet deep	EA	\$ 18,000.00	\$ 4,940.00	\$ 4,500.00	\$ 6,500.00
237		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 18,800.00	\$ 4,910.00	\$ 6,000.00	\$ 9,500.00
238		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 20,000.00	\$ 5,700.00	\$ 8,000.00	\$ 11,000.00
239	Pipe Installation - Open Cut RC greater than 48-inch to 60-inch	Additional Footage, up to 6 feet deep	LF	\$ 300.00	\$ 68.00	\$ 55.00	\$ 70.00
240		Additional Footage, greater than 6 feet to 10 feet deep	LF	\$ 310.00	\$ 65.00	\$ 65.00	\$ 80.00
241		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 320.00	\$ 80.00	\$ 75.00	\$ 90.00
242		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 340.00	\$ 98.00	\$ 85.00	\$ 125.00
243		Point Repair, up to 10 feet deep	EA	\$ 20,800.00	\$ 3,750.00	\$ 5,000.00	\$ 8,500.00
244		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 24,000.00	\$ 4,700.00	\$ 7,000.00	\$ 9,500.00

				Civil Works, Inc.	DAF Concrete, Inc.	Don Hall Construction, Inc.	Jewel of the South, Inc.
No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost	Unit Cost
245	Pipe Installation - Open Cut RC greater than 60-inch to 72-inch	Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 26,000.00	\$ 6,430.00	\$ 9,000.00	\$ 11,500.00
246		Additional Footage, up to 10 feet deep	LF	\$ 1,200.00	\$ 78.00	\$ 70.00	\$ 115.00

247		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 1,400.00	\$ 79.00	\$ 80.00	\$ 135.00
248		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 1,600.00	\$ 100.00	\$ 95.00	\$ 165.00
249	Pipe Installation - Open Cut RC greater than 72-inch to 84-inch	Point Repair, up to 10 feet deep	EA	\$ 14,000.00	\$ 5,390.00	\$ 5,500.00	\$ 8,500.00
250		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 24,800.00	\$ 5,670.00	\$ 7,500.00	\$ 10,500.00
251		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 26,000.00	\$ 6,280.00	\$ 9,500.00	\$ 12,500.00
252		Additional Footage, up to 10 feet deep	LF	\$ 600.00	\$ 78.00	\$ 75.00	\$ 165.00
253		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 600.00	\$ 79.00	\$ 95.00	\$ 185.00
254		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 600.00	\$ 74.00	\$ 110.00	\$ 215.00
255	Pipe Installation - Open Cut RC greater than 84-inch to 96-inch	Point Repair, up to 10 feet deep	EA	\$ 32,000.00	\$ 5,945.00	\$ 6,000.00	\$ 11,000.00
256		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 32,600.00	\$ 6,340.00	\$ 7,500.00	\$ 13,000.00
257		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 32,800.00	\$ 8,370.00	\$ 9,500.00	\$ 15,000.00
258		Additional Footage, up to 10 feet deep	LF	\$ 600.00	\$ 100.00	\$ 80.00	\$ 165.00
259		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 680.00	\$ 114.00	\$ 100.00	\$ 195.00
260		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 680.00	\$ 140.00	\$ 120.00	\$ 255.00
261	Pipe Installation - Open Cut RC greater than 96-inch to 108-inch	Point Repair, up to 10 feet deep	EA	\$ 38,000.00	\$ 5,950.00	\$ 7,000.00	\$ 12,000.00
262		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 40,000.00	\$ 6,940.00	\$ 8,000.00	\$ 14,000.00
263		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 42,000.00	\$ 8,470.00	\$ 9,500.00	\$ 16,000.00
264		Additional Footage, up to 10 feet deep	LF	\$ 600.00	\$ 78.00	\$ 90.00	\$ 215.00
265		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 680.00	\$ 179.00	\$ 110.00	\$ 245.00
266		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 680.00	\$ 194.00	\$ 130.00	\$ 285.00
267	Pipe Installation - Open Cut HDPE up to 8-inch	Point Repair, up to 6 feet deep	EA	\$ 3,800.00	\$ 1,345.00	\$ 2,500.00	\$ 4,000.00
268		Point Repair, greater than 6 feet to 10 feet deep	EA	\$ 4,800.00	\$ 2,100.00	\$ 3,000.00	\$ 5,000.00
269		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 7,800.00	\$ 4,150.00	\$ 4,000.00	\$ 6,000.00
270		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 12,600.00	\$ 4,650.00	\$ 7,000.00	\$ 8,000.00
271		Additional Footage, up to 6 feet deep	LF	\$ 10.00	\$ 68.00	\$ 25.00	\$ 40.00
272		Additional Footage, greater than 6 feet to 10 feet deep	LF	\$ 32.00	\$ 50.00	\$ 30.00	\$ 50.00
273		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 48.00	\$ 60.00	\$ 40.00	\$ 60.00
274		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 72.00	\$ 71.00	\$ 60.00	\$ 80.00
275	Pipe Installation - Open Cut HDPE greater than 8-inch to 16-inch	Point Repair, up to 6 feet deep	EA	\$ 6,000.00	\$ 2,350.00	\$ 3,000.00	\$ 4,000.00
276		Point Repair, greater than 6 feet to 10 feet deep	EA	\$ 8,000.00	\$ 2,900.00	\$ 4,000.00	\$ 5,000.00
277		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 8,800.00	\$ 3,800.00	\$ 5,000.00	\$ 6,000.00
278		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 8,850.00	\$ 4,500.00	\$ 7,000.00	\$ 8,000.00
279		Additional Footage, up to 6 feet deep	LF	\$ 52.00	\$ 40.00	\$ 30.00	\$ 40.00
280		Additional Footage, greater than 6 feet to 10 feet deep	LF	\$ 74.00	\$ 39.00	\$ 35.00	\$ 50.00

281		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 74.00	\$ 44.00	\$ 50.00	\$ 60.00
282		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 88.00	\$ 63.00	\$ 70.00	\$ 80.00
283		Point Repair, up to 6 feet deep	EA	\$ 5,000.00	\$ 2,200.00	\$ 3,500.00	\$ 4,500.00
284		Point Repair, greater than 6 feet to 10 feet deep	EA	\$ 5,600.00	\$ 2,900.00	\$ 4,500.00	\$ 5,500.00
285		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 6,000.00	\$ 2,500.00	\$ 6,000.00	\$ 6,500.00

				Civil Works, Inc.	DAF Concrete, Inc.	Don Hall Construction, Inc.	Jewel of the South, Inc.
No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost	Unit Cost
286	Pipe Installation - Open Cut HDPE greater than 16-inch to 24-inch	Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 6,800.00	\$ 4,700.00	\$ 8,000.00	\$ 8,500.00
287		Additional Footage, up to 6 feet deep	LF	\$ 80.00	\$ 40.00	\$ 35.00	\$ 45.00
288		Additional Footage, greater than 6 feet to 10 feet deep	LF	\$ 88.00	\$ 41.00	\$ 45.00	\$ 55.00
289		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 88.00	\$ 53.00	\$ 55.00	\$ 65.00
290		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 100.00	\$ 64.00	\$ 75.00	\$ 85.00
291	Pipe Installation - Open Cut HDPE greater than 24-inch to 36-inch	Point Repair, up to 6 feet deep	EA	\$ 8,500.00	\$ 2,840.00	\$ 3,500.00	\$ 5,000.00
292		Point Repair, greater than 6 feet to 10 feet deep	EA	\$ 8,800.00	\$ 3,370.00	\$ 4,500.00	\$ 6,000.00
293		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 9,400.00	\$ 5,350.00	\$ 6,000.00	\$ 7,000.00
294		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 9,500.00	\$ 5,945.00	\$ 8,000.00	\$ 9,000.00
295		Additional Footage, up to 6 feet deep	LF	\$ 88.00	\$ 40.00	\$ 35.00	\$ 50.00
296		Additional Footage, greater than 6 feet to 10 feet deep	LF	\$ 88.00	\$ 43.00	\$ 45.00	\$ 60.00
297		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 88.00	\$ 59.00	\$ 55.00	\$ 70.00
298		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 90.00	\$ 80.00	\$ 75.00	\$ 90.00
299	Pipe Installation - Open Cut HDPE greater than 36-inch to 48-inch	Point Repair, up to 6 feet deep	EA	\$ 8,800.00	\$ 3,050.00	\$ 3,500.00	\$ 5,500.00
300		Point Repair, greater than 6 feet to 10 feet deep	EA	\$ 9,000.00	\$ 3,145.00	\$ 4,500.00	\$ 6,500.00
301		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 9,200.00	\$ 4,664.00	\$ 6,000.00	\$ 7,500.00
302		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 9,800.00	\$ 5,480.00	\$ 8,000.00	\$ 9,500.00
303		Additional Footage, up to 6 feet deep	LF	\$ 88.00	\$ 42.00	\$ 40.00	\$ 55.00
304		Additional Footage, greater than 6 feet to 10 feet deep	LF	\$ 88.00	\$ 44.00	\$ 50.00	\$ 65.00
305		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 108.00	\$ 60.00	\$ 65.00	\$ 75.00
306		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 190.00	\$ 75.00	\$ 85.00	\$ 95.00
307	Pipe Installation - Open Cut HDPE greater than 48-inch to 60-inch	Point Repair, up to 6 feet deep	EA	\$ 10,800.00	\$ 2,890.00	\$ 3,500.00	\$ 5,500.00
308		Point Repair, greater than 6 feet to 10 feet deep	EA	\$ 10,800.00	\$ 3,976.00	\$ 4,500.00	\$ 6,500.00
309		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 10,800.00	\$ 5,170.00	\$ 6,000.00	\$ 8,500.00
310		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 12,000.00	\$ 6,490.00	\$ 8,000.00	\$ 10,000.00

311		Additional Footage, up to 6 feet deep	LF	\$ 90.00	\$ 54.00	\$ 55.00	\$ 60.00
312		Additional Footage, greater than 6 feet to 10 feet deep	LF	\$ 110.00	\$ 63.00	\$ 65.00	\$ 70.00
313		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 120.00	\$ 75.00	\$ 75.00	\$ 80.00
314		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 180.00	\$ 84.00	\$ 85.00	\$ 125.00
315	Pipe Installation - Open Cut CM up to 15-inch	Point Repair, up to 6 feet deep	EA	\$ 3,200.00	\$ 2,790.00	\$ 3,000.00	\$ 4,000.00
316		Point Repair, greater than 6 feet to 10 feet deep	EA	\$ 6,200.00	\$ 3,150.00	\$ 3,500.00	\$ 5,000.00
317		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 6,800.00	\$ 4,850.00	\$ 5,500.00	\$ 6,000.00
318		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 7,200.00	\$ 6,200.00	\$ 7,500.00	\$ 8,000.00
319		Additional Footage, up to 6 feet deep	LF	\$ 62.00	\$ 2,150.00	\$ 30.00	\$ 40.00
320		Additional Footage, greater than 6 feet to 10 feet deep	LF	\$ 68.00	\$ 2,830.00	\$ 40.00	\$ 45.00
321		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 72.00	\$ 4,490.00	\$ 50.00	\$ 50.00
322		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 84.00	\$ 5,381.00	\$ 70.00	\$ 60.00
323	Pipe Installation - Open Cut	Point Repair, up to 6 feet deep	EA	\$ 4,800.00	\$ 2,894.00	\$ 3,500.00	\$ 4,000.00
324		Point Repair, greater than 6 feet to 10 feet deep	EA	\$ 5,200.00	\$ 2,996.00	\$ 4,500.00	\$ 5,000.00
325		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 5,800.00	\$ 4,472.00	\$ 6,000.00	\$ 6,000.00
326		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 6,000.00	\$ 5,474.00	\$ 8,000.00	\$ 8,000.00

				Civil Works, Inc.	DAF Concrete, Inc.	Don Hall Construction, Inc.	Jewel of the South, Inc.
No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost	Unit Cost
327	CM greater than 15-inch to 24-inch	Additional Footage, up to 6 feet deep	LF	\$ 66.00	\$ 28.00	\$ 35.00	\$ 40.00
328		Additional Footage, greater than 6 feet to 10 feet deep	LF	\$ 66.00	\$ 31.00	\$ 45.00	\$ 45.00
329		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 68.00	\$ 49.00	\$ 55.00	\$ 50.00
330		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 84.00	\$ 64.00	\$ 75.00	\$ 70.00
331	Pipe Installation - Open Cut CM greater than 24-inch to 36-inch	Point Repair, up to 6 feet deep	EA	\$ 8,000.00	\$ 2,894.00	\$ 3,500.00	\$ 4,000.00
332		Point Repair, greater than 6 feet to 10 feet deep	EA	\$ 8,200.00	\$ 2,948.00	\$ 4,500.00	\$ 5,000.00
333		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 8,400.00	\$ 4,581.00	\$ 6,000.00	\$ 6,000.00
334		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 8,600.00	\$ 5,494.00	\$ 8,000.00	\$ 8,000.00
335	CM greater than 36-inch to 48-inch	Additional Footage, up to 6 feet deep	LF	\$ 68.00	\$ 28.00	\$ 35.00	\$ 45.00
336		Additional Footage, greater than 6 feet to 10 feet deep	LF	\$ 72.00	\$ 31.00	\$ 45.00	\$ 50.00
337		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 74.00	\$ 49.00	\$ 55.00	\$ 55.00
338		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 92.00	\$ 64.00	\$ 75.00	\$ 80.00
339	Pipe Installation - Open Cut CM greater than 48-inch to 60-inch	Point Repair, up to 6 feet deep	EA	\$ 8,800.00	\$ 2,949.00	\$ 3,500.00	\$ 5,000.00
340		Point Repair, greater than 6 feet to 10 feet deep	EA	\$ 9,200.00	\$ 3,640.00	\$ 4,500.00	\$ 6,000.00
341		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 9,400.00	\$ 4,790.00	\$ 6,000.00	\$ 7,000.00

342		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 10,000.00	\$ 5,290.00	\$ 8,000.00	\$ 9,000.00
343		Additional Footage, up to 6 feet deep	LF	\$ 110.00	\$ 41.00	\$ 40.00	\$ 60.00
344		Additional Footage, greater than 6 feet to 10 feet deep	LF	\$ 110.00	\$ 53.00	\$ 50.00	\$ 70.00
345		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 120.00	\$ 70.00	\$ 65.00	\$ 80.00
346		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 180.00	\$ 81.00	\$ 85.00	\$ 100.00
347		Point Repair, up to 6 feet deep	EA	\$ 9,000.00	\$ 3,800.00	\$ 3,500.00	\$ 5,500.00
348		Point Repair, greater than 6 feet to 10 feet deep	EA	\$ 9,200.00	\$ 4,670.00	\$ 4,500.00	\$ 6,500.00
349		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 9,400.00	\$ 5,392.00	\$ 6,000.00	\$ 9,500.00
350		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 9,600.00	\$ 5,874.00	\$ 8,000.00	\$ 11,500.00
351	Pipe Installation - Open Cut CM greater than 48-inch to 60-inch	Additional Footage, up to 6 feet deep	LF	\$ 110.00	\$ 70.00	\$ 55.00	\$ 70.00
352		Additional Footage, greater than 6 feet to 10 feet deep	LF	\$ 120.00	\$ 54.00	\$ 65.00	\$ 80.00
353		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 140.00	\$ 76.00	\$ 75.00	\$ 90.00
354		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 180.00	\$ 92.00	\$ 85.00	\$ 125.00
355		Point Repair, up to 10 feet deep	EA	\$ 12,000.00	\$ 2,930.00	\$ 4,500.00	\$ 8,500.00
356		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 12,200.00	\$ 3,100.00	\$ 6,000.00	\$ 9,500.00
357		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 12,800.00	\$ 4,250.00	\$ 8,000.00	\$ 11,500.00
358	Pipe Installation - Open Cut CM greater than 60-inch to 72-inch	Additional Footage, up to 10 feet deep	LF	\$ 120.00	\$ 50.00	\$ 65.00	\$ 75.00
359		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 180.00	\$ 65.00	\$ 75.00	\$ 95.00
360		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 200.00	\$ 70.00	\$ 85.00	\$ 135.00
361		Point Repair, up to 10 feet deep	EA	\$ 12,080.00	\$ 2,930.00	\$ 4,500.00	\$ 8,500.00
362		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 12,800.00	\$ 4,250.00	\$ 6,000.00	\$ 10,500.00
363		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 14,000.00	\$ 5,111.00	\$ 8,000.00	\$ 12,500.00
364	Pipe Installation - Open Cut CM greater than 72-inch to 84-inch	Additional Footage, up to 10 feet deep	LF	\$ 200.00	\$ 41.00	\$ 65.00	\$ 80.00
365		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 200.00	\$ 53.00	\$ 75.00	\$ 110.00
366		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 200.00	\$ 70.00	\$ 85.00	\$ 155.00
367		Point Repair, up to 10 feet deep	EA	\$ 12,800.00	\$ 3,800.00	\$ 4,500.00	\$ 11,000.00

No.	Work Item	Detail	Unit	Civil Works, Inc. Unit Cost	DAF Concrete, Inc. Unit Cost	Don Hall Construction, Inc. Unit Cost	Jewel of the South, Inc. Unit Cost
368	Pipe Installation - Open Cut CM greater than 84-inch to 96-inch	Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 12,800.00	\$ 4,250.00	\$ 6,000.00	\$ 13,000.00
369		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 12,800.00	\$ 4,860.00	\$ 8,000.00	\$ 15,000.00
370		Additional Footage, up to 10 feet deep	LF	\$ 200.00	\$ 50.00	\$ 65.00	\$ 85.00
371		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 200.00	\$ 65.00	\$ 75.00	\$ 115.00
372		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 280.00	\$ 70.00	\$ 85.00	\$ 165.00
373	Pipe Installation - Open Cut FRPM 18-inch to 24-inch	Point Repair, up to 6 feet deep	EA	\$ 10,200.00	\$ 3,460.00	\$ 5,000.00	\$ 4,000.00

374		Point Repair, greater than 6 feet to 10 feet deep	EA	\$ 10,800.00	\$ 3,270.00	\$ 6,000.00	\$ 5,000.00
375		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 12,000.00	\$ 5,740.00	\$ 7,000.00	\$ 6,000.00
376		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 12,800.00	\$ 5,894.00	\$ 9,000.00	\$ 8,000.00
377		Additional Footage, up to 6 feet deep	LF	\$ 120.00	\$ 28.00	\$ 50.00	\$ 40.00
378		Additional Footage, greater than 6 feet to 10 feet deep	LF	\$ 120.00	\$ 35.00	\$ 60.00	\$ 50.00
379		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 210.00	\$ 70.00	\$ 70.00	\$ 60.00
380		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 280.00	\$ 98.00	\$ 90.00	\$ 80.00
381	Pipe Installation - Open Cut FRPM greater than 24-inch to 36-inch	Point Repair, up to 6 feet deep	EA	\$ 10,500.00	\$ 3,150.00	\$ 5,000.00	\$ 4,000.00
382		Point Repair, greater than 6 feet to 10 feet deep	EA	\$ 10,800.00	\$ 4,220.00	\$ 6,000.00	\$ 5,000.00
383		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 10,800.00	\$ 2,750.00	\$ 7,000.00	\$ 6,000.00
384		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 10,800.00	\$ 3,270.00	\$ 9,000.00	\$ 8,000.00
385		Additional Footage, up to 6 feet deep	LF	\$ 180.00	\$ 38.00	\$ 55.00	\$ 45.00
386		Additional Footage, greater than 6 feet to 10 feet deep	LF	\$ 210.00	\$ 53.00	\$ 65.00	\$ 55.00
387		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 240.00	\$ 42.00	\$ 75.00	\$ 65.00
388		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 310.00	\$ 98.00	\$ 95.00	\$ 85.00
389	Pipe Installation - Open Cut FRPM greater than 36-inch to 48-inch	Point Repair, up to 6 feet deep	EA	\$ 10,000.00	\$ 4,970.00	\$ 5,000.00	\$ 4,500.00
390		Point Repair, greater than 6 feet to 10 feet deep	EA	\$ 10,200.00	\$ 4,980.00	\$ 6,000.00	\$ 5,500.00
391		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 10,400.00	\$ 5,650.00	\$ 7,000.00	\$ 6,500.00
392		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 10,000.00	\$ 7,640.00	\$ 9,000.00	\$ 8,500.00
393		Additional Footage, up to 6 feet deep	LF	\$ 210.00	\$ 43.00	\$ 60.00	\$ 50.00
394		Additional Footage, greater than 6 feet to 10 feet deep	LF	\$ 210.00	\$ 40.00	\$ 70.00	\$ 60.00
395		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 210.00	\$ 78.00	\$ 80.00	\$ 70.00
396		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 240.00	\$ 80.00	\$ 95.00	\$ 90.00
397	Pipe Installation - Open Cut FRPM greater than 48-inch to 60-inch	Point Repair, up to 6 feet deep	EA	\$ 10,800.00	\$ 4,115.00	\$ 5,500.00	\$ 5,500.00
398		Point Repair, greater than 6 feet to 10 feet deep	EA	\$ 10,000.00	\$ 5,300.00	\$ 6,500.00	\$ 6,500.00
399		Point Repair, greater than 10 feet to 14 feet deep	EA	\$ 10,800.00	\$ 5,800.00	\$ 7,500.00	\$ 9,500.00
400		Point Repair, greater than 14 feet to 18 feet deep	EA	\$ 14,800.00	\$ 6,900.00	\$ 9,500.00	\$ 11,500.00
401		Additional Footage, up to 6 feet deep	LF	\$ 210.00	\$ 48.00	\$ 60.00	\$ 60.00
402		Additional Footage, greater than 6 feet to 10 feet deep	LF	\$ 210.00	\$ 64.00	\$ 70.00	\$ 70.00
403		Additional Footage, greater than 10 feet to 14 feet deep	LF	\$ 210.00	\$ 96.00	\$ 80.00	\$ 80.00
404		Additional Footage, greater than 14 feet to 18 feet deep	LF	\$ 210.00	\$ 106.00	\$ 95.00	\$ 125.00
405	Pipe Installation - Open Cut Steel Casing up to 18-inch	Up to 6 feet deep	LF	\$ 56.00	\$ 40.00	\$ 90.00	\$ 35.00
406		Greater than 6 feet to 10 feet deep	LF	\$ 62.00	\$ 42.00	\$ 95.00	\$ 45.00

407	Greater than 10 feet to 14 feet deep	LF	\$ 78.00	\$ 55.00	\$ 100.00	\$ 60.00
408	Greater than 14 feet to 18 feet deep	LF	\$ 82.00	\$ 60.00	\$ 120.00	\$ 75.00

				Civil Works, Inc.	DAF Concrete, Inc.	Don Hall Construction, Inc.	Jewel of the South, Inc.
No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost	Unit Cost
409		Weld	EA	\$ 2,400.00	\$ 65.00	\$ 50.00	\$ 600.00
410	Pipe Installation - Open Cut Steel Casing greater than 18-inch to 24-inch	Up to 6 feet deep	LF	\$ 72.00	\$ 68.00	\$ 105.00	\$ 45.00
411		Greater than 6 feet to 10 feet deep	LF	\$ 120.00	\$ 75.00	\$ 115.00	\$ 55.00
412		Greater than 10 feet to 14 feet deep	LF	\$ 240.00	\$ 96.00	\$ 125.00	\$ 70.00
413		Greater than 14 feet to 18 feet deep	LF	\$ 310.00	\$ 100.00	\$ 140.00	\$ 80.00
414		Weld	EA	\$ 3,200.00	\$ 240.00	\$ 60.00	\$ 750.00
415	Pipe Installation - Open Cut Steel Casing greater than 24-inch to 36-inch	Up to 6 feet deep	LF	\$ 84.00	\$ 28.00	\$ 195.00	\$ 45.00
416		Greater than 6 feet to 10 feet deep	LF	\$ 120.00	\$ 60.00	\$ 205.00	\$ 55.00
417		Greater than 10 feet to 14 feet deep	LF	\$ 180.00	\$ 64.00	\$ 215.00	\$ 70.00
418		Greater than 14 feet to 18 feet deep	LF	\$ 240.00	\$ 90.00	\$ 230.00	\$ 80.00
419		Weld	EA	\$ 4,200.00	\$ 210.00	\$ 100.00	\$ 1,000.00
420	Pipe Installation - Open Cut Steel Casing greater than 36-inch to 48-inch	Up to 6 feet deep	LF	\$ 480.00	\$ 205.00	\$ 265.00	\$ 50.00
421		Greater than 6 feet to 10 feet deep	LF	\$ 510.00	\$ 172.00	\$ 275.00	\$ 60.00
422		Greater than 10 feet to 14 feet deep	LF	\$ 610.00	\$ 540.00	\$ 295.00	\$ 75.00
423		Greater than 14 feet to 18 feet deep	LF	\$ 620.00	\$ 185.00	\$ 315.00	\$ 95.00
424		Weld	EA	\$ 3,200.00	\$ 190.00	\$ 150.00	\$ 850.00
425	Cased Bore 12"	Non Steered	LF	\$ 210.00	\$ 510.00	\$ 170.00	\$ 225.00
426		Steered	LF	\$ 300.00	\$ 210.00	\$ 205.00	\$ 280.00
427		Rock Bore (Additional Per)	LF	\$ 560.00	\$ 209.00	\$ 500.00	\$ 750.00
428		Casing Thickness .375 (Additional Per)	LF	\$ 120.00	\$ 540.00	\$ 15.00	\$ 30.00
429		Casing Thickness .50 (Additional Per)	LF	\$ 180.00	\$ 203.00	\$ 20.00	\$ 40.00
430	Cased Bore 18"	Non Steered	LF	\$ 420.00	\$ 294.00	\$ 260.00	\$ 265.00
431		Steered	LF	\$ 560.00	\$ 240.00	\$ 275.00	\$ 305.00
432		Rock Bore (Additional Per)	LF	\$ 620.00	\$ 550.00	\$ 500.00	\$ 850.00
433		Casing Thickness .375 (Additional Per)	LF	\$ 200.00	\$ 380.00	\$ 25.00	\$ 30.00
434		Casing Thickness .50 (Additional Per)	LF	\$ 216.00	\$ 360.00	\$ 30.00	\$ 40.00
435	Cased Bore 24"	Non Steered	LF	\$ 680.00	\$ 390.00	\$ 320.00	\$ 275.00
436		Steered	LF	\$ 720.00	\$ 410.00	\$ 350.00	\$ 325.00
437		Rock Bore (Additional Per)	LF	\$ 800.00	\$ 340.00	\$ 500.00	\$ 895.00

438		Casing Thickness .375 (Additional Per)	LF	\$ 210.00	\$ 240.00	\$ 0.50	\$ 30.00
439		Casing Thickness .50 (Additional Per)	LF	\$ 310.00	\$ 510.00	\$ 31.00	\$ 40.00
440	Cased Bore 36"	Non Steered	LF	\$ 700.00	\$ 390.00	\$ 430.00	\$ 285.00
441		Steered	LF	\$ 720.00	\$ 410.00	\$ 465.00	\$ 335.00
442		Rock Bore (Additional Per)	LF	\$ 780.00	\$ 240.00	\$ 600.00	\$ 995.00
443		Casing Thickness .375 (Additional Per)	LF	\$ 180.00	\$ 480.00	\$ 0.50	\$ 50.00
444		Casing Thickness .50 (Additional Per)	LF	\$ 210.00	\$ 240.00	\$ 0.50	\$ 60.00
445	Cased Bore 48"	Non Steered	LF	\$ 850.00	\$ 560.00	\$ 725.00	\$ 550.00
446		Steered	LF	\$ 1,200.00	\$ 390.00	\$ 725.00	\$ 625.00
447		Rock Bore (Additional Per)	LF	\$ 210.00	\$ 419.00	\$ 700.00	\$ 1,025.00
448		Casing Thickness .375 (Additional Per)	LF	\$ 150.00	\$ 370.00	\$ 0.50	\$ 50.00
449		Casing Thickness .50 (Additional Per)	LF	\$ 180.00	\$ 480.00	\$ 0.50	\$ 60.00

				Civil Works, Inc.	DAF Concrete, Inc.	Don Hall Construction, Inc.	Jewel of the South, Inc.
No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost	Unit Cost
450	Bore Entry Pit	Up to 6 feet deep	VF	\$ 100.00	\$ 188.00	\$ 200.00	\$ 250.00
451		Greater than 6 feet deep to 12 feet deep	VF	\$ 200.00	\$ 290.00	\$ 220.00	\$ 285.00
452		Greater than 12 feet deep to 18 feet deep	VF	\$ 200.00	\$ 210.00	\$ 250.00	\$ 315.00
453		Greater than 18 feet deep	VF	\$ 240.00	\$ 790.00	\$ 625.00	\$ 725.00
454	Bore Receiving Pit	Up to 6 feet deep	VF	\$ 50.00	\$ 198.00	\$ 100.00	\$ 225.00
455		Greater than 6 feet deep to 12 feet deep	VF	\$ 50.00	\$ 290.00	\$ 120.00	\$ 275.00
456		Greater than 12 feet deep to 18 feet deep	VF	\$ 50.00	\$ 510.00	\$ 150.00	\$ 300.00
457		Greater than 18 feet deep	VF	\$ 50.00	\$ 790.00	\$ 250.00	\$ 700.00
458	Pipe Insertion into Steel Casing PVC up to 8-inch		LF	\$ 20.00	\$ 30.00	\$ 50.00	\$ 25.00
459	Pipe Insertion into Steel Casing PVC greater than 8-inch to 16-inch		LF	\$ 20.00	\$ 30.00	\$ 65.00	\$ 28.00
460	Pipe Insertion into Steel Casing PVC greater than 16-inch to 24-inch		LF	\$ 24.00	\$ 30.00	\$ 95.00	\$ 35.00
461	Pipe Insertion into Steel Casing DI up to 8-inch		LF	\$ 20.00	\$ 30.00	\$ 50.00	\$ 28.00
462	Pipe Insertion into Steel Casing DI greater than 8-inch to 16-inch		LF	\$ 20.00	\$ 30.00	\$ 65.00	\$ 30.00
463	Pipe Insertion into Steel Casing DI greater than 16-inch to 24-inch		LF	\$ 32.00	\$ 30.00	\$ 95.00	\$ 35.00
464	Pipe Insertion into Steel Casing DI greater than 24-inch to 36-inch		LF	\$ 48.00	\$ 30.00	\$ 105.00	\$ 45.00
465	Polyethylene Pipe Encasement	For Pipe up to 16-inch	LF	\$ 15.00	\$ 8.00	\$ 5.00	\$ 7.00
466		For Pipe greater than 16-inch to 24-inch	LF	\$ 16.00	\$ 9.00	\$ 6.00	\$ 7.00
467		For Pipe greater than 24-inch to 36-inch	LF	\$ 18.00	\$ 10.00	\$ 7.00	\$ 7.00
468		For Pipe greater than 36-inch to 48-inch	LF	\$ 25.00	\$ 14.00	\$ 8.00	\$ 7.00

469	Core Into Pipe	Up to 2-inch core into pipe	EA	\$ 1,200.00	\$ 900.00	\$ 700.00	\$ 875.00
470		Greater than 2-inch to 6-inch core into pipe	EA	\$ 1,200.00	\$ 1,000.00	\$ 800.00	\$ 1,025.00
471		8-inch core into pipe	EA	\$ 1,200.00	\$ 1,000.00	\$ 900.00	\$ 1,225.00
472		10-inch core into pipe	EA	\$ 1,800.00	\$ 2,250.00	\$ 1,000.00	\$ 1,325.00
473		12-inch core into pipe	EA	\$ 2,400.00	\$ 1,310.00	\$ 1,200.00	\$ 1,425.00
474		16-inch core into pipe	EA	\$ 2,800.00	\$ 4,050.00	\$ 3,000.00	\$ 4,825.00
475		18-inch core into pipe	EA	\$ 3,000.00	\$ 5,280.00	\$ 5,000.00	\$ 6,575.00
476		20-inch core into pipe	EA	\$ 3,400.00	\$ 5,800.00	\$ 6,000.00	\$ 7,225.00
477		24-inch core into pipe	EA	\$ 3,800.00	\$ 6,940.00	\$ 7,000.00	\$ 7,775.00
478	Connect Fitting / Valve to Pipe Brass / Bronze Fitting / Valve	up to 2-inch	EA	\$ 600.00	\$ 310.00	\$ 200.00	\$ 550.00
479	Connect Fitting / Valve to Pipe PVC Fitting / Valve	up to 8-inch	EA	\$ 600.00	\$ 390.00	\$ 300.00	\$ 950.00
480	Connect Fitting / Valve to Pipe PVC Fitting / Valve	Greater than 8-inch to 16-inch	EA	\$ 750.00	\$ 680.00	\$ 500.00	\$ 1,750.00
481	Connect Fitting / Valve to Pipe PVC Fitting / Valve	Greater than 16-inch to 24-inch	EA	\$ 850.00	\$ 690.00	\$ 700.00	\$ 2,150.00
482	Connect Fitting / Valve to Pipe DI Fitting / Valve	up to 8-inch	EA	\$ 880.00	\$ 390.00	\$ 300.00	\$ 1,550.00
483	Connect Fitting / Valve to Pipe DI Fitting / Valve	Greater than 8-inch to 16-inch	EA	\$ 1,200.00	\$ 70.00	\$ 500.00	\$ 1,950.00

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No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost	Unit Cost
484	Connect Fitting / Valve to Pipe DI Fitting / Valve	Greater than 16-inch to 24-inch	EA	\$ 1,600.00	\$ 1,350.00	\$ 800.00	\$ 2,625.00
485	Connect Fitting / Valve to Pipe DI Fitting / Valve	Greater than 24-inch to 36-inch	EA	\$ 1,800.00	\$ 1,290.00	\$ 1,000.00	\$ 3,325.00
486	Connect Fitting / Valve to Pipe DI Fitting / Valve	Greater than 36-inch to 48-inch	EA	\$ 1,800.00	\$ 1,290.00	\$ 1,500.00	\$ 5,225.00
487	Fire Hydrant Installation	Up to 5-foot Bury Depth	EA	\$ 1,500.00	\$ 800.00	\$ 400.00	\$ 2,300.00
488		Greater than 5-foot Bury Depth	EA	\$ 1,600.00	\$ 800.00	\$ 600.00	\$ 2,500.00
489		Post Hydrant	EA	\$ 800.00	\$ 950.00	\$ 400.00	\$ 2,300.00
490	Fire Hydrant (Existing) Vertical Adjustment		VF	\$ 500.00	\$ 230.00	\$ 200.00	\$ 350.00
491	Fire Hydrant Removal	Up to 5-foot Bury Depth	EA	\$ 1,400.00	\$ 890.00	\$ 400.00	\$ 800.00
492		Greater than 5-foot Bury Depth	EA	\$ 1,400.00	\$ 840.00	\$ 600.00	\$ 850.00
493		Post Hydrant	EA	\$ 800.00	\$ 960.00	\$ 400.00	\$ 650.00
494	Air / Vacuum Release Valve Installation		EA	\$ 1,400.00	\$ 230.00	\$ 1,200.00	\$ 1,925.00
495	Concrete Thrust Restraint	Tie-Back	EA	\$ 800.00	\$ 850.00	\$ 700.00	\$ 1,100.00
496		Block for Pipe up to 16-inch	EA	\$ 600.00	\$ 850.00	\$ 500.00	\$ 1,550.00
497		Block for Pipe greater than 16-inch to 24-inch	EA	\$ 680.00	\$ 990.00	\$ 700.00	\$ 1,850.00
498		Block for Pipe greater than 24-inch to 36-inch	EA	\$ 1,280.00	\$ 1,000.00	\$ 900.00	\$ 2,650.00
499	Pipe Collar		CF	\$ 200.00	\$ 50.00	\$ 40.00	\$ 125.00
500	Flared End Section Installation	For Pipe up to 16-inch	EA	\$ 1,200.00	\$ 345.00	\$ 300.00	\$ 575.00

501		For Pipe greater than 16-inch to 24-inch	EA	\$ 2,000.00	\$ 396.00	\$ 400.00	\$ 675.00
502		For Pipe greater than 24-inch to 36-inch	EA	\$ 2,000.00	\$ 743.00	\$ 500.00	\$ 875.00
503		For Pipe greater than 36-inch to 48-inch	EA	\$ 2,400.00	\$ 754.00	\$ 600.00	\$ 975.00
504	Precast Headwall Installation	For Pipe up to 16 Inch	EA	\$ 1,800.00	\$ 778.00	\$ 600.00	\$ 675.00
505		For Pipe greater than 16 Inch to 24 Inch	EA	\$ 3,000.00	\$ 785.00	\$ 700.00	\$ 825.00
506		For Pipe greater than 24 Inch to 36 Inch	EA	\$ 3,200.00	\$ 800.00	\$ 700.00	\$ 975.00
507		For Pipe greater than 36 Inch to 48 Inch	EA	\$ 3,200.00	\$ 890.00	\$ 800.00	\$ 1,050.00
508		For Pipe greater than 48 Inch to 60 Inch	EA	\$ 3,400.00	\$ 891.00	\$ 900.00	\$ 1,275.00
509		For Pipe greater than 60 Inch to 72 Inch	EA	\$ 4,000.00	\$ 900.00	\$ 1,000.00	\$ 1,375.00
510		For Pipe greater than 72 Inch to 84 Inch	EA	\$ 4,800.00	\$ 950.00	\$ 1,100.00	\$ 1,575.00
511		For Pipe greater than 84 Inch to 96 Inch	EA	\$ 6,000.00	\$ 1,150.00	\$ 1,200.00	\$ 2,125.00
512	Precast Manhole Installation 4-Foot Diameter	Base Slab	EA	\$ 1,200.00	\$ 650.00	\$ 500.00	\$ 375.00
513		Riser	VF	\$ 100.00	\$ 50.00	\$ 100.00	\$ 325.00
514	Precast Manhole Installation 5-Foot Diameter	Base Slab	EA	\$ 2,010.00	\$ 650.00	\$ 600.00	\$ 575.00
515		Riser	VF	\$ 120.00	\$ 200.00	\$ 120.00	\$ 425.00
516	Precast Manhole Installation 6-Foot Diameter	Base Slab	EA	\$ 2,400.00	\$ 900.00	\$ 700.00	\$ 650.00
517		Riser	VF	\$ 120.00	\$ 140.00	\$ 130.00	\$ 450.00
518	Precast Manhole Installation 7-Foot Diameter	Base Slab	EA	\$ 4,200.00	\$ 1,140.00	\$ 1,000.00	\$ 700.00
519		Riser	VF	\$ 230.00	\$ 170.00	\$ 150.00	\$ 525.00
520	Precast Manhole Installation 8-Foot Diameter	Base Slab	EA	\$ 4,800.00	\$ 1,670.00	\$ 2,000.00	\$ 1,625.00
521		Riser	VF	\$ 280.00	\$ 370.00	\$ 200.00	\$ 875.00
522	Precast Manhole Installation	Base Slab	EA	\$ 5,200.00	\$ 4,130.00	\$ 3,000.00	\$ 3,375.00

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No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost	Unit Cost
523	9-Foot Diameter	Riser	VF	\$ 300.00	\$ 340.00	\$ 250.00	\$ 925.00
524	Precast Manhole Installation 10-Foot Diameter	Base Slab	EA	\$ 6,000.00	\$ 6,460.00	\$ 4,000.00	\$ 4,250.00
525		Riser	VF	\$ 320.00	\$ 560.00	\$ 300.00	\$ 975.00
526	Precast Box / Vault Installation Up to 5-Foot by 5-Foot	Base Slab	EA	\$ 1,200.00	\$ 800.00	\$ 600.00	\$ 2,800.00
527		Riser	VF	\$ 200.00	\$ 215.00	\$ 120.00	\$ 275.00
528	Precast Box / Vault Installation Greater than 5-Foot by 5-Foot to 8-Foot by 8-Foot	Base Slab	EA	\$ 3,400.00	\$ 2,870.00	\$ 2,000.00	\$ 2,800.00
529		Riser	VF	\$ 320.00	\$ 215.00	\$ 200.00	\$ 325.00
530	Precast Box / Vault Installation 8-Foot by 12-Foot	Base Slab	EA	\$ 3,600.00	\$ 2,890.00	\$ 3,000.00	\$ 4,550.00
531		Riser	VF	\$ 200.00	\$ 180.00	\$ 250.00	\$ 350.00

532	Precast Box / Vault Installation 8-Foot by 16-Foot	Base Slab	EA	\$ 3,800.00	\$ 4,430.00	\$ 4,000.00	\$ 4,800.00
533		Riser	VF	\$ 300.00	\$ 460.00	\$ 300.00	\$ 375.00
534	Manhole Invert Construction 4-Foot Diameter Manhole	Cast-in-Place Concrete	EA	\$ 600.00	\$ 560.00	\$ 450.00	\$ 550.00
535		Brick and Mortar	EA	\$ 800.00	\$ 580.00	\$ 450.00	\$ 575.00
536	Manhole Invert Construction 5-Foot Diameter Manhole	Cast-in-Place Concrete	EA	\$ 1,200.00	\$ 77.00	\$ 550.00	\$ 600.00
537		Brick and Mortar	EA	\$ 1,600.00	\$ 450.00	\$ 550.00	\$ 625.00
538	Manhole Invert Construction 6-Foot Diameter Manhole	Cast-in-Place Concrete	EA	\$ 1,800.00	\$ 450.00	\$ 650.00	\$ 650.00
539		Brick and Mortar	EA	\$ 2,200.00	\$ 590.00	\$ 650.00	\$ 675.00
540	Manhole Invert Construction 7-Foot Diameter Manhole	Cast-in-Place Concrete	EA	\$ 2,200.00	\$ 970.00	\$ 800.00	\$ 725.00
541		Brick and Mortar	EA	\$ 2,200.00	\$ 940.00	\$ 800.00	\$ 750.00
542	Manhole Invert Construction 8-Foot Diameter Manhole	Cast-in-Place Concrete	EA	\$ 2,800.00	\$ 845.00	\$ 850.00	\$ 950.00
543		Brick and Mortar	EA	\$ 2,980.00	\$ 890.00	\$ 850.00	\$ 9,750.00
544	Manhole Invert Construction 9-Foot Diameter Manhole	Cast-in-Place Concrete	EA	\$ 3,200.00	\$ 845.00	\$ 900.00	\$ 1,125.00
545		Brick and Mortar	EA	\$ 3,800.00	\$ 845.00	\$ 900.00	\$ 1,150.00
546	Manhole Invert Construction 10-Foot Diameter Manhole	Cast-in-Place Concrete	EA	\$ 4,200.00	\$ 845.00	\$ 1,000.00	\$ 1,450.00
547		Brick and Mortar	EA	\$ 4,800.00	\$ 845.00	\$ 1,000.00	\$ 1,475.00
548	Other Invert Construction	Cast-in-Place Concrete	SF	\$ 10.00	\$ 35.00	\$ 30.00	\$ 35.00
549		Brick and Mortar	SF	\$ 28.00	\$ 20.00	\$ 30.00	\$ 40.00
550	Ring and Cover Installation	Installation	EA	\$ 400.00	\$ 50.00	\$ 100.00	\$ 225.00
551		Additional Height, Per Brick Layer	EA	\$ 100.00	\$ 55.00	\$ 200.00	\$ 150.00
552	Precast Catch Basin Spillway Installation		EA	\$ 800.00	\$ 700.00	\$ 500.00	\$ 675.00
553	Precast Catch Basin Top Slab Installation		EA	\$ 1,200.00	\$ 700.00	\$ 500.00	\$ 675.00
554	Concrete Core	Up to 4-inch diameter core	EA	\$ 200.00	\$ 340.00	\$ 400.00	\$ 450.00
555		Greater than 4-inch to 12-inch diameter core	EA	\$ 800.00	\$ 340.00	\$ 450.00	\$ 500.00
556		Greater than 12-inch to 18-inch diameter core	EA	\$ 1,200.00	\$ 490.00	\$ 500.00	\$ 600.00
557		Greater than 18-inch to 24-inch diameter core	EA	\$ 2,400.00	\$ 580.00	\$ 550.00	\$ 700.00
558	Brick Work	1 Brick Deep Wall Construction	SF	\$ 100.00	\$ 25.00	\$ 45.00	\$ 30.00
559		2 Brick Deep Wall Construction	SF	\$ 200.00	\$ 40.00	\$ 70.00	\$ 45.00
560		3 Brick Deep Wall Construction	SF	\$ 300.00	\$ 40.00	\$ 95.00	\$ 70.00
561		4 Brick Deep Wall Construction	SF	\$ 400.00	\$ 40.00	\$ 120.00	\$ 120.00
562	Concrete Work	Bulk	CY	\$ 480.00	\$ 250.00	\$ 400.00	\$ 550.00
563		Form Work	SF	\$ 40.00	\$ 2.00	\$ 3.50	\$ 5.25

Civil Works, Inc.	DAF Concrete, Inc.	Don Hall Construction, Inc.	Jewel of the South, Inc.
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No.	Work Item	Detail	Unit	Unit Cost	Unit Cost	Unit Cost	Unit Cost
564		Steel Reinforcement	LF	\$ 40.00	\$ 3.00	\$ 6.50	\$ 6.75
565	Cementitious Grouting	Grout Mixed by Hand	CF	\$ 40.00	\$ 25.00	\$ 30.00	\$ 35.00
566		Grout Mixed by Plant	CY	\$ 480.00	\$ 350.00	\$ 400.00	\$ 425.00
567		Pump Mobilization	EA	\$ 2,800.00	\$ 1,800.00	\$ 2,500.00	\$ 2,500.00
568	Chemical Grouting	Grout	GAL	\$ 680.00	\$ 100.00	\$ 200.00	\$ 275.00
569		Pump Mobilization	EA	\$ 4,200.00	\$ 1,800.00	\$ 2,500.00	\$ 2,500.00
570	Pressure Testing	Low Pressure Air	EA	\$ 900.00	\$ 640.00	\$ 500.00	\$ 700.00
571		Hydrostatic	EA	\$ 2,800.00	\$ 600.00	\$ 500.00	\$ 650.00
572	CCTV Testing	With or Without PACP Assessment	LF	\$ 50.00	\$ 600.00	\$ 1.50	\$ 3.00
573	Deformation Testing		LF	\$ 80.00	\$ 400.00	\$ 1.50	\$ 3.50
574	Pipe Disinfection		GAL	\$ 120.00	\$ 400.00	\$ 40.00	\$ 300.00
575	Hourly Labor	Superintendent	HR	\$ 544.00	\$ 40.00	\$ 35.00	\$ 45.00
576		Foreman	HR	\$ 736.00	\$ 30.00	\$ 30.00	\$ 42.50
577		Operator	HR	\$ 768.00	\$ 35.00	\$ 25.00	\$ 38.00
578		Pipe Layer	HR	\$ 448.00	\$ 20.00	\$ 23.00	\$ 37.50
579		Laborer	HR	\$ 528.00	\$ 24.00	\$ 20.00	\$ 20.00
580		Dump Truck Driver	HR	\$ 480.00	\$ 140.00	\$ 25.00	\$ 30.00
581	Hourly Equipment	78,000 # Class Excavator	HR	\$ 704.00	\$ 140.00	\$ 130.00	\$ 135.00
582		52,000 # Class Excavator	HR	\$ 576.00	\$ 70.00	\$ 120.00	\$ 115.00
583		45,000 # Class Excavator	HR	\$ 416.00	\$ 65.00	\$ 110.00	\$ 110.00
584		17,000 # Class Excavator	HR	\$ 384.00	\$ 75.00	\$ 85.00	\$ 100.00
585		10,000 # Class Excavator	HR	\$ 336.00	\$ 75.00	\$ 85.00	\$ 95.00
586		30,000 # Class Rubber Tired Loader	HR	\$ 384.00	\$ 75.00	\$ 85.00	\$ 95.00
587		Rubber Tired Backhoe / Loader	HR	\$ 336.00	\$ 75.00	\$ 75.00	\$ 75.00
588		18,000 # Class Track Dozier	HR	\$ 432.00	\$ 50.00	\$ 85.00	\$ 75.00
589		Vibratory Soil Compactor (Ride On) Up to 66-inch compaction width	HR	\$ 224.00	\$ 45.00	\$ 75.00	\$ 65.00
590		Vibratory Soil Compactor (Remote Controlled) Up to 48-inch compaction width	HR	\$ 192.00	\$ 75.00	\$ 50.00	\$ 65.00
591		Dump Truck (Tandem Rear Axle)	HR	\$ 1,440.00	\$ 210.00	\$ 70.00	\$ 95.00
592		Hydro Excavator	HR	\$ 2,200.00	\$ 240.00	\$ 270.00	\$ 250.00
593		Utility Truck Fully Equipped with Hand Tools, Air Tools, Cutting Tools, Mudhog Pump, Generator, Air Compressor, Mechanical Tamp	HR	\$ 90.00	\$ 40.00	\$ 25.00	\$ 35.00
594	Traffic Control Rental		EA	10%	10%	10%	10%
595	Equipment Rental		EA	10%	10%	10%	10%
596	Supplied Material		EA	10%	10%	10%	10%
597	Specialty Services		EA	10%	10%	10%	10%

Recommendation:

CCWA staff recommended awarding the Annual Contract for General Pipe Work to Don Hall Construction as the primary vendor at the bid pricing provided. To ensure that CCWA's infrastructure repair demands can be met, staff also recommended that DAF Concrete, Inc. and Jewel of the South, Inc, are selected as back-up contractors.

UPON MOTION by Marie Barber and second by Dr. Cephus Jackson, it was unanimously

RESOLVED to award the Annual Contract for General Pipe Work to Don Hall Construction as the primary vendor based on the unit pricing provided along with approving DAF Concrete, Inc. and Jewel of the South, Inc. as back-up vendors based on the unit pricing provided; with an option to renew for a second and third year with the same terms and conditions, contingent upon approval of bonds and insurance as required and authorizing the General Manager to sign the contract.

Hicks WPP Capacity Evaluation and Re-Rating Project: Water Production Director Coty McDaniel presented a recommendation on the Hicks WPP Capacity Evaluation and Re-Rating Project.

The Terry R. Hicks Water Production Plant (WPP) is permitted to treat a maximum of 10 million gallons per day (MGD). However, the current production rate at the WPP is nearing this limit. Additionally, future population and economic development projections indicate that Clayton County water demands will exceed the firm capacity of CCWA's three WPPs by the year 2026. For the two reasons stated above, evaluating the potential capacities of our 3 WPPs is a high priority.

The objective of the Hicks WPP Capacity Evaluation and Re-Rating Project is to evaluate the feasibility of increasing the Hicks WPP capacity from 10 MGD up to 15 MGD. To identify any process or hydraulic bottlenecks and to define the upgrades required to achieve the capacity increase, this study will involve performing:

- Desktop hydraulic evaluation
- Unit process evaluation
- Developing a stress test proposal for Georgia EPD.

Recommendation:

CCWA staff recommended awarding Hicks WPP Capacity Evaluation and Re-Rating Project Task Order HS-RE-20-03 to Hazen & Sawyer for an amount not to exceed \$129,673.00.

UPON MOTION by Marie Barber and second by Dr. Cephus Jackson, it was unanimously

RESOLVED to award the Hicks WPP Capacity Evaluation and Re-Rating Project Task Order HS-RE-20-03 to Hazen & Sawyer for a not to exceed cost of \$129,673.00, contingent upon approval of bonds and insurance as required and to authorize the General Manager to sign the contract.

Updates from the Board Members and General Manager

General Manager H. Bernard Franks presented an update on the Talmadge property. Information only, no action taken.

General Manager H. Bernard Franks presented an update on the COVID 19 pandemic. Information only, no action taken.

General Manager H. Bernard Franks presented an update on the Clayton County Chamber of Commerce annual golf tournament. Information only, no action taken.

General Manager H. Bernard Franks presented an update on the Arts Clayton golf tournament. Information only, no action taken.

General Manager H. Bernard Franks presented an update on Clayton County Board of Commissioners Chairman Turner's Annual Ball. Information only, no action taken.

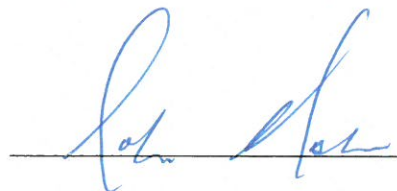
General Manager H. Bernard Franks presented an update on the Valor Awards. Information only, no action taken.

General Manager H. Bernard Franks presented an update on the annual Women's Summit. Information only, no action taken.

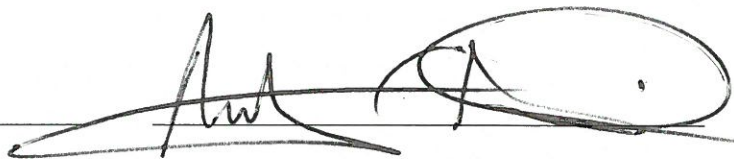
Adjourn

UPON MOTION by Dr. Cephus Jackson and second by Marie Barber, it was unanimously

RESOLVED to adjourn the Board Meeting at 2:30 p.m., there being no further business to come before the Board of Directors.



Robin Malone, Chairman



Rodney Givens, Secretary/Treasurer

