

REQUEST FOR BOARD ACTION

CANE CREEK WATER AND SEWER DISTRICT
BOARD OF DIRECTORS

MEETING DATE: August 6, 2018

SUBJECT: Award Construction Contract
Mud Creek Interceptor Project

PRESENTER: Marcus A. Jones, PE

ATTACHMENTS: Yes

1. Recommendation Letter from WGLA Engineering
2. Bid Tabulation from WGLA Engineering

SUMMARY OF REQUEST:

During the District's July 18, 2018, the Director's did not move to award the construction contract for the Mud Creek Interceptor project. Prior to awarding, the Directors instructed staff to continue securing the required utility easements and secure an additional easement over the utility easement for a future greenway.

Since the July 18 meeting, staff has made significant progress on securing the utility easements as reflected with the removal of the easement line item of \$75,000 in the project budget below. In addition, staff has sent letters to the property owners granting the utility easements requesting an easement for a future greenway. Staff will have an update on the greenway easements for the Director's meeting.

The details of the proposed construction contract and project budget from the July 18, 2018 meeting follow:

As directed in the District's approved budget, Mud Creek Interceptor Project was bid on June 19, 2018. As recommended by WGLA Engineering on the attached letter and bid tabulation, Buchanan and Sons, Incorporated is presented to the Board for award of the construction contract. The proposed contract is for \$3,056,970.00.

The project falls within the statutory requirements for a formal bid process and therefore, the Engineer has conducted the bidding accordingly. Additionally, the project was advertised in the local newspaper and posted on the County website.

The proposed budget is as follows:

Construction Contract	\$3,056,970
Construction Contingency	\$305,700
Mud Creek Pump Station Upgrade	\$350,000
Easement Coordination	\$75,000
Total Project Budget	\$3,712,670

This project was approved in the FY2019 budget and financed with a contribution from Fletcher Academy of \$1,020,000, the District's fund balance, and a construction loan.

Award Construction Contract: Mud Creek Interceptor Project
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BOARD ACTION REQUESTED:

Award the construction contract for the Mud Creek Interceptor Project to Buchanan and Sons, Incorporated for \$3,056,970, approve the proposed project budget and authorize the County Engineer to execute the required documents.

Suggested Motions:

I move that the Board of Directors award the construction contract for the Mud Creek Interceptor Project to Buchanan and Sons, Incorporated for \$3,056,970, approve the proposed project budget and authorize the County Engineer to execute the required documents.



WGLA Engineering, PLLC
 724 5th Avenue West
 Hendersonville, NC 28739
 (828) 687-7177 wglA.com

July 2, 2018

Mr. Marcus Jones, P.E.; County Engineer
 Henderson County
 1 Historic Courthouse Square, Suite 6
 Hendersonville, NC 28792

RE: Mud Creek Sewer Project
 Recommendation of Award

Dear Mr. Jones:

As you know, bids were received for the Mud Creek Interceptor project on June 19, 2018. While we had seven contractors attend a prebid meeting, only three contractors submitting bids. The bids ranged from a low of \$3,410,567.00 submitted by Buchanan and Sons to a high of \$6,678,315.00 submitted by Dillard Excavating. Due to the range of pricing in the bids, we have spoken with Buchanan and Sons several times confirming they are comfortable with the bid they submitted. They have confirmed they are comfortable with their bid as submitted.

In addition to the base bid, two alternate bids were submitted. The first alternate was for installing a gravity service under US 25 that would eliminate two existing force main lines. The second alternative was for installing PVC piping instead of ductile iron piping. Based on conversations with staff, we would recommend accepting both alternate bids. This would bring the recommended award to \$3,056,970.00 to Buchanan and Sons, Inc.

In addition to the construction costs, we would recommend that the County budget 10% of the construction cost or \$305,700 in a contingency fund. Also, there will be some upgrades necessary to the Mud Creek pump station to accommodate additional flows and to provide additional capacity. This will be accomplished outside of the Buchanan contract. Finally, there will be some cost associated with securing of the final easements for the project. We would recommend a budget of \$75,000. In summary the construction budget would be:

Buchanan and Sons Construction Contract	\$3,056,970.00
Recommended Contingency	\$305,700.00
Mud Creek Pump Station Upgrade	\$350,000.00
Budget for Easement Coordination	\$75,000.00
TOTAL	\$3,787,670.00

Mr. Marcus Jones, P.E.
July 2, 2018
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If you have any questions or would like to discuss further, don't hesitate to contact our office.

Sincerely,
WGLA Engineering, PLLC

William R. Buie

William R. Buie, P.E.

**Mud Creek Interceptor
Bid Tabulation**

Bidder

Buchanan & Sons Inc.

McClam and Associates, Inc.

Dillard Excavating

No.	DESCRIPTION	UNIT QTY	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
Sanitary Sewer Improvements								
1	Mobilization, Insurance, Construction Staking	LS 1	\$90,000.00	\$90,000.00	\$180,495.00	\$180,495.00	\$171,354.00	\$171,354.00
2	8" Cored and Booted New Sanitary Sewer Connection	LS 1	\$2,600.00	\$2,600.00	\$3,075.00	\$3,075.00	\$6,000.00	\$6,000.00
3	12" Cored and Booted New Sanitary Sewer Connection	LS 1	\$2,700.00	\$2,700.00	\$5,075.00	\$5,075.00	\$7,000.00	\$7,000.00
4	24" Cored and Booted New Sanitary Sewer Connection	LS 1	\$3,000.00	\$3,000.00	\$9,240.00	\$9,240.00	\$10,000.00	\$10,000.00
5	24" Gravity DIP/CL 250	LF 9,833	\$135.00	\$1,327,455.00	\$230.30	\$2,264,539.90	\$263.00	\$2,586,079.00
6	12" Gravity DIP/CL 350	LF 5,891	\$90.00	\$530,190.00	\$166.50	\$921,941.50	\$170.00	\$1,001,470.00
7	8" Gravity DIP/CL 350 (Hi-Velocity Section)	LF 48	\$67.00	\$3,216.00	\$67.50	\$4,200.00	\$149.00	\$7,152.00
8	Wash Stone for Bedding (Sewer Gravity Lines)	TN 11,850	\$31.00	\$367,350.00	\$31.00	\$367,350.00	\$35.00	\$414,750.00
9	4" Stainless Steel Vent Pipe (Including Installation)	LF 245	\$153.00	\$37,485.00	\$216.00	\$52,920.00	\$300.00	\$73,500.00
10	36" Steel Encasement, Bore and Jacked (Wall Thickness=0.375")	LF 220	\$525.00	\$115,500.00	\$1,500.00	\$330,000.00	\$1,500.00	\$330,000.00
11	24" Steel Encasement, Bore and Jacked (Wall Thickness=0.375")	LF 320	\$380.00	\$121,600.00	\$1,375.00	\$440,000.00	\$1,500.00	\$480,000.00
12	5' Diameter Precast Manhole with Water Tight Rim & Lid	EA 32	\$4,500.00	\$144,000.00	\$6,265.00	\$200,576.00	\$7,500.00	\$240,000.00
13	4' Diameter Precast Manhole with Water Tight Rim & Lid	EA 5	\$2,700.00	\$13,500.00	\$4,790.00	\$23,950.00	\$6,000.00	\$30,000.00
14	4' Diameter Standard Precast Manhole	EA 13	\$2,550.00	\$33,150.00	\$4,380.00	\$56,940.00	\$5,500.00	\$71,500.00
15	4' Diameter Hi-Velocity Precast Manhole	EA 1	\$2,900.00	\$2,900.00	\$6,790.00	\$6,790.00	\$6,500.00	\$6,500.00
16	8" Sewer Service on Gravity Line (to edge of easement)	EA 8	\$700.00	\$5,600.00	\$2,694.00	\$21,552.00	\$2,500.00	\$20,000.00
17	6" Sewer Service on Gravity Line (to edge of easement)	EA 11	\$4,850.00	\$53,350.00	\$2,587.00	\$28,457.00	\$3,500.00	\$38,500.00
18	4" Sewer Service on Gravity Line (to edge of easement)	EA 10	\$1,500.00	\$15,000.00	\$2,702.00	\$27,020.00	\$2,250.00	\$22,500.00
19	Sanitary Sewer Service Clean Out (Fletcher Fire & Rescue)	EA 4	\$520.00	\$2,080.00	\$376.00	\$1,504.00	\$650.00	\$2,600.00
20	4" Sanitary Sewer Service to Fletcher Fire & Rescue	LF 170	\$185.00	\$28,050.00	\$27.00	\$4,590.00	\$50.00	\$8,500.00
21	Abandon Fletcher Fire & Rescue Pump Station	LS 1	\$2,500.00	\$2,500.00	\$11,500.00	\$11,500.00	\$5,000.00	\$6,000.00
22	Connection to Existing Fletcher Fire & Rescue PS	LS 1	\$1,800.00	\$1,800.00	\$10,475.00	\$10,475.00	\$5,000.00	\$5,000.00
23	Asphalt Patch and Repair (Fletcher Fire & Rescue)	SY 94	\$76.00	\$7,144.00	\$66.00	\$6,204.00	\$115.00	\$10,810.00
24	Concrete Patch and Repair (Fletcher Fire & Rescue)	SY 152	\$86.00	\$13,072.00	\$106.00	\$16,112.00	\$175.00	\$26,600.00
25	24" Stub-Out DIP/CL 250 5' Past Manholes and Plug	LS 1	\$4,100.00	\$4,100.00	\$3,034.00	\$3,034.00	\$5,000.00	\$5,000.00
26	Concrete Key at High Velocity Pipe Section	LS 1	\$1,500.00	\$1,500.00	\$1,610.00	\$1,610.00	\$5,000.00	\$5,000.00
27	Abandon Existing 8" Force Main (C-300)	LS 1	\$4,500.00	\$4,500.00	\$2,875.00	\$2,875.00	\$10,000.00	\$10,000.00
28	Abandon Existing Naples Pump Station (C-300)	LS 1	\$12,500.00	\$12,500.00	\$31,625.00	\$31,625.00	\$10,000.00	\$10,000.00
29	Existing 8" Force Main to be Converted to Gravity Main	LS 1	\$21,200.00	\$21,200.00	\$20,240.00	\$20,240.00	\$30,000.00	\$30,000.00
30	Existing Force Main SSMH to be Converted to Gravity Main	EA 18	\$2,100.00	\$37,800.00	\$1,150.00	\$20,700.00	\$4,000.00	\$72,000.00
31	Proposed Gravity Connection Between SSMH #52 and #53	LS 1	\$43,000.00	\$43,000.00	\$6,670.00	\$6,670.00	\$12,000.00	\$12,000.00
32	Raise Existing Manhole Ring and Lid Elevation (0-2.5 Feet)	EA 4	\$585.00	\$2,340.00	\$1,626.00	\$6,504.00	\$3,000.00	\$12,000.00
33	Raise Existing Manhole Ring and Lid Elevation (2.5-5 Feet)	EA 3	\$1,170.00	\$3,510.00	\$2,386.00	\$7,158.00	\$4,000.00	\$12,000.00
34	Stream Crossing (Gravity Sewer)	EA 8	\$6,700.00	\$53,600.00	\$19,550.00	\$156,400.00	\$35,000.00	\$280,000.00
35	Clearing and Grubbing	LS 1	\$110,000.00	\$110,000.00	\$121,325.00	\$121,325.00	\$325,000.00	\$325,000.00
36	Rock Stabilized Outlets	EA 37	\$125.00	\$4,625.00	\$888.00	\$36,593.00	\$1,000.00	\$37,000.00
37	Incidental Stone	TN 1,800	\$27.00	\$48,600.00	\$32.00	\$57,600.00	\$35.00	\$63,000.00
38	Silt Fencing	LF 15,500	\$3.00	\$46,500.00	\$2.60	\$40,300.00	\$6.00	\$93,000.00
39	Temporary Construction Entrance - N Rugby Rd (West)	LS 1	\$1,250.00	\$1,250.00	\$2,013.00	\$2,013.00	\$7,500.00	\$7,500.00
40	Temporary Construction Entrance - N Rugby Rd (East)	LS 1	\$1,350.00	\$1,350.00	\$2,013.00	\$2,013.00	\$7,500.00	\$7,500.00
41	Temporary Construction Entrance - David Anders Property	LS 1	\$800.00	\$800.00	\$2,013.00	\$2,013.00	\$10,000.00	\$10,000.00
42	Temporary Construction Entrance - Southern States Cooperative	LS 1	\$1,900.00	\$1,900.00	\$2,013.00	\$2,013.00	\$7,500.00	\$7,500.00
43	Temporary Construction Entrance - Gravel Driveway from S Old Asheville Rd	LS 1	\$15,000.00	\$15,000.00	\$18,745.00	\$18,745.00	\$10,000.00	\$10,000.00
44	Erosion Control Matting	SY 5,000	\$3.10	\$15,500.00	\$2.60	\$13,000.00	\$4.00	\$20,000.00
45	Final Grassing and Stabilization	AC 15	\$3,850.00	\$57,750.00	\$2,300.00	\$34,500.00	\$5,000.00	\$75,000.00
Total Bid				\$3,410,567.00		\$5,581,437.40		\$6,678,315.00

Add Alternate #1

46	Bore and Jacked 6" Gravity Line to Waffle House Property (C-303)	LS 1	\$50,000.00	\$50,000.00	\$84,000.00	\$84,000.00	\$80,000.00	\$80,000.00
Total Bid				\$50,000.00		\$84,000.00		\$80,000.00

Add Alternate #2

47	24" Gravity PVC/SDR 35	LF 9,833	\$103.00	\$1,012,799.00	\$200.00	\$1,966,600.00	\$245.00	\$2,409,085.00
48	12" Gravity PVC/SDR 35	LF 5,891	\$75.00	\$441,825.00	\$146.00	\$860,086.00	\$165.00	\$972,015.00
49	8" Gravity PVC/SDR 35	LF 48	\$55.00	\$2,640.00	\$83.00	\$3,984.00	\$145.00	\$6,960.00
Total Bid				\$1,457,264.00		\$2,830,670.00		\$3,388,060.00

Unit Price Items

50	Trench Rock Excavation	CY 1		\$200.00		\$160.00		\$250.00
51	Rock Bore	LF 1		\$1,400.00		\$2,300.00		\$2,300.00
52	Haul Off of Unsuitable Material	CY 1		\$35.00		\$18.00		\$75.00
53	Allowance for Flagman at Railroad Crossing	Day 1		\$5,000.00		\$1,725.00		\$1,900.00

William R. Buie

6/19/18

Received and Tabulated By:

Date