

**RESOLUTION NO. 2023-08**

**COTTER, ARKANSAS**

**A RESOLUTION CONCURRING WITH THE ENGINEER'S LETTER OF RECOMMENDATION TO PHASE THE SEWER LINE REHABILITATION PROJECT**

**WHEREAS**, the City of Cotter received loan and grant funding from USDA in 2019, to design and construct improvements to the wastewater treatment collection system called Phase II Sewer Rehabilitation Project located in the City of Cotter;

**WHEREAS**, the project was bid on July 20, 2023, receiving two qualified bids for the project for the construction of sewer rehabilitation project designed to be located in the City of Cotter. The lowest bid was NLS Construction, LLC at \$ 3,726,580.

**WHEREAS**, the project cost is above the approved funding \$2,170,000, received from USDA in 2019.

**THEREFORE, BE IT RESOLVED by the City Council of the City of Cotter, Arkansas:**

**Section 1:** The City of Cotter concurs with the Engineer's Letter of Recommendation dated August 21, 2023, to phase the project and proceed with construction of the "Elevated Gravity Sewer Pipe Replacement" and a portion of the "South Collection System" improvements and deleting the "North Collection System" Improvements valued at \$2,012,040 and approximately 915 linear feet of 8" gravity sewer main in the "South Collection System" Improvements valued at \$157,430, until funding is obtained.

Dated this 24<sup>th</sup> day of August 2023.

  
McGeorge Caradine, MAYOR

ATTEST:

  
Andrea Kray, RECORDER / TREASURER

**ORIGINAL**

August 21, 2023

Honorable Mac Caradine, Mayor  
City of Cotter  
115 McLean Avenue  
Cotter, Arkansas 72626

RE: Letter of Recommendation  
Sanitary Sewer Collection System Phase II Improvements  
City of Cotter, Arkansas

Dear Mayor Caradine:

Enclosed, please find a certified copy of the bids received on July 20, 2023 for the Sanitary Sewer Collection System Phase II Improvements project. There were two (2) bids submitted with the lowest bidder being NLS Construction, LLC with a total base bid of \$3,726,580.00.

We are familiar with NLS Construction, LLC and know them to be experienced and qualified to perform the work necessary to complete this project. However, the bid price exceeded the funding provided by the United States Department of Agriculture Rural Development (USDA RD) by approximately \$2,349,178.00. As you know, to move the project forward, the costs of constructing the more critical portions of the project were evaluated as part of the value engineering process. It was determined that the construction of the "Emergency Improvements" portion as described in greater detail later, would be the most cost-effective option to resolve the critical issues in the system in a timely manner.

The original scope of the project can be divided into three areas of work based on location: the "North Collection System" improvements, the "South Collection System" improvements and the "Elevated Gravity Sewer Pipe Replacement". The North Collection System improvements consist of replacing existing 12" PVC force main with 12" PVC gravity sewer main and manholes, installing a lift station, and abandoning and removing the existing wet well, existing manholes, and existing sewer line once the new line is in place. The South Collection System improvements include replacing approximately 965 linear feet of existing 8" sewer main, constructing a new lift station and retaining wall, and installing approximately 560 linear feet of 2" PVC force main. Lastly, the Elevated Gravity Sewer Pipe Replacement consists of replacing approximately 1,400 linear feet of existing 12" sewer main and approximately 150 linear feet of existing 8" sewer main currently elevated above ground. The improvements would also include adjusting and rehabilitating the existing piers for proper grade/alignment of the proposed sewer line. A map showing the locations of each of these areas is included with this letter.

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The Emergency Improvements would then consist of all the work included in the Elevated Gravity Sewer Pipe Replacement portion, part of the South Collection System improvements, and part of the North Collection System improvements. The portion of the North Collection System improvements to be included in this reduced scope is the installation of the ten-inch (10") HDPE DR 9 force main including the crossing of Denton Ferry Road and everything in the South Collection System improvements is included with exception to approximately 915 linear feet of 8" PVC gravity sewer main and five manholes. The Emergency Improvements includes that which is the most time-sensitive and critical due to the following:

12" and 8" Elevated Gravity Sewer Pipe Replacement: The existing 12" and 8" sewer mains to be replaced are currently in very poor condition. The existing 12" sewer main runs adjacent to the White River and is showing extreme corrosion due to the significant amount of hydrogen sulfide gas caused by the settling of waste solids in upstream pipes. The settlement of waste solids in the pipes is due to a pump failing and not being replaced, resulting in the force main functioning as a gravity sewer main without the slopes necessary to effectively convey the sewage. A portion of this line in which the damage was allowing the contents to come out to the environment was replaced as emergency improvements in Phase I of the project. The images below were taken prior to replacing the pipe in Phase I and show the progression of the corrosion due to the hydrogen sulfide gas. The first picture was taken in January 2017 and the following two pictures were taken in December 2017. Although this portion was replaced, the downstream pipe, namely the 12" and 8" in question, is still experiencing these issues and is rapidly deteriorating. If left untreated and in their current condition, the 12" and 8" elevated gravity sewer are anticipated to fail by this winter.



South Collection System: The replacement of the existing 8" gravity sewer main and manholes was added to the project in response to a comment received in May 2022 during the Arkansas Department of Health's (ADH) review process. ADH required this section of sewer main located upstream of the proposed lift station to be replaced because the existing line was not operating

properly. However, approximately fifty feet of this line and one manhole will be included in the Emergency Improvements in order to connect to the existing system. Constructing the entirety of the 8” gravity sewer main in this area would present complications with federal funding, therefore we recommend the City pursue state or private funding for this portion of the project to comply with the conditions of the Arkansas Department of Health’s approval of the project. The rest of the South Collection System improvements are still necessary and critical for the proper functioning of the collection system and would be included in the Emergency Improvements.

10” HDPE DR 9 Force Main and Denton Ferry Road Crossing: As part of the value engineering process, the original 10” AWWA C900 DR 18 PVC force main was replaced with 10” HDPE DR 9 pipe. The contractor agreed to install approximately 600 linear feet of it for \$100.00 per linear foot. The length to be replaced was adjusted from 910 linear feet to 600 linear feet because a more precise location of the cast iron pipe urgently needing replacement was given. This lowered the original bid price of \$91,000.00 to \$60,000.00. Similarly, the contractor agreed to perform the 10” force main crossing of Denton Ferry Road with a slick bore at \$350.00 per linear foot, in lieu of the original bid item that included a steel encasement. The original crossing was bid at a conservative length of 175 linear feet, however, since then, it has been determined that only 100 linear feet would be necessary. This change would lower the original bid price of \$131,250.00 to \$35,000.00. The replacement of the existing 10” force main was deemed critical due to the condition of the existing cast iron force main.

*It is important to note that although the improvements previously discussed were deemed to be the most critical and time sensitive, the rest of the improvements proposed by the original project are still necessary and just as crucial for the proper operation of the system and the health and benefit of the environment and residents of the area.*

The original estimated budget for the project and the revised estimated budget based on value engineering and the reduced scope of the project, are as shown in the following pages.

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Original Estimated Budget:

<u>PROJECT ITEMS</u>	<u>EST. BUDGETARY COST</u>
Subtotal Construction Expenses	\$ 1,649,100.00
Engineering – Basic Services	\$ 193,928.00
Engineering – Construction Observation	\$ 65,964.00
Other	\$ 96,798.00
Contingency (10%)	\$ 164,210.00
<b>TOTAL EST. PROJECT EXPENSES</b>	<b>\$ 2,170,000.00</b>
Funds Available (USDA RD)	\$ 2,170,000.00
<b>TOTAL PROJECT FUNDS AVAILABLE</b>	<b>\$ 2,170,000.00</b>

Revised Estimated Budget (Reduced Scope of Work – Emergency Improvements):

<u>PROJECT ITEMS</u>	<u>EST. BUDGETARY COST</u>
Base Bid – (NLS Construction, LLC)	\$ 3,726,580.00
Base Bid Less Revisions to Original Scope	\$ 1,429,860.00
Engineering – Basic Services	\$ 193,928.00
Engineering – Construction Observation	\$ 65,964.00
Other	\$ 160,048.00
Contingency	\$ 320,200.00
<b>TOTAL EST. PROJECT EXPENSES</b>	<b>\$ 2,170,000.00</b>
Original Funds Available (USDA RD)	\$ 2,170,000.00
<b>TOTAL ADDITIONAL FUNDING REQUIRED</b>	<b>\$ 0.00</b>

As mentioned previously, the remaining work in the North Collection System is just as crucial to the health and benefit of the environment and residents of Cotter and Gassville. The existing 12” force main to be replaced in the northern portion of the project is the main source of the hydrogen sulfide gas issues. Based on the 1975 As-Built plans, the existing force main was shown to be laid to grade, however, more recent survey data showed that the pipe was not, as shown in the profile below. This, combined with the failing of the pump, has caused approximately 25,000 gallons of sewage solids and debris to always be present inside the pipe. This sludge settlement can be seen in the picture on the following page taken in



Brian J. Moore, P.E.  
President

Tim J. Mays, P.E.  
Vice President

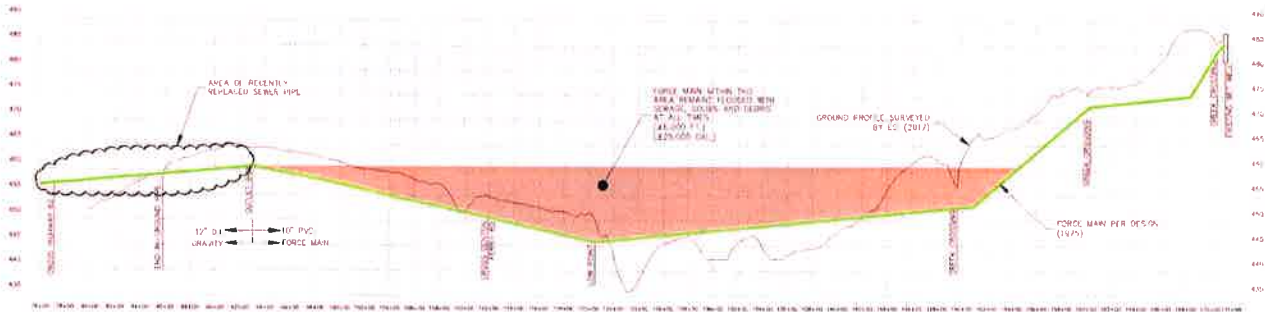
Jason Appel, P.E.  
Secretary/Treasurer

Jerry W. Martin, P.E.  
Chairman of the Board

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Honorable Mac Caradine  
August 21, 2023  
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December 2017. Although the PVC material has somewhat delayed the deterioration of the pipe in this area, the significant issues it has caused downstream make the proposed improvements in this area vital to the proper operation of the whole system. An estimated budget for these remaining improvements is included on the following page.



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President

Tim J. Mays, P.E.  
Vice President

Jason Appel, P.E.  
Secretary/Treasurer

Jerry W. Martin, P.E.  
Chairman of the Board

Consulting Engineers and Surveyors

[www.engineeringservices.com](http://www.engineeringservices.com)

Revised Estimated Budget (Additional Critical Improvements):

<u>PROJECT ITEMS</u>	<u>EST. BUDGETARY COST</u>
Base Bid – (NLS Construction, LLC)	\$ 3,726,580.00
Base Bid Less “Emergency Improvements”	\$ 2,012,040.00
Engineering – Basic Services	\$ 0.00
Engineering – Construction Observation	\$ 0.00
Other	\$ 21,700.00
Contingency (10%)	\$ 201,204.00
<b>TOTAL EST. PROJECT EXPENSES</b>	<b>\$ 2,234,944.00</b>
<b>TOTAL ADDITIONAL FUNDING REQUIRED</b>	<b>\$ 2,234,944.00</b>

As demonstrated in the respective tables on the previous pages, the modifications to the original project scope reduced the project cost to be within the funds available. Based on this funding structure, we recommend awarding the full contract price of \$3,726,580.00 less the cost of \$157,430.00 to construct the 915 feet of 8” gravity sewer main in the South Collection System improvements for a total contract price of \$3,569,150. Once the contract is executed, we recommend processing a change order to reduce the scope as previously described. Similarly, as previously discussed, we recommend continuing to pursue additional funding of approximately \$2,234,944.00 for the construction of the “Additional Critical Work”, as well as approximately \$173,173.00 of private or state funding for the construction of the 8” gravity sewer main in the South Collection System improvements. A budget further breaking down the costs associated with the project is enclosed with this letter.

Construction bids are good for a period of sixty (60) days; therefore, the Contract must be awarded no later than September 18<sup>th</sup>, 2023.

Please do not hesitate to contact our office if you have any questions or require additional information.

Sincerely,



Tim Mays, P.E.

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**TABULATION OF BIDS**

PROJECT: Sanitary Sewer Collection System Phase II Improvements  
 OWNER: City of Cotter

Bids Opened: July 20, 2023

**BASE BID**

Item	Description	Bid Quantity	Unit	L.E. Davis Construction, Inc.		NLS Construction, LLC	
				Unit Price	Total	Unit Price	Total
1	12" ASTM D3034 SDR 26 PVC Gravity Sewer Main (0' - 8' Depth)	2,490	LF	\$ 225.00	\$ 560,250.00	\$ 165.00	\$ 410,850.00
2	12" ASTM D3034 SDR 26 PVC Gravity Sewer Main (8' - 12' Depth)	2,040	LF	\$ 250.00	\$ 510,000.00	\$ 187.00	\$ 381,480.00
3	12" ASTM D3034 SDR 26 PVC Gravity Sewer Main (12' - 16' Depth)	220	LF	\$ 275.00	\$ 60,500.00	\$ 210.00	\$ 46,200.00
4	4' Diameter Cast-In-Place Concrete Manholes (0' - 8' Depth)	21	EA	\$ 3,500.00	\$ 73,500.00	\$ 4,000.00	\$ 84,000.00
5	Extra Depth of 4' Diameter Cast-In-Place Concrete Manhole (8'+ Depth)	40	VF	\$ 500.00	\$ 20,000.00	\$ 200.00	\$ 8,000.00
6	Creek Crossing with Steel Encasement	235	LF	\$ 300.00	\$ 70,500.00	\$ 1,000.00	\$ 235,000.00
7	Primary Duplex Submersible Pump Lift Station	1	LS	\$ 850,000.00	\$ 850,000.00	\$ 700,000.00	\$ 700,000.00
8	10" AWWA C900 DR 18 PVC Force Main	910	LF	\$ 150.00	\$ 136,500.00	\$ 100.00	\$ 91,000.00
9	Denton Ferry Rd Crossing with Steel Encasement	175	FT	\$ 300.00	\$ 52,500.00	\$ 750.00	\$ 131,250.00
10	Removal of Existing Wet Well and Manholes	1	LS	\$ 400,000.00	\$ 400,000.00	\$ 35,000.00	\$ 35,000.00
11	Demolition of Existing Sewer Lines (complete removal)	1	LS	\$ 400,000.00	\$ 400,000.00	\$ 75,000.00	\$ 75,000.00
12	Pasture Restoration	1	LS	\$ 30,000.00	\$ 30,000.00	\$ 25,000.00	\$ 25,000.00
13	8" ASTM D3034 SDR 26 PVC Gravity Sewer Main (0' - 8' Depth)	965	LF	\$ 100.00	\$ 96,500.00	\$ 150.00	\$ 144,750.00
14	4' Diameter Cast-In-Place Concrete Manholes (0' - 8' Depth)	6	EA	\$ 3,500.00	\$ 21,000.00	\$ 4,000.00	\$ 24,000.00
15	Gravity Block Retaining Wall (Max Height 8')	1,000	SF	\$ 130.00	\$ 130,000.00	\$ 60.00	\$ 60,000.00
16	Secondary Duplex Submersible Pump Lift Station	1	LS	\$ 400,000.00	\$ 400,000.00	\$ 500,000.00	\$ 500,000.00
17	2" SDR 17 Class 250 PVC Force Main	560	LF	\$ 30.00	\$ 16,800.00	\$ 55.00	\$ 30,800.00
18	Paved Road Crossing with Steel Encasement (Bore)	40	LF	\$ 200.00	\$ 8,000.00	\$ 65.00	\$ 2,600.00
19	Gravel Road Crossing	135	LF	\$ 100.00	\$ 13,500.00	\$ 35.00	\$ 4,725.00
20	Gravel Driveway/Water Main Crossing with Steel Encasement (Bore)	25	LF	\$ 300.00	\$ 7,500.00	\$ 65.00	\$ 1,625.00
21	Yard Restoration	700	LF	\$ 15.00	\$ 10,500.00	\$ 3.00	\$ 2,100.00
22	12" Epoxy Coated Ductile Iron Elevated Gravity Sewer	1,400	LF	\$ 230.00	\$ 322,000.00	\$ 215.00	\$ 301,000.00
23	8" Epoxy Coated Ductile Iron Elevated Gravity Sewer	150	LF	\$ 200.00	\$ 30,000.00	\$ 190.00	\$ 28,500.00
24	Pump-Around System	7	EA	\$ 14,285.71	\$ 100,000.00	\$ 10,000.00	\$ 70,000.00
25	Water-Tight Manhole Connection	7	EA	\$ 2,500.00	\$ 17,500.00	\$ 2,000.00	\$ 14,000.00
26	Force Main Connection Vault	1	EA	\$ 30,000.00	\$ 30,000.00	\$ 35,000.00	\$ 35,000.00
27	Adjustment/ Rehab of Existing Piers for Proper Grade/ Alignment	17	EA	\$ 5,000.00	\$ 85,000.00	\$ 1,500.00	\$ 25,500.00
28	Closure of City Trail During Construction-Proper Signage and Safety Controls	1	LS	\$ 10,000.00	\$ 10,000.00	\$ 7,500.00	\$ 7,500.00
29	Restoration of City Trail Upon Construction Completion	1	LS	\$ 20,000.00	\$ 20,000.00	\$ 15,000.00	\$ 15,000.00
30	Rock Excavation	1,700	CY	\$ -	\$ -	\$ 1.00	\$ 1,700.00
31	Ductile Iron Fittings	1,000	LB	\$ 30.00	\$ 30,000.00	\$ 20.00	\$ 20,000.00
32	Erosion Control and Mitigation	1	LS	\$ 40,000.00	\$ 40,000.00	\$ 40,000.00	\$ 40,000.00
33	One-Year Maintenance Bond	1	LS	\$ 50,000.00	\$ 50,000.00	\$ 100,000.00	\$ 100,000.00
34	OSHA's Standard for Excavation and Trench Safety System	1	LS	\$ 10,000.00	\$ 10,000.00	\$ 75,000.00	\$ 75,000.00
<b>TOTAL BASE BID</b>					<b>\$ 4,612,050.00</b>		<b>\$ 3,726,580.00</b>

**DEDUCTIVE ALTERNATE NO.1**

Item	Description	Bid Quantity	Unit	L.E. Davis Construction, Inc.		NLS Construction, LLC	
				Unit Price	Total	Unit Price	Total
11	Delete - Demolition of Existing Sewer Lines (complete removal)	1	LS	\$ 400,000.00	\$ 400,000.00	\$ 75,000.00	\$ 75,000.00
35	Add - Abandonment of Existing Sewer Lines (Grout Lines)	1	LS	\$ 300,000.00	\$ (300,000.00)	\$ 50,000.00	\$ (50,000.00)
<b>TOTAL BID DEDUCTIVE ALTERNATE NO.1</b>					<b>\$ 100,000.00</b>		<b>\$ 25,000.00</b>

**DEDUCTIVE ALTERNATE NO.2**

Item	Description	Bid Quantity	Unit	L.E. Davis Construction, Inc.		NLS Construction, LLC	
				Unit Price	Total	Unit Price	Total
13	8" ASTM D3034 SDR 26 PVC Gravity Sewer Main (0' - 8' Depth)	965	LF	\$ 100.00	\$ 96,500.00	\$ 150.00	\$ 144,750.00
14	4' Diameter Cast-In-Place Concrete Manholes (0' - 8' Depth)	6	EA	\$ 3,500.00	\$ 21,000.00	\$ 4,000.00	\$ 24,000.00
30	Rock Excavation	220	CY	\$ -	\$ -	\$ 1.00	\$ 220.00
<b>TOTAL BID DEDUCTIVE ALTERNATE NO.2</b>					<b>\$ 117,500.00</b>		<b>\$ 168,970.00</b>

**DEDUCTIVE ALTERNATE NO.3**

Item	Description	Bid Quantity	Unit	L.E. Davis Construction, Inc.		NLS Construction, LLC	
				Unit Price	Total	Unit Price	Total
15	Gravity Block Retaining Wall (Max Height 8')	1,000	SF	\$ 130.00	\$ 130,000.00	\$ 60.00	\$ 60,000.00
16	Secondary Duplex Submersible Pump Lift Station	1	LS	\$ 400,000.00	\$ 400,000.00	\$ 500,000.00	\$ 500,000.00
17	2" SDR 17 Class 250 PVC Force Main	560	LF	\$ 30.00	\$ 16,800.00	\$ 55.00	\$ 30,800.00
18	Paved Road Crossing with Steel Encasement (Bore)	40	LF	\$ 200.00	\$ 8,000.00	\$ 65.00	\$ 2,600.00
19	Gravel Road Crossing	135	LF	\$ 100.00	\$ 13,500.00	\$ 35.00	\$ 4,725.00
20	Gravel Driveway/Water Main Crossing with Steel Encasement (Bore)	25	LF	\$ 300.00	\$ 7,500.00	\$ 65.00	\$ 1,625.00
21	Yard Restoration	35	LF	\$ 15.00	\$ 525.00	\$ 3.00	\$ 105.00
30	Rock Excavation	55	CY	\$ -	\$ -	\$ 1.00	\$ 55.00
31	Ductile Iron Fittings	45	LB	\$ 30.00	\$ 1,350.00	\$ 20.00	\$ 900.00
<b>TOTAL BID DEDUCTIVE ALTERNATE NO.3</b>					<b>\$ 577,675.00</b>		<b>\$ 600,810.00</b>

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TABULATION OF BIDS		Bids Opened: July 20, 2023	
PROJECT: Sanitary Sewer Collection System Phase II Improvements			
OWNER: City of Cotter			
<b>BID SUMMARY</b>			
	L.E. Davis Construction, Inc.		NLS Construction, LLC
<b>BASE BID</b>	\$ 4,612,050.00	\$	3,726,580.00
DEDUCTIVE ALTERNATE NO. 1	\$ 100,000.00	\$	25,000.00
<b>BASE BID LESS DEDUCTIVE ALTERNATE NO. 1</b>	\$ 4,512,050.00	\$	3,701,580.00
DEDUCTIVE ALTERNATE NO. 2	\$ 117,500.00	\$	168,970.00
<b>BASE BID LESS DEDUCTIVE ALTERNATES NO. 1 &amp; NO. 2</b>	\$ 4,394,550.00	\$	3,532,610.00
DEDUCTIVE ALTERNATE NO. 3	\$ 577,675.00	\$	600,810.00
<b>BASE BID LESS DEDUCTIVE ALTERNATES NO. 1, NO. 2, &amp; NO. 3</b>	\$ 3,816,875.00	\$	2,931,800.00

\* L.E. Davis Construction, Inc. bid Bid Item 24 as a lump sum, so the unit price for "each" was adjusted accordingly.  
 L.E. Davis had an addition error which led to the Bid Total being incorrect.  
 Engineering Services, Inc. has corrected these errors in accordance with the conditions of the Contract Documents.

I hereby certify that this is a true and correct copy of the Bids received on July 20, 2023.



7/25/2023



Tim J. Mays, P.E.

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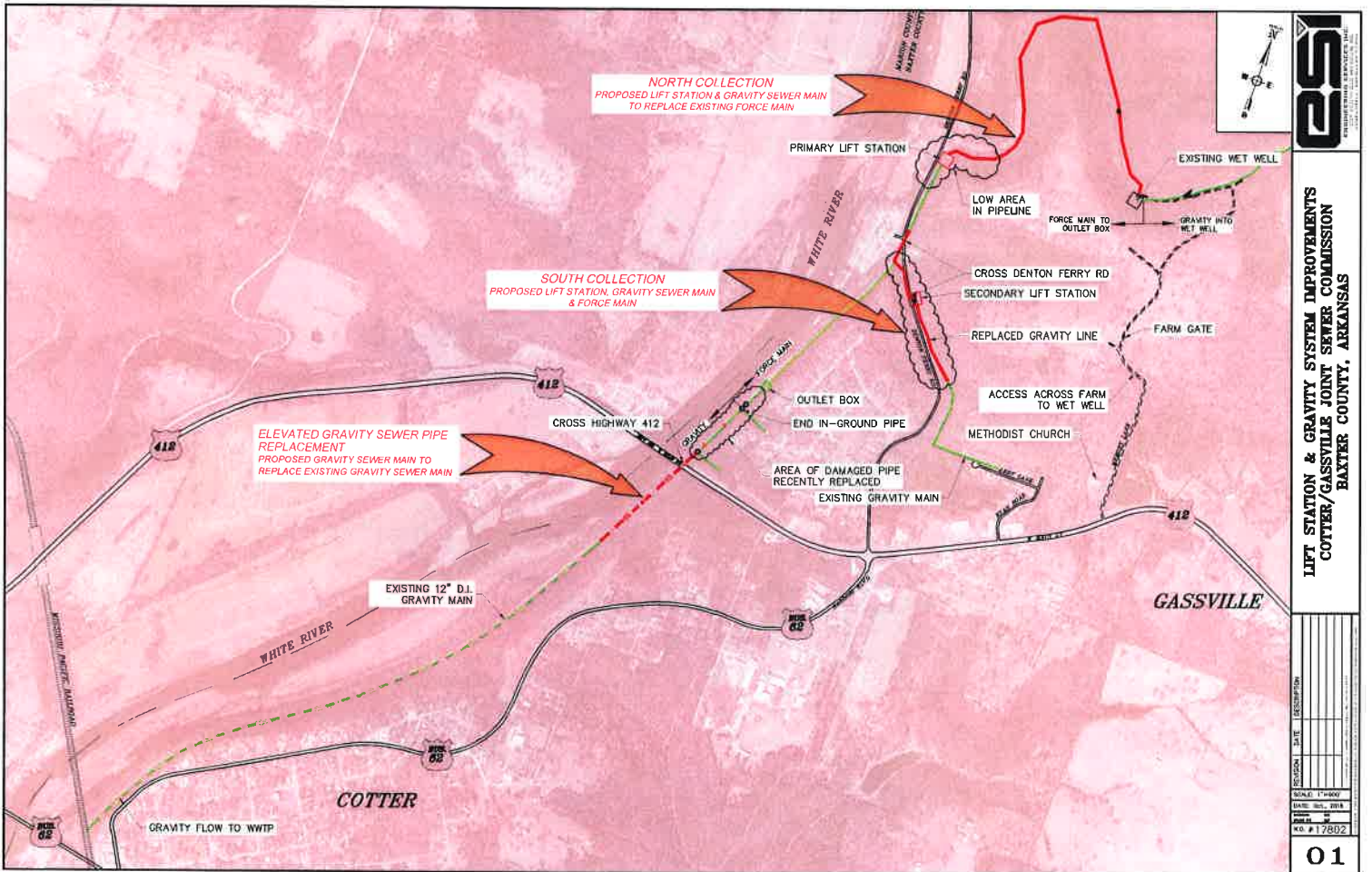
Sanitary Sewer Collection System Phase II Improvements  
City of Colter  
8-2023

Anticipated Budget Based on Low Bidder - NLS Construction, LLC							
Description	USDA Letter of Conditions	Base Bid	Base Bid Less Ded. Alt. No.1, No.2 & No.3	Emergency Improvements	Additional Critical Improvements (North Area)	Other Funding Sources (State or Private)	
12" ASTM D3034 SDR 26 PVC Gravity Sewer Main (0' - 8' Depth)	\$ -	\$ 410,850.00	\$ 410,850.00	\$ -	\$ 410,850.00	\$ -	
12" ASTM D3034 SDR 26 PVC Gravity Sewer Main (8' - 12' Depth)	\$ -	\$ 381,480.00	\$ 381,480.00	\$ -	\$ 381,480.00	\$ -	
12" ASTM D3034 SDR 26 PVC Gravity Sewer Main (12' - 16' Depth)	\$ -	\$ 46,200.00	\$ 46,200.00	\$ -	\$ 46,200.00	\$ -	
4' Diameter Cast-In-Place Concrete Manholes (0' - 8' Depth)	\$ -	\$ 84,000.00	\$ 84,000.00	\$ -	\$ 84,000.00	\$ -	
Extra Depth of 4' Diameter Cast-In-Place Concrete Manhole (8'+ Depth)	\$ -	\$ 8,000.00	\$ 8,000.00	\$ -	\$ 8,000.00	\$ -	
Creek Crossing with Steel Encasement	\$ -	\$ 235,000.00	\$ 235,000.00	\$ -	\$ 235,000.00	\$ -	
Primary Duplex Submersible Pump Lift Station	\$ -	\$ 700,000.00	\$ 700,000.00	\$ -	\$ 700,000.00	\$ -	
10" AWWA C900 DR 18 PVC Force Main	\$ -	\$ 91,000.00	\$ 91,000.00	\$ 60,000.00	\$ -	\$ -	
Denton Ferry Rd Crossing with Steel Encasement	\$ -	\$ 131,250.00	\$ 131,250.00	\$ 35,000.00	\$ -	\$ -	
Removal of Existing Wet Well and Manholes	\$ -	\$ 35,000.00	\$ 35,000.00	\$ -	\$ 35,000.00	\$ -	
Demolition of Existing Sewer Lines (complete removal)	\$ -	\$ 75,000.00	\$ -	\$ -	\$ 75,000.00	\$ -	
Pasture Restoration	\$ -	\$ 25,000.00	\$ 25,000.00	\$ -	\$ 25,000.00	\$ -	
<b>TOTAL "North Collection System"</b>		<b>\$ 2,222,780.00</b>	<b>\$ 2,147,780.00</b>	<b>\$ 95,000.00</b>	<b>\$ 2,000,530.00</b>	<b>\$ -</b>	
8" ASTM D3034 SDR 26 PVC Gravity Sewer Main (0' - 8' Depth)	\$ -	\$ 144,750.00	\$ -	\$ 7,500.00	\$ -	\$ 137,250.00	
4' Diameter Cast-In-Place Concrete Manholes (0' - 8' Depth)	\$ -	\$ 24,000.00	\$ -	\$ 4,000.00	\$ -	\$ 20,000.00	
Gravily Block Retaining Wall (Max Height 8')	\$ -	\$ 60,000.00	\$ -	\$ 60,000.00	\$ -	\$ -	
Secondary Duplex Submersible Pump Lift Station	\$ -	\$ 500,000.00	\$ -	\$ 500,000.00	\$ -	\$ -	
2" SDR 17 Class 250 PVC Force Main	\$ -	\$ 30,800.00	\$ -	\$ 30,800.00	\$ -	\$ -	
Paved Road Crossing with Steel Encasement (Bore)	\$ -	\$ 2,800.00	\$ -	\$ 2,600.00	\$ -	\$ -	
Gravel Road Crossing	\$ -	\$ 4,725.00	\$ -	\$ 4,725.00	\$ -	\$ -	
Gravel Driveway/Water Main Crossing with Steel Encasement (Bore)	\$ -	\$ 1,625.00	\$ -	\$ 1,625.00	\$ -	\$ -	
Yard Restoration	\$ -	\$ 2,100.00	\$ 1,995.00	\$ 2,100.00	\$ -	\$ -	
<b>TOTAL "South Collection System"</b>		<b>\$ 770,600.00</b>	<b>\$ 1,995.00</b>	<b>\$ 613,350.00</b>	<b>\$ -</b>	<b>\$ 157,250.00</b>	
12" Epoxy Coated Ductile Iron Elevated Gravity Sewer	\$ -	\$ 301,000.00	\$ 301,000.00	\$ 301,000.00	\$ -	\$ -	
8" Epoxy Coated Ductile Iron Elevated Gravity Sewer	\$ -	\$ 28,500.00	\$ 28,500.00	\$ 28,500.00	\$ -	\$ -	
Pump-Around System	\$ -	\$ 70,000.00	\$ 70,000.00	\$ 70,000.00	\$ -	\$ -	
Water-Tight Manhole Connection	\$ -	\$ 14,000.00	\$ 14,000.00	\$ 14,000.00	\$ -	\$ -	
Force Main Connection Vault	\$ -	\$ 35,000.00	\$ 35,000.00	\$ 35,000.00	\$ -	\$ -	
Adjustment/ Rehab of Existing Piers for Proper Grade/ Alignment	\$ -	\$ 25,500.00	\$ 25,500.00	\$ 25,500.00	\$ -	\$ -	
Closure of City Trail During Construction-Proper Signage and Safety Controls	\$ -	\$ 7,500.00	\$ 7,500.00	\$ 7,500.00	\$ -	\$ -	
Restoration of City Trail Upon Construction Completion	\$ -	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ -	\$ -	
<b>TOTAL "Elevated Gravity Sewer Pipe Replacement"</b>		<b>\$ 496,500.00</b>	<b>\$ 496,500.00</b>	<b>\$ 496,500.00</b>	<b>\$ -</b>	<b>\$ -</b>	
Rock Excavation	\$ -	\$ 1,700.00	\$ 1,425.00	\$ 150.00	\$ 1,370.00	\$ 180.00	
Ductile Iron Fittings	\$ -	\$ 20,000.00	\$ 19,100.00	\$ 9,860.00	\$ 10,140.00	\$ -	
Erosion Control and Mitigation	\$ -	\$ 40,000.00	\$ 40,000.00	\$ 40,000.00	\$ -	\$ -	
One-Year Maintenance Bond	\$ -	\$ 100,000.00	\$ 100,000.00	\$ 100,000.00	\$ -	\$ -	
OSHA's Standard for Excavation and Trench Safety System	\$ -	\$ 75,000.00	\$ 75,000.00	\$ 75,000.00	\$ -	\$ -	
Abandonment of Existing Sewer Lines (Groul Lines)	\$ -	\$ -	\$ 50,000.00	\$ -	\$ -	\$ -	
<b>TOTAL "General"</b>		<b>\$ 236,700.00</b>	<b>\$ 285,525.00</b>	<b>\$ 225,010.00</b>	<b>\$ 11,510.00</b>	<b>\$ 180.00</b>	
<b>SUBTOTAL CONSTRUCTION COSTS</b>	<b>\$ 1,649,100.00</b>	<b>\$ 3,728,580.00</b>	<b>\$ 2,931,800.00</b>	<b>\$ 1,428,860.00</b>	<b>\$ 2,012,040.00</b>	<b>\$ 157,430.00</b>	
Contingency	\$ 164,210.00	\$ 372,658.00	\$ 293,180.00	\$ 320,200.00	\$ 201,204.00	\$ 15,743.00	
<b>TOTAL CONSTRUCTION</b>	<b>\$ 1,813,310.00</b>	<b>\$ 4,099,238.00</b>	<b>\$ 3,224,980.00</b>	<b>\$ 1,750,060.00</b>	<b>\$ 2,213,244.00</b>	<b>\$ 173,173.00</b>	
Basic Engineering Services (LS)	\$ 193,928.00	\$ 193,928.00	\$ 193,928.00	\$ 193,928.00	\$ - **	\$ -	
Construction Observation (LS)	\$ 65,964.00	\$ 65,964.00	\$ 65,964.00	\$ 65,964.00	\$ - **	\$ -	
Legal Fees - Interim Construction Loan	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ 4,000.00	\$ -	
Legal Fees - RD Loan	\$ 17,700.00	\$ 17,700.00	\$ 17,700.00	\$ 17,700.00	\$ 17,700.00	\$ -	
Land & Rights	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ 15,000.00	\$ -	
Cultural Resources Survey	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00	\$ 20,000.00	\$ -	\$ -	
Permits	\$ 7,500.00	\$ 7,500.00	\$ 7,500.00	\$ 7,500.00	\$ -	\$ -	
Interest - Interim Financing	\$ 32,598.00	\$ 32,598.00	\$ 32,598.00	\$ 32,598.00	\$ -	\$ -	
Construction Monitoring	\$ -	\$ 63,250.00	\$ 63,250.00	\$ 63,250.00	\$ -	\$ -	
<b>TOTAL PROJECT COST</b>	<b>\$ 2,170,000.00</b>	<b>\$ 4,519,178.00</b>	<b>\$ 3,644,920.00</b>	<b>\$ 2,170,000.00</b>	<b>\$ 2,234,944.00</b>	<b>\$ 173,173.00</b>	
<b>USDA FUNDING</b>	<b>\$ 2,170,000.00</b>	<b>\$ 2,170,000.00</b>	<b>\$ 2,170,000.00</b>	<b>\$ 2,170,000.00</b>	<b>\$ 2,234,944.00</b>	<b>\$ -</b>	
<b>STATE OR PRIVATE FUNDING</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ 173,173.00</b>	
<b>DEFICIT</b>	<b>\$ -</b>	<b>\$ 2,349,178.00</b>	<b>\$ 1,474,920.00</b>	<b>\$ -</b>	<b>\$ -</b>	<b>\$ -</b>	

\* The "Emergency Improvements" option includes replacing the 10" AWWA C900 DR 18 PVC Force Main with 10" HDPE DR 9 and installing 600 L.F. of this pipe at \$100.00 per L.F. as well as crossing approximately 100 L.F. of Denton Ferry Road with a slick bore at \$350.00 per L.F. in lieu of a steel encasement.

\*\* If BABAA is required by USDA, additional Engineering Fees will be applied.

ORIGINAL



**LIFT STATION & GRAVITY SYSTEM IMPROVEMENTS  
COTTER/GASSVILLE JOINT SEWER COMMISSION  
BAXTER COUNTY, ARKANSAS**

REVISION	DATE	DESCRIPTION

**01**

**ORIGINAL**