HENDERSON COUNTY

BOARD OF COMMISSIONERS

MEETING DATE: October 15, 2025

SUBJECT: Construction Contract Award

Clear Creek Sewer Project

PRESENTER: Marcus A. Jones, PE

County Engineer

ATTACHMENTS:

1. WGLA's Letter of Recommendation with Budget

2. NCDEQ Resolution of Tentative Award

3. Bid Summary, 10/2/2025

4. Bid Tabulation, 10/2/2025

5. WGLA Cost Estimate, 8/4/2025

6. WGLA Proposal for Construction Administration

SUMMARY OF REQUEST:

As approved by the Board with the FY2026 budget, WGLA Engineering and staff have bid the construction portion of the Clear Creek sewer project (aka Edneyville Sewer). The invitation for bids was released on August 14, 2025, and bids were opened on October 4, 2025 at 2:00pm. A bid summary and bid tabulation are attached. Also attached is the cost estimate from WGLA published prior to the bidding process. The bid opening was compliant and produced a low bid within the project budget and below the Engineer's estimate.

WGLA has provided the attached letter of recommendation for the low bidder, Timberline Construction Group at \$13,993,755.00, and a resolution required by North Carolina Department of Environmental Quality (NCDEQ). The recommended motion and resolution request Board approve pending NCDEQ The pending approval will assist the project team with meeting the aggressive schedule for the project.

WGLA's letter of recommendation contains a proposed project budget which staff have reviewed and recommend as well. Within the budget, WGLA has identified the construction administration cost to be \$350,000. A proposal from WGLA for \$350,000 is attached.

Finally, the project schedule in the bid and in turn part of the construction contract requires Timberline to expend \$12.7 million (ARPA funding requirement) by December 31, 2026. The final completion date for the project is April 1, 2027.

Construction Contract Award for Clear Creek Sewer Project October 15, 2025 Page 2

BOARD ACTION REQUESTED:

Award the construction contract for the Clear Creek sewer project to Timberline Construction Group for \$13,993,755.00 pending approval from NCDEQ, approved NCDEQ's tentative award resolution, approve the proposed project budget, approve the proposal from WGLA for \$350,000 to administer construction, and authorize the County Engineer to execute the necessary documents.

Suggested Motion:

I move the Board award the construction contract for the Clear Creek sewer project to Timberline Construction Group for \$13,993,755.00 pending approval from NCDEQ, approved NCDEQ's tentative award resolution, approve the proposed project budget, approve the proposal from WGLA for \$350,000 to administer construction, and authorize the County Engineer to execute the necessary documents.



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

October 7, 2025

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

RE: Clear Creek Sewer Project – SPR-W-ARP-0085

Recommendation of Award

WGLA# 24100

Dear Mr. Jones:

As you know, bids were received on Thursday, October 2, 2025 for the Clear Creek Sewer Project. Four bids were submitted ranging from a low base bid of \$13,993,755.00 to a high base bid of \$26,701,189.00. The engineer's estimate for the base bid was \$14,065,930.00 as submitted to the NC Division of Water Infrastructure. The low bid was submitted by Timberline Construction Group of Pelham, Alabama. We have reviewed all of the bid packages submitted, and all bidders provided bidder qualifications, bid bonds and MBE documentation as required in the instruction for bidders. A copy of the bid summary and bid tabulation is attached with this letter.

Since this project is being partially funded by ARPA funds through the State, we would recommend that the award be contingent on final approval by the NC Division of Water Infrastructure. We have prepared a number of documents supporting the bidding process for their review. A copy of the Project Bid Information form is attached with this letter.

Based on the lowest responsive bid submitted, we would recommend the following budget for the project:

Construction Contract Amount \$13,993,755.00

Planning and Design Engineering \$837,750.00 (complete)

Construction Phase Engineering \$350,000.00 Contingency (5% rounded up) \$700,000.00

Geotech, Surveys, Etc. \$311,460.00 (complete)
Appraisals \$250,000.00 (complete)

Easements \$597,795.00 Legal \$29,029.00

TOTAL PROJECT COSTS \$17,069,789.00

Note this budget matches the project cost summary in the attached Project Bid Information form. Also note that we are not recommending acceptance of the add/alternate for the Laurel Branch pump station and gravity lines due to the costs exceeding the project budget.

Mr. Marcus Jones, P.E. October 7, 2025 Page 2

If you have any questions about this information, don't hesitate to contact our office.

Sincerely, WGLA Engineering, PLLC

William R. Buis

William R. Buie, P.E.; Project Manager/Principal

Henderson County - Clear Creek Sewer Project Bid Opening Summary 10/2/25

Bidder	Bidder Responsibility	Bid Bond	MBE Information	Base Bid	Add/Alternate #1
Timberline Construction Group	Х	Х	Х	\$13,993,755.00	\$2,575,225.00
TP Howard's Plumbing Co Inc	Х	Х	Х	\$15,952,000.00	\$3,113,000.00
Ledford & Parker Inc	Х	Х	Х	\$18,399,489.00	\$3,559,782.00
Moorhead Construction Inc	Х	Х	Х	\$26,701,189.00	\$5,630,491.00
Signed by:					

Signed by:	
William R. Buie	
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Henderson County - Clear Creek Sewer Project Bid Tabulation 10/2/25

_				Timberline Construc		TP Howard's Plumbir		Ledford & Parker, Inc.		Moorhead Construction	
No.	DESCRIPTION	UNIT	QTY	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE	UNIT PRICE	TOTAL PRICE
	BASE BID Sanitary Sower Improvements									1	
	Sanitary Sewer Improvements Mobilization, Insurance, Construction Staking	LS	1	\$625,000.00	\$625,000.00	\$397,155.00	\$397,155.00	\$895,000.00	\$895,000.00	\$800,000.00	\$800,000.00
2	Clearing and Grubbing 8" PVC SDR 35 Gravity Sewer (0' - 6' Deep)	AC LF	15.20 4,030	\$35,000.00 \$75.00	\$532,000.00 \$302,250.00	\$50,000.00 \$85.00	\$760,000.00 \$342,550.00	\$8,000.00 \$211.00	\$121,600.00 \$850,330.00	\$25,000.00 \$322.00	\$380,000.00 \$1,297,660.00
4	8" PVC SDR 35 Gravity Sewer (6' - 8' Deep)	LF	7,201	\$85.00	\$612,085.00	\$90.00	\$648,090.00	\$211.00	\$1,519,411.00	\$403.00	\$2,902,003.00
	8" PVC SDR 35 Gravity Sewer (8' - 10' Deep) 8" PVC SDR 35 Gravity Sewer (10' - 12' Deep)	LF LF	3,841 1,548	\$115.00 \$135.00	\$441,715.00 \$208,980.00	\$95.00 \$110.00	\$364,895.00 \$170,280.00	\$211.00 \$211.00	\$810,451.00 \$326,628.00	\$485.00 \$550.00	\$1,862,885.00 \$851,400.00
	8" PVC SDR 35 Gravity Sewer (> 12' Deep) 8" PVC C-900 Gravity Sewer (0' - 6' Deep)	LF LF	2,429 23	\$165.00 \$85.00	\$400,785.00 \$1,955.00	\$140.00 \$95.00	\$340,060.00 \$2,185.00	\$211.00 \$233.00	\$512,519.00 \$5.359.00	\$648.00 \$334.00	\$1,573,992.00 \$7,682.00
9	8" PVC C-900 Gravity Sewer (6' - 8' Deep) 8" PVC C-900 Gravity Sewer (8' - 10' Deep)	LF LF	138 277	\$95.00 \$130.00	\$13,110.00 \$36,010.00	\$100.00 \$110.00	\$13,800.00 \$30,470.00	\$233.00 \$233.00	\$32,154.00 \$64,541.00	\$426.00 \$498.00	\$58,788.00 \$137,946.00
11	8" PVC C-900 Gravity Sewer (10' - 12' Deep)	LF	89	\$150.00	\$13,350.00	\$150.00	\$13,350.00	\$233.00	\$20,737.00	\$563.00	\$50,107.00
	8" PVC C-900 Gravity Sewer (> 12' Deep) 8" DIP/CL 350 P-401 Lined Gravity Sewer (0' - 6' Deep)	LF LF	197 471	\$185.00 \$165.00	\$36,445.00 \$77,715.00	\$180.00 \$150.00	\$35,460.00 \$70,650.00	\$233.00 \$270.00	\$45,901.00 \$127,170.00	\$661.00 \$440.00	\$130,217.00 \$207,240.00
	8" DIP/CL 350 P-401 Lined Gravity Sewer (6' - 8' Deep) 8" DIP/CL 350 P-401 Lined Gravity Sewer (8' - 10' Deep)	LF LF	725 306	\$175.00 \$210.00	\$126,875.00 \$64,260.00	\$160.00 \$175.00	\$116,000.00 \$53,550.00	\$270.00 \$270.00	\$195,750.00 \$82,620.00	\$470.00 \$533.00	\$340,750.00 \$163,098.00
16	8" DIP/CL 350 P-401 Lined Gravity Sewer (10' - 12' Deep)	LF	234	\$225.00	\$52,650.00	\$200.00	\$46,800.00	\$270.00	\$63,180.00	\$598.00	\$139,932.00
	8" DIP/CL 350 P-401 Lined Gravity Sewer (> 12' Deep) 12" PVC SDR 35 Gravity Sewer (0' - 6' Deep)	LF LF	57 26	\$265.00 \$90.00	\$15,105.00 \$2,340.00	\$250.00 \$120.00	\$14,250.00 \$3,120.00	\$270.00 \$222.00	\$15,390.00 \$5,772.00	\$698.00 \$334.00	\$39,786.00 \$8,684.00
	12" PVC SDR 35 Gravity Sewer (6' - 8' Deep) 12" PVC SDR 35 Gravity Sewer (8' - 10' Deep)	LF LF	692 1,542	\$100.00 \$145.00	\$69,200.00 \$223,590.00	\$130.00 \$140.00	\$89,960.00 \$215.880.00	\$222.00 \$222.00	\$153,624.00 \$342,324.00	\$416.00 \$498.00	\$287,872.00 \$767,916.00
21	12" PVC SDR 35 Gravity Sewer (10' - 12' Deep) 12" PVC SDR 35 Gravity Sewer (> 12' Deep)	LF LF	101 144	\$170.00 \$205.00	\$17,170.00 \$29,520.00	\$170.00 \$250.00	\$17,170.00 \$36,000.00	\$222.00 \$222.00	\$22,422.00 \$31,968.00	\$563.00 \$661.00	\$56,863.00 \$95,184.00
23	12" PVC C-900 Gravity Sewer (8' - 10' Deep)	LF	28	\$190.00	\$5,320.00	\$225.00	\$6,300.00	\$282.00	\$7,896.00	\$503.00	\$14,084.00
	12" PVC C-900 Gravity Sewer (> 12' Deep) 12" DIP/CL 350 P-401 Lined Gravity Sewer (0' - 6' Deep)	LF LF	63 38	\$235.00 \$220.00	\$14,805.00 \$8,360.00	\$250.00 \$210.00	\$15,750.00 \$7,980.00	\$282.00 \$297.00	\$17,766.00 \$11,286.00	\$665.00 \$403.00	\$41,895.00 \$15,314.00
	12" DIP/CL 350 P-401 Lined Gravity Sewer (6' - 8' Deep) 12" DIP/CL 350 P-401 Lined Gravity Sewer (8' - 10' Deep)	LF LF	93 383	\$230.00 \$275.00	\$21,390.00 \$105,325.00	\$220.00 \$230.00	\$20,460.00 \$88,090.00	\$297.00 \$297.00	\$27,621.00 \$113,751.00	\$485.00 \$566.00	\$45,105.00 \$216,778.00
28	12" DIP/CL 350 P-401 Lined Gravity Sewer (10' - 12' Deep)		58 142	\$290.00 \$325.00	\$16,820.00 \$46,150.00	\$275.00 \$335.00	\$15,950.00 \$47,570.00	\$297.00 \$297.00	\$17,226.00 \$42,174.00	\$632.00 \$730.00	\$36,656.00 \$103,660.00
30	12" DIP/CL 350 P-401 Lined Gravity Sewer (> 12' Deep) Wash Stone for Bedding (Sewer Gravity Lines)	TN	19,000	\$45.00	\$855,000.00	\$50.00	\$950,000.00	\$52.00	\$988,000.00	\$48.00	\$912,000.00
	4" Vent Pipe (Including Installation) Dewatering for Sewer Line Installation	LF LS	26 1	\$450.00 \$250,000.00	\$11,700.00 \$250,000.00	\$1,800.00 \$300,000.00	\$46,800.00 \$300,000.00	\$493.00 \$100,000.00	\$12,818.00 \$100,000.00	\$5,500.00 \$148,760.00	\$143,000.00 \$148,760.00
33	Temporary Shoring for Sewer Line Installation (Allowance) Trench Rock Excavation (Allowance)		4,600 500	\$20.00 \$300.00	\$92,000.00 \$150,000.00	\$20.00 \$175.00	\$92,000.00 \$87,500.00	\$135.00 \$125.00	\$621,000.00 \$62,500.00	\$72.00 \$375.00	\$331,200.00 \$187,500.00
35	Unsuitable Material Removal and Replacement (Allowance) CY	20,000	\$35.00	\$700,000.00	\$35.00	\$700,000.00	\$67.00	\$1,340,000.00	\$21.00	\$420,000.00
37	24" Steel Encasement, Bore and Jacked 20" Steel Encasement. Bore and Jacked	LF LF	70 504	\$1,500.00 \$1,450.00	\$105,000.00 \$730,800.00	\$2,650.00 \$2,500.00	\$185,500.00 \$1,260,000.00	\$2,199.00 \$2,199.00	\$153,930.00 \$1,108,296.00	\$1,500.00 \$1,300.00	\$105,000.00 \$655,200.00
	16" Steel Encasement. Bore and Jacked 5' Diameter Precast Manhole with Water Tight Rim & Lid	LF EA	38 13	\$1,425.00 \$18,000.00	\$54,150.00 \$234,000.00	\$2,300.00 \$13,500.00	\$87,400.00 \$175,500.00	\$2,199.00 \$13,000.00	\$83,562.00 \$169,000.00	\$1,100.00 \$19,300.00	\$41,800.00 \$250,900.00
40	4' Diameter Precast Manhole with Water Tight Rim & Lid 4' Diameter Standard Precast Manhole	EA EA	5 78	\$14,000.00 \$13,500.00	\$70,000.00 \$1,053,000.00	\$10,500.00 \$10,000.00	\$52,500.00 \$780,000.00	\$13,000.00 \$13,000.00	\$65,000.00 \$1,014,000.00	\$16,800.00 \$16,500.00	\$84,000.00 \$1,287,000.00
42	5' Diameter Standard Precast Manhole	EA	2	\$17,500.00	\$35,000.00	\$13,000.00	\$26,000.00	\$13,000.00	\$26,000.00	\$19,000.00	\$38,000.00
44	Replace Existing Manhole at Justice Academy Core and Boot Existing Manhole at Edneyville Elementary	LS LS	1 1	\$20,000.00 \$15,000.00	\$20,000.00 \$15,000.00	\$25,000.00 \$10,000.00	\$25,000.00 \$10,000.00	\$30,000.00 \$4,500.00	\$30,000.00 \$4,500.00	\$21,800.00 \$5,750.00	\$21,800.00 \$5,750.00
45 46	Henderson Creek Pump Station Lewis Creek Pump Station	LS LS	1 1	\$1,125,000.00 \$1,050,000.00	\$1,125,000.00 \$1,050,000.00	\$1,350,000.00 \$1,345,265.00	\$1,350,000.00 \$1,345,265.00	\$1,400,000.00 \$1,400,000.00	\$1,400,000.00 \$1,400,000.00	\$1,854,400.00 \$1,799,500.00	\$1,854,400.00 \$1,799,500.00
47	6" PVC/C900 DR 18 Force Main	LF	19,801	\$50.00	\$990,050.00	\$60.00	\$1,188,060.00	\$82.00	\$1,623,682.00	\$212.00	\$4,197,812.00
	8" HDPE DR 7 Force Main (Direct Bury) 8" HDPE DR 7 (Directional Bore)	LF LF	175 1,152	\$75.00 \$250.00	\$13,125.00 \$288,000.00	\$300.00 \$300.00	\$52,500.00 \$345,600.00	\$170.00 \$185.00	\$29,750.00 \$213,120.00	\$222.00 \$140.00	\$38,850.00 \$161,280.00
	2" Combination Air Release Valves in Manhole Connect to Existing Manhole with Force Main	EA LS	12 1	\$15,000.00 \$7,500.00	\$180,000.00 \$7,500.00	\$16,500.00 \$10,000.00	\$198,000.00 \$10,000.00	\$11,000.00 \$8,000.00	\$132,000.00 \$8,000.00	\$13,000.00 \$5,000.00	\$156,000.00 \$5,000.00
52	Asphalt Patch and Repair	SY	3500	\$75.00	\$262,500.00	\$160.00	\$560,000.00	\$45.00	\$157,500.00	\$72.00	\$252,000.00
54	Mill Existing Asphalt and Overlay (per NCDOT stds) Concrete Patch and Repair	SY SY	560 350	\$60.00 \$175.00	\$33,600.00 \$61,250.00	\$60.00 \$170.00	\$33,600.00 \$59,500.00	\$90.00 \$82.00	\$50,400.00 \$28,700.00	\$57.00 \$150.00	\$31,920.00 \$52,500.00
	Stone for Driveway Repairs Traffic Control	TN LS	1500 1	\$45.00 \$425,000.00	\$67,500.00 \$425,000.00	\$55.00 \$205,000.00	\$82,500.00 \$205,000.00	\$50.00 \$150,000.00	\$75,000.00 \$150,000.00	\$48.00 \$77,000.00	\$72,000.00 \$77,000.00
57	Stream Crossing	EA	11	\$25,000.00	\$275,000.00	\$30,000.00	\$330,000.00	\$10,000.00	\$110,000.00	\$12,000.00	\$132,000.00
	Incidental Stone Silt Fence		2,000 13,900	\$45.00 \$6.00	\$90,000.00 \$83,400.00	\$50.00 \$6.00	\$100,000.00 \$83,400.00	\$60.00 \$5.00	\$120,000.00 \$69,500.00	\$48.00 \$7.00	\$96,000.00 \$97,300.00
	Temporary Construction Fencing at Edneyville Elementary Temporary Construction Entrance	LF EA	500 6	\$35.00 \$7,500.00	\$17,500.00 \$45,000.00	\$40.00 \$4,500.00	\$20,000.00 \$27,000.00	\$20.00 \$8,000.00	\$10,000.00 \$48,000.00	\$32.00 \$4,100.00	\$16,000.00 \$24,600.00
	Reconstruct Roadway Ditch (w/ Wattles) Gravel Inlet Protection	LF EA	12,600 87	\$6.00 \$500.00	\$75,600.00 \$43,500.00	\$15.00 \$500.00	\$189,000.00 \$43,500.00	\$15.00 \$350.00	\$189,000.00 \$30,450.00	\$8.50 \$300.00	\$107,100.00 \$26,100.00
64	Erosion Control Matting	SY	1,500	\$5.00	\$7,500.00	\$15.00	\$22,500.00	\$1.90	\$2,850.00	\$5.00	\$7,500.00
	Final Stabilization in Wetland Areas Pump Existing Edneyville Septic System	SY LS	1,220 1	\$25.00 \$20,000.00	\$30,500.00 \$20,000.00	\$30.00	\$36,600.00 \$30,000.00	\$6.00 \$30,000.00	\$7,320.00 \$30,000.00	\$12.00 \$27,280.00	\$14,640.00 \$27,280.00
	Remove & Dispose of Existing Equipment (Edneyville) Crush Existing Tanks (Edneyville)	LS LS	1 1	\$30,000.00 \$12,500.00	\$30,000.00 \$12,500.00	\$30,000.00 \$30,000.00	\$30,000.00 \$30,000.00	\$10,000.00 \$50,000.00	\$10,000.00 \$50,000.00	\$12,400.00 \$14,880.00	\$12,400.00 \$14,880.00
69	Pump Existing Justice Academy Treatment System	LS	1	\$75,000.00	\$75,000.00	\$30,000.00	\$30,000.00	\$30,000.00	\$30,000.00	\$34,720.00	\$34,720.00
71	Remove & Dispose of Existing Equipment (JA) Grade Site (JA)	LS LS	1 1	\$60,000.00 \$30,000.00	\$60,000.00 \$30,000.00	\$150,000.00 \$30,000.00	\$150,000.00 \$30,000.00	\$30,000.00 \$54,000.00	\$30,000.00 \$54,000.00	\$18,600.00 \$24,800.00	\$18,600.00 \$24,800.00
72 73	Temporary Grassing and Stabilization Final Grassing and Stabilization	AC AC	15.20 15.20	\$2,500.00	\$38,000.00 \$60,800.00	\$20,000.00	\$304,000.00 \$304,000.00	\$1,500.00 \$3,700.00	\$22,800.00 \$56,240.00	\$2,500.00	\$38,000.00 \$45,600.00
			т	OTAL BASE BID	\$13,993,755.00		\$15,952,000.00	•	\$18,399,489.00	•	\$26,701,189.00
_	Add Alternate #1 - Laurel Branch Sewer, Pump Station & For								4000		**=
	Mobilization, Insurance, Construction Staking Clearing and Grubbing	LS AC	1 3.70	\$65,000.00 \$25,000.00	\$65,000.00 \$92,500.00	\$92,005.00 \$50,000.00	\$92,005.00 \$185,000.00	\$200,000.00 \$10,000.00	\$200,000.00 \$37,000.00	\$150,000.00 \$25,000.00	\$150,000.00 \$92,500.00
	8" PVC SDR 35 Gravity Sewer (0' - 6' Deep) 8" PVC SDR 35 Gravity Sewer (6' - 8' Deep)	LF LF	1,156 2,015	\$75.00 \$85.00	\$86,700.00 \$171,275.00	\$85.00 \$90.00	\$98,260.00 \$181,350.00	\$196.00 \$196.00	\$226,576.00 \$394,940.00	\$386.00 \$483.60	\$446,216.00 \$974,454.00
5	8" PVC SDR 35 Gravity Sewer (8' - 10' Deep)	LF	882	\$115.00	\$101,430.00	\$95.00	\$83,790.00	\$196.00	\$172,872.00	\$582.00	\$513,324.00
7	8" PVC SDR 35 Gravity Sewer (10' - 12' Deep) 8" PVC SDR 35 Gravity Sewer (> 12' Deep)	LF LF	254 122	\$135.00 \$165.00	\$34,290.00 \$20,130.00	\$110.00 \$140.00	\$27,940.00 \$17,080.00	\$211.00 \$211.00	\$53,594.00 \$25,742.00	\$660.00 \$777.00	\$167,640.00 \$94,794.00
	8" DIP/CL 350 P-401 Lined Gravity Sewer (0' - 6' Deep) 8" DIP/CL 350 P-401 Lined Gravity Sewer (6' - 8' Deep)	LF LF	139 148	\$165.00 \$175.00	\$22,935.00 \$25,900.00	\$150.00 \$160.00	\$20,850.00 \$23,680.00	\$257.00 \$257.00	\$35,723.00 \$38,036.00	\$528.00 \$564.00	\$73,392.00 \$83,472.00
10	8" DIP/CL 350 P-401 Lined Gravity Sewer (8' - 10' Deep) 8" DIP/CL 350 P-401 Lined Gravity Sewer (10' - 12' Deep)	LF	105 65	\$210.00 \$225.00	\$22,050.00 \$14,625.00	\$175.00 \$200.00	\$18,375.00 \$13,000.00	\$257.00 \$270.00	\$26,985.00 \$17,550.00	\$640.00 \$717.00	\$67,200.00 \$46,605.00
12	Wash Stone for Bedding (Sewer Gravity Lines)	TN	3,000	\$45.00	\$135,000.00	\$50.00	\$150,000.00	\$52.00	\$156,000.00	\$48.00	\$144,000.00
	Dewatering for Sewer Line Installation Temporary Shoring for Sewer Line Installation (Allowance)	LS LF	1 760	\$55,000.00 \$15.00	\$55,000.00 \$11,400.00	\$60,000.00 \$20.00	\$60,000.00 \$15,200.00	\$50,000.00 \$135.00	\$50,000.00 \$102,600.00	\$50,000.00 \$72.00	\$50,000.00 \$54,720.00
	Trench Rock Excavation (Allowance) Unsuitable Material Removal and Replacement (Allowance	CY	200 1,250	\$300.00 \$35.00	\$60,000.00 \$43,750.00	\$175.00 \$35.00	\$35,000.00 \$43,750.00	\$125.00 \$67.00	\$25,000.00 \$83,750.00	\$375.00 \$21.00	\$75,000.00 \$26,250.00
13	4' Diameter Standard Precast Manhole	EA	25	\$13,500.00	\$337,500.00	\$10,000.00	\$250,000.00	\$11,000.00	\$275,000.00	\$19,800.00	\$495,000.00
	Laurel Branch Pump Station 6" PVC/C900 DR 18 Force Main	LS LF	1 917	\$1,000,000.00 \$45.00	\$1,000,000.00 \$41,265.00	\$1,350,000.00 \$60.00	\$1,350,000.00 \$55,020.00	\$1,400,000.00 \$67.00	\$1,400,000.00 \$61,439.00	\$1,701,900.00 \$212.00	\$1,701,900.00 \$194,404.00
	Asphalt Patch and Repair Concrete Patch and Repair	SY SY	110 65	\$75.00 \$175.00	\$8,250.00 \$11,375.00	\$160.00 \$170.00	\$17,600.00 \$11,050.00	\$45.00 \$90.00	\$4,950.00 \$5,850.00	\$72.00 \$150.00	\$7,920.00 \$9,750.00
18	Stream Crossing	EA	3	\$25,000.00	\$75,000.00	\$30,000.00	\$90,000.00	\$15,000.00	\$45,000.00	\$12,000.00	\$36,000.00
20	Incidental Stone Silt Fence	TN LF	1,000 5,550	\$45.00 \$6.00	\$45,000.00 \$33,300.00	\$50.00 \$6.00	\$50,000.00 \$33,300.00	\$60.00 \$5.00	\$60,000.00 \$27,750.00	\$48.00 \$7.00	\$48,000.00 \$38,850.00
	Temporary Construction Entrance Erosion Control Matting	EA SY	1 650	\$7,500.00 \$5.00	\$7,500.00 \$3,250.00	\$4,500.00 \$15.00	\$4,500.00 \$9,750.00	\$7,500.00 \$1.90	\$7,500.00 \$1,235.00	\$4,100.00 \$5.00	\$4,100.00 \$3,250.00
23	Final Stabilization in Wetland Areas Temporary Grassing and Stabilization	SY	950	\$25.00	\$23,750.00 \$9,250.00	\$30.00	\$28,500.00	\$6.00	\$5,700.00	\$12.00	\$11,400.00
	Temporary Grassing and Stabilization Final Grassing and Stabilization	AC AC	3.70 3.70	\$2,500.00 \$4,000.00	\$9,250.00 \$14,800.00	\$20,000.00 \$20,000.00	\$74,000.00 \$74,000.00	\$1,500.00 \$3,700.00	\$5,550.00 \$13,690.00	\$2,500.00 \$3,000.00	\$9,250.00 \$11,100.00
_			Total A	Add Alternate #1	\$2,572,225.00		\$3,113,000.00	Inc.	\$3,560,032.00 dicates math error		\$5,630,491.00
1	Add Alternate #2 - Sewer Services 4" Short Side Sewer Service w/Cleanout	EA	1	\$9,000.00		\$5,000.00		\$15,000.00	5.1.51	\$4,500.00	
2	4" Long Service with Bore Under Roadway w/ Cleanout	EA	1	\$25,000.00		\$7,500.00		\$30,000.00		\$14,500.00	
	6" Short Side Sewer Service w/Cleanout 6" Long Service with Bore Under Roadway w/ Cleanout	EA EA	1	\$10,000.00 \$27,000.00		\$6,000.00		\$15,000.00 \$30,000.00		\$6,500.00 \$16,500.00	
_	Unit Price Items		_								
	Remove and Replace Driveway Culvert - 15" HDPE Remoye and କ୍ୟୁଡ଼ମଣ୍ଡେଟ୍ୟ Priveway Culvert - 18" HDPE	LF LF		\$120.00 \$125.00		\$200.00 \$250.00		\$159.00 \$159.00		\$75.00 \$100.00	
	William R. Buie Will CA		, .	Ţ. <u></u>							

William R. Buil

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

PRELIMINARY PROJECT COST ESTIMATE Clear Creek Summary

Date: 8/4/2025 Project # 24100

Base Bid Project (Lewis Creek & Henderson Creek) (includes Edneyville septic and Justice Academy WWTP demolition) Project Adminstration, Engineering Design & Permitting Assistance Surveys, Geotechnical & Environmental Budget for Construction Administration & Testing Budget for Appraisals Easement Acquisition (Lewis Creek & Henderson Creek only)	\$14,065,930.00 \$837,750.00 \$311,450.00 \$350,000.00 \$220,000.00 \$597,795.00
Subtotal	\$16,382,925.00
Available Funding	\$17,069,789.00
Remaining (Contingency)	\$686,864.00
Add/Alternate Items 1 Laurel Branch (Add/Alternate) Easement Acquisition (Laurel Branch)	\$2,326,970.00 \$229,450.00
Subtotal	\$2,556,420.00



Henderson County - Clear Creek Sewer Project Cost Estimate (8/4/25)

2 Clearing and Grubbing AC 15.20 \$20,000 \$334.00 8" PVC SDR 35 Gravity Sewer (6" - 8" Deep)					UNIT	TOTAL
Sanitary Sewer Improvements	No	DESCRIPTION	UNIT	QTY	PRICE	PRICE
Sanitary Sewer Improvements		DACE DID				
2 Clearing and Grubbing AC 15.20 \$20,000 \$334.00 8" PVC SDR 35 Gravity Sewer (6" - 6" Deep) LF 4,030 \$395 \$332.80 8" PVC SDR 35 Gravity Sewer (6" - 10" Deep) LF 3,841 \$130 \$499.31 8" PVC SDR 35 Gravity Sewer (10" - 12" Deep) LF 1,548 \$175 \$270.90 8" PVC SDR 35 Gravity Sewer (10" - 12" Deep) LF 2,429 \$250 \$607.28 8" PVC SDR 35 Gravity Sewer (10" - 12" Deep) LF 2,429 \$250 \$607.28 8" PVC C-900 Gravity Sewer (10" - 12" Deep) LF 23 \$105 \$24.4* 10" PVC C-900 Gravity Sewer (10" - 12" Deep) LF 277 \$150 \$41.58 10" PVC C-900 Gravity Sewer (10" - 12" Deep) LF 277 \$150 \$41.58 12" PVC C-900 Gravity Sewer (10" - 12" Deep) LF 89 \$193 \$17.38 12" PVC C-900 Gravity Sewer (10" - 12" Deep) LF 471 \$175 \$824.4* 8" DIPPCL 350 P-401 Lined Gravity Sewer (6" - 8" Deep) LF 471 \$175 \$824.4* 8" DIPPCL 350 P-401 Lined Gravity Sewer (10" - 12" Deep) LF 234 \$250 \$68.68 8" DIPPCL 350 P-401 Lined Gravity Sewer (10" - 12" Deep) LF 234 \$250 \$85.55 8" DIPPCL 350 P-401 Lined Gravity Sewer (10" - 12" Deep) LF 234 \$250 \$85.55 8" DIPPCL 350 P-401 Lined Gravity Sewer (10" - 12" Deep) LF 26 \$125 \$322 12" PVC SDR 35 Gravity Sewer (10" - 12" Deep) LF 26 \$125 \$322 12" PVC SDR 35 Gravity Sewer (10" - 12" Deep) LF 26 \$125 \$322 12" PVC SDR 35 Gravity Sewer (10" - 12" Deep) LF 26 \$125 \$322 12" PVC SDR 35 Gravity Sewer (10" - 12" Deep) LF 26 \$125 \$322 12" PVC SDR 35 Gravity Sewer (10" - 12" Deep) LF 26 \$125 \$322 12" PVC SDR 35 Gravity Sewer (10" - 12" Deep) LF 28 \$220 \$3500 \$363.41 12" PVC SDR 35 Gravity Sewer (10" - 12" Deep) LF 28 \$225 \$320 \$322 12" PVC SDR 35 Gravity Sewer (10" - 12" Deep) LF 28 \$225 \$322 12" PVC SDR 35 Gravity Sewer (10" - 12" Deep) LF 28 \$225 \$322 12" PVC SDR 35 Gravity Sewer (10" - 12" Deep) LF 38 \$220 \$3500 \$360 14" SEWER		<u> </u>				
3 PVC SDR 35 Gravity Sewer (6' - 8' Deep)	1	Mobilization, Insurance, Construction Staking	LS	1	\$400,000	\$400,000
8 PVC SDR 35 Gravity Sewer (6' - 8' Deep)	2	Clearing and Grubbing	AC	15.20	\$20,000	\$304,000
8 PVC SDR 35 Gravity Sewer (R) - 10' Deep) LF 3,841 \$130 \$499.33 7 8 PVC SDR 35 Gravity Sewer (P) - 12' Deep) LF 1,488 \$175 \$270.03 8 PVC SDR 35 Gravity Sewer (P) - 12' Deep) LF 2,429 \$550 \$607.25 8 PVC C-900 Gravity Sewer (B' - 10' Deep) LF 23 \$105 \$2,47 10 8 PVC C-900 Gravity Sewer (B' - 10' Deep) LF 23 \$1505 \$24.4 11 8 PVC C-900 Gravity Sewer (B' - 10' Deep) LF 277 \$1550 \$41.55 11 8 PVC C-900 Gravity Sewer (B' - 10' Deep) LF 89 \$195 \$17.25 12 8 PVC C-900 Gravity Sewer (B' - 10' Deep) LF 89 \$195 \$17.31 13 PVC SDR 35 Gravity Sewer (B' - 10' Deep) LF 471 \$175 \$541.55 13 PVC C-900 Gravity Sewer (B' - 10' Deep) LF 471 \$175 \$5200 \$145.01 14 BY DVC C-900 Gravity Sewer (B' - 10' Deep) LF 471 \$175 \$127 \$155 \$115.61 \$149.11 \$175 \$127 \$150 \$115.61 \$115.61	3	8" PVC SDR 35 Gravity Sewer (0' - 6' Deep)	LF	4,030	\$95	\$382,850
8 PVC SDR 35 Gravity Sewer (10' - 12' Deep)	4	8" PVC SDR 35 Gravity Sewer (6' - 8' Deep)	LF	7,201	\$110	\$792,110
7 8 PVC C-900 Gravity Sewer (0' - 6' Deep) LF 2,429 \$250 \$607.25 8 8 PVC C-900 Gravity Sewer (6' - 6' Deep) LF 138 \$125 \$127 10 8 PVC C-900 Gravity Sewer (6' - 6' Deep) LF 138 \$125 \$127 11 8 PVC C-900 Gravity Sewer (6' - 10' Deep) LF 277 \$150 \$41,55 11 8 PVC C-900 Gravity Sewer (10' - 12' Deep) LF 89 \$195 \$17,31 12 8 PVC C-900 Gravity Sewer (2' - 12' Deep) LF 197 \$275 \$54,17 13 8 DIP/CL 350 P-401 Lined Gravity Sewer (6' - 8' Deep) LF 471 \$11,75 \$82,42 15 8 DIP/CL 350 P-401 Lined Gravity Sewer (8' - 10' Deep) LF 234 \$250 \$58,68 16 8 DIP/CL 350 P-401 Lined Gravity Sewer (8' - 10' Deep) LF 26 \$125 \$68,88 16 8 DIP/CL 350 P-401 Lined Gravity Sewer (8' - 10' Deep) LF 26 \$125 \$30 17 8 DIP/CL 350 P-401 Lined Gravity Sewer (8' - 10' Deep) LF 26 \$125 \$32 19 12 PVC SDR 35 Gravity Sewer (8' - 10' Deep) LF 26 \$12	5	8" PVC SDR 35 Gravity Sewer (8' - 10' Deep)	LF	3,841	\$130	\$499,330
8 B PVC C-900 Gravity Sewer (6' - 8' Deep) LF 23 \$105 \$2.4' 9 8" PVC C-900 Gravity Sewer (6' - 8' Deep) LF 138 \$125 \$17.28' 11 8" PVC C-900 Gravity Sewer (8' - 10' Deep) LF 277 \$150 \$415.5' 11 8" PVC C-900 Gravity Sewer (10' - 12' Deep) LF 89 \$195 \$17.3' 12 8" PVC C-900 Gravity Sewer (10' - 12' Deep) LF 197 \$2275 \$\$41,7' 13 8" DIP/CL 350 P-401 Lined Gravity Sewer (8' - 10' Deep) LF 471 \$175 \$220 \$145.0' 16 8" DIP/CL 350 P-401 Lined Gravity Sewer (10' - 12' Deep) LF 50 \$225 \$88.8' 16 8" DIP/CL 350 P-401 Lined Gravity Sewer (10' - 12' Deep) LF 57 \$300 \$17.1' 19 12" PVC SDR 35 Gravity Sewer (0' - 6' Deep) LF 692 \$150 \$31.3' 19 12" PVC SDR 35 Gravity Sewer (8' - 10' Deep) LF 692 \$150 \$33.8' 21 12" PVC SDR 35 Gravity Sewer (8' - 10' Deep) LF <t< td=""><td>6</td><td>8" PVC SDR 35 Gravity Sewer (10' - 12' Deep)</td><td>LF</td><td>1,548</td><td>\$175</td><td>\$270,900</td></t<>	6	8" PVC SDR 35 Gravity Sewer (10' - 12' Deep)	LF	1,548	\$175	\$270,900
S PVC C-900 Gravity Sewer (6' - 8' Deep)	7	8" PVC SDR 35 Gravity Sewer (> 12' Deep)	LF	2,429	\$250	\$607,250
10 B PVC C-900 Gravity Sewer (8' - 10' Deep)	8	8" PVC C-900 Gravity Sewer (0' - 6' Deep)	LF	23	\$105	\$2,415
11 8 PVC C-900 Gravity Sewer (10' - 12' Deep) LF 89 \$195 \$17.38 12 8" PVC C-900 Gravity Sewer (> 12' Deep) LF 197 \$275 \$554,17.38 13 8" DIP/CL 350 P-401 Lined Gravity Sewer (6' - 8' Deep) LF 471 \$175 \$82,42 15 8" DIP/CL 350 P-401 Lined Gravity Sewer (8' - 10' Deep) LF 306 \$225 \$68,88 16 8" DIP/CL 350 P-401 Lined Gravity Sewer (8' - 10' Deep) LF 306 \$225 \$68,88 17 8" DIP/CL 350 P-401 Lined Gravity Sewer (8' - 10' Deep) LF 57 \$300 \$515,00 18 12" PVC SDR 35 Gravity Sewer (8' - 10' Deep) LF 57 \$300 \$17,10 18 12" PVC SDR 35 Gravity Sewer (8' - 10' Deep) LF 692 \$150 \$103,86 20 12" PVC SDR 35 Gravity Sewer (8' - 10' Deep) LF 692 \$150 \$103,86 21 12" PVC SDR 35 Gravity Sewer (8' - 10' Deep) LF 101 \$225 \$322,72 21 12" PVC SDR 35 Gravity Sewer (8' - 10' Deep) LF 144 \$275 \$39,66 23 12" PVC C-900 Gravity Sewer (8' - 10' Deep) LF 63 \$300 \$18,89 21 12" PVC SDR 35 Gravity Sewer (8' - 10' De	9	8" PVC C-900 Gravity Sewer (6' - 8' Deep)	LF	138	\$125	\$17,250
12 8" PVC C-900 Gravity Sewer (> 12" Deep)	10	8" PVC C-900 Gravity Sewer (8' - 10' Deep)	LF	277	\$150	\$41,550
13 8" DIP/CL 350 P-401 Lined Gravity Sewer (6' - 8' Deep) LF 471 \$175 \$82.42 14 8" DIP/CL 350 P-401 Lined Gravity Sewer (6' - 8' Deep) LF 725 \$200 \$145.00 15 8" DIP/CL 350 P-401 Lined Gravity Sewer (10' - 12' Deep) LF 306 \$225 \$88.88 16 8" DIP/CL 350 P-401 Lined Gravity Sewer (10' - 12' Deep) LF 57 \$300 \$37.71 18 12" PVC SDR 35 Gravity Sewer (6' - 6' Deep) LF 26 \$125 \$3.32 19 12" PVC SDR 35 Gravity Sewer (6' - 8' Deep) LF 692 \$150 \$103.80 20 12" PVC SDR 35 Gravity Sewer (6' - 10' Deep) LF 1,542 \$200 \$308.41 21 12" PVC SDR 35 Gravity Sewer (10' - 12' Deep) LF 110 \$225 \$22.72 21 12" PVC SDR 35 Gravity Sewer (10' - 12' Deep) LF 144 \$275 \$39.60 23 12" PVC C-900 Gravity Sewer (8' - 10' Deep) LF 28 \$225 \$6.33 24 12" PVC C-900 Gravity Sewer (8' - 10' Deep) LF 28 \$225 \$6.33 25 12" DIP/CL 350 P-401 Lined Gravity Sewer (6' - 8' Deep) LF 38 \$200 \$7.66 28 12" DIP/CL 350 P-401 Lined Grav	11	8" PVC C-900 Gravity Sewer (10' - 12' Deep)	LF	89	\$195	\$17,355
13 8" DIP/CL 350 P-401 Lined Gravity Sewer (6' - 8' Deep) LF 471 \$175 \$82.42 14 8" DIP/CL 350 P-401 Lined Gravity Sewer (6' - 8' Deep) LF 725 \$200 \$145.00 15 8" DIP/CL 350 P-401 Lined Gravity Sewer (10' - 12' Deep) LF 306 \$225 \$88.88 16 8" DIP/CL 350 P-401 Lined Gravity Sewer (10' - 12' Deep) LF 57 \$300 \$37.71 18 12" PVC SDR 35 Gravity Sewer (6' - 6' Deep) LF 26 \$125 \$3.32 19 12" PVC SDR 35 Gravity Sewer (6' - 8' Deep) LF 692 \$150 \$103.80 20 12" PVC SDR 35 Gravity Sewer (6' - 10' Deep) LF 1,542 \$200 \$308.41 21 12" PVC SDR 35 Gravity Sewer (10' - 12' Deep) LF 110 \$225 \$22.72 21 12" PVC SDR 35 Gravity Sewer (10' - 12' Deep) LF 144 \$275 \$39.60 23 12" PVC C-900 Gravity Sewer (8' - 10' Deep) LF 28 \$225 \$6.33 24 12" PVC C-900 Gravity Sewer (8' - 10' Deep) LF 28 \$225 \$6.33 25 12" DIP/CL 350 P-401 Lined Gravity Sewer (6' - 8' Deep) LF 38 \$200 \$7.66 28 12" DIP/CL 350 P-401 Lined Grav	12	8" PVC C-900 Gravity Sewer (> 12' Deep)	LF	197	\$275	\$54,175
15 8" DIP/CL 350 P-401 Lined Gravity Sewer (8' - 10' Deep)			LF	471	\$175	\$82,425
16 8" DIP/CL 350 P-401 Lined Gravity Sewer (10" - 12" Deep) LF 234 \$250 \$58,55 17 8" DIP/CL 350 P-401 Lined Gravity Sewer (> 12" Deep) LF 57 \$300 \$17,11 19 12" PVC SDR 35 Gravity Sewer (0" - 6" Deep) LF 66 \$125 \$3,25 19 12" PVC SDR 35 Gravity Sewer (6" - 8" Deep) LF 692 \$150 \$103,81 20 12" PVC SDR 35 Gravity Sewer (8" - 10" Deep) LF 1,542 \$200 \$308,44 21 12" PVC SDR 35 Gravity Sewer (8" - 10" Deep) LF 101 \$225 \$22,77 23 12" PVC SDR 35 Gravity Sewer (8" - 10" Deep) LF 101 \$225 \$22,72 21 12" PVC SDR 35 Gravity Sewer (8" - 10" Deep) LF 101 \$225 \$22,72 21 12" PVC SDR 35 Gravity Sewer (8" - 10" Deep) LF 63 \$300 \$318,93 23 12" PVC SDR 35 Gravity Sewer (8" - 10" Deep) LF 63 \$300 \$318,93 24 12" PVC SDR 35 Gravity Sewer (8" - 10" Deep) LF 63 \$300 \$318,93 25 12" DIP/CL 350 P-401 Lined Gravity Sewer (0" - 6" Deep) LF 93 \$225 \$22,93 28 12" DIP/CL 350 P-401 Lined Gravity Sewer (8" - 10"	14	8" DIP/CL 350 P-401 Lined Gravity Sewer (6' - 8' Deep)	LF	725	\$200	\$145,000
17 8" DIP/CL 350 P-401 Lined Gravity Sewer (> 12' Deep)	15	8" DIP/CL 350 P-401 Lined Gravity Sewer (8' - 10' Deep)	LF	306	\$225	\$68,850
18 12" PVC SDR 35 Gravity Sewer (0' - 6' Deep) LF 26 \$125 \$3,25 19 12" PVC SDR 35 Gravity Sewer (6' - 8' Deep) LF 692 \$150 \$103,80 20 12" PVC SDR 35 Gravity Sewer (6' - 8' Deep) LF 1,542 \$200 \$308,40 21 12" PVC SDR 35 Gravity Sewer (10' - 12' Deep) LF 101 \$225 \$22,72 22 12" PVC SDR 35 Gravity Sewer (10' - 12' Deep) LF 144 \$275 \$39,60 23 12" PVC C-900 Gravity Sewer (8' - 10' Deep) LF 63 \$300 \$118,90 24 12" DIP/CL 350 P-401 Lined Gravity Sewer (6' - 8' Deep) LF 63 \$300 \$18,90 26 12" DIP/CL 350 P-401 Lined Gravity Sewer (6' - 8' Deep) LF 58 \$200 \$7,60 28 12" DIP/CL 350 P-401 Lined Gravity Sewer (8' - 10' Deep) LF 58 \$300 \$17,40 29 12" DIP/CL 350 P-401 Lined Gravity Sewer (8' - 10' Deep) LF 58 \$300 \$17,40 29 12" DIP/CL 350 P-401 Lined Gravity Sewer (8' - 10' Deep) LF	16	8" DIP/CL 350 P-401 Lined Gravity Sewer (10' - 12' Deep)	LF	234	\$250	\$58,500
19 12" PVC SDR 35 Gravity Sewer (6' - 8' Deep)	17	8" DIP/CL 350 P-401 Lined Gravity Sewer (> 12' Deep)	LF	57	\$300	\$17,100
20 12" PVC SDR 35 Gravity Sewer (8' - 10' Deep)	18	12" PVC SDR 35 Gravity Sewer (0' - 6' Deep)	LF	26	\$125	\$3,250
12" PVC SDR 35 Gravity Sewer (10' - 12' Deep)	19	12" PVC SDR 35 Gravity Sewer (6' - 8' Deep)	LF	692	\$150	\$103,800
22 12" PVC SDR 35 Gravity Sewer (> 12' Deep)	20	12" PVC SDR 35 Gravity Sewer (8' - 10' Deep)	LF	1,542	\$200	\$308,400
23 12" PVC C-900 Gravity Sewer (8' - 10' Deep)	21	12" PVC SDR 35 Gravity Sewer (10' - 12' Deep)	LF	101	\$225	\$22,725
24 12" PVC C-900 Gravity Sewer (> 12' Deep) LF 63 \$300 \$18,90 25 12" DIP/CL 350 P-401 Lined Gravity Sewer (0' - 6' Deep) LF 38 \$200 \$7,60 26 12" DIP/CL 350 P-401 Lined Gravity Sewer (6' - 8' Deep) LF 93 \$225 \$20,92 27 12" DIP/CL 350 P-401 Lined Gravity Sewer (8' - 10' Deep) LF 383 \$250 \$95,75 28 12" DIP/CL 350 P-401 Lined Gravity Sewer (10' - 12' Deep) LF 58 \$300 \$17,40 29 12" DIP/CL 350 P-401 Lined Gravity Sewer (> 12' Deep) LF 142 \$350 \$95,75 30 Wash Stone for Bedding (Sewer Gravity Lines) TN 19,000 \$50 \$950,00 31 4" Vent Pipe (Including Installation) LF 26 \$50 \$1,30 32 Dewatering for Sewer Line Installation (Allowance) LS 1 \$250,000 \$250,00 33 Temporary Shoring for Sewer Line Installation (Allowance) LS 1 \$250,000 \$250,00 34 Trench Rock Excavation (Allowance) CY 2,000 \$50 \$225,00 35 Unsu	22	12" PVC SDR 35 Gravity Sewer (> 12' Deep)	LF	144	\$275	\$39,600
12" DIP/CL 350 P-401 Lined Gravity Sewer (0' - 6' Deep)	23	12" PVC C-900 Gravity Sewer (8' - 10' Deep)	LF	28	\$225	\$6,300
26 12" DIP/CL 350 P-401 Lined Gravity Sewer (6' - 8' Deep) LF 93 \$225 \$20,92 27 12" DIP/CL 350 P-401 Lined Gravity Sewer (8' - 10' Deep) LF 383 \$250 \$95,75 28 12" DIP/CL 350 P-401 Lined Gravity Sewer (10' - 12' Deep) LF 58 \$300 \$17,44 29 12" DIP/CL 350 P-401 Lined Gravity Sewer (> 12' Deep) LF 142 \$350 \$49,77 30 Wash Stone for Bedding (Sewer Gravity Lines) TN 19,000 \$50 \$950,00 31 4" Vent Pipe (Including Installation) LF 26 \$50 \$13 32 Dewatering for Sewer Line Installation LS 1 \$250,000 \$250,00 33 Temporary Shoring for Sewer Line Installation (Allowance) LS 1 \$250,000 \$250,00 34 Trench Rock Excavation (Allowance) CY 500 \$225 \$112,50 35 Unsuitable Material Removal and Replacement (Allowance) CY 2,000 \$50 \$100,00 36 24" Steel Encasement. Bore and Jacked LF 70 \$3,500 \$245,00 36 16" Steel Encas	24	12" PVC C-900 Gravity Sewer (> 12' Deep)	LF	63	\$300	\$18,900
27 12" DIP/CL 350 P-401 Lined Gravity Sewer (8' - 10' Deep) LF 383 \$250 \$95,75 28 12" DIP/CL 350 P-401 Lined Gravity Sewer (10' - 12' Deep) LF 58 \$300 \$17,40 29 12" DIP/CL 350 P-401 Lined Gravity Sewer (> 12' Deep) LF 142 \$350 \$49,70 30 Wash Stone for Bedding (Sewer Gravity Lines) TN 19,000 \$50 \$950,00 31 4" Vent Pipe (Including Installation) LF 26 \$50 \$1,30 32 Dewatering for Sewer Line Installation LS 1 \$250,000 \$250,000 33 Temporary Shoring for Sewer Line Installation (Allowance) LS 1 \$250,000 \$250,000 34 Trench Rock Excavation (Allowance) LS 1 \$250,000 \$250,000 34 Trench Rock Excavation (Allowance) CY 2,000 \$50 \$110,00 36 24" Steel Encasement, Bore and Jacked LF 70 \$3,500 \$245,00 37 20" Steel Encasement, Bore and Jacked LF 504 \$3,00	25	12" DIP/CL 350 P-401 Lined Gravity Sewer (0' - 6' Deep)	LF	38	\$200	\$7,600
28 12" DIP/CL 350 P-401 Lined Gravity Sewer (10' - 12' Deep) LF 58 \$300 \$17,40 29 12" DIP/CL 350 P-401 Lined Gravity Sewer (> 12' Deep) LF 142 \$350 \$49,70 30 Wash Stone for Bedding (Sewer Gravity Lines) TN 19,000 \$50 \$950,00 31 4" Vent Pipe (Including Installation) LF 26 \$50 \$1,30 32 Dewatering for Sewer Line Installation LS 1 \$250,000 \$250,00 33 Temporary Shoring for Sewer Line Installation (Allowance) LS 1 \$250,000 \$250,00 34 Trench Rock Excavation (Allowance) CY 500 \$225 \$112,50 35 Unsuitable Material Removal and Replacement (Allowance) CY 2,000 \$50 \$100,00 36 24" Steel Encasement. Bore and Jacked LF 70 \$3,500 \$245,00 38 5' Diameter Bencasement. Bore and Jacked LF 38 \$2,500 \$95,00 39 5' Diameter Precast Manhole with Water Tight Rim & Lid EA 13 \$10,000 \$130,00 4' Diameter Standard Precast Manhole	26	12" DIP/CL 350 P-401 Lined Gravity Sewer (6' - 8' Deep)	LF	93	\$225	\$20,925
29 12" DIP/CL 350 P-401 Lined Gravity Sewer (> 12' Deep) LF 142 \$350 \$49,70 30 Wash Stone for Bedding (Sewer Gravity Lines) TN 19,000 \$50 \$950,00 31 4" Vent Pipe (Including Installation) LF 26 \$50 \$1,30 32 Dewatering for Sewer Line Installation LS 1 \$250,000 \$250,00 33 Temporary Shoring for Sewer Line Installation (Allowance) LS 1 \$250,000 \$250,00 34 Trench Rock Excavation (Allowance) CY 500 \$225 \$112,50 35 Unsuitable Material Removal and Replacement (Allowance) CY 2,000 \$50 \$100,00 36 24" Steel Encasement, Bore and Jacked LF 70 \$3,500 \$245,00 37 20" Steel Encasement. Bore and Jacked LF 504 \$3,000 \$1,512,00 38 5 'Diameter Precast Manhole with Water Tight Rim & Lid EA 1 \$10,000 \$130,00 40 'Diameter Standard Precast Manhole EA 5 \$13,000 \$130,00 41 Diameter Standard Precast Manhole	27	12" DIP/CL 350 P-401 Lined Gravity Sewer (8' - 10' Deep)	LF	383	\$250	\$95,750
30 Wash Stone for Bedding (Sewer Gravity Lines) TN 19,000 \$50 \$950,00 31 4" Vent Pipe (Including Installation) LF 26 \$50 \$1,30 32 Dewatering for Sewer Line Installation LS 1 \$250,000 \$250,00 33 Temporary Shoring for Sewer Line Installation (Allowance) LS 1 \$250,000 \$250,00 34 Trench Rock Excavation (Allowance) CY 500 \$225 \$112,50 35 Unsuitable Material Removal and Replacement (Allowance) CY 2,000 \$50 \$100,00 36 24" Steel Encasement, Bore and Jacked LF 70 \$3,500 \$245,00 37 20" Steel Encasement. Bore and Jacked LF 504 \$3,000 \$1,512,00 38 5t Steel Encasement. Bore and Jacked LF 38 \$2,500 \$95,00 39 5' Diameter Precast Manhole with Water Tight Rim & Lid EA 13 \$10,000 \$130,00 41 ' Diameter Standard Precast Manhole EA 78 \$9,000 <	28	12" DIP/CL 350 P-401 Lined Gravity Sewer (10' - 12' Deep) LF	58	\$300	\$17,400
31 4" Vent Pipe (Including Installation)	29	12" DIP/CL 350 P-401 Lined Gravity Sewer (> 12' Deep)	LF	142	\$350	\$49,700
32 Dewatering for Sewer Line Installation LS 1 \$250,000 \$250,000 33 Temporary Shoring for Sewer Line Installation (Allowance) LS 1 \$250,000 \$250,000 34 Trench Rock Excavation (Allowance) CY 500 \$225 \$112,50 35 Unsuitable Material Removal and Replacement (Allowance) CY 2,000 \$50 \$100,00 36 24" Steel Encasement, Bore and Jacked LF 70 \$3,500 \$245,00 37 20" Steel Encasement. Bore and Jacked LF 504 \$3,000 \$1,512,00 38 16" Steel Encasement. Bore and Jacked LF 38 \$2,500 \$95,00 39 5' Diameter Precast Manhole with Water Tight Rim & Lid EA 13 \$10,000 \$130,00 40 4' Diameter Precast Manhole with Water Tight Rim & Lid EA 5 \$13,000 \$65,00 41 4' Diameter Standard Precast Manhole EA 78 \$9,000 \$702,00 42 5' Diameter Standard Precast Manhole EA 2 \$12,00	30	Wash Stone for Bedding (Sewer Gravity Lines)	TN	19,000	\$50	\$950,000
33 Temporary Shoring for Sewer Line Installation (Allowance) LS 1 \$250,000 \$250,000 34 Trench Rock Excavation (Allowance) CY 500 \$225 \$112,50 35 Unsuitable Material Removal and Replacement (Allowance) CY 2,000 \$50 \$100,00 36 24" Steel Encasement, Bore and Jacked LF 70 \$3,500 \$245,00 37 20" Steel Encasement, Bore and Jacked LF 504 \$3,000 \$1,512,00 38 16" Steel Encasement, Bore and Jacked LF 38 \$2,500 \$95,00 39 5' Diameter Precast Manhole with Water Tight Rim & Lid EA 13 \$10,000 \$130,00 40 4' Diameter Precast Manhole with Water Tight Rim & Lid EA 5 \$13,000 \$65,00 41 4' Diameter Standard Precast Manhole EA 78 \$9,000 \$702,00 42 5' Diameter Standard Precast Manhole EA 2 \$12,000 \$24,00 43 Replace Existing Manhole at Edneyville Elementary LS 1 <t< td=""><td>31</td><td>4" Vent Pipe (Including Installation)</td><td>LF</td><td>26</td><td>\$50</td><td>\$1,300</td></t<>	31	4" Vent Pipe (Including Installation)	LF	26	\$50	\$1,300
34 Trench Rock Excavation (Allowance) CY 500 \$225 \$112,50 35 Unsuitable Material Removal and Replacement (Allowance) CY 2,000 \$50 \$100,00 36 24" Steel Encasement, Bore and Jacked LF 70 \$3,500 \$245,00 37 20" Steel Encasement, Bore and Jacked LF 38 \$2,500 \$95,00 38 16" Steel Encasement, Bore and Jacked LF 38 \$2,500 \$95,00 39 5' Diameter Precast Manhole with Water Tight Rim & Lid EA 13 \$10,000 \$130,00 40 4' Diameter Precast Manhole with Water Tight Rim & Lid EA 5 \$13,000 \$65,00 41 4' Diameter Standard Precast Manhole EA 78 \$9,000 \$702,00 42 5' Diameter Standard Precast Manhole EA 2 \$12,000 \$24,00 43 Replace Existing Manhole at Justice Academy LS 1 \$15,000 \$15,00 44 Core and Boot Existing Manhole at Edneyville Elementary LS 1 \$975,000 \$975,00 45 Henderson Creek Pump Station LS 1 \$850,000 \$850,00	32	Dewatering for Sewer Line Installation	LS	1	\$250,000	\$250,000
35 Unsuitable Material Removal and Replacement (Allowance) CY 2,000 \$50 \$100,00	33	Temporary Shoring for Sewer Line Installation (Allowance)	LS	1	\$250,000	\$250,000
36 24" Steel Encasement, Bore and Jacked LF 70 \$3,500 \$245,00 37 20" Steel Encasement. Bore and Jacked LF 504 \$3,000 \$1,512,00 38 16" Steel Encasement. Bore and Jacked LF 38 \$2,500 \$95,00 39 5' Diameter Precast Manhole with Water Tight Rim & Lid EA 13 \$10,000 \$130,00 40 4' Diameter Precast Manhole with Water Tight Rim & Lid EA 5 \$13,000 \$65,00 41 4' Diameter Standard Precast Manhole EA 78 \$9,000 \$702,00 42 5' Diameter Standard Precast Manhole EA 2 \$12,000 \$24,00 43 Replace Existing Manhole at Justice Academy LS 1 \$15,000 \$15,00 44 Core and Boot Existing Manhole at Edneyville Elementary LS 1 \$3,500 \$3,50 45 Henderson Creek Pump Station LS 1 \$850,000 \$850,00 46 PVC/C900 DR 18 Force Main LF 19,801 \$45 \$891,04 48 "HDPE DR 7 (Directional Bore) LF 1,152 <t< td=""><td>34</td><td>Trench Rock Excavation (Allowance)</td><td>CY</td><td>500</td><td>\$225</td><td>\$112,500</td></t<>	34	Trench Rock Excavation (Allowance)	CY	500	\$225	\$112,500
37 20" Steel Encasement. Bore and Jacked LF 504 \$3,000 \$1,512,00 38 16" Steel Encasement. Bore and Jacked LF 38 \$2,500 \$95,00 39 5' Diameter Precast Manhole with Water Tight Rim & Lid EA 13 \$10,000 \$130,00 40 4' Diameter Precast Manhole with Water Tight Rim & Lid EA 5 \$13,000 \$65,00 41 4' Diameter Standard Precast Manhole EA 78 \$9,000 \$702,00 42 5' Diameter Standard Precast Manhole EA 2 \$12,000 \$24,00 43 Replace Existing Manhole at Justice Academy LS 1 \$15,000 \$15,00 44 Core and Boot Existing Manhole at Edneyville Elementary LS 1 \$3,500 \$3,50 45 Henderson Creek Pump Station LS 1 \$975,000 \$975,00 46 Lewis Creek Pump Station LS 1 \$850,000 \$850,00 47 6" PVC/C900 DR 18 Force Main LF 19,801 \$45 \$891,04 48 "HDPE DR 7 (Directional Bore) LF 1,152 \$350 <td>35</td> <td>Unsuitable Material Removal and Replacement (Allowance</td> <td>CY</td> <td>2,000</td> <td>\$50</td> <td>\$100,000</td>	35	Unsuitable Material Removal and Replacement (Allowance	CY	2,000	\$50	\$100,000
38 16" Steel Encasement. Bore and Jacked LF 38 \$2,500 \$95,00 39 5' Diameter Precast Manhole with Water Tight Rim & Lid EA 13 \$10,000 \$130,00 40 4' Diameter Precast Manhole with Water Tight Rim & Lid EA 5 \$13,000 \$65,00 41 4' Diameter Standard Precast Manhole EA 78 \$9,000 \$702,00 42 5' Diameter Standard Precast Manhole EA 2 \$12,000 \$24,00 43 Replace Existing Manhole at Justice Academy LS 1 \$15,000 \$15,00 44 Core and Boot Existing Manhole at Edneyville Elementary LS 1 \$3,500 \$3,50 45 Henderson Creek Pump Station LS 1 \$975,000 \$975,00 46 Lewis Creek Pump Station LS 1 \$850,000 \$850,00 47 6" PVC/C900 DR 18 Force Main LF 19,801 \$45 \$891,02 48 8" HDPE DR 7 Force Main (Direct Bury) LF 1,75 \$75 \$13,12 49 8" HDPE DR 7 (Directional Bore) LF 1,152 \$350	36	24" Steel Encasement, Bore and Jacked	LF	70	\$3,500	\$245,000
39 5' Diameter Precast Manhole with Water Tight Rim & Lid EA 13 \$10,000 \$130,00 40 4' Diameter Precast Manhole with Water Tight Rim & Lid EA 5 \$13,000 \$65,00 41 4' Diameter Standard Precast Manhole EA 78 \$9,000 \$702,00 42 5' Diameter Standard Precast Manhole EA 2 \$12,000 \$24,00 43 Replace Existing Manhole at Justice Academy LS 1 \$15,000 \$15,00 44 Core and Boot Existing Manhole at Edneyville Elementary LS 1 \$3,500 \$3,500 45 Henderson Creek Pump Station LS 1 \$975,000 \$975,00 46 Lewis Creek Pump Station LS 1 \$850,000 \$850,00 47 6" PVC/C900 DR 18 Force Main LF 19,801 \$45 \$891,02 48 8" HDPE DR 7 Force Main (Direct Bury) LF 1,152 \$350 \$403,20	37	20" Steel Encasement. Bore and Jacked	LF	504	\$3,000	\$1,512,000
40 4' Diameter Precast Manhole with Water Tight Rim & Lid EA 5 \$13,000 \$65,00 41 4' Diameter Standard Precast Manhole EA 78 \$9,000 \$702,00 42 5' Diameter Standard Precast Manhole EA 2 \$12,000 \$24,00 43 Replace Existing Manhole at Justice Academy LS 1 \$15,000 \$15,00 44 Core and Boot Existing Manhole at Edneyville Elementary LS 1 \$3,500 \$3,50 45 Henderson Creek Pump Station LS 1 \$975,000 \$975,00 46 Lewis Creek Pump Station LS 1 \$850,000 \$850,00 47 6" PVC/C900 DR 18 Force Main LF 19,801 \$45 \$891,04 48 8" HDPE DR 7 Force Main (Direct Bury) LF 175 \$75 \$13,12 49 8" HDPE DR 7 (Directional Bore) LF 1,152 \$350 \$403,20	38	16" Steel Encasement. Bore and Jacked	LF	38	\$2,500	\$95,000
41 4' Diameter Standard Precast Manhole EA 78 \$9,000 \$702,00 42 5' Diameter Standard Precast Manhole EA 2 \$12,000 \$24,00 43 Replace Existing Manhole at Justice Academy LS 1 \$15,000 \$15,00 44 Core and Boot Existing Manhole at Edneyville Elementary LS 1 \$3,500 \$3,50 45 Henderson Creek Pump Station LS 1 \$975,000 \$975,00 46 Lewis Creek Pump Station LS 1 \$850,000 \$850,00 47 6" PVC/C900 DR 18 Force Main LF 19,801 \$45 \$891,04 48 "HDPE DR 7 Force Main (Direct Bury) LF 175 \$75 \$13,12 49 "HDPE DR 7 (Directional Bore) LF 1,152 \$350 \$403,20	39	5' Diameter Precast Manhole with Water Tight Rim & Lid	EΑ	13	\$10,000	\$130,000
42 5' Diameter Standard Precast Manhole EA 2 \$12,000 \$24,00 43 Replace Existing Manhole at Justice Academy LS 1 \$15,000 \$15,00 44 Core and Boot Existing Manhole at Edneyville Elementary LS 1 \$3,500 \$3,50 45 Henderson Creek Pump Station LS 1 \$975,000 \$975,00 46 Lewis Creek Pump Station LS 1 \$850,000 \$850,00 47 6" PVC/C900 DR 18 Force Main LF 19,801 \$45 \$891,04 48 8" HDPE DR 7 Force Main (Direct Bury) LF 175 \$75 \$13,12 49 8" HDPE DR 7 (Directional Bore) LF 1,152 \$350 \$403,20	40	4' Diameter Precast Manhole with Water Tight Rim & Lid	EΑ	5	\$13,000	\$65,000
43 Replace Existing Manhole at Justice Academy LS 1 \$15,000 \$15,000 44 Core and Boot Existing Manhole at Edneyville Elementary LS 1 \$3,500 \$3,500 45 Henderson Creek Pump Station LS 1 \$975,000 \$975,000 46 Lewis Creek Pump Station LS 1 \$850,000 \$850,000 47 6" PVC/C900 DR 18 Force Main LF 19,801 \$45 \$891,04 48 8" HDPE DR 7 Force Main (Direct Bury) LF 175 \$75 \$13,12 49 8" HDPE DR 7 (Directional Bore) LF 1,152 \$350 \$403,20	41	4' Diameter Standard Precast Manhole	EΑ	78	\$9,000	\$702,000
44 Core and Boot Existing Manhole at Edneyville Elementary LS 1 \$3,500 \$3,500 45 Henderson Creek Pump Station LS 1 \$975,000 \$975,000 46 Lewis Creek Pump Station LS 1 \$850,000 \$850,000 47 6" PVC/C900 DR 18 Force Main LF 19,801 \$45 \$891,04 48 8" HDPE DR 7 Force Main (Direct Bury) LF 175 \$75 \$13,12 49 8" HDPE DR 7 (Directional Bore) LF 1,152 \$350 \$403,20	42	5' Diameter Standard Precast Manhole	EΑ	2	\$12,000	\$24,000
45 Henderson Creek Pump Station LS 1 \$975,000 \$975,000 46 Lewis Creek Pump Station LS 1 \$850,000 \$850,000 47 6" PVC/C900 DR 18 Force Main LF 19,801 \$45 \$891,04 48 8" HDPE DR 7 Force Main (Direct Bury) LF 175 \$75 \$13,12 49 8" HDPE DR 7 (Directional Bore) LF 1,152 \$350 \$403,20	43	Replace Existing Manhole at Justice Academy	LS	1	\$15,000	\$15,000
46 Lewis Creek Pump Station LS 1 \$850,000 \$850,000 47 6" PVC/C900 DR 18 Force Main LF 19,801 \$45 \$891,04 48 8" HDPE DR 7 Force Main (Direct Bury) LF 175 \$75 \$13,12 49 8" HDPE DR 7 (Directional Bore) LF 1,152 \$350 \$403,20	44	Core and Boot Existing Manhole at Edneyville Elementary	LS	1	\$3,500	\$3,500
47 6" PVC/C900 DR 18 Force Main LF 19,801 \$45 \$891,04 48 8" HDPE DR 7 Force Main (Direct Bury) LF 175 \$75 \$13,12 49 8" HDPE DR 7 (Directional Bore) LF 1,152 \$350 \$403,20	45	Henderson Creek Pump Station	LS	1	\$975,000	\$975,000
48 8" HDPE DR 7 Force Main (Direct Bury) LF 175 \$75 \$13,12 49 8" HDPE DR 7 (Directional Bore) LF 1,152 \$350 \$403,20	46	Lewis Creek Pump Station	LS	1	\$850,000	\$850,000
49 8" HDPE DR 7 (Directional Bore) LF 1,152 \$350 \$403,20	47	6" PVC/C900 DR 18 Force Main	LF	19,801	\$45	\$891,045
l	48	8" HDPE DR 7 Force Main (Direct Bury)	LF	175	\$75	\$13,125
50 3" Combination Air Pologgo Volves in Manhola	49	8" HDPE DR 7 (Directional Bore)	LF	1,152	\$350	\$403,200
Jou 2 Combination Air Release valves in Manhole BA 12 \$15,000 \$180,00	50	2" Combination Air Release Valves in Manhole	EA	12	\$15,000	\$180,000

51 Connect to Existing Manhole with Force Main	LS	1	\$10,000	\$10,000
52 Asphalt Patch and Repair	SY	3500	\$75	\$262,500
Mill Existing Asphalt and Overlay (per NCDOT stds)	SY	560	\$150	\$84,000
54 Concrete Patch and Repair	SY	350	\$275	\$96,250
55 Stone for Driveway Repairs	TN	1500	\$50	\$75,000
Traffic Control	LS	1	\$150,000	\$150,000
57 Stream Crossing	EA	11	\$50,000	\$550,000
Incidental Stone	TN	2,000	\$50	\$100,000
59 Silt Fence	LF	13,900	\$5	\$69,500
Temporary Construction Fencing at Edneyville Elementary	' LF	500	\$25	\$12,500
Temporary Construction Entrance	EA	6	\$4,500	\$27,000
Reconstruct Roadway Ditch (w/ Wattles)	LF	12,600	\$10	\$126,000
Gravel Inlet Protection	EA	87	\$500	\$43,50
Erosion Control Matting	SY	1,500	\$3	\$4,500
Final Stabilization in Wetland Areas	SY	1,220	\$25	\$30,500
Pump Existing Edneyville Septic System	LS	1	\$7,500	\$7,500
Remove & Dispose of Existing Equipment (Edneyville)	LS	1	\$5,000	\$5,000
88 Crush Existing Tanks (Edneyville)	LS	1	\$10,000	\$10,000
Pump Existing Justice Academy Treatment System	LS	1	\$25,000	\$25,000
Remove & Dispose of Existing Equipment (JA)	LS	1	\$25,000	\$25,00
1 Grade Site (JA)	LS	1	\$7,500	\$7,50
2 Temporary Grassing and Stabilization	AC	15.20	\$3,500	\$53,20
Final Grassing and Stabilization	AC	15.20	\$4,500	\$68,40
1 Mobilization, Insurance, Construction Staking2 Clearing and Grubbing	LS AC	1 3.70	\$75,000 \$15,000	\$75,000 \$55,500
8" PVC SDR 35 Gravity Sewer (0' - 6' Deep)	LF	1,156	\$95	\$109,82
4 8" PVC SDR 35 Gravity Sewer (6' - 8' Deep)	LF	2,015	\$110	\$221,65
8" PVC SDR 35 Gravity Sewer (8' - 10' Deep)	LF	882	\$130	\$114,66
8" PVC SDR 35 Gravity Sewer (10' - 12' Deep)	LF	254	\$175	\$44,45
7 8" PVC SDR 35 Gravity Sewer (> 12' Deep)	LF	122	\$250	\$30,50
8 8" DIP/CL 350 P-401 Lined Gravity Sewer (0' - 6' Deep)	LF	139	\$175	\$24,32
8" DIP/CL 350 P-401 Lined Gravity Sewer (6' - 8' Deep)	LF	148	\$200	\$29,60
0 8" DIP/CL 350 P-401 Lined Gravity Sewer (8' - 10' Deep)	LF	105	\$225	\$23,62
1 8" DIP/CL 350 P-401 Lined Gravity Sewer (10' - 12' Deep)		65	\$250	\$16,25
2 Wash Stone for Bedding (Sewer Gravity Lines)	TN	3,000	\$50	\$150,00
3 4' Diameter Standard Precast Manhole	EA	25	\$9,000	\$225,00
4 Laurel Branch Pump Station	LS	1	\$850,000	\$850,00
5 6" PVC/C900 DR 18 Force Main	LF	917	\$45	\$41,26
6 Asphalt Patch and Repair	SY	110	\$90	\$9,90
7 Concrete Patch and Repair	SY	65	\$275	\$17,87
8 Stream Crossing	EA	3	\$50,000	\$150,00
9 Incidental Stone	TN	1,000	\$50	\$50,00
0 Silt Fence	LF	5,550	\$5	\$27,75
1 Temporary Construction Entrance	EA	1	\$4,500	\$4,50
2 Erosion Control Matting	SY	650	\$3	\$1,95
3 Final Stabilization in Wetland Areas	SY	950	\$25	\$23,75
4 Temporary Grassing and Stabilization	AC	3.70	\$3,500	\$12,95
Final Grassing and Stabilization	AC	3.70	\$4,500	\$16,65
		Total A	dd Alternate #1	\$2,326,97
Add Alternate #2 - Sewer Services		. Juli A		Ψ2,320,31
1 4" Short Side Sewer Service w/Cleanout	EA	1	\$2,000	
4" Long Service with Bore Under Roadway w/ Cleanout	EA	1	\$3,500	

EΑ

EΑ

1

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\$4,000

\$6,000

Prepared By: William R. Buie, P.E.

3 6" Short Side Sewer Service w/Cleanout

4 6" Long Service with Bore Under Roadway w/ Cleanout

WGLA Engineering, PLLC



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

October 7, 2025

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

RE: Clear Creek Sewer Project (SPR-W-ARP-0085)

Proposed Fees for Construction Administration(CA) Assistance

Dear Mr. Jones:

As you know, WGLA Engineering recently assisted the County in secured bids for the Clear Creek Sewer Project. We have provided a recommendation of award with a final project budget. As you will recall, we did not include construction administration (CA) assistance services in our original proposal for the project design and permitting assistance. Typically, the CA scope is finalized at the time the construction budget and contingency budget has been established to reflect actual scope of project construction.

The base bid for the Clear Creek project includes approximately 25,000 LF of gravity sewer lines, two pump stations and approximately 21,000 LF of force main at a low bid cost of \$13,993,755.00. The collection system will allow for the elimination of the Justice Academy wastewater treatment plant, the Edneyville Elementary School septic system, the Camp Judea wastewater treatment plant and many other community septic systems.

Construction administration services will include the following tasks:

- -Preparation and coordination of contract documents
- -Preparation and coordination of DWI project documents
- -Conducting a project preconstruction meeting
- -Review and approval of shop drawings
- -Weekly project inspections and reports
- -Preparation of plan modifications as required during the course of construction
- -Review of all pay requests with recommendation for payment
- -Review and coordination of all contractor requests for information (RFIs)
- -Review, coordination and recommendation for any project changes and/or change orders
- -Coordination with Contractor and Property Owners during the course of construction
- -Conducting monthly construction progress meetings
- -Coordination of testing of the new system
- -Conducting final inspections of the project and generating a final project punch list
- -Preparing final as-built record drawings for the project
- -Preparing and coordinating project close out documentation

Note that these tasks will be completed by WGLA Engineering and CDM Smith.

Mr. Marcus Jones, P.E. October 7, 2025 Page 2

The project is anticipated to begin construction around November 1, 2025 and be complete by April 1, 2027. The scope of work outlined above will extend over the course of this time period.

The total cost for these construction administration services as described above is \$350,000.00. This fee represents approximately 2.5% of the proposed construction contract. This cost was outlined in the engineer's cost estimate prepared prior to bid and is included in the project bid information that will be provided to DWI.

We appreciate the opportunity to continue working with Henderson County on this project. Please let me know if you have any questions or need more information.

Sincerely, WGLA Engineering, PLLC

William R. Buis

William R. Buie, P.E.