

CLAYTON COUNTY WATER AUTHORITY
1600 Battle Creek Road
Morrow, Georgia 30260
Regular Board Meeting
October 2, 2014

The meeting was held at 1600 Battle Creek Road, Morrow, Georgia 30260. Chairperson Barber called the meeting to order at 1:30 p.m.

Present at the meeting were Chairperson, W. Marie Barber, Vice Chairman, Oscar Blalock, Secretary/Treasurer, John Westervelt, Board Members, John Chafin, Sophia Haynes, Rodney Givens and Elizabeth G. Armstrong, General Manager, Mike Thomas, Bernard Franks, Assistant General Manager, Jim Poff, Assistant General Manager, Steve Fincher, Legal Counsel, Cary Santoyo, Executive Coordinator and other CCWA staff and visitors.

Chairperson, Marie Barber introduced and called on Matt Smith, Stormwater Maintenance Mechanic, to give the invocation.

Approval of Agenda: Chairperson Barber asked for a motion to approve the agenda as presented.

UPON MOTION by Oscar Blalock and seconded by Sophia Haynes, it was unanimously

RESOLVED to accept and approve the October 2, 2014 agenda as presented.

Approval of Minutes: Chairperson Barber called for any omissions or additions to the minutes of the Regular Board Meeting of September 4, 2014.

UPON MOTION by Oscar Blalock and seconded by John Westervelt, it was unanimously

RESOLVED to accept and approve the Regular Board Meeting Minutes of September 4, 2014 as presented.

Financial and Statistical Report: Chairperson Barber called on Allison Halron, Finance Director, to give the financial report. Mrs. Halron reviewed the financial information distributed to the Board for the period ending August 31, 2014.

UPON MOTION by John Westervelt and seconded by Sophia Haynes, it was unanimously RESOLVED to approve and accept the Financial Report as presented.

Recognition: General Manager, Mike Thomas introduced Mr. Jack Seibel and Mr. Tony Belcher members of Exploring Engineers Academy program for high school students. Tony Belcher explained to the Board that the program was managed by the Boys Scouts of America, and that his committee group consisted of about ten people who reach out to local communities and invite high school students to the camp to inspire them to pursue a degree in Technology, Engineering and or Science. Mr. Belcher further addressed the Board by reading a thank you letter from the Atlanta Area Council for the Boy Scouts of America, in which the students thank CCWA staff for the tour of the Water Reclamation (WR) Facility and for giving the group the opportunity of visiting such an outstanding facility.

Comprehensive Annual Financial Report – Auditors Review: Finance Director, Allison Halron presented the Comprehensive Annual Financial Report-Auditors Review, handed out hard copies of the report to each of the Board members present, and introduced Meredith Lipson, CPA for Mauldin & Jenkins, LLC to the Board. Ms. Lipson addressed the Board by giving the Board an overview of Clayton County Water Authority Annual Audit for Year Ended April 30, 2014.

Mr. Thomas recognized the Finance Staff for doing a great job with the Comprehensive Annual Financial Report (CAFR), Chairperson, Barber also thanked the Finance staff on behalf of the Board for all their hard work.

Finance Director, Allison Halron further addressed the Board and presented the Clayton County Water Authority's 2014 Financial Status Report.

Bank Signature and Policy Manual Revision: General Manager, Mike Thomas presented his recommendation to the Board to adopt Resolution 2014-06. Mr. Thomas explained to the Board that after looking back on CCWA's Law and Policy Manual there was a need to make sure that the language in the Law and Policy Manual was consistent with staff changes, authorized signatures, and who has the right to deal directly with our Banking Institution Accounts.

**STATE OF GEORGIA
COUNTY OF CLAYTON**

RESOLUTION NO. 2014-06

WHEREAS, Georgia Laws 1955, page 3334, created the Board of the Clayton County Water Authority;

WHEREAS, the Clayton County Water Authority Board of Directors ("Board") has adopted a Clayton County Water Authority Law and Policy Manual; and

WHEREAS, the Board wishes to designate responsible officials that can authorize banking activity for all accounts of the Clayton County Water Authority;

NOW THEREFORE, BE IT AND IT IS HEREBY RESOLVED THAT:

Section 1. Modification of Financial Institution Signatures. That Section 4 is hereby modified to Chapter 12, of the Clayton County Water Authority Law and Policy Manual, which Section 4 shall read as follows:

"Section 4 Financial Institution Authorization.

The following positions are authorized on all accounts of the Authority: Board Secretary/Treasurer, General Manager and Finance Director. Additionally, the General Manager can designate from time to

time an Assistant General Manager. Such authorization by those positions are to conduct any transactions to accomplish day-to-day operations which includes but is not limited to opening bank accounts, closing bank accounts and authorizing other transactions as deemed necessary to maintain daily operations.”

Section 2. General Authority. From and after the adoption of this Resolution, the Board and the proper members, agents and employees of the Board are hereby authorized, empowered and directed to do all such acts and things and to execute all such documents as may be necessary to carry out and comply with the intent of this Resolution.

Section 3. Actions Ratified, Approved, and Confirmed. All acts and doings of the members of the Board which are in conformity with the purposes and intents of this Resolution shall be, and the same hereby are, in all respects ratified, approved, and confirmed.

Section 4. Recordation. This Resolution shall be recorded in the minutes of the Board.

Section 5. Severability of Invalid Provisions. The sections, paragraphs, sentences, clauses, and phrases of this Resolution are severable, and if any phrase, sentence, paragraph, or section of this Resolution shall be declared illegal by the valid judgment or decree of any court of competent jurisdiction, such an illegality shall not affect any of the remaining phrases, clauses, sentences, paragraphs, and sections of this Resolution.

Section 6. Repealing Clause. All resolutions or parts thereof of the Board in conflict with the provisions herein contained are, to the extent of such conflict, hereby superseded and repealed.

Section 7. Effective Date. This Resolution shall become effective upon its adoption.

SO RESOLVED this _____ day of _____ 2014.

Clayton County Water Authority:

Walter Marie Barber, Chairperson

Attest:

John Westervelt, Secretary/Treasurer

APPROVED AS TO FORM:

Steven M. Fincher, Attorney for
Clayton County Water Authority

UPON MOTION by John Chafin and seconded Oscar Blalock, it was unanimously

RESOLVED to approve to adopt Resolution 2014-06 Chapter 12 Section 4 Financial Institution Authorization.

Pipe Repair and Replacement Bid Recommendation: Stormwater Program Manager, Kevin Osbey presented the Board with the Annual Pipe Repair and Replacement Bid Recommendation. Mr. Osbey explained to the Board that CCWA utilizes the services of qualified and experienced licensed Utility Contractors to repair, replace and install water, sewer and stormwater infrastructure. Kevin Osbey

further advised the Board by explaining to the Board that in order to accomplish the numerous tasks involved with this pipe work, CCWA staff prepared a bid package that incorporates over five hundred items. Staff determined in preparing the Request for Bid (RFB), that the lowest responsive contractor(s) would be selected to perform work for CCWA. Although, the selected contractor would primarily perform work for Distribution & Conveyance (D&C) and Stormwater areas, there may be occasions that work would be provide for other departments within CCWA.

Bids were opened on August 14, 2014. All bids were evaluated using pay items and quantities estimated to represent historical and annual work to be completed, as presented in the cost table below.

CONTRACTOR	TOTAL BID AMOUNT
DON HALL CONSTRUCTION	\$2,307,345.00
TLC CONTRACTING	\$3,542,935.50
MACK JONES ENTERPRISE	\$3,908,010.00
UTILITY CONSTRUCTION	\$5,401,532.50

Don Hall Construction was the lowest responsive bidder, staff recommends awarding the Annual Pipe Repair and Replacement contract to Don Hall Construction. The contract will be in effect for a period of one year upon Board approval, starting November 1, 2014 to October 31, 2015. In addition staff recommends to renew for a second and third year at the same terms and condition.

Work will be assigned on as “as needed - when needed” basis. Work will be paid per unit prices as shown on the schedules, funding source will be from the Water and Sewer Operating Budget, Stormwater Utility Budget, or specific Capital Project Budget.

PRELIMINARY BID RESULTS (Using estimated quantities)

DON HALL	TLC CONTR.	MACK JONES	UNITY CONST.
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No.	Work Item	Detail	Unit	Bid Amount	Bid Amount	Bid Amount	Bid Amount
1	Lowboy Service		EA	500.00	270.00	1,200.00	1,200.00
2	Emergency Mobilization		EA	800.00	1,350.00	1,650.00	3,600.00
3	Performance and Payment Bonds	For Project Work Orders of \$100,000 or more in value	EA	1,500.00	1,350.00	1,000.00	3,000.00
4	Traffic Control County Road	Lane Closures - Up to 4 hours / per day	EA	600.00	900.00	2,500.00	1,200.00
5		Lane Closures - Greater than 4 hours / per day	EA	950.00	90.00	3,000.00	1,200.00
6		Road Closure - Up to 4 hours / per day	EA	600.00	1,350.00	3,000.00	4,800.00
7		Road Closure - Greater than 4 hours / per day	EA	900.00	1,350.00	3,000.00	4,800.00
8	Traffic Control State Road	Lane Closures - Up to 4 hours / per day	EA	600.00	1,350.00	3,000.00	1,200.00
9		Lane Closures - Greater than 4 hours / per day	EA	950.00	1,350.00	4,500.00	1,200.00
10		Road Closure - Up to 4 hours / per day	EA	600.00	1,350.00	4,500.00	4,800.00
11		Road Closure - Greater than 4 hours / per day	EA	900.00	1,350.00	5,000.00	4,800.00
12	Erosion and Sedimentation Control Construction Exit		EA	500.00	675.00	1,000.00	1,200.00
13	Erosion and Sedimentation Control Sediment Barrier Installation	Silt Fence - Type A	LF	1.50	2.70	3.00	2.00
14		Silt Fence - Type C	LF	2.50	3.60	4.00	3.25
15		Hay Bale	LF	5.00	4.50	5.00	5.00
16	Erosion and Sedimentation Control Sediment Barrier Removal		LF	1.00	2.70	3.00	1.25
17	Erosion and Sedimentation Control Curb Inlet Sediment Trap		EA	50.00	67.50	100.00	185.00
18	Erosion and Sedimentation Control Soil Stabilization	Straw Mulching	SF	0.30	0.45	0.30	0.10
19		Seed and Straw Mulch	SF	0.35	0.45	0.50	0.20
20		Seed and Matt Blanket	SF	0.40	0.90	1.20	0.35
21		Sod	SF	0.90	0.90	1.25	1.25
22	Site Work – Hauling Material from Outside of County		HR	60.00	135.00	200.00	120.00
23	Site Work – Brush Removal		SF	0.30	0.45	0.25	0.50

24	Site Work – Tree Removal	4 inch to 6 inch diameter	EA	350.00	90.00	50.00	365.00
25		Greater than 6 inch to 12 inch diameter	EA	600.00	180.00	150.00	725.00
26		Greater than 12 inch to 24 inch diameter	EA	1,600.00	900.00	2,500.00	1,325.00
27		Greater than 24 inch to 36 inch diameter	EA	1,900.00	1,800.00	3,000.00	2,250.00
28	Site Work – Fence Work	Chain-Link / Wire Removal or Reinstall	LF	10.00	10.80	15.00	18.00
29		Wood Removal or Reinstall	LF	18.00	22.50	25.00	20.00
30	Site Work – General Excavation	Up to 6 feet deep	CF	2.00	0.90	0.40	3.00
31		Greater than 6 feet to 10 feet deep	CF	1.50	0.90	0.60	4.00
32		Greater than 10 feet to 14 feet deep	CF	1.00	0.90	0.70	5.00
33		Greater than 14 feet to 18 feet deep	CF	1.00	0.90	0.80	10.00
34	Site Work – Rock Excavation		CF	2.50	2.70	6.00	3.15
35	Site Work – General Fill / Backfill	Fill Dirt	CF	1.10	1.35	3.00	1.45
36		Sand	CF	1.20	1.35	6.00	2.45
37		Crushed Stone / Graded Aggregate Base	CF	1.20	1.35	6.00	1.45
38		#3, #4, #34, #5, #57 and #89 Stone	CF	1.30	1.35	8.00	1.85
39		Surge Stone	CF	1.30	2.70	10.00	2.45
40		Rip-Rap Stone Type III	CF	1.30	2.70	15.00	3.65
41	Site Work – Stone Placement Crushed Stone / Graded Aggregate Base	4 inch thick layer	SF	0.75	1.35	1.00	0.30
42		2 inch thick layer increment	SF	0.65	1.35	1.00	0.30
43	Site Work – Stone Placement #3, #4, #34, #5, #57 and #89 Stone	4 inch thick layer	SF	0.85	1.35	15.00	0.60
44		2 inch thick layer increment	SF	0.75	1.35	15.00	0.60
45	Site Work – Stone Placement Surge Stone	Surge Stone 6 inch thick layer	SF	0.95	1.67	2.00	1.00
46		6 inch thick layer increment	SF	0.95	1.67	4.00	1.00
47	Site Work – Stone Placement Type III Rip-Rap	Type III Rip-Rap Stone 12 inch thick layer	SF	1.50	2.48	2.00	2.00
48		12 inch thick layer increment	SF	1.50	2.48	4.00	2.00
49	Site Work – Stone Placement Type 1 Rip-Rap	Type 1 Rip-Rap	SF	2.00	2.48	5.00	3.65
50	Site Work – Gabion Basket Installation		CF	6.00	2.70	3.00	12.00
51	Site Work – Geotextile Fabric Installation		SF	0.20	0.90	1.00	0.50
52	Site Work – Steel Plate Installation	Up to 40 square foot plate	DY	50.00	90.00	150.00	16.00
53		Greater than 40 square foot to 96 square foot plate	DY	150.00	180.00	150.00	190.00
54		Greater than 96 square foot to 160 square foot plate	DY	300.00	270.00	450.00	300.00
55	Pavement – Remove Asphalt	Up to 4 inch thick layer	SF	2.50	4.50	8.00	2.85
56	Pavement – Remove Asphalt	Greater than 4 inch to 8 inch thick layer	SF	3.00	4.50	8.00	3.45

57	Pavement – Remove Asphalt	Greater than 8 inch to 12 inch thick layer	SF	3.40	8.10	10.00	4.25
58	Pavement – Remove Asphalt	Greater than 12 inch thick layer	SF	4.00	9.00	18.00	6.25
59	Pavement – Remove Concrete Flat Work	Up to 4 inch thick layer	SF	2.50	4.50	5.00	2.85
60	Pavement – Remove Concrete Flat Work	Greater than 4 inch to 8 inch thick layer	SF	3.00	4.50	6.00	3.45
61	Pavement – Remove Concrete Flat Work	Greater than 8 inch to 12 inch thick layer	SF	3.40	8.10	8.00	4.25
62	Pavement – Remove Concrete Flat Work	Greater than 12 inch thick layer	SF	4.00	9.00	12.00	6.25
63	Pavement – Remove Concrete Flat Work	Curb and Gutter	LF	2.00	9.00	12.00	28.00
64	Pavement – Milling	Up to 1500 SF	EA	5,900.00	1,260.00	5,000.00	3,400.00
65		Additional Square Footage	SF	3.90	0.90	10.00	0.60
66	Pavement – Asphalt Patching	3 inch thick layer	SF	7.00	4.50	6.00	7.55
67		1 inch thick layer increment	SF	3.50	2.70	3.00	4.55
68	Pavement – Asphalt Paving	3 inch thick layer	SF	7.00	4.50	6.00	6.70
69		1 inch thick layer increment	SF	3.50	2.70	3.00	3.70
70	Pavement – Concrete Flatwork	Up to 4 inch thick layer	SF	4.00	5.85	20.00	6.00
71		Greater than 4 inch to 6 inch thick layer	SF	5.00	6.75	22.00	7.25
72		Greater than 6 inch to 8 inch thick layer	SF	6.50	8.55	28.00	8.50
73		Greater than 8 inch to 10 inch thick layer	SF	8.00	9.00	30.00	9.70
74		Wire Mesh	SF	0.50	1.35	2.00	0.50
75		Steel Reinforcement	LF	0.85	1.35	8.00	1.85
76	Pavement – Curb and Gutter	Up to 24 inch width, square back	LF	20.00	16.20	20.00	30.25
77		Up to 24 inch width, roll back	LF	20.00	16.20	20.00	30.25
78	Pavement – Catch Basin Spillway Throat		LF	100.00	90.00	120.00	185.00
79	Pavement – Line Striping	Up to 6 inch wide	LF	5.50	1.35	175.00	1.40
80		24 inch wide	LF	8.50	2.25	2.75	9.00
81	Pavement – Marking	Handicap Symbol	EA	150.00	900.00	1,200.00	325.00
82	Pavement – Pressure Washing		SF	0.50	0.90	0.75	1.00
83	Pumping 4-inch Pump	Single Pump System	DY	875.00	900.00	1,500.00	800.00
84		Redundant Pump System	DY	975.00	1,080.00	1,600.00	1,400.00
85	Pumping 6-inch Pump	Single Pump System	DY	1,200.00	1,080.00	1,700.00	1,000.00
86		Redundant Pump System	DY	1,400.00	1,260.00	2,000.00	1,600.00
87	Pumping 8-inch Pump	Single Pump System	DY	1,750.00	1,552.50	2,500.00	1,400.00
88		Redundant Pump System	DY	1,950.00	1,957.50	4,000.00	2,400.00
89	Pumping 10-inch Pump	Single Pump System	DY	3,200.00	3,060.00	4,800.00	2,800.00

90		Redundant Pump System	DY	3,300.00	4,116.60	6,000.00	3,200.00
91	Pumping 12-inch Pump	Single Pump System	DY	4,000.00	4,500.00	6,000.00	3,600.00
92		Redundant Pump System	DY	4,200.00	5,400.00	7,500.00	5,200.00
93	Pipe Installation - Open Cut Copper (Type "K") Up to 1-inch	Installation / Replacement	EA	500.00	450.00	575.00	1,200.00
94		Additional Footage	LF	12.00	10.80	12.00	20.00
95	Pipe Installation - augered Copper (Type "K") Up to 1-inch	Installation / Replacement	EA	900.00	450.00	900.00	3,600.00
96		Additional Footage	LF	20.00	10.80	12.00	40.00
97	Pipe Installation - Open Cut Copper (Type "L") 1-1/2 to 2-inch	Up to 6 feet deep	LF	10.00	900.00	10.00	28.00
98		Greater than 6 feet to 10 feet deep	LF	15.00	16.20	20.00	38.00
99		Greater than 10 feet deep	LF	20.00	22.50	25.00	48.00
100	Pipe Installation - augered Copper (Type "L") 1-1/2 to 2-inch	Up to 6 feet deep	LF	24.00	900.00	20.00	65.00
101		Greater than 6 feet to 10 feet deep	LF	30.00	16.20	30.00	85.00
102		Greater than 10 feet deep	LF	40.00	22.50	35.00	105.00
103	Pipe Installation - Open Cut PVC up to 8-inch	Point Repair, up to 6 feet deep	EA	2,000.00	2,992.50	2,000.00	6,000.00
104		Point Repair, greater than 6 feet to 10 feet deep	EA	2,500.00	2,700.00	2,400.00	7,200.00
105		Point Repair, greater than 10 feet to 14 feet deep	EA	3,500.00	3,870.00	3,500.00	10,000.00
106		Point Repair, greater than 14 feet to 18 feet deep	EA	4,500.00	4,792.50	4,500.00	16,000.00
107		Additional Footage, up to 6 feet deep	LF	25.00	22.50	2,500.00	32.00
108		Additional Footage, greater than 6 feet to 10 feet deep	LF	30.00	31.50	35.00	40.00
109		Additional Footage, greater than 10 feet to 14 feet deep	LF	40.00	67.50	85.00	48.00
110		Additional Footage, greater than 14 feet to 18 feet deep	LF	60.00	90.00	175.00	96.00
111	Pipe Installation - Open Cut PVC greater than 8-inch to 16-inch	Point Repair, up to 6 feet deep	EA	2,000.00	2,992.50	2,000.00	6,000.00
112		Point Repair, greater than 6 feet to 10 feet deep	EA	2,500.00	3,420.00	2,500.00	7,200.00
113		Point Repair, greater than 10 feet to 14 feet deep	EA	3,500.00	3,870.00	3,500.00	10,000.00
114		Point Repair, greater than 14 feet to 18 feet deep	EA	4,500.00	4,792.50	4,500.00	16,000.00
115		Additional Footage, up to 6 feet deep	LF	25.00	22.50	25.00	32.00
116		Additional Footage, greater than 6 feet to 10 feet deep	LF	30.00	31.50	35.00	40.00
117		Additional Footage, greater than 10 feet to 14 feet deep	LF	45.00	67.50	85.00	48.00
118		Additional Footage, greater than 14 feet to 18 feet deep	LF	65.00	90.00	175.00	96.00
119	Pipe Installation - Open Cut PVC greater than 16-inch to 24-inch	Point Repair, up to 6 feet deep	EA	2,000.00	2,992.50	2,200.00	7,200.00
120		Point Repair, greater than 6 feet to 10 feet deep	EA	2,500.00	3,420.00	3,000.00	8,400.00
121		Point Repair, greater than 10 feet to 14 feet deep	EA	3,500.00	3,870.00	3,700.00	12,000.00
122		Point Repair, greater than 14 feet to 18 feet deep	EA	4,500.00	4,792.50	4,700.00	18,000.00

123		Additional Footage, up to 6 feet deep	LF	30.00	22.50	25.00	36.00
124		Additional Footage, greater than 6 feet to 10 feet deep	LF	35.00	31.50	35.00	44.00
125		Additional Footage, greater than 10 feet to 14 feet deep	LF	50.00	69.30	85.00	52.00
126		Additional Footage, greater than 14 feet to 18 feet deep	LF	70.00	90.00	175.00	104.00
127	Pipe Installation - Open Cut PVC greater than 24-inch to 36-inch	Point Repair, up to 6 feet deep	EA	2,500.00	3,082.50	2,200.00	7,500.00
128		Point Repair, greater than 6 feet to 10 feet deep	EA	3,000.00	3,510.00	3,000.00	8,800.00
129		Point Repair, greater than 10 feet to 14 feet deep	EA	4,000.00	3,960.00	3,700.00	12,500.00
130		Point Repair, greater than 14 feet to 18 feet deep	EA	5,000.00	4,882.50	4,700.00	20,000.00
131		Additional Footage, up to 6 feet deep	LF	30.00	22.50	35.00	42.00
132		Additional Footage, greater than 6 feet to 10 feet deep	LF	35.00	31.50	45.00	50.00
133		Additional Footage, greater than 10 feet to 14 feet deep	LF	50.00	67.50	85.00	58.00
134		Additional Footage, greater than 14 feet to 18 feet deep	LF	70.00	90.00	175.00	116.00
135	Pipe Installation - Open Cut DI up to 8-inch	Point Repair, up to 6 feet deep	EA	1,500.00	2,992.50	2,000.00	6,000.00
136		Point Repair, greater than 6 feet to 10 feet deep	EA	1,800.00	3,420.00	2,500.00	7,200.00
137		Point Repair, greater than 10 feet to 14 feet deep	EA	2,800.00	3,870.00	3,500.00	10,000.00
138		Point Repair, greater than 14 feet to 18 feet deep	EA	3,800.00	4,792.50	4,500.00	16,000.00
139		Additional Footage, up to 6 feet deep	LF	20.00	22.50	25.00	32.00
140		Additional Footage, greater than 6 feet to 10 feet deep	LF	25.00	31.50	35.00	40.00
141		Additional Footage, greater than 10 feet to 14 feet deep	LF	40.00	67.50	85.00	48.00
142		Additional Footage, greater than 14 feet to 18 feet deep	LF	60.00	90.00	175.00	96.00
143	Pipe Installation - Open Cut DI greater than 8-inch to 16-inch	Point Repair, up to 6 feet deep	EA	1,500.00	2,992.50	2,000.00	6,000.00
144		Point Repair, greater than 6 feet to 10 feet deep	EA	2,000.00	3,420.00	2,500.00	7,200.00
145		Point Repair, greater than 10 feet to 14 feet deep	EA	3,000.00	3,870.00	3,500.00	10,000.00
146		Point Repair, greater than 14 feet to 18 feet deep	EA	4,000.00	4,792.50	4,500.00	16,000.00
147		Additional Footage, up to 6 feet deep	LF	20.00	22.50	25.00	32.00
148		Additional Footage, greater than 6 feet to 10 feet deep	LF	25.00	31.50	45.00	40.00
149		Additional Footage, greater than 10 feet to 14 feet deep	LF	40.00	67.50	85.00	48.00
150		Additional Footage, greater than 14 feet to 18 feet deep	LF	60.00	90.00	175.00	96.00
151	Pipe Installation - Open Cut DI greater than 16-inch to 24-inch	Point Repair, up to 6 feet deep	EA	2,000.00	2,992.50	2,000.00	7,200.00
152		Point Repair, greater than 6 feet to 10 feet deep	EA	2,500.00	3,420.00	2,500.00	8,400.00
153		Point Repair, greater than 10 feet to 14 feet deep	EA	3,500.00	3,870.00	3,500.00	12,000.00
154		Point Repair, greater than 14 feet to 18 feet deep	EA	4,500.00	4,792.50	4,500.00	18,000.00

155		Additional Footage, up to 6 feet deep	LF	30.00	22.50	25.00	36.00
156		Additional Footage, greater than 6 feet to 10 feet deep	LF	35.00	31.50	45.00	44.00
157		Additional Footage, greater than 10 feet to 14 feet deep	LF	50.00	67.50	85.00	52.00
158		Additional Footage, greater than 14 feet to 18 feet deep	LF	70.00	90.00	175.00	104.00
159	Pipe Installation - Open Cut DI greater than 24-inch to 36-inch	Point Repair, up to 6 feet deep	EA	2,000.00	3,082.50	2,500.00	7,500.00
160		Point Repair, greater than 6 feet to 10 feet deep	EA	3,000.00	3,510.00	3,000.00	8,800.00
161		Point Repair, greater than 10 feet to 14 feet deep	EA	4,000.00	3,960.00	4,500.00	12,500.00
162		Point Repair, greater than 14 feet to 18 feet deep	EA	5,000.00	4,882.50	5,500.00	20,000.00
163		Additional Footage, up to 6 feet deep	LF	30.00	22.50	35.00	42.00
164		Additional Footage, greater than 6 feet to 10 feet deep	LF	35.00	31.50	65.00	50.00
165		Additional Footage, greater than 10 feet to 14 feet deep	LF	50.00	67.50	85.00	58.00
166		Additional Footage, greater than 14 feet to 18 feet deep	LF	70.00	90.00	175.00	116.00
167	Pipe Installation - Open Cut DI greater than 36-inch to 48-inch	Point Repair, up to 6 feet deep	EA	1,500.00	3,960.00	2,500.00	9,600.00
168		Point Repair, greater than 6 feet to 10 feet deep	EA	3,000.00	4,500.00	3,500.00	14,000.00
169		Point Repair, greater than 10 feet to 14 feet deep	EA	4,000.00	5,040.00	4,500.00	18,000.00
170		Point Repair, greater than 14 feet to 18 feet deep	EA	6,000.00	6,300.00	5,500.00	22,000.00
171		Additional Footage, up to 6 feet deep	LF	30.00	27.00	35.00	48.00
172		Additional Footage, greater than 6 feet to 10 feet deep	LF	50.00	45.00	65.00	58.00
173		Additional Footage, greater than 10 feet to 14 feet deep	LF	70.00	72.00	85.00	68.00
174		Additional Footage, greater than 14 feet to 18 feet deep	LF	90.00	90.00	175.00	124.00
175	Pipe Installation - Open Cut DI greater than 48-inch to 60-inch	Point Repair, up to 6 feet deep	EA	1,500.00	3,960.00	3,000.00	14,000.00
176		Point Repair, greater than 6 feet to 10 feet deep	EA	3,000.00	4,500.00	4,000.00	18,000.00
177		Point Repair, greater than 10 feet to 14 feet deep	EA	4,000.00	5,040.00	5,000.00	22,000.00
178		Point Repair, greater than 14 feet to 18 feet deep	EA	6,000.00	6,300.00	6,000.00	28,000.00
179		Additional Footage, up to 6 feet deep	LF	30.00	27.00	45.00	72.00
180		Additional Footage, greater than 6 feet to 10 feet deep	LF	50.00	45.00	65.00	84.00
181		Additional Footage, greater than 10 feet to 14 feet deep	LF	70.00	72.00	95.00	96.00
182		Additional Footage, greater than 14 feet to 18 feet deep	LF	90.00	900.00	225.00	148.00
183	Pipe Installation - Open Cut RC up to 16-inch	Point Repair, up to 6 feet deep	EA	2,000.00	3,037.50	2,000.00	6,000.00
184		Point Repair, greater than 6 feet to 10 feet deep	EA	2,500.00	3,330.00	2,500.00	7,200.00
185		Point Repair, greater than 10 feet to 14 feet deep	EA	3,500.00	3,892.50	3,000.00	10,000.00
186		Point Repair, greater than 14 feet to 18 feet deep	EA	4,500.00	4,792.50	3,500.00	16,000.00

187		Additional Footage, up to 6 feet deep	LF	20.00	22.50	25.00	32.00
188		Additional Footage, greater than 6 feet to 10 feet deep	LF	30.00	31.50	35.00	40.00
189		Additional Footage, greater than 10 feet to 14 feet deep	LF	40.00	67.50	85.00	48.00
190		Additional Footage, greater than 14 feet to 18 feet deep	LF	60.00	90.00	175.00	96.00
191	Pipe Installation - Open Cut RC greater than 16-inch to 24-inch	Point Repair, up to 6 feet deep	EA	2,500.00	2,992.50	2,500.00	7,200.00
192		Point Repair, greater than 6 feet to 10 feet deep	EA	3,000.00	3,330.00	3,500.00	8,400.00
193		Point Repair, greater than 10 feet to 14 feet deep	EA	4,000.00	3,892.50	4,500.00	12,000.00
194		Point Repair, greater than 14 feet to 18 feet deep	EA	5,000.00	4,792.50	5,500.00	18,000.00
195		Additional Footage, up to 6 feet deep	LF	20.00	22.50	35.00	36.00
196		Additional Footage, greater than 6 feet to 10 feet deep	LF	30.00	31.50	65.00	44.00
197		Additional Footage, greater than 10 feet to 14 feet deep	LF	40.00	67.50	85.00	52.00
198		Additional Footage, greater than 14 feet to 18 feet deep	LF	60.00	90.00	175.00	104.00
199	Pipe Installation - Open Cut RC greater than 24-inch to 36-inch	Point Repair, up to 6 feet deep	EA	2,500.00	3,082.50	2,000.00	7,500.00
200		Point Repair, greater than 6 feet to 10 feet deep	EA	3,000.00	3,420.00	2,500.00	8,800.00
201		Point Repair, greater than 10 feet to 14 feet deep	EA	4,000.00	3,982.50	3,000.00	12,500.00
202		Point Repair, greater than 14 feet to 18 feet deep	EA	5,000.00	4,882.50	3,500.00	20,000.00
203		Additional Footage, up to 6 feet deep	LF	30.00	22.50	35.00	42.00
204		Additional Footage, greater than 6 feet to 10 feet deep	LF	35.00	31.50	55.00	50.00
205		Additional Footage, greater than 10 feet to 14 feet deep	LF	50.00	67.50	85.00	58.00
206		Additional Footage, greater than 14 feet to 18 feet deep	LF	70.00	90.00	175.00	116.00
207	Pipe Installation - Open Cut RC greater than 36-inch to 48-inch	Point Repair, up to 6 feet deep	EA	2,500.00	3,960.00	2,000.00	9,600.00
208		Point Repair, greater than 6 feet to 10 feet deep	EA	3,000.00	4,500.00	2,700.00	14,000.00
209		Point Repair, greater than 10 feet to 14 feet deep	EA	4,000.00	5,040.00	3,700.00	18,000.00
210		Point Repair, greater than 14 feet to 18 feet deep	EA	5,000.00	6,300.00	4,700.00	22,000.00
211		Additional Footage, up to 6 feet deep	LF	30.00	27.00	45.00	48.00
212		Additional Footage, greater than 6 feet to 10 feet deep	LF	40.00	45.00	55.00	58.00
213		Additional Footage, greater than 10 feet to 14 feet deep	LF	60.00	72.00	75.00	68.00
214		Additional Footage, greater than 14 feet to 18 feet deep	LF	80.00	90.00	185.00	124.00
215	Pipe Installation - Open Cut RC greater than 48-inch to 60-inch	Point Repair, up to 6 feet deep	EA	2,500.00	3,960.00	3,000.00	14,000.00
216		Point Repair, greater than 6 feet to 10 feet deep	EA	3,000.00	4,500.00	4,000.00	18,000.00
217		Point Repair, greater than 10 feet to 14 feet deep	EA	4,000.00	5,040.00	5,000.00	22,000.00
218		Point Repair, greater than 14 feet to 18 feet deep	EA	5,000.00	6,300.00	6,000.00	28,000.00

219		Additional Footage, up to 6 feet deep	LF	50.00	27.00	75.00	72.00
220		Additional Footage, greater than 6 feet to 10 feet deep	LF	60.00	45.00	95.00	84.00
221		Additional Footage, greater than 10 feet to 14 feet deep	LF	70.00	72.00	105.00	96.00
222		Additional Footage, greater than 14 feet to 18 feet deep	LF	80.00	90.00	225.00	148.00
223	Pipe Installation - Open Cut RC greater than 60-inch to 72-inch	Point Repair, up to 10 feet deep	EA	3,000.00	4,860.00	3,000.00	24,000.00
224		Point Repair, greater than 10 feet to 14 feet deep	EA	4,000.00	5,400.00	4,000.00	32,000.00
225		Point Repair, greater than 14 feet to 18 feet deep	EA	5,000.00	5,940.00	5,000.00	40,000.00
226		Additional Footage, up to 10 feet deep	LF	70.00	630.00	75.00	128.00
227		Additional Footage, greater than 10 feet to 14 feet deep	LF	80.00	72.00	95.00	148.00
228		Additional Footage, greater than 14 feet to 18 feet deep	LF	90.00	108.00	185.00	172.00
229	Pipe Installation - Open Cut RC greater than 72-inch to 84-inch	Point Repair, up to 10 feet deep	EA	4,000.00	5,535.90	4,500.00	28,000.00
230		Point Repair, greater than 10 feet to 14 feet deep	EA	5,000.00	6,851.70	5,500.00	36,000.00
231		Point Repair, greater than 14 feet to 18 feet deep	EA	6,000.00	8,201.70	6,500.00	44,000.00
232		Additional Footage, up to 10 feet deep	LF	70.00	90.00	125.00	148.00
233		Additional Footage, greater than 10 feet to 14 feet deep	LF	90.00	108.00	150.00	158.00
234		Additional Footage, greater than 14 feet to 18 feet deep	LF	110.00	135.00	225.00	198.00
235	Pipe Installation - Open Cut RC greater than 84-inch to 96-inch	Point Repair, up to 10 feet deep	EA	4,000.00	6,435.90	4,500.00	32,000.00
236		Point Repair, greater than 10 feet to 14 feet deep	EA	5,000.00	7,753.50	5,500.00	40,000.00
237		Point Repair, greater than 14 feet to 18 feet deep	EA	6,000.00	8,212.50	6,500.00	48,000.00
238		Additional Footage, up to 10 feet deep	LF	70.00	90.00	110.00	160.00
239		Additional Footage, greater than 10 feet to 14 feet deep	LF	90.00	117.00	150.00	180.00
240		Additional Footage, greater than 14 feet to 18 feet deep	LF	110.00	144.00	275.00	240.00
241	Pipe Installation - Open Cut RC greater than 96-inch to 108-inch	Point Repair, up to 10 feet deep	EA	6,000.00	7,335.90	6,000.00	40,000.00
242		Point Repair, greater than 10 feet to 14 feet deep	EA	7,000.00	8,730.00	7,000.00	48,000.00
243		Point Repair, greater than 14 feet to 18 feet deep	EA	8,000.00	9,900.00	8,000.00	56,000.00
244		Additional Footage, up to 10 feet deep	LF	90.00	126.00	175.00	200.00
245		Additional Footage, greater than 10 feet to 14 feet deep	LF	110.00	144.00	195.00	240.00
246		Additional Footage, greater than 14 feet to 18 feet deep	LF	130.00	180.00	225.00	300.00
247	Pipe Installation - Open Cut HDPE up to 8-inch	Point Repair, up to 6 feet deep	EA	500.00	3,037.50	1,800.00	7,000.00
248		Point Repair, greater than 6 feet to 10 feet deep	EA	600.00	3,330.00	2,500.00	8,400.00
249		Point Repair, greater than 10 feet to 14 feet deep	EA	900.00	3,892.50	3,500.00	12,000.00
250		Point Repair, greater than 14 feet to 18 feet deep	EA	1,200.00	4,792.50	4,500.00	18,000.00

251		Additional Footage, up to 6 feet deep	LF	20.00	22.50	27.00	35.00
252		Additional Footage, greater than 6 feet to 10 feet deep	LF	25.00	31.50	37.00	44.00
253		Additional Footage, greater than 10 feet to 14 feet deep	LF	35.00	67.50	185.00	52.00
254		Additional Footage, greater than 14 feet to 18 feet deep	LF	40.00	90.00	2,000.00	100.00
255	Pipe Installation - Open Cut HDPE greater than 8-inch to 16-inch	Point Repair, up to 6 feet deep	EA	1,200.00	3,037.50	2,000.00	7,000.00
256		Point Repair, greater than 6 feet to 10 feet deep	EA	1,500.00	3,330.00	3,000.00	8,000.00
257		Point Repair, greater than 10 feet to 14 feet deep	EA	2,500.00	3,892.50	4,000.00	11,000.00
258		Point Repair, greater than 14 feet to 18 feet deep	EA	3,000.00	4,792.50	4,700.00	17,000.00
259		Additional Footage, up to 6 feet deep	LF	24.00	22.50	35.00	35.00
260		Additional Footage, greater than 6 feet to 10 feet deep	LF	29.00	31.50	45.00	44.00
261		Additional Footage, greater than 10 feet to 14 feet deep	LF	50.00	67.50	85.00	52.00
262		Additional Footage, greater than 14 feet to 18 feet deep	LF	70.00	90.00	125.00	100.00
263		Pipe Installation - Open Cut HDPE greater than 16-inch to 24-inch	Point Repair, up to 6 feet deep	EA	1,500.00	3,037.50	2,000.00
264	Point Repair, greater than 6 feet to 10 feet deep		EA	1,800.00	3,330.00	3,000.00	9,000.00
265	Point Repair, greater than 10 feet to 14 feet deep		EA	2,500.00	3,892.50	4,000.00	13,000.00
266	Point Repair, greater than 14 feet to 18 feet deep		EA	3,000.00	4,792.50	5,000.00	20,000.00
267	Additional Footage, up to 6 feet deep		LF	30.00	22.50	35.00	40.00
268	Additional Footage, greater than 6 feet to 10 feet deep		LF	35.00	31.50	55.00	48.00
269	Additional Footage, greater than 10 feet to 14 feet deep		LF	50.00	67.50	85.00	56.00
270	Additional Footage, greater than 14 feet to 18 feet deep		LF	70.00	90.00	155.00	108.00
271	Pipe Installation - Open Cut HDPE greater than 24-inch to 36-inch	Point Repair, up to 6 feet deep	EA	2,000.00	3,037.50	2,500.00	8,500.00
272		Point Repair, greater than 6 feet to 10 feet deep	EA	2,500.00	3,330.00	3,500.00	9,500.00
273		Point Repair, greater than 10 feet to 14 feet deep	EA	4,000.00	3,892.50	4,500.00	13,500.00
274		Point Repair, greater than 14 feet to 18 feet deep	EA	5,000.00	4,837.50	5,500.00	24,000.00
275		Additional Footage, up to 6 feet deep	LF	30.00	22.50	35.00	46.00
276		Additional Footage, greater than 6 feet to 10 feet deep	LF	35.00	31.50	55.00	54.00
277		Additional Footage, greater than 10 feet to 14 feet deep	LF	50.00	70.20	85.00	62.00
278		Additional Footage, greater than 14 feet to 18 feet deep	LF	70.00	90.00	175.00	120.00
279	Pipe Installation - Open Cut HDPE greater than 36-inch to 48-inch	Point Repair, up to 6 feet deep	EA	2,500.00	3,960.00	3,500.00	10,500.00
280		Point Repair, greater than 6 feet to 10 feet deep	EA	3,000.00	4,500.00	4,500.00	15,000.00
281		Point Repair, greater than 10 feet to 14 feet deep	EA	4,000.00	5,040.00	5,500.00	19,000.00
282		Point Repair, greater than 14 feet to 18 feet deep	EA	5,000.00	6,300.00	6,500.00	24,000.00
283		Additional Footage, up to 6 feet deep	LF	35.00	27.00	55.00	52.00

284		Additional Footage, greater than 6 feet to 10 feet deep	LF	40.00	45.00	85.00	62.00
285		Additional Footage, greater than 10 feet to 14 feet deep	LF	60.00	72.00	105.00	72.00
286		Additional Footage, greater than 14 feet to 18 feet deep	LF	80.00	90.00	225.00	128.00
287	Pipe Installation - Open Cut HDPE greater than 48-inch to 60-inch	Point Repair, up to 6 feet deep	EA	3,000.00	3,960.00	2,500.00	15,000.00
288		Point Repair, greater than 6 feet to 10 feet deep	EA	3,500.00	4,500.00	3,500.00	19,000.00
289		Point Repair, greater than 10 feet to 14 feet deep	EA	4,500.00	5,040.00	4,500.00	23,000.00
290		Point Repair, greater than 14 feet to 18 feet deep	EA	6,500.00	6,300.00	5,500.00	29,000.00
291		Additional Footage, up to 6 feet deep	LF	50.00	27.00	60.00	78.00
292		Additional Footage, greater than 6 feet to 10 feet deep	LF	55.00	45.00	80.00	90.00
293		Additional Footage, greater than 10 feet to 14 feet deep	LF	65.00	72.00	120.00	112.00
294		Additional Footage, greater than 14 feet to 18 feet deep	LF	75.00	90.00	225.00	160.00
295	Pipe Installation - Open Cut CM up to 15-inch	Point Repair, up to 6 feet deep	EA	1,000.00	3,037.50	2,000.00	6,000.00
296		Point Repair, greater than 6 feet to 10 feet deep	EA	1,500.00	3,330.00	3,000.00	7,200.00
297		Point Repair, greater than 10 feet to 14 feet deep	EA	2,000.00	3,892.50	4,000.00	10,000.00
298		Point Repair, greater than 14 feet to 18 feet deep	EA	3,000.00	4,792.50	5,000.00	16,000.00
299		Additional Footage, up to 6 feet deep	LF	20.00	22.50	25.00	32.00
300		Additional Footage, greater than 6 feet to 10 feet deep	LF	25.00	31.50	35.00	40.00
301		Additional Footage, greater than 10 feet to 14 feet deep	LF	35.00	67.50	85.00	48.00
302		Additional Footage, greater than 14 feet to 18 feet deep	LF	45.00	90.00	125.00	96.00
303	Pipe Installation - Open Cut CM greater than 15-inch to 24-inch	Point Repair, up to 6 feet deep	EA	1,500.00	2,992.50	2,000.00	7,200.00
304		Point Repair, greater than 6 feet to 10 feet deep	EA	2,000.00	3,330.00	3,000.00	8,400.00
305		Point Repair, greater than 10 feet to 14 feet deep	EA	3,000.00	3,892.50	4,000.00	12,000.00
306		Point Repair, greater than 14 feet to 18 feet deep	EA	4,000.00	4,792.50	5,000.00	18,000.00
307		Additional Footage, up to 6 feet deep	LF	20.00	22.50	25.00	36.00
308		Additional Footage, greater than 6 feet to 10 feet deep	LF	30.00	31.50	35.00	44.00
309		Additional Footage, greater than 10 feet to 14 feet deep	LF	50.00	67.50	85.00	52.00
310		Additional Footage, greater than 14 feet to 18 feet deep	LF	70.00	90.00	125.00	104.00
311	Pipe Installation - Open Cut CM greater than 24-inch to 36-inch	Point Repair, up to 6 feet deep	EA	2,000.00	3,082.50	2,200.00	7,500.00
312		Point Repair, greater than 6 feet to 10 feet deep	EA	2,500.00	3,420.00	3,200.00	8,800.00
313		Point Repair, greater than 10 feet to 14 feet deep	EA	3,500.00	3,982.50	4,500.00	12,500.00
314		Point Repair, greater than 14 feet to 18 feet deep	EA	4,500.00	4,612.50	5,500.00	20,000.00
315		Additional Footage, up to 6 feet deep	LF	25.00	22.50	40.00	42.00
316		Additional Footage, greater than 6 feet to 10 feet deep	LF	35.00	31.50	60.00	50.00

317		Additional Footage, greater than 10 feet to 14 feet deep	LF	60.00	67.50	85.00	58.00
318		Additional Footage, greater than 14 feet to 18 feet deep	LF	80.00	90.00	150.00	116.00
319	Pipe Installation - Open Cut CM greater than 36-inch to 48-inch	Point Repair, up to 6 feet deep	EA	2,000.00	3,960.00	3,000.00	9,600.00
320		Point Repair, greater than 6 feet to 10 feet deep	EA	2,500.00	4,500.00	4,000.00	14,000.00
321		Point Repair, greater than 10 feet to 14 feet deep	EA	3,500.00	5,040.00	5,000.00	18,000.00
322		Point Repair, greater than 14 feet to 18 feet deep	EA	4,500.00	6,300.00	6,000.00	22,000.00
323		Additional Footage, up to 6 feet deep	LF	30.00	27.00	40.00	48.00
324		Additional Footage, greater than 6 feet to 10 feet deep	LF	40.00	45.00	60.00	58.00
325		Additional Footage, greater than 10 feet to 14 feet deep	LF	60.00	72.00	80.00	68.00
326		Additional Footage, greater than 14 feet to 18 feet deep	LF	80.00	90.00	150.00	124.00
327		Pipe Installation - Open Cut CM greater than 48-inch to 60-inch	Point Repair, up to 6 feet deep	EA	2,000.00	3,960.00	3,000.00
328	Point Repair, greater than 6 feet to 10 feet deep		EA	2,500.00	4,500.00	4,000.00	18,000.00
329	Point Repair, greater than 10 feet to 14 feet deep		EA	3,500.00	5,040.00	5,000.00	22,000.00
330	Point Repair, greater than 14 feet to 18 feet deep		EA	4,500.00	6,300.00	6,000.00	28,000.00
331	Additional Footage, up to 6 feet deep		LF	30.00	27.00	40.00	72.00
332	Additional Footage, greater than 6 feet to 10 feet deep		LF	40.00	45.00	60.00	84.00
333	Additional Footage, greater than 10 feet to 14 feet deep		LF	60.00	67.50	80.00	96.00
334	Additional Footage, greater than 14 feet to 18 feet deep		LF	80.00	90.00	150.00	148.00
335	Pipe Installation - Open Cut CM greater than 60-inch to 72-inch	Point Repair, up to 10 feet deep	EA	2,500.00	0.00	3,000.00	24,000.00
336		Point Repair, greater than 10 feet to 14 feet deep	EA	3,000.00	0.00	4,000.00	28,000.00
337		Point Repair, greater than 14 feet to 18 feet deep	EA	4,000.00	0.00	5,000.00	32,000.00
338		Additional Footage, up to 10 feet deep	LF	40.00	0.00	6,000.00	100.00
339		Additional Footage, greater than 10 feet to 14 feet deep	LF	60.00	0.00	145.00	110.00
340		Additional Footage, greater than 14 feet to 18 feet deep	LF	80.00	0.00	165.00	140.00
341	Pipe Installation - Open Cut CM greater than 72-inch to 84-inch	Point Repair, up to 10 feet deep	EA	3,000.00	5,535.90	4,000.00	28,000.00
342		Point Repair, greater than 10 feet to 14 feet deep	EA	4,000.00	6,851.70	6,000.00	32,000.00
343		Point Repair, greater than 14 feet to 18 feet deep	EA	5,000.00	8,201.70	8,000.00	36,000.00
344		Additional Footage, up to 10 feet deep	LF	60.00	90.00	125.00	120.00
345		Additional Footage, greater than 10 feet to 14 feet deep	LF	70.00	108.00	225.00	130.00
346		Additional Footage, greater than 14 feet to 18 feet deep	LF	80.00	135.00	325.00	180.00
347		Pipe Installation - Open Cut CM greater than 84-inch to 96-inch	Point Repair, up to 10 feet deep	EA	3,000.00	6,435.90	4,500.00
348	Point Repair, greater than 10 feet to 14 feet deep		EA	4,000.00	7,753.50	6,500.00	36,000.00
349	Point Repair, greater than 14 feet to 18 feet deep		EA	5,000.00	8,212.50	8,500.00	40,000.00

350		Additional Footage, up to 10 feet deep	LF	60.00	90.00	135.00	140.00
351		Additional Footage, greater than 10 feet to 14 feet deep	LF	70.00	108.00	235.00	160.00
352		Additional Footage, greater than 14 feet to 18 feet deep	LF	80.00	135.00	335.00	200.00
353	Pipe Installation - Open Cut Steel Casing up to 18-inch	Up to 6 feet deep	LF	30.00	20.70	25.00	36.00
354		Greater than 6 feet to 10 feet deep	LF	35.00	29.70	35.00	44.00
355		Greater than 10 feet to 14 feet deep	LF	40.00	69.30	85.00	52.00
356		Greater than 14 feet to 18 feet deep	LF	60.00	90.00	150.00	104.00
357		Weld	EA	50.00	450.00	700.00	225.00
358	Pipe Installation - Open Cut Steel Casing greater than 18-inch to 24-inch	Up to 6 feet deep	LF	30.00	20.70	30.00	36.00
359		Greater than 6 feet to 10 feet deep	LF	35.00	29.70	40.00	44.00
360		Greater than 10 feet to 14 feet deep	LF	40.00	69.30	50.00	52.00
361		Greater than 14 feet to 18 feet deep	LF	60.00	90.00	60.00	104.00
362		Weld	EA	60.00	450.00	700.00	300.00
363	Pipe Installation - Open Cut Steel Casing greater than 24-inch to 36-inch	Up to 6 feet deep	LF	25.00	36.00	35.00	42.00
364		Greater than 6 feet to 10 feet deep	LF	30.00	36.00	45.00	50.00
365		Greater than 10 feet to 14 feet deep	LF	50.00	45.00	65.00	58.00
366		Greater than 14 feet to 18 feet deep	LF	60.00	63.00	85.00	116.00
367		Weld	EA	75.00	450.00	800.00	400.00
368	Pipe Installation - Open Cut Steel Casing greater than 36-inch to 48-inch	Up to 6 feet deep	LF	30.00	36.00	45.00	48.00
369		Greater than 6 feet to 10 feet deep	LF	40.00	45.00	65.00	58.00
370		Greater than 10 feet to 14 feet deep	LF	60.00	54.00	85.00	68.00
371		Greater than 14 feet to 18 feet deep	LF	80.00	63.00	125.00	124.00
372		Weld	EA	150.00	900.00	900.00	500.00
373	Pipe Insertion into Steel Casing PVC up to 8-inch		LF	20.00	18.00	25.00	20.00
374	Pipe Insertion into Steel Casing PVC greater than 8-inch to 16-inch		LF	20.00	22.50	35.00	20.00
375	Pipe Insertion into Steel Casing PVC greater than 16-inch to 24-inch		LF	30.00	27.00	45.00	30.00
376	Pipe Insertion into Steel Casing DI up to 8-inch		LF	20.00	22.50	25.00	20.00
377	Pipe Insertion into Steel Casing DI greater than 8-inch to 16-inch		LF	25.00	22.50	35.00	30.00
378	Pipe Insertion into Steel Casing		LF	30.00	27.00	45.00	30.00

	DI greater than 16-inch to 24-inch						
379	Pipe Insertion into Steel Casing DI greater than 24-inch to 36-inch		LF	40.00	27.00	75.00	40.00
380	Polyethylene Pipe Encasement	For Pipe up to 16-inch	LF	9.00	45.00	12.00	4.00
381		For Pipe greater than 16-inch to 24-inch	LF	9.00	0.00	12.00	6.00
382		For Pipe greater than 24-inch to 36-inch	LF	9.00	0.00	15.00	8.00
383		For Pipe greater than 36-inch to 48-inch	LF	9.00	0.00	18.00	10.00
384	Direct Tap Into Pipe Up to 1-inch Direct Tap into DI of Varying Sizes	Up to 6 feet deep	EA	600.00	630.00	675.00	800.00
385		Greater than 6 feet to 10 feet deep	EA	700.00	630.00	750.00	1,200.00
386		Greater than 10 feet to 14 feet deep	EA	1,000.00	855.00	925.00	1,800.00
387		Greater than 14 feet to 18 feet deep	EA	1,500.00	1,080.00	1,500.00	2,400.00
388	Core Into Pipe	Up to 2-inch core into pipe	EA	700.00	630.00	800.00	1,200.00
389		Greater than 2-inch to 6-inch core into pipe	EA	800.00	675.00	975.00	1,600.00
390		8-inch core into pipe	EA	900.00	855.00	1,000.00	2,000.00
391		10-inch core into pipe	EA	1,000.00	1,350.00	2,000.00	2,400.00
392		12-inch core into pipe	EA	1,200.00	1,350.00	3,000.00	3,600.00
393		16-inch core into pipe	EA	3,000.00	1,440.00	4,500.00	4,000.00
394		18-inch core into pipe	EA	5,000.00	2,160.00	6,500.00	7,200.00
395		20-inch core into pipe	EA	6,000.00	4,500.00	7,500.00	8,400.00
396		24-inch core into pipe	EA	7,000.00	5,400.00	9,500.00	10,000.00
397	Connect Fitting / Valve to Pipe Brass / Bronze Fitting / Valve up to 2-inch		EA	200.00	630.00	700.00	1,200.00
398	Connect Fitting / Valve to Pipe PVC Fitting / Valve up to 8-inch		EA	300.00	720.00	950.00	3,000.00
399	Connect Fitting / Valve to Pipe PVC Fitting / Valve Greater than 8-inch to 16-inch		EA	500.00	900.00	1,475.00	3,600.00
400	Connect Fitting / Valve to Pipe PVC Fitting / Valve Greater than 16-inch to 24-inch		EA	700.00	1,350.00	1,500.00	4,200.00
401	Connect Fitting / Valve to Pipe DI Fitting / Valve up to 8-inch		EA	300.00	810.00	950.00	3,000.00
402	Connect Fitting / Valve to Pipe DI Fitting / Valve Greater than 8-inch to 16-inch		EA	500.00	1,350.00	1,475.00	3,600.00
403	Connect Fitting / Valve to Pipe DI Fitting / Valve Greater than 16-inch to 24-inch		EA	700.00	1,350.00	1,475.00	4,200.00

404	Connect Fitting / Valve to Pipe DI Fitting / Valve Greater than 24-inch to 36-inch		EA	1,000.00	1,800.00	2,000.00	5,400.00
405	Connect Fitting / Valve to Pipe DI Fitting / Valve Greater than 36-inch to 48-inch		EA	1,500.00	2,700.00	2,850.00	8,000.00
406	Fire Hydrant Installation	Up to 5-foot Bury Depth	EA	400.00	720.00	800.00	2,400.00
407		Greater than 5-foot Bury Depth	EA	600.00	810.00	1,000.00	3,200.00
408	Fire Hydrant (Existing) Vertical Adjustment		VF	200.00	540.00	175.00	350.00
409	Fire Hydrant Removal	Up to 5-foot Bury Depth	EA	400.00	450.00	700.00	800.00
410		Greater than 5-foot Bury Depth	EA	600.00	720.00	1,000.00	1,000.00
411	Air / Vacuum Release Valve Installation		EA	1,200.00	450.00	1,000.00	3,200.00
412	Meter Box Work	Standard Residential	EA	300.00	450.00	225.00	400.00
413		3-Foot Box	EA	400.00	630.00	500.00	1,800.00
414		6-Foot Box	EA	600.00	810.00	1,000.00	2,400.00
415	Thrust Restraint	For Pipe up to 16-inch	EA	200.00	900.00	125.00	1,200.00
416	Cast-in-Place Concrete	For Pipe greater than 16-inch to 24-inch	EA	300.00	450.00	200.00	3,600.00
417		For Pipe greater than 24-inch to 36-inch	EA	400.00	450.00	300.00	7,200.00
418		For Pipe greater than 36-inch to 48-inch	EA	600.00	450.00	500.00	15,000.00
419	Flared End Section Installation	For Pipe up to 16-inch	EA	100.00	270.00	100.00	1,200.00
420		For Pipe greater than 16-inch to 24-inch	EA	150.00	270.00	200.00	1,800.00
421		For Pipe greater than 24-inch to 36-inch	EA	200.00	450.00	300.00	2,400.00
422		For Pipe greater than 36-inch to 48-inch	EA	250.00	900.00	400.00	4,800.00
423	Precast Headwall Installation Headwall Installation	For Pipe up to 16 Inch	EA	100.00	225.00	200.00	1,200.00
424		For Pipe greater than 16 Inch to 24 Inch	EA	150.00	225.00	300.00	1,800.00
425		For Pipe greater than 24 Inch to 36 Inch	EA	200.00	270.00	325.00	2,400.00
426		For Pipe greater than 36 Inch to 48 Inch	EA	250.00	360.00	400.00	4,800.00
427		For Pipe greater than 48 Inch to 60 Inch	EA	300.00	450.00	600.00	6,000.00
428		For Pipe greater than 60 Inch to 72 Inch	EA	400.00	540.00	800.00	7,200.00
429		For Pipe greater than 72 Inch to 84 Inch	EA	500.00	720.00	900.00	8,400.00
430		For Pipe greater than 84 Inch to 96 Inch	EA	600.00	900.00	1,000.00	9,600.00
431	Precast Manhole Installation 4-Foot Diameter	Typical, Up to 6-foot Constructed Height	EA	1,000.00	900.00	1,350.00	1,800.00
432		Doghouse, Up to 6-foot Constructed Height	EA	1,500.00	1,260.00	1,575.00	2,400.00
433		Additional Height	VF	100.00	135.00	160.00	150.00
434	Precast Manhole Installation 5-Foot Diameter	Typical, Up to 6-foot Constructed Height	EA	1,200.00	1,080.00	1,400.00	1,800.00
435		Doghouse, Up to 6-foot Constructed Height	EA	1,800.00	1,260.00	1,600.00	2,400.00
436		Additional Height	VF	100.00	135.00	175.00	150.00
437	Precast Manhole Installation 6-Foot Diameter	Typical, Up to 6-foot Constructed Height	EA	1,200.00	1,350.00	1,600.00	2,400.00

438		Doghouse, Up to 6-foot Constructed Height	EA	1,800.00	1,530.00	1,800.00	3,000.00
439		Additional Height	VF	100.00	135.00	200.00	180.00
440	Precast Manhole Installation 7-Foot Diameter	Typical, Up to 8-foot Constructed Height	EA	2,000.00	1,800.00	3,000.00	3,600.00
441		Doghouse, Up to 8-foot Constructed Height	EA	2,000.00	2,070.00	3,500.00	4,200.00
442		Additional Height	VF	120.00	180.00	275.00	220.00
443	Precast Manhole Installation 8-Foot Diameter	Typical, Up to 10-foot Constructed Height	EA	3,000.00	2,700.00	4,500.00	6,800.00
444		Doghouse, Up to 10-foot Constructed Height	EA	3,500.00	3,060.00	6,500.00	7,200.00
445		Additional Height	VF	150.00	225.00	275.00	420.00
446	Precast Box / Vault Installation Up to 5-Foot by 5-Foot	Typical, Up to 6-foot Constructed Height	EA	1,800.00	1,710.00	2,500.00	3,200.00
447		Additional Height	VF	150.00	270.00	375.00	180.00
448	Precast Box / Vault Installation Greater than 5-Foot by 5-Foot to 8-Foot by 8-Foot	Typical, Up to 6-foot Constructed Height	EA	1,900.00	1,710.00	2,800.00	4,200.00
449		Additional Height	VF	150.00	360.00	425.00	220.00
450	Precast Box / Vault Installation 8-Foot by 12-Foot	Typical, Up to 6-foot Constructed Height	EA	2,500.00	2,565.00	3,500.00	4,800.00
451		Additional Height	VF	200.00	720.00	650.00	320.00
452	Precast Box / Vault Installation 8-Foot by 16-Foot	Typical, Up to 6-foot Constructed Height	EA	3,000.00	3,420.00	4,500.00	6,000.00
453		Additional Height	VF	200.00	900.00	1,200.00	480.00
454	Manhole Invert Construction 4-Foot Diameter Manhole	Cast-in-Place Concrete	EA	450.00	405.00	525.00	400.00
455		Brick and Mortar	EA	450.00	405.00	525.00	600.00
456	Manhole Invert Construction 5-Foot Diameter Manhole	Cast-in-Place Concrete	EA	550.00	495.00	675.00	500.00
457		Brick and Mortar	EA	550.00	495.00	675.00	800.00
458	Manhole Invert Construction 6-Foot Diameter Manhole	Cast-in-Place Concrete	EA	650.00	585.00	875.00	800.00
459		Brick and Mortar	EA	650.00	585.00	875.00	1,200.00
460	Manhole Invert Construction 7-Foot Diameter Manhole	Cast-in-Place Concrete	EA	800.00	720.00	975.00	1,200.00
461		Brick and Mortar	EA	800.00	720.00	975.00	1,800.00
462	Manhole Invert Construction 8-Foot Diameter Manhole	Cast-in-Place Concrete	EA	800.00	720.00	1,000.00	2,400.00
463		Brick and Mortar	EA	800.00	720.00	1,000.00	3,200.00
464	Other Invert Construction	Cast-in-Place Concrete	SF	30.00	900.00	1,000.00	800.00
465		Brick and Mortar	SF	30.00	900.00	1,000.00	800.00
466	Ring and Cover Installation	Installation	EA	100.00	135.00	175.00	450.00
467		Additional Height, Per Brick Layer	EA	100.00	90.00	150.00	200.00
468	Precast Catch Basin Spillway Installation		EA	500.00	720.00	975.00	1,200.00
469	Precast Catch Basin Top Slab Installation		EA	500.00	1,080.00	1,500.00	1,200.00

470	Concrete Core	Up to 4-inch diameter core	EA	300.00	407.70	500.00	500.00
471		Greater than 4-inch to 12-inch diameter core	EA	350.00	416.70	575.00	600.00
472		Greater than 12-inch to 18-inch diameter core	EA	400.00	441.90	625.00	750.00
473		Greater than 18-inch to 24-inch diameter core	EA	450.00	533.70	775.00	1,200.00
474	Brick Work	1 Brick Deep Wall Construction	SF	50.00	7.20	10.00	20.00
475		2 Brick Deep Wall Construction	SF	75.00	14.40	20.00	40.00
476		3 Brick Deep Wall Construction	SF	100.00	21.60	30.00	60.00
477		4 Brick Deep Wall Construction	SF	125.00	28.80	35.00	80.00
478	Concrete Work	Bulk	CY	400.00	360.00	425.00	495.00
479		Form Work	SF	3.50	0.90	1.25	15.75
480		Steel Reinforcement	LF	6.50	1.35	1.75	3.65
481	Cementitious Grouting	Grout Mixed by Hand	CF	30.00	45.00	60.00	20.00
482		Grout Mixed by Plant	CY	400.00	270.00	325.00	150.00
483		Pump Mobilization	EA	2,500.00	1,080.00	1,500.00	3,000.00
484	Chemical Grouting	Grout	GAL	200.00	90.00	125.00	625.00
485		Pump Mobilization	EA	2,000.00	1,350.00	1,700.00	7,625.00
486	Pressure Testing	Low Pressure Air	EA	500.00	585.00	675.00	600.00
487		Hydrostatic	EA	500.00	585.00	775.00	4,800.00
488		Static Water Level	EA	500.00	585.00	775.00	500.00
489	Hourly Labor	Superintendent	HR	35.00	45.00	50.00	120.00
490		Foreman	HR	25.00	30.60	34.00	85.00
491		Operator	HR	25.00	27.00	30.00	70.00
492		Pipe Layer	HR	20.00	22.50	25.00	60.00
493		Laborer	HR	18.00	18.00	20.00	40.00
494	Hourly Equipment	78,000 # Class Excavator	HR	130.00	162.00	200.00	165.00
495		52,000 # Class Excavator	HR	120.00	153.00	175.00	140.00
496		45,000 # Class Excavator	HR	110.00	99.00	120.00	90.00
497		17,000 # Class Excavator	HR	65.00	81.00	90.00	80.00
498		10,000 # Class Excavator	HR	60.00	58.50	65.00	70.00
499		30,000 # Class Rubber Tired Loader	HR	70.00	67.50	85.00	80.00
500		Rubber Tired Backhoe / Loader	HR	55.00	54.00	70.00	60.00
501		18,000 # Class Track Dozier	HR	60.00	58.50	60.00	65.00
502		Vibratory Soil Compactor (Ride On) Up to 66-inch compaction width	HR	65.00	58.50	65.00	70.00
503		Vibratory Soil Compactor (Remote Controlled) Up to 48-inch compaction width	HR	60.00	45.00	60.00	35.00
504		Utility Truck Fully Equipped with Hand Tools, Air Tools, Cutting Tools, Mudhog Pump, Generator, Air Compressor, Mechanical Tamp	HR	25.00	22.50	30.00	28.00
505	Equipment Rental		EA	10%	10%	10%	10%
506	Supplied Material		EA	10%	10%	10%	10%
507	Specialty Services		EA	10%	10%	10%	10%

UPON MOTION by John Westervelt and seconded by Rodney Givens, it was unanimously

RESOLVED to approve staff recommendation to award the Annual Contract for Pipe Repairs and Replacement to Don Hall Construction based on the unit prices listed above with the option to extend the contract for a second and third year at no change in terms and condition, contingent upon approval of bonds and insurance as required and to authorize the General Manager to sign the contract.

UPON MOTION by John Westervelt and seconded by Sophia Haynes, it was unanimously

RESOLVED to go into Executive Session to discuss legal and personnel issues.

UPON MOTION by Sophia Haynes and seconded by Oscar Blalock, it was unanimously

RESOLVED for the Board to return from Executive Session to Open Session.

UPON MOTION by Oscar Blalock and seconded by Rodney Givens, it was unanimously

RESOLVED to approve the Executive Session Minutes of October 2, 2014.

Updates from the Board Members & General Manager: General Manger, Mike Thomas updated the board on the new parking lot separation design being worked on to separate the employee's parking area from customer parking. Mike Thomas also updated the Board on Program Management and Engineering's Strategic Master Plan and on rate adjustment.

Mr. Thomas requested direction from the Board on CCWA's engineering consulting contract renewal. The Board made a motion to rebid the services and to procure two large firms and one small consulting firm.


UPON MOTION by John Westervelt and seconded by Oscar Blalock, it was unanimously

RESOLVED to rebid the Engineering Consulting Contracts.

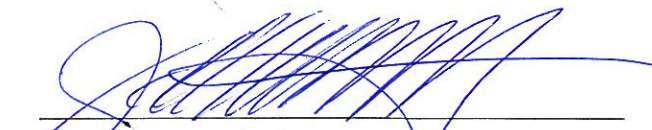
UPON MOTION by Sophia Haynes and seconded by Oscar Blalock, it was unanimously

RESOLVED to adjourn the regular session board meeting.

There being no further business to come before the open meeting, the meeting was adjourned.



Walter Marie Barber, Chairperson



John Westervelt, Secretary/Treasurer