

Issue Analysis Form

Date: September 22, 2020

Item: Award of Contract for Construction of Route 156 Water Line Extension

Lead Department: Engineering & Utilities

Contact Persons: Frank Haltom, Director



Description and Current Status

The Route 156 Water Line Extension is a project planned as part of the County's Capital Improvement Plan that will extend the County's central water system from Mount Sinai Road to Pine Ridge Mobile Home Park. The construction plans were advertised for bid and five bids were received by the due date of August 27th and Perkinson Construction, LLC submitted the low bid of \$2,672,877.00. A summary of the responses is attached.

The County's consultant, Dewberry Engineers, have evaluated the bids received and recommend award to the lowest responsive bidder, Perkinson Construction, LLC. Alternate Bid Item #3 is also recommended to be awarded for a total of \$11,613.00, reducing Base Bid Item #4 by 49 linear feet for a credit to the Total Base Bid of \$82,976.60, a savings of \$71,363.60, which reduces the total project cost to \$2,601,513.40.

While Alternate Bid Items #2, #4, and #5 also provided the opportunity for additional cost savings, the savings are not as substantial, and the benefit of the steel casing pipe outweighs the cost savings.

Staff recommends award of the project to Perkinson Construction LLC for the \$2,601,513.40, and an appropriation of funds in the amount of \$323,576.24 from Utilities Cash Reserves / Fund Balance to the Capital Improvement Plan to fund the project.

The Government Path

- | | | |
|-------------------------------------------------------|-----------------------------------------|----------------------------------------|
| Does this require IDA action? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Does this require BZA action? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Does this require Planning Commission action? | <input type="checkbox"/> Yes | <input checked="" type="checkbox"/> No |
| Does this require Board of Supervisors action? | <input checked="" type="checkbox"/> Yes | <input type="checkbox"/> No |

Board Action Requested:

A resolution to award a contract for the construction of the Route 156 water line extension to Perkinson Construction, LLC for \$2,601,513.40; and the appropriation of funds in the amount of \$323,576.24 from the Utility Fund - Fund Balance to the Capital Improvement Plan – Route 156 Water Line Extension project.

Fiscal Impact Statement

\$2,640,000 for the Route 156 Water Line Extension was included as part of the General Obligation borrowings, Bond Series Spring 2019. Total project encumbrances and expenditures to date are \$341,562.84, which includes engineering design, construction

administration, inspection services, title search and easement acquisition; leaving \$2,298,437.16 available for construction. Award of this contract requires additional appropriation of funds totaling \$323,576.24, which is available in Utility Cash Reserves / Fund Balance.

Prince George County Impact

Award of this contract will provide for the construction of the water line extension along Route 156 from Mount Sinai Road to The Pine Ridge Mobile Home Park.

Notes

None.

Board of Supervisors
County of Prince George, Virginia

Resolution

At a regular meeting of the Board of Supervisors of the County of Prince George held in the Boardroom, Third Floor, County Administration Building, 6602 Courts Drive, Prince George, Virginia, this 22nd day of September, 2020:

Present:

Donald Hunter, Chairman
Alan R. Carmichael, Vice-Chair
Floyd M. Brown, Jr.
Marlene J. Waymack
T. J. Webb

Vote:

A-6

On motion of _____, seconded by _____, which carried unanimously, the following Resolution was adopted:

RESOLUTION: AWARD OF CONTRACT AND APPROPRIATION FOR THE ROUTE 156 WATER LINE EXTENSION (\$2,601,513.40 AWARD TO PERKINSON CONSTRUCTION, LLC; \$323,576.24 APPROPRIATION OF ADDITIONAL FUNDS).

WHEREAS, the Route 156 water line extension is a project planned as part of the County's Capital Improvement Plan; and

WHEREAS, Route 156 water line construction plans were advertised for bid and five bids were received by the due date of August 27th and Perkinson Construction, LLC submitted the low bid of \$2,672,877.00; and

WHEREAS, Alternate Bid Item #3 is awarded for a total of \$11,613.00, reducing Base Bid Item #4 by 49 linear feet for a credit to the Total Base Bid of \$82,976.60, a savings of \$71,363.60, which brings the total project cost to \$2,601,513.40; and

WHEREAS, \$2,640,000 for the Route 156 Water Line Extension was included as part of the General Obligation borrowings, Bond Series Spring 2019. Total project encumbrances and expenditures to date are \$341,562.84, which includes engineering design, construction administration, inspection services, title search and easement acquisition; leaving \$2,298,437.16 available for construction; and

WHEREAS, Award of this contract requires additional appropriation of funds totaling \$323,576.24 which is available in Utility Cash Reserves / Fund Balance; and

WHEREAS, Award of this contract will provide for the extension of the Route 156 Water Line, and staff recommends award of the project to Perkinson Construction LLC with an appropriation of \$323,576.24 from Utilities Cash Reserves / Fund Balance.

NOW, THEREFORE BE IT RESOLVED that the Board of Supervisors of the County of Prince George this 22nd day of September, 2020, hereby awards the contract for the Construction of a Route 156 Water Line Extension to Perkinson Construction LLC for \$2,601,513.40.

NOW, THEREFORE BE IT FURTHER RESOLVED That the Board of Supervisors of the County of Prince George this 22nd day of September, 2020, does hereby authorize and appropriate the following increase of funds within the 2020-2021 Budget, such line items increased as follows, which monies shall be expended for purposes authorized and approved by the Board of Supervisors of the County of Prince George:

<u>FUND/ORGANIZATION</u>		<u>AMOUNT</u>
Utilities Fund		
Expenditures:		
0620-04-104-7003-49472	Utilities – Transfer to CIP	\$323,576.24
Revenues:		
0620-40-900-8208-399999	Utilities Fund, Fund Balance	\$323,576.24
CIP Fund		
Expenditures:		
0311-04-104-3179-48405	CIP – Route 156 Water Line Extension	\$323,576.24
Revenues:		
0311-90-901-8207-399104	CIP – Transfer from Utility Fund	\$323,576.24

A Copy Teste:

Percy C. Ashcraft
County Administrator



September 2, 2020

VIA EMAIL

Mr. Frank Haltom, P.E.
Director
Department of Engineering and Utilities
Prince George County
P.O. Box 68
6602 Courts Drive, Second Floor
Prince George, VA 23875

**RE: Route 156 Water Main Extension
Invitation for Bid No. IFB 21-03-0600
Bid Award Recommendation**

Dear Mr. Haltom:

We have evaluated the bids received and opened on August 27, 2020 for the Route 156 Water Main Extension project.

Evaluation of Bids for Route 156 Water Main Extension:

We received five (5) bids for the contract, which are summarized in the attached Bid Summary. The lowest bidder for the Total Base Bid Amount was Perkinson Construction, LLC in the amount of \$2,672,877.00

Five bid alternative items were included in the Bid Form and Perkinson Construction, LLC provided the following Alternative Bid prices:

ALTERNATE BID ITEM #1: Furnish and Install 12-inch DI Waterline in lieu of 12-inch PVC Waterline \$2,349,464.00. This item would replace Base Bid Line Item #1 which had a cost of \$1,757,800.20

ALTERNATE BID ITEM #2: Directional Drill Complete with 14-inch HDPE Carrier Pipe in lieu of Horizontal Bore Complete with 24-inch Steel Casing and 12-inch DI Carrier pipe for the crossing of Route 156 near STA 10+50 for \$30,260.00.

ALTERNATE BID ITEM #3: Directional Drill Complete with 14-inch HDPE Carrier Pipe in lieu of Horizontal Bore Complete with 24-inch Steel Casing and 12-inch DI Carrier pipe for the crossing of Trailing Rock Road near STA 47+00 for \$11,613.00.

ALTERNATE BID ITEM #4: Directional Drill Complete with 14-inch HDPE Carrier Pipe in lieu of Horizontal Bore Complete with 24-inch Steel Casing and 12-inch DI Carrier pipe for the crossing of Courthouse Road near STA 101+50 for \$56,945.00.

ALTERNATE BID ITEM #5: Directional Drill Complete with 14-inch HDPE Carrier Pipe in lieu of Horizontal Bore Complete with 24-inch Steel Casing and 12-inch DI Carrier pipe for the crossing of Route 156 near STA 160+50 for \$72,180.00.

After review of the received alternate bid items, it was determined that Alternate Bid Item #3 would be awarded for a total of \$11,613.00. This will reduce Base Bid Item #4 by 49 linear feet for a credit to the Total Base Bid of \$82,976.60. The total savings of selecting this Alternate Bid Item will be \$71,363.60, which brings the total project cost to **\$2,601,513.40**.

While Alternate Bid Items #2, #4, and #5 also provided the opportunity for additional cost savings, the savings was not as substantial as the savings associated with Alternate Bid Item #3. Alternates #2, #4,

Mr. Frank Haltom, PE
Route 156 Water Main Extension
Bid Award Recommendation
September 2, 2020

and #5 will remain as jack and bore crossings which will include a steel casing pipe for the two crossings of Route 156 and the crossing at Courthouse Road. These roads are substantially larger in traffic and existing utilities than the crossing associated with Trailing Rock Road (Alternate Bid Item #3). Since the larger roads have the potential to have future utilities installed in the area of the new waterline, crossings with steel casings offer additional protection of the new waterline against future utility installations which could potentially damage the waterline in the future. We believe that the benefit of the steel casing pipe outweighs the cost savings associated with Alternate Bid Items #2, #4, and #5.

Recommendation for Route 156 Water Main Extension:

Award the contract to Perkinson Construction, LLC for their Total Base Bid Amount of \$2,672,877.00. It is recommended that Alternative Bid Item #3 be awarded for a credit of \$71,363.00.

Total Contract Amount will be **\$2,601,513.40**

Justification - Lowest responsive bidder for the Total Base Bid Amount.

If you have any questions, or if you require additional information, please feel free to contact us.

Sincerely,

Dewberry Engineers Inc.



Melanie Leckey, P.E.
Project Manager

cc: Dawn Parent, Prince George County
Dan Villhauer, PE, Dewberry

Attachments: Bid Summary, Invitation for Bid 21-03-0600, Route 156 Water Main Extension

P:\PG2014\50094821\Construction\Construction Contract\2020.09.01 - Route 156 Bid Award Recommendation.docx

Evaluation Sheet

IFB 20-0600-30 Route 156 Water Main Extension
Bids Due: 2:00 PM, August 27, 2020

Perkinson Construction, LLC
5500 Prince George Drive
Prince George, VA 23875

Bridgeman Underground, Inc.
2031 Northgate Commerce Parkway
Suffolk, VA 23435

Henry Banscome, LLC
158 Blow Flats Rd
Williamsburg, VA 23185

Tidewater Utility Const. Inc
200 Lummis Road
Suffolk, VA, 23434

BASE BID ALL UNIT PRICES 1-10		GRAND TOTAL	
Est Qty	Unit	Unit Cost	Extended Price
1	LF	\$ 122.70	\$1,757,800.20
2	EA	\$ 3,051.50	\$1,115,957.00
3	LF	\$ 145.00	\$89,175.00
4	LF	\$ 1,693.40	\$301,425.20
5	EA	\$ 5,950.80	\$136,868.40
6	EA	\$ 1,931.60	\$75,332.40
7	EA	\$ 3,328.00	\$103,168.00
8	EA	\$ 2,156.00	\$28,028.00
9	EA	\$ 690.10	\$19,322.80
10	LS	\$ 45,800.00	\$45,800.00
			\$2,672,877.00
			\$2,788,101.00
			\$2,838,560.00
			\$2,887,690.00
			\$3,395,440.13

ALTERNATE BID ITEMS		Unit Cost	Extended Price	Unit Cost	Extended Price	Unit Cost	Extended Price	Unit Cost	Extended Price
1	ALTERNATE BID ITEM #1: Furnish and Install 12-inch DI Waterline in lieu of 12-inch PVC Waterline	164	\$2,349,464.00	\$160.00	\$2,292,160.00	\$	150.50	\$2,156,063.00	\$1,790,750.00
2	ALTERNATE BID ITEM #2: Directional Drill Complete with 12-inch FPVC or 14-inch HDPE Carrier Pipe in lieu of Horizontal Bore Complete with 24-inch Steel Casing and 12-inch DI Carrier pipe for the crossing of Route 156 near STA 10+50	\$890.00	\$30,260.00	\$950.00	\$32,300.00	NO BID	NO BID	NO BID	\$34,136.00
3	ALTERNATE BID ITEM #3: Directional Drill Complete with 12-inch FPVC or 14-inch HDPE Carrier Pipe in lieu of Horizontal Bore Complete with 24-inch Steel Casing and 12-inch DI Carrier pipe for the crossing of Trailing Rock Road near STA 47+00	\$237.00	\$11,613.00	\$800.00	\$39,200.00	NO BID	NO BID	NO BID	\$21,413.00
4	ALTERNATE BID ITEM #4: Directional Drill Complete with 12-inch FPVC or 14-inch HDPE Carrier Pipe in lieu of Horizontal Bore Complete with 24-inch Steel Casing and 12-inch DI Carrier pipe for the crossing of Courthouse Road near STA 101+50	\$1,627.00	\$56,945.00	\$900.00	\$31,500.00	NO BID	NO BID	NO BID	\$60,375.00
5	ALTERNATE BID ITEM #5: Directional Drill Complete with 12-inch FPVC or 14-inch HDPE Carrier Pipe in lieu of Horizontal Bore Complete with 24-inch Steel Casing and 12-inch DI Carrier pipe for the crossing of STA 160+50	\$1,203.00	\$72,180.00	\$725.00	\$43,500.00	NO BID	NO BID	NO BID	\$75,120.00
									\$42,500.00
									\$61,250.00
									\$43,750.00
									\$1,250.00
									\$75,000.00
									\$1,250.00
									\$26,250.00
									\$161,687.63
									\$3,395,440.13

Total project accepting Alt 3 = \$2,601,513.40
Savings using Alt 2 only = \$27,315.60
Savings using Alt 3 only = \$71,363.60
Savings using Alt 4 only = \$2,324.00
Savings using Alt 5 only = \$29,424.00

Route 156 Water Line Extension
 Series 2019 Borrowing

Design	\$	240,000.00
Construction	\$	2,400,000.00
Borrowing Total	\$	2,640,000.00

Expenditures Paid at 9/14/2020

All Paid 9/14/2020	\$	220,282.84
Open Purchase Orders	\$	121,280.00

Total Commitments & Exp	\$	341,562.84
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Funds Available for Construction	\$	2,298,437.16
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Low Bid	\$	2,601,513.40	Perkinson (includes excepting Alt. Bid #3)
Other Potential Costs	\$	20,500.00	
Shortfall	\$	(323,576.24)	

Exp Paid

20190079	Dewberry	107,452.50	Design
20200060	Dewberry	26,940.00	Design
20190304	Veterans Express	50,793.00	Easement Titles
20200134	Dewberry	34,977.50	Easement Plats
	Dept of Health	119.84	
	TOTAL PAID	220,282.84	

Open Purchase Orders [as of 9/14/2020]

20210003	Dewberry	3,390.00	Update Bid Documents
20210052	Dewberry	67,890.00	Construction Admin?
20210053	Dewberry	50,000.00	Construction Inspection
	TOTAL OPEN POS	121,280.00	

Other Potential Costs

		20,500.00	Easement Acquisitions
	TOTAL OTHER COSTS	20,500.00	