

MEMORANDUM

To: Board of Directors
From: Peter C. Gorham, P.E., Director of Engineering
Date: May 13, 2010
Re: FY 2010 CIP Authorizations
cc: James M. Bowling, IV

The following projects require Board authorization:

- A. Canterbury Hills Water Main Replacement Project:** At the June 2009 Board Meeting, the ACSA staff presented the Fee Proposal for the design phase of the project from our term contract consultant, Michael Baker, Jr., Inc. (Baker). The scope of the project was expanded to include a sanitary sewer extension along Angus Court. Due to an error in the spreadsheet summation of subtotals the cost of the sewer extension design was not reflected in the total for the proposal. The cost of the sanitary sewer design is \$2,600.00.

On May 7, 2010, the ACSA accepted construction bids for the Canterbury Hills Water Main Replacement Project. Seven contractors bid on the project. The Engineer's estimate was \$724,410.00. The apparent lower bidder is Linco, Inc., with a bid of \$448,648.00. Attached is a letter, dated May 10, 2010, from Baker recommending award to Linco, Inc. The ACSA staff concurs with this recommendation.

Board Action

We request the Board of Directors appropriate \$451,248.00 from the FY 2010 3R Fund for design services and construction of the Canterbury Hills Water Main Replacement Project.

- B. Meadow Creek Drainage Basin Sewer Rehabilitation:** O'Brien & Gere Engineers, Inc., (OBG) is completing the design of the Meadow Creek Drainage Basin Sanitary Sewer Replacement Project. The ACSA staff recognized an

opportunity to incorporate the FY 2012 Georgetown Green Sewer Replacement Project into the design and construction of the Meadow Creek Drainage Basin Rehabilitation Project.

OBG, using the original design scope and discussions with ACSA staff developed a fee proposal in the attached letter dated May 11, 2010. The ACSA staff has reviewed the letter and proposed fee and finds it satisfactory. The proposed fee for the additional design work is \$21,324.00.

Board Action

We request the Board of Directors appropriate \$ 21,324.00 from the FY 2010 3R Fund for the additional design for the Meadow Creek Drainage Basin Sewer Rehabilitation Project.

- C. **North Fork Regional Pump Station Project:** Our consultant, Whitman, Requardt and Associates, LLP (WRA) is completing the design of the North Fork Regional Pump Station Project. With completion of the design, acquisition of easements and obtaining financing, the ACSA staff is requesting the Board to authorize the advertising for Construction Bids for the project. The estimated construction cost, copy attached, for the project is \$11,016,000.

Board Action

We request the Board of Directors authorize the advertising for Construction Bids for the project.

May 10, 2010

Mr. Jeremy M. Lynn, P.E.
Albemarle County Service Authority
168 Spotnap Road
Charlottesville, VA 22911**RE: Recommendation to Award Contract**
Canterbury Hills Water Main Replacements
(including Angus Court Sewer Extension)
ACSA Project No. 2009-03

Dear Mr. Lynn:

Pursuant to your request, Michael Baker, Jr., Inc. (Baker) has completed its evaluation of the seven (7) bids, which were opened on May 7, 2010, for the Canterbury Hills Water Main Replacements (including Angus Court Sewer Extension) project. The following table reflects the verified bid totals.

<u>Bidder</u>	<u>Bid Total (Percent of Estimate)</u>	
1. Linco, Inc.	\$ 448,648.00	(61.93%)
2. A.G. Dillard, Inc.	\$ 529,525.00	(73.10%)
3. Digs, Inc.	\$ 587,322.00	(81.08%)
4. Fielder's Choice Enterprises, Inc.	\$ 608,830.00	(84.04%)
5. Earthworks Excavating, Inc.	\$ 690,927.90	(95.38%)
6. Saunders Construction Co., Inc.	\$ 705,705.00	(97.42%)
7. E.C. Pace Company, Inc. (error on Bid Form, see below)	\$ 794,239.00	(109.64%)
<hr/>		
Engineer's Estimate.....	\$ 724,410.00	

All bid packages submitted to the Albemarle County Service Authority for the aforementioned project have been reviewed by Baker for discrepancies and mathematical errors in the extended Item totals and base bid amounts. The attached Bid Tabulation summarizes the submitted base bid amounts shown on the individual Bid Forms, compared to the calculated extended total amounts, using the unit prices provided for each Item times the quantity shown for that Item, from each respective Bid Form. Where mathematical errors were identified, as noted above, corrected totals have been provided.

Based on the information presented in its bid package, the apparent low bidder is Linco, Inc., located in Waynesboro, Virginia. Baker has verified that Linco, Inc. currently holds a valid Virginia Class "A" Contractor's license, registration number 2705095966, which expires June 30, 2011. In our opinion, this bid package conforms to the requirements set forth in the Instruction to Bidders.

As a part of our evaluation, Baker has performed a limited review of Linco, Inc.'s experience with work of similar size and type. It is our understanding that this Contractor has recently performed work satisfactorily for the Albemarle County Service Authority, within the last few years, for the following ACSA projects:

- Woodbrook Water Main Replacements project
- Colthurst Farm Water System Replacements project
- Scottsville Phase I Water and Sewer project

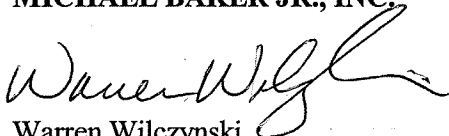
It is our opinion that these three projects previously constructed by Linco, Inc. are of similar size and type to the work being performed under the Canterbury Hills Water Main Replacements (including Angus Court Sewer Extension) project. Due to the size of this project, no checks were performed to judge the Contractor's creditworthiness.

Based on the results of our evaluation, Linco, Inc. appears to possess the capacity and demonstrated experience to perform the work included in the contract documents, as well as the capacity and equipment necessary for performance of the contract. It is our recommendation that the Albemarle County Service Authority award the Canterbury Hills Water Main Replacements (including Angus Court Sewer Extension) project construction contract to Linco, Inc., in the amount of \$448,648.00 (four hundred forty-eight thousand six hundred forty-eight dollars and no cents).

If you have any questions or require additional information, please do not hesitate to contact us.

Sincerely,

MICHAEL BAKER JR., INC.



Warren Wilczynski
Assistant Project Manager

Enclosures: Bid Tabulation

cc: Chip Votava, P.E. (Baker)
Project File 117546.20

CANTERBURY HILLS WATER MAIN REPLACEMENTS

(including Angus Court Sewer Extension)
Albemarle County Service Authority • Albemarle County, Virginia

BID SUMMARY

Bid Opening: May 7, 2010 at 2:00 p.m. (EST) • Bid Tab Prepared: May 7, 2010
Prepared by : Michael Baker Jr., Inc.
272 Bendix Road, Suite 400 • Virginia Beach, Virginia 23452

Contractor	Confirmed Ranking	Written Bid Amount	Calculated Bid Amount	Difference in Totals	Bid Package Components					Remarks
					1	2	3	4	5	
Linco, Inc.	1	\$ 448,648.00	\$ 448,648.00	\$ -	Yes	Yes	Yes	Yes	N/A	Confirmed Apparent Low Bidder
A.G. Dillard, Inc.	2	\$ 529,525.00	\$ 529,525.00	\$ -	Yes	Yes	Yes	No	N/A	
Digs, Inc.	3	\$ 587,322.00	\$ 587,322.00	\$ -	Yes	Yes	Yes	Yes	N/A	
Fielder's Choice Enterprises, Inc.	4	\$ 608,830.00	\$ 608,830.00	\$ -	Yes	Yes	Yes	Yes	N/A	
Earthworks Excavating, Inc.	5	\$ 690,927.90	\$ 690,927.90	\$ -	Yes	Yes	Yes	Yes	N/A	
Saunders Construction Co., Inc.	6	\$ 705,705.00	\$ 705,705.00	\$ -	Yes	Yes	Yes	Yes	N/A	
E.C. Pace Company, Inc.	7	\$ 798,209.00	\$ 794,239.00	\$ (3,970.00)	Yes	Yes	Yes	Yes	N/A	\$3,970 Error in Bid Item 8

Bid Package Components

-
- 1 Completed and Signed Bid Form
 - 2 Bid Bond, Certified Check or Cash Escrow (5%)
 - 3 OSHA Form 300
 - 4 Completed Receipt of Addenda (None Issued)
 - 5 Additional Information Required (None Required)

**CANTERBURY HILLS WATER MAIN REPLACEMENTS
(including Angus Court Sewer Extension)**

Albemarle County Service Authority • Albemarle County, Virginia

BID TABULATION

Bid Opening: May 7, 2010 at 2:00 p.m. (EST) • Bid Tab Prepared: May 7, 2010

Prepared by : Michael Baker Jr., Inc.

272 Bendix Road, Suite 400 • Virginia Beach, Virginia 23452

EVALUATION OF COSTS							
Mean	Median	Mode	Maximum	Minimum	Range	Item No.	Bid Item
\$45,974.57	\$33,486.00	#N/A	\$130,000.00	\$17,850.00	\$112,150.00	1	Mobilization
\$85.12	\$74.85	#N/A	\$127.00	\$60.00	\$67.00	2	8-Inch Ductile Iron Water Main Installation
\$60.25	\$64.00	#N/A	\$82.00	\$35.00	\$47.00	3	6-Inch Ductile Iron Water Main Installation (shall include all piping lengths associated with Fire Hydrant Installations)
\$52.45	\$55.00	#N/A	\$74.42	\$27.70	\$46.72	4	4-Inch Ductile Iron Water Main Installation
\$2,716.14	\$2,500.00	#N/A	\$3,760.00	\$2,000.00	\$1,760.00	5	10-Inch x 4-Inch Tapping Sleeve and Valve
\$2,899.93	\$2,880.00	#N/A	\$3,975.00	\$1,984.50	\$1,990.50	6	8-Inch x 6-Inch Tapping Sleeve and Valve
\$2,672.86	\$2,500.00	#N/A	\$3,735.00	\$1,800.00	\$1,935.00	7	8-Inch x 4-Inch Tapping Sleeve and Valve
\$2,875.64	\$2,900.00	#N/A	\$3,970.00	\$1,648.50	\$2,321.50	8	6-Inch x 6-Inch Tapping Sleeve and Valve
\$2,511.36	\$2,425.00	#N/A	\$3,690.00	\$1,564.50	\$2,125.50	9	6-Inch x 4-Inch Tapping Sleeve and Valve
\$1,270.71	\$1,300.00	#N/A	\$1,610.00	\$1,025.00	\$585.00	10	8-Inch Gate Valve Installation
\$927.93	\$930.00	\$1,000.00	\$1,300.00	\$738.00	\$562.00	11	6-Inch Gate Valve Installation (shall include all gate valves)
\$779.71	\$750.00	\$630.00	\$1,180.00	\$618.00	\$562.00	12	4-Inch Gate Valve Installation
\$2,567.00	\$2,231.00	\$2,200.00	\$3,725.00	\$2,188.00	\$1,537.00	13	Fire Hydrant Installation
\$343.32	\$282.00	#N/A	\$600.00	\$235.00	\$365.00	14	1-Inch service Connection
\$28.08	\$28.00	#N/A	\$47.22	\$9.10	\$38.12	15	1-Inch Copper Pipe
\$453.57	\$450.00	\$0.00	\$1,000.00	\$0.00	\$1,000.00	16	Water Meter Installation (Bingham and Taylor, cast iron)
\$333.63	\$240.00	#N/A	\$825.00	\$110.00	\$715.00	17	Water Meter Installation (Brooks, plastic)
\$944.99	\$935.00	#N/A	\$1,459.96	\$350.00	\$1,109.96	18	2-Inch Blow-off Assembly
\$374.68	\$364.00	\$400.00	\$545.00	\$275.00	\$270.00	19	48-Inch I.D. Sanitary Manhole Installation
\$420.75	\$400.00	\$320.00	\$650.00	\$320.00	\$330.00	20	Standard Manhole Frame and Cover Installation
\$71.66	\$83.00	#N/A	\$112.00	\$35.60	\$76.40	21	8-Inch Polyvinyl Chloride (PVC) Sanitary Sewer Main Installation
\$48.51	\$40.55	#N/A	\$95.00	\$18.00	\$77.00	22	4-Inch Polyvinyl Chloride (PVC) Sanitary Lateral Stubout Installation
\$55.95	\$55.00	\$55.00	\$67.40	\$46.50	\$20.90	23	Asphalt Concrete Course Pavement Removal and
\$3.02	\$3.10	#N/A	\$3.80	\$2.41	\$1.39	24	Slurry Seal Coat (VDOT)
\$171.00	\$142.00	#N/A	\$400.00	\$90.00	\$310.00	25	Brick Gutter/Swale Replacement
\$23.32	\$20.00	\$20.00	\$65.00	\$6.00	\$59.00	26	Additional Earth Excavation
\$221.29	\$210.00	#N/A	\$310.00	\$129.00	\$181.00	27	Additional Class "D" Concrete
\$26.67	\$25.00	#N/A	\$45.00	\$12.00	\$33.00	28	Additional Select Fill Type A (Suitable Earth)
\$37.61	\$38.00	#N/A	\$45.00	\$26.25	\$18.75	29	Additional Select Fill Type B (Crushed Stone)
\$84.91	\$79.00	\$80.00	\$200.00	\$45.00	\$155.00	30	Concrete Driveway Apron/Valley Gutter Replacement
\$30.16	\$26.00	#N/A	\$56.00	\$16.00	\$40.00	31	Concrete Curb and Gutter Replacement

CANTERBURY HILLS WATER MAIN REPLACEMENTS
(including Angus Court Sewer Extension)
 Albemarle County Service Authority • Albemarle County, Virginia

BID TABULATION

Bid Opening: May 7, 2010 at 2:00 p.m. (EST) • Bid Tab Prepared: May 7, 2010
 Prepared by: Michael Baker Jr., Inc.
 272 Bendix Road, Suite 400 • Virginia Beach, Virginia 23452

DESCRIPTION				<i>Engineer's Opinion of Cost</i>		Linco, Inc.		A.G. Dillard, Inc.	
Item No.	Bid Item	Quantity	Unit	Unit Cost	Calculated Total Cost	Unit Cost	Calculated Total Cost	Unit Cost	Calculated Total Cost
1	Mobilization	1	LS	\$ 50,000.00	\$ 50,000.00	\$ 43,524.00	\$ 43,524.00	\$ 27,500.00	\$ 27,500.00
2	8-Inch Ductile Iron Water Main Installation	40	LF	\$ 75.00	\$ 3,000.00	\$ 73.00	\$ 2,920.00	\$ 60.00	\$ 2,400.00
3	6-Inch Ductile Iron Water Main Installation (shall include all piping lengths associated with Fire Hydrant Installations)	610	LF	\$ 60.00	\$ 36,600.00	\$ 36.50	\$ 22,265.00	\$ 58.00	\$ 35,380.00
4	4-Inch Ductile Iron Water Main Installation	2,674	LF	\$ 55.00	\$ 147,070.00	\$ 27.70	\$ 74,069.80	\$ 55.00	\$ 147,070.00
5	10-Inch x 4-Inch Tapping Sleeve and Valve	1	EA	\$ 7,250.00	\$ 7,250.00	\$ 2,486.00	\$ 2,486.00	\$ 2,000.00	\$ 2,000.00
6	8-Inch x 6-Inch Tapping Sleeve and Valve	1	EA	\$ 6,500.00	\$ 6,500.00	\$ 2,660.00	\$ 2,660.00	\$ 2,100.00	\$ 2,100.00
7	8-Inch x 4-Inch Tapping Sleeve and Valve	3	EA	\$ 6,000.00	\$ 18,000.00	\$ 2,433.00	\$ 7,299.00	\$ 1,800.00	\$ 5,400.00
8	6-Inch x 6-Inch Tapping Sleeve and Valve	3	EA	\$ 5,000.00	\$ 15,000.00	\$ 2,711.00	\$ 8,133.00	\$ 2,200.00	\$ 6,600.00
9	6-Inch x 4-Inch Tapping Sleeve and Valve	4	EA	\$ 4,750.00	\$ 19,000.00	\$ 2,425.00	\$ 9,700.00	\$ 1,750.00	\$ 7,000.00
10	8-Inch Gate Valve Installation	2	EA	\$ 1,000.00	\$ 2,000.00	\$ 1,060.00	\$ 2,120.00	\$ 1,350.00	\$ 2,700.00
11	6-Inch Gate Valve Installation (shall include all gate valves)	5	EA	\$ 850.00	\$ 4,250.00	\$ 738.00	\$ 3,690.00	\$ 930.00	\$ 4,650.00
12	4-Inch Gate Valve Installation	14	EA	\$ 750.00	\$ 10,500.00	\$ 618.00	\$ 8,652.00	\$ 750.00	\$ 10,500.00
13	Fire Hydrant Installation	5	EA	\$ 3,000.00	\$ 15,000.00	\$ 2,188.00	\$ 10,940.00	\$ 2,800.00	\$ 14,000.00
14	1-Inch service Connection	71	EA	\$ 300.00	\$ 21,300.00	\$ 282.00	\$ 20,022.00	\$ 400.00	\$ 28,400.00
15	1-Inch Copper Pipe	2,100	LF	\$ 25.00	\$ 52,500.00	\$ 9.10	\$ 19,110.00	\$ 15.00	\$ 31,500.00
16	Water Meter Installation (Bingham and Taylor, cast iron)	0	EA	\$ 600.00	\$ -	\$ 450.00	\$ -	\$ 250.00	\$ -
17	Water Meter Installation (Brooks, plastic)	65	EA	\$ 450.00	\$ 29,250.00	\$ 291.00	\$ 18,915.00	\$ 110.00	\$ 7,150.00
18	2-Inch Blow-off Assembly	11	EA	\$ 1,500.00	\$ 16,500.00	\$ 795.00	\$ 8,745.00	\$ 350.00	\$ 3,850.00
19	48-Inch I.D. Sanitary Manhole Installation	18	LF (Vertical)	\$ 450.00	\$ 8,100.00	\$ 364.00	\$ 6,552.00	\$ 400.00	\$ 7,200.00
20	Standard Manhole Frame and Cover Installation	2	EA	\$ 450.00	\$ 900.00	\$ 454.00	\$ 908.00	\$ 320.00	\$ 640.00
21	8-Inch Polyvinyl Chloride (PVC) Sanitary Sewer Main Installation	222	LF	\$ 90.00	\$ 19,980.00	\$ 35.60	\$ 7,903.20	\$ 50.00	\$ 11,100.00
22	4-Inch Polyvinyl Chloride (PVC) Sanitary Lateral Stubout Installation	141	LF	\$ 60.00	\$ 8,460.00	\$ 28.00	\$ 3,948.00	\$ 35.00	\$ 4,935.00
23	Asphalt Concrete Course Pavement Removal and	1,800	SY	\$ 55.00	\$ 99,000.00	\$ 52.22	\$ 93,996.00	\$ 50.00	\$ 90,000.00
24	Slurry Seal Coat (VDOT)	21,500	SY	\$ 5.00	\$ 107,500.00	\$ 2.41	\$ 51,815.00	\$ 2.50	\$ 53,750.00
25	Brick Gutter/Swale Replacement	10	SY	\$ 250.00	\$ 2,500.00	\$ 180.00	\$ 1,800.00	\$ 150.00	\$ 1,500.00
26	Additional Earth Excavation	50	CY	\$ 25.00	\$ 1,250.00	\$ 6.00	\$ 300.00	\$ 20.00	\$ 1,000.00
27	Additional Class "D" Concrete	25	CY	\$ 200.00	\$ 5,000.00	\$ 175.00	\$ 4,375.00	\$ 300.00	\$ 7,500.00
28	Additional Select Fill Type A (Suitable Earth)	100	CY	\$ 25.00	\$ 2,500.00	\$ 18.00	\$ 1,800.00	\$ 25.00	\$ 2,500.00
29	Additional Select Fill Type B (Crushed Stone)	100	CY	\$ 35.00	\$ 3,500.00	\$ 38.00	\$ 3,800.00	\$ 40.00	\$ 4,000.00
30	Concrete Driveway Apron/Valley Gutter Replacement	20	SY	\$ 100.00	\$ 2,000.00	\$ 80.00	\$ 1,600.00	\$ 60.00	\$ 1,200.00
31	Concrete Curb and Gutter Replacement	200	LF	\$ 50.00	\$ 10,000.00	\$ 23.00	\$ 4,600.00	\$ 30.00	\$ 6,000.00
				Calculated Total \$ 724,410.00		Calculated Total \$ 448,648.00		Calculated Total \$ 529,525.00	
						Proposal Base Bid \$ 448,648.00		Proposal Base Bid \$ 529,525.00	
						Bid Totals VERIFIED		Bid Totals VERIFIED	
				Difference in Calculated and Item Total Price from Bid Form		\$0.00		\$0.00	
				Remarks		None		None	
				Engineer's Opinion of Cost		Linco, Inc.		A.G. Dillard, Inc.	

CANTERBURY HILLS WATER MAIN REPLACEMENTS
(including Angus Court Sewer Extension)
 Albemarle County Service Authority • Albemarle County, Virginia

BID TABULATION

Bid Opening: May 7, 2010 at 2:00 p.m. (EST) • Bid Tab Prepared: May 7, 2010
 Prepared by: Michael Baker Jr., Inc.
 272 Bendix Road, Suite 400 • Virginia Beach, Virginia 23452

DESCRIPTION				Engineer's Opinion of Cost		Digs, Inc.		Fielder's Choice Enterprises, Inc.	
Item No.	Bid Item	Quantity	Unit	Unit Cost	Calculated Total Cost	Unit Cost	Calculated Total Cost	Unit Cost	Calculated Total Cost
1	Mobilization	1	LS	\$ 50,000.00	\$ 50,000.00	\$ 31,262.00	\$ 31,262.00	\$ 130,000.00	\$ 130,000.00
2	8-Inch Ductile Iron Water Main Installation	40	LF	\$ 75.00	\$ 3,000.00	\$ 93.00	\$ 3,720.00	\$ 68.00	\$ 2,720.00
3	6-Inch Ductile Iron Water Main Installation (shall include all piping lengths associated with Fire Hydrant Installations)	610	LF	\$ 60.00	\$ 36,600.00	\$ 64.00	\$ 39,040.00	\$ 35.00	\$ 21,350.00
4	4-Inch Ductile Iron Water Main Installation	2,674	LF	\$ 55.00	\$ 147,070.00	\$ 57.00	\$ 152,418.00	\$ 34.00	\$ 90,916.00
5	10-Inch x 4-Inch Tapping Sleeve and Valve	1	EA	\$ 7,250.00	\$ 7,250.00	\$ 2,567.00	\$ 2,567.00	\$ 2,500.00	\$ 2,500.00
6	8-Inch x 6-Inch Tapping Sleeve and Valve	1	EA	\$ 6,500.00	\$ 6,500.00	\$ 2,880.00	\$ 2,880.00	\$ 2,900.00	\$ 2,900.00
7	8-Inch x 4-Inch Tapping Sleeve and Valve	3	EA	\$ 6,000.00	\$ 18,000.00	\$ 2,610.00	\$ 7,830.00	\$ 2,500.00	\$ 7,500.00
8	6-Inch x 6-Inch Tapping Sleeve and Valve	3	EA	\$ 5,000.00	\$ 15,000.00	\$ 3,400.00	\$ 10,200.00	\$ 2,900.00	\$ 8,700.00
9	6-Inch x 4-Inch Tapping Sleeve and Valve	4	EA	\$ 4,750.00	\$ 19,000.00	\$ 2,750.00	\$ 11,000.00	\$ 2,400.00	\$ 9,600.00
10	8-Inch Gate Valve Installation	2	EA	\$ 1,000.00	\$ 2,000.00	\$ 1,025.00	\$ 2,050.00	\$ 1,300.00	\$ 2,600.00
11	6-Inch Gate Valve Installation (shall include all gate valves)	5	EA	\$ 850.00	\$ 4,250.00	\$ 740.00	\$ 3,700.00	\$ 1,000.00	\$ 5,000.00
12	4-Inch Gate Valve Installation	14	EA	\$ 750.00	\$ 10,500.00	\$ 630.00	\$ 8,820.00	\$ 850.00	\$ 11,900.00
13	Fire Hydrant Installation	5	EA	\$ 3,000.00	\$ 15,000.00	\$ 2,231.00	\$ 11,155.00	\$ 2,200.00	\$ 11,000.00
14	1-Inch service Connection	71	EA	\$ 300.00	\$ 21,300.00	\$ 235.00	\$ 16,685.00	\$ 275.00	\$ 19,525.00
15	1-Inch Copper Pipe	2,100	LF	\$ 25.00	\$ 52,500.00	\$ 28.00	\$ 58,800.00	\$ 9.25	\$ 19,425.00
16	Water Meter Installation (Bingham and Taylor, cast iron)	0	EA	\$ 600.00	\$ -	\$ 500.00	\$ -	\$ -	\$ -
17	Water Meter Installation (Brooks, plastic)	65	EA	\$ 450.00	\$ 29,250.00	\$ 133.00	\$ 8,645.00	\$ 240.00	\$ 15,600.00
18	2-Inch Blow-off Assembly	11	EA	\$ 1,500.00	\$ 16,500.00	\$ 775.00	\$ 8,525.00	\$ 1,100.00	\$ 12,100.00
19	48-Inch I.D. Sanitary Manhole Installation	18	LF (Vertical)	\$ 450.00	\$ 8,100.00	\$ 545.00	\$ 9,810.00	\$ 400.00	\$ 7,200.00
20	Standard Manhole Frame and Cover Installation	2	EA	\$ 450.00	\$ 900.00	\$ 320.00	\$ 640.00	\$ 650.00	\$ 1,300.00
21	8-Inch Polyvinyl Chloride (PVC) Sanitary Sewer Main Installation	222	LF	\$ 90.00	\$ 19,980.00	\$ 90.00	\$ 19,980.00	\$ 83.00	\$ 18,426.00
22	4-Inch Polyvinyl Chloride (PVC) Sanitary Lateral Stubout Installation	141	LF	\$ 60.00	\$ 8,460.00	\$ 95.00	\$ 13,395.00	\$ 18.00	\$ 2,538.00
23	Asphalt Concrete Course Pavement Removal and	1,800	SY	\$ 55.00	\$ 99,000.00	\$ 46.50	\$ 83,700.00	\$ 65.50	\$ 117,900.00
24	Slurry Seal Coat (VDOT)	21,500	SY	\$ 5.00	\$ 107,500.00	\$ 3.10	\$ 66,650.00	\$ 3.15	\$ 67,725.00
25	Brick Gutter/Swale Replacement	10	SY	\$ 250.00	\$ 2,500.00	\$ 90.00	\$ 900.00	\$ 130.00	\$ 1,300.00
26	Additional Earth Excavation	50	CY	\$ 25.00	\$ 1,250.00	\$ 12.00	\$ 600.00	\$ 20.00	\$ 1,000.00
27	Additional Class "D" Concrete	25	CY	\$ 200.00	\$ 5,000.00	\$ 150.00	\$ 3,750.00	\$ 129.00	\$ 3,225.00
28	Additional Select Fill Type A (Suitable Earth)	100	CY	\$ 25.00	\$ 2,500.00	\$ 12.00	\$ 1,200.00	\$ 44.00	\$ 4,400.00
29	Additional Select Fill Type B (Crushed Stone)	100	CY	\$ 35.00	\$ 3,500.00	\$ 33.00	\$ 3,300.00	\$ 37.00	\$ 3,700.00
30	Concrete Driveway Apron/Valley Gutter Replacement	20	SY	\$ 100.00	\$ 2,000.00	\$ 45.00	\$ 900.00	\$ 79.00	\$ 1,580.00
31	Concrete Curb and Gutter Replacement	200	LF	\$ 50.00	\$ 10,000.00	\$ 16.00	\$ 3,200.00	\$ 26.00	\$ 5,200.00
				Calculated Total \$ 724,410.00		Calculated Total \$ 587,322.00 Proposal Base Bid \$ 587,322.00		Calculated Total \$ 608,830.00 Proposal Base Bid \$ 608,830.00	
						Bid Totals VERIFIED		Bid Totals VERIFIED	
				Difference in Calculated and Item Total Price from Bid Form		\$0.00		\$0.00	
				Remarks		None		None	
				Engineer's Opinion of Cost		Digs, Inc.		Fielder's Choice Enterprises, Inc.	

CANTERBURY HILLS WATER MAIN REPLACEMENTS
(including Angus Court Sewer Extension)
 Albemarle County Service Authority • Albemarle County, Virginia

BID TABULATION

Bid Opening: May 7, 2010 at 2:00 p.m. (EST) • Bid Tab Prepared: May 7, 2010
 Prepared by: Michael Baker Jr., Inc.
 272 Bendix Road, Suite 400 • Virginia Beach, Virginia 23452

DESCRIPTION				<i>Engineer's Opinion of Cost</i>		Earthworks Excavating, Inc.		Saunders Construction Co., Inc.	
Item No.	Bid Item	Quantity	Unit	Unit Cost	Calculated Total Cost	Unit Cost	Calculated Total Cost	Unit Cost	Calculated Total Cost
1	Mobilization	1	LS	\$ 50,000.00	\$ 50,000.00	\$ 17,850.00	\$ 17,850.00	\$ 33,486.00	\$ 33,486.00
2	8-Inch Ductile Iron Water Main Installation	40	LF	\$ 75.00	\$ 3,000.00	\$ 74.85	\$ 2,994.00	\$ 100.00	\$ 4,000.00
3	6-Inch Ductile Iron Water Main Installation (shall include all piping lengths associated with Fire Hydrant Installations)	610	LF	\$ 60.00	\$ 36,600.00	\$ 71.23	\$ 43,450.30	\$ 75.00	\$ 45,750.00
4	4-Inch Ductile Iron Water Main Installation	2,674	LF	\$ 55.00	\$ 147,070.00	\$ 74.42	\$ 198,999.08	\$ 51.00	\$ 136,374.00
5	10-Inch x 4-Inch Tapping Sleeve and Valve	1	EA	\$ 7,250.00	\$ 7,250.00	\$ 2,100.00	\$ 2,100.00	\$ 3,600.00	\$ 3,600.00
6	8-Inch x 6-Inch Tapping Sleeve and Valve	1	EA	\$ 6,500.00	\$ 6,500.00	\$ 1,984.50	\$ 1,984.50	\$ 3,800.00	\$ 3,800.00
7	8-Inch x 4-Inch Tapping Sleeve and Valve	3	EA	\$ 6,000.00	\$ 18,000.00	\$ 1,932.00	\$ 5,796.00	\$ 3,700.00	\$ 11,100.00
8	6-Inch x 6-Inch Tapping Sleeve and Valve	3	EA	\$ 5,000.00	\$ 15,000.00	\$ 1,648.50	\$ 4,945.50	\$ 3,300.00	\$ 9,900.00
9	6-Inch x 4-Inch Tapping Sleeve and Valve	4	EA	\$ 4,750.00	\$ 19,000.00	\$ 1,564.50	\$ 6,258.00	\$ 3,000.00	\$ 12,000.00
10	8-Inch Gate Valve Installation	2	EA	\$ 1,000.00	\$ 2,000.00	\$ 1,050.00	\$ 2,100.00	\$ 1,500.00	\$ 3,000.00
11	6-Inch Gate Valve Installation (shall include all gate valves)	5	EA	\$ 850.00	\$ 4,250.00	\$ 787.50	\$ 3,937.50	\$ 1,000.00	\$ 5,000.00
12	4-Inch Gate Valve Installation	14	EA	\$ 750.00	\$ 10,500.00	\$ 630.00	\$ 8,820.00	\$ 800.00	\$ 11,200.00
13	Fire Hydrant Installation	5	EA	\$ 3,000.00	\$ 15,000.00	\$ 2,625.00	\$ 13,125.00	\$ 2,200.00	\$ 11,000.00
14	1-Inch service Connection	71	EA	\$ 300.00	\$ 21,300.00	\$ 236.25	\$ 16,773.75	\$ 600.00	\$ 42,600.00
15	1-Inch Copper Pipe	2,100	LF	\$ 25.00	\$ 52,500.00	\$ 47.22	\$ 99,162.00	\$ 45.00	\$ 94,500.00
16	Water Meter Installation (Bingham and Taylor, cast iron)	0	EA	\$ 600.00	\$ -	\$ -	\$ -	\$ 1,000.00	\$ -
17	Water Meter Installation (Brooks, plastic)	65	EA	\$ 450.00	\$ 29,250.00	\$ 236.40	\$ 15,366.00	\$ 500.00	\$ 32,500.00
18	2-Inch Blow-off Assembly	11	EA	\$ 1,500.00	\$ 16,500.00	\$ 1,459.96	\$ 16,059.56	\$ 1,200.00	\$ 13,200.00
19	48-Inch I.D. Sanitary Manhole Installation	18	LF (Vertical)	\$ 450.00	\$ 8,100.00	\$ 288.75	\$ 5,197.50	\$ 350.00	\$ 6,300.00
20	Standard Manhole Frame and Cover Installation	2	EA	\$ 450.00	\$ 900.00	\$ 341.25	\$ 682.50	\$ 400.00	\$ 800.00
21	8-Inch Polyvinyl Chloride (PVC) Sanitary Sewer Main Installation	222	LF	\$ 90.00	\$ 19,980.00	\$ 46.03	\$ 10,218.66	\$ 85.00	\$ 18,870.00
22	4-Inch Polyvinyl Chloride (PVC) Sanitary Lateral Stubout Installation	141	LF	\$ 60.00	\$ 8,460.00	\$ 40.55	\$ 5,717.55	\$ 50.00	\$ 7,050.00
23	Asphalt Concrete Course Pavement Removal and	1,800	SY	\$ 55.00	\$ 99,000.00	\$ 67.40	\$ 121,320.00	\$ 55.00	\$ 99,000.00
24	Slurry Seal Coat (VDOT)	21,500	SY	\$ 5.00	\$ 107,500.00	\$ 3.29	\$ 70,735.00	\$ 2.90	\$ 62,350.00
25	Brick Gutter/Swale Replacement	10	SY	\$ 250.00	\$ 2,500.00	\$ 105.00	\$ 1,050.00	\$ 400.00	\$ 4,000.00
26	Additional Earth Excavation	50	CY	\$ 25.00	\$ 1,250.00	\$ 26.25	\$ 1,312.50	\$ 65.00	\$ 3,250.00
27	Additional Class "D" Concrete	25	CY	\$ 200.00	\$ 5,000.00	\$ 210.00	\$ 5,250.00	\$ 275.00	\$ 6,875.00
28	Additional Select Fill Type A (Suitable Earth)	100	CY	\$ 25.00	\$ 2,500.00	\$ 14.70	\$ 1,470.00	\$ 45.00	\$ 4,500.00
29	Additional Select Fill Type B (Crushed Stone)	100	CY	\$ 35.00	\$ 3,500.00	\$ 26.25	\$ 2,625.00	\$ 45.00	\$ 4,500.00
30	Concrete Driveway Apron/Valley Gutter Replacement	20	SY	\$ 100.00	\$ 2,000.00	\$ 50.40	\$ 1,008.00	\$ 200.00	\$ 4,000.00
31	Concrete Curb and Gutter Replacement	200	LF	\$ 50.00	\$ 10,000.00	\$ 23.10	\$ 4,620.00	\$ 56.00	\$ 11,200.00
Calculated Total \$ 724,410.00						Calculated Total \$ 690,927.90		Calculated Total \$ 705,705.00	
Proposed Base Bid \$ 724,410.00						Proposed Base Bid \$ 690,927.90		Proposed Base Bid \$ 705,705.00	
Bid Totals VERIFIED						Bid Totals VERIFIED		Bid Totals VERIFIED	
Difference in Calculated and Item Total Price from Bid Form						\$0.00		\$0.00	
Remarks						None		None	
Engineer's Opinion of Cost						Earthworks Excavating, Inc.		Saunders Construction Co., Inc.	

CANTERBURY HILLS WATER MAIN REPLACEMENTS
(including Angus Court Sewer Extension)
 Albemarle County Service Authority • Albemarle County, Virginia

BID TABULATION

Bid Opening: May 7, 2010 at 2:00 p.m. (EST) • Bid Tab Prepared: May 7, 2010
 Prepared by: Michael Baker Jr., Inc.
 272 Bendix Road, Suite 400 • Virginia Beach, Virginia 23452

DESCRIPTION				Engineer's Opinion of Cost		E.C. Pace Company, Inc.	
Item No.	Bid Item	Quantity	Unit	Unit Cost	Calculated Total Cost	Unit Cost	Calculated Total Cost
1	Mobilization	1	LS	\$ 50,000.00	\$ 50,000.00	\$ 38,200.00	\$ 38,200.00
2	8-Inch Ductile Iron Water Main Installation	40	LF	\$ 75.00	\$ 3,000.00	\$ 127.00	\$ 5,080.00
3	6-Inch Ductile Iron Water Main Installation (shall include all piping lengths associated with Fire Hydrant Installations)	610	LF	\$ 60.00	\$ 36,600.00	\$ 82.00	\$ 50,020.00
4	4-Inch Ductile Iron Water Main Installation	2,674	LF	\$ 55.00	\$ 147,070.00	\$ 68.00	\$ 181,832.00
5	10-Inch x 4-Inch Tapping Sleeve and Valve	1	EA	\$ 7,250.00	\$ 7,250.00	\$ 3,760.00	\$ 3,760.00
6	8-Inch x 6-Inch Tapping Sleeve and Valve	1	EA	\$ 6,500.00	\$ 6,500.00	\$ 3,975.00	\$ 3,975.00
7	8-Inch x 4-Inch Tapping Sleeve and Valve	3	EA	\$ 6,000.00	\$ 18,000.00	\$ 3,735.00	\$ 11,205.00
8	6-Inch x 6-Inch Tapping Sleeve and Valve	3	EA	\$ 5,000.00	\$ 15,000.00	\$ 3,970.00	\$ 11,910.00
9	6-Inch x 4-Inch Tapping Sleeve and Valve	4	EA	\$ 4,750.00	\$ 19,000.00	\$ 3,690.00	\$ 14,760.00
10	8-Inch Gate Valve Installation	2	EA	\$ 1,000.00	\$ 2,000.00	\$ 1,610.00	\$ 3,220.00
11	6-Inch Gate Valve Installation (shall include all gate valves)	5	EA	\$ 850.00	\$ 4,250.00	\$ 1,300.00	\$ 6,500.00
12	4-Inch Gate Valve Installation	14	EA	\$ 750.00	\$ 10,500.00	\$ 1,180.00	\$ 16,520.00
13	Fire Hydrant Installation	5	EA	\$ 3,000.00	\$ 15,000.00	\$ 3,725.00	\$ 18,625.00
14	1-Inch service Connection	71	EA	\$ 300.00	\$ 21,300.00	\$ 375.00	\$ 26,625.00
15	1-Inch Copper Pipe	2,100	LF	\$ 25.00	\$ 52,500.00	\$ 43.00	\$ 90,300.00
16	Water Meter Installation (Bingham and Taylor, cast iron)	0	EA	\$ 600.00	\$ -	\$ 975.00	\$ -
17	Water Meter Installation (Brooks, plastic)	65	EA	\$ 450.00	\$ 29,250.00	\$ 825.00	\$ 53,625.00
18	2-Inch Blow-off Assembly	11	EA	\$ 1,500.00	\$ 16,500.00	\$ 935.00	\$ 10,285.00
19	48-Inch I.D. Sanitary Manhole Installation	18	LF (Vertical)	\$ 450.00	\$ 8,100.00	\$ 275.00	\$ 4,950.00
20	Standard Manhole Frame and Cover Installation	2	EA	\$ 450.00	\$ 900.00	\$ 460.00	\$ 920.00
21	8-Inch Polyvinyl Chloride (PVC) Sanitary Sewer Main Installation	222	LF	\$ 90.00	\$ 19,980.00	\$ 112.00	\$ 24,864.00
22	4-Inch Polyvinyl Chloride (PVC) Sanitary Lateral Stubout Installation	141	LF	\$ 60.00	\$ 8,460.00	\$ 73.00	\$ 10,293.00
23	Asphalt Concrete Course Pavement Removal and	1,800	SY	\$ 55.00	\$ 99,000.00	\$ 55.00	\$ 99,000.00
24	Slurry Seal Coat (VDOT)	21,500	SY	\$ 5.00	\$ 107,500.00	\$ 3.80	\$ 81,700.00
25	Brick Gutter/Swale Replacement	10	SY	\$ 250.00	\$ 2,500.00	\$ 142.00	\$ 1,420.00
26	Additional Earth Excavation	50	CY	\$ 25.00	\$ 1,250.00	\$ 14.00	\$ 700.00
27	Additional Class "D" Concrete	25	CY	\$ 200.00	\$ 5,000.00	\$ 310.00	\$ 7,750.00
28	Additional Select Fill Type A (Suitable Earth)	100	CY	\$ 25.00	\$ 2,500.00	\$ 28.00	\$ 2,800.00
29	Additional Select Fill Type B (Crushed Stone)	100	CY	\$ 35.00	\$ 3,500.00	\$ 44.00	\$ 4,400.00
30	Concrete Driveway Apron/Valley Gutter Replacement	20	SY	\$ 100.00	\$ 2,000.00	\$ 80.00	\$ 1,600.00
31	Concrete Curb and Gutter Replacement	200	LF	\$ 50.00	\$ 10,000.00	\$ 37.00	\$ 7,400.00
Calculated Total \$ 724,410.00						Calculated Total \$ 794,239.00	
Calculated Total \$ 724,410.00						Proposal Base Bid \$ 798,209.00	
Difference in Calculated and Item Total Price from Bid Form						ERROR IN BID TOTALS	
Remarks						-\$3,970.00	
Engineer's Opinion of Cost						\$3,970 error in written total for Bid Item 8 Bid Total RESOLVED, does not affect ranking	
Engineer's Opinion of Cost						E.C. Pace Company, Inc.	



May 13, 2010

Mr. Jeremy M. Lynn, PE

Senior Civil Engineer

Albemarle County Service Authority

168 Spotnap Road

Charlottesville, VA 22911

RE: Response to RFP for the Georgetown Green Sanitary Sewer Replacement

FILE: 6643/BD/Georgetown Green Repl Design

Dear Jeremy:

As requested, please find attached O'Brien & Gere's proposed fee estimate for the subject project. This fee was developed based upon discussions with ACSA personnel. The following clarifications and assumptions were made in the development of this fee:

SCOPE – CLARIFICATIONS AND ASSUMPTIONS

PRELIMINARY ENGINEERING/SURVEY/DESIGN DOCUMENT DEVELOPMENT

- The labor effort has been based upon augmenting the existing Meadow Creek Drainage Basin Replacement design package. Please note that specifications and a full drawing set will not be provided; the design will be limited to the addition of the following contract drawings:
 - » Additional Sheet 1 – Pipeline Replacement
 - » Additional Sheet 2 – Pipeline Replacement
 - » Update existing drawing tables/location map
- Four site visits have been included for corridor reconnaissance, survey, alignment coordination and public outreach.
- Geotechnical investigations, environmental investigations and test holes are not included in this project.
- Two (2) sets of the two (2) contract drawings (additional sheets outlined above) will be submitted to the ACSA for review at 50%, 90% and final document development.

SURVEY

- Survey will be provided for subject pipelines. Survey for the proposed pipelines that are located within paved roadways will be performed from right-of-way (ROW) to ROW. Survey for proposed pipelines scheduled for replacement outside of pavement will be performed to 25 feet each side of the proposed centerline.
- The project surveyor will call in a Miss Utility design ticket and wait for markout prior to field survey. The project surveyor will then survey above grade utility features such as identified utilities, manholes, valve boxes, meter boxes and fire hydrants. The base mapping will be developed based on these items and no further subsurface utility location efforts will be performed.

- For the purpose of this proposal, it is assumed that 3 easement plats will be prepared, if needed, at a unit price of \$650 per plat.

FEE

We propose to perform this work under the terms and conditions of our Annual Services Contract. The fee for services as set forth and described above shall be calculated on the basis of Engineers hourly billing rates for employees by job category as set forth in the contract fee schedule, plus reimbursable expenses at cost. The estimated not to exceed budget is \$21,324. Project costs will be tracked and invoiced monthly on a time-and-materials basis.

Upon your review, please contact me at your convenience with any questions or comments. We look forward to continuing our successful working relationship with you on this project.

Very truly yours,
O'BRIEN & GERE ENGINEERS, INC.



Robert E. Bell, Jr., PE
Vice President

Attachments

cc: Maggie Hopkins, OBG

Georgetown Green Sanitary Sewer Replacement
 Albemarle County Service Authority

TASK	Sr. Managing Engr. \$175 (HRS)	Project Associate \$140 (HRS)	Design Engineer \$85 (HRS)	Designer \$85 (HRS)	Div. Secretary \$60 (HRS)	TOTAL (HRS)	DIRECT EXPENSES (\$)	COST PER TASK (\$)
PRELIMINARY ENGINEERING & SURVEY								
Project Kick-Off Meeting	0	0	0	0	0	0.00	\$0.00	\$0.00
Existing Data Collection and Assimilation	0	0.5	1	1	0	2.50	\$25.00	\$265.00
Right-of-Way Investigation for Alternative Routes	0.5	0.5	1	1	0	3.00	\$25.00	\$352.50
Criteria Collection, Analysis, and Reconciliation	0.5	1	2	0	0	3.50	\$40.00	\$437.50
Corridor Reconnaissance	0	1	2	0	0	3.00	\$73.00	\$383.00
Survey & Mapping	0	1	2	4	0	7.00	\$4,045.00	\$4,695.00
SUB-TOTAL	1	4	8	6	0	19.00	\$4,208.00	\$6,133.00
50% DESIGN DOCUMENT DEVELOPMENT								
Alignment Adjustment	0.5	1	2	2	0	5.50	\$45.00	\$612.50
Alignment Coordination	0.5	1	2	2	0	5.50	\$128.00	\$695.50
Geotechnical Investigation	0	0	0	0	0	0.00	\$0.00	\$0.00
Environmental Investigation	0	0	0	0	0	0.00	\$0.00	\$0.00
50% Preliminary Design Documents	2	6	8	10	2	28.00	\$190.00	\$3,030.00
Public Outreach	1	6	2	2	2	13.00	\$213.00	\$1,688.00
50% Responsiveness Summary	1	2	2	0	2	7.00	\$15.00	\$760.00
SUB-TOTAL	5	16	16	16	6	59.00	\$591.00	\$6,786.00
90% DESIGN DOCUMENT DEVELOPMENT								
Plats	0	2	4	0	0	6.00	\$1,950.00	\$2,570.00
90% Preliminary Design Documents	2	6	6	6	2	22.00	\$130.00	\$2,460.00
Utility and Agency Submittal	0	1	2	0	1	4.00	\$65.00	\$435.00
90% Responsiveness Summary	1	2	2	0	2	7.00	\$15.00	\$760.00
SUB-TOTAL	3	11	14	6	5	39.00	\$2,160.00	\$6,225.00
FINAL DESIGN DOCUMENT DEVELOPMENT								
100% Final Design Documents	2	4	6	6	2	20.00	\$130.00	\$2,180.00
SUB-TOTAL	2	4	6	6	2	20.00	\$130.00	\$2,180.00
TOTALS						137.00	\$7,089.00	\$21,324.00