



City of Bentonville
Bentonville Utility Board Meeting
Tuesday, August 15th – 11:30 am
Bentonville City Hall 305 SW “A” St.
City Council Chambers

AGENDA

Call to Order
Pledge of Allegiance
Attendance
Approval of Minutes: August 1st, 2023

New Business

1. Resolution – Electric Material IFB 23-51 – Travis Matlock, PE (pages 2-5)
2. Resolution – Electric Wire IFB 23-52 – Travis Matlock, PE (pages 6-7)
3. Ordinance – Electric Transformers – Travis Matlock, PE (pages 8-9)
4. Bid Waiver – Eaton Electric Meters – Travis Matlock, PE (pages 10 – 11)
5. Budget Adjustment – Electric Dept. OT reconciliation – Travis Matlock, PE (page 12-15)
6. Resolution – Hawkins-Weir Contract Amendment – Chris Earl (pages 16-25)
7. Resolution – Olsson Amendment – Sewer Collection System – Preston Newbill (pages 26-45)
8. Adjournment



City of Bentonville, Arkansas Agenda Item Form

Item Details

Council Meeting Date:		Submitted By:	
Phone:		For Department(s):	
Email:			

Item Type (Check all that apply)

Informational	Bid Award	Enter into an Agreement	Change Order
Recognizing Funds	Budget Adjustment	Waiver of Bid	Emergency Clause
Ordinance	Resolution		Informational

Title, Recommendation & Justification

Title:	
Action Recommendation & Justification:	
Additional Comments for Consideration (Optional):	

Amount for Approval:	\$
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Budget Impact

Is this Item Budgeted? YES NO ITEM HAS NO COST OTHER: _____

Budget Adjustment (to be completed by Finance when applicable)

Account Number (ORG-OBJECT)	Account Description	\$	\$
		Expense	Revenue
Account Number (ORG-OBJECT)	Account Description	\$	\$
		Expense	Revenue
Account Number (ORG-OBJECT)	Account Description	\$	\$
		Expense	Revenue
Account Number (ORG-OBJECT)	Account Description	\$	\$
		Expense	Revenue

Fund(s) Impacted

(check all that apply)

General Fund

Utility Fund

Street Fund

Other(s): _____

Budget Impact Notes for Consideration (Optional):

City of Bentonville, Arkansas

City Hall

305 SW A Street Bentonville, AR 72712

www.bentonvillear.com

Please Recycle!

ITEM	QNTY	UNIT	PART NO.	DESCRIPTION	Irby Unit Cost	Techline Unit Cost	AECI unit cost	Wesco unit cost	Irby low total	techline low total	AECI low total	Wesco low total
1	100	EA	1022	ARM 3-5/8" X 4-5/8" X 10' -WOOD- TYPE 5 REA SPEC HUGHES BROS. BROOKS	\$129.23	\$87.34	\$123.00	\$119.09		\$8,734.00		
2	40	EA	1473	ENCLOSURE BURIAL CONCAST FIBERCRETE BOX PAD 1-PH FC39-75-36-3PH	\$719.35	\$707.71	\$772.52	\$777.56		\$28,308.40		
3	40	EA	1470	ENCLOSURE BURIAL CONCAST FIBERCRETE MOUNTING PAD 200 AMP 3PH LID FC-37-73-2-3PH-1	\$570.00	\$559.84	\$572.40	\$599.36		\$22,393.60		
4	20	EA	1465	ENCLOSURE 3-PH 15KV 14GA STEEL DURHAM #AMSPR32127-D	\$1,033.00	\$993.59	\$979.00	\$1,231.62		\$19,580.00		
5	100	EA	1466	ENCLOSURE BENTONVILLE GRAPHICS, DARK GREEN ELECTRICAL PEDESTAL, 2" PENTA CUP ASSBLY, 2 DOORS 1)BACK/LOW/RT 1)BACK/LOW/LEFT, 3-6350 CONNECTORS & PLASTIC COVERS, W/GROUNDWIRE #API- 10X14WBT-DCG	\$229.34	\$224.45		\$270.51		\$22,445.00		
6	200	EA	2074	TRANSFORMER PAD WAGNER #F4242- 32CL1328T	\$134.00	\$135.45	\$139.96	\$164.10	\$26,800.00			
7	40	EA	2075	TRANSFORMER PAD DIVERSITECH #F4848- 4CSL-1228T	\$172.00	\$173.54	\$175.48	\$210.26	\$6,880.00			
8	240	EA	1627	INSULATOR PIN F-NECK 6183R-70 OR GAMMA #PT8196GR OR EQUAL TO	\$4.97	\$4.28	\$6.95	\$4.56		\$1,027.20		
9	300	EA	1634	INSULATOR SUSPEN. DEADEND OHIO BRASS #401015-0215	\$15.84	\$17.18	\$19.95	\$21.91	\$4,752.00			
10	100	EA	1711	PIN SADDLE CHANCE 14322 OR MACLEAN J3322Z	\$23.01	\$32.52	\$37.95	\$34.81	\$2,301.00			
11	100	EA	1788	SINGLE POINT RACK J1300 OR HUBBELL #0327	\$14.51	\$10.71	\$12.75	\$11.99		\$1,071.00		

12	36	EA	1894	SUPPORT BRACKET CABLE POSITIONER HUBBELL CC5820 FOR 0.75-3" CABLE	\$42.57	\$34.34	\$48.95	\$50.74
13	200	EA	1042	ARRESTOR LIGHTNING SURGE 10KV COOPER #UNS10050A1A1B1A	\$49.03		\$47.60	\$52.99
14	300	EA	1154	CAP PROTECTIVE INSULATED WITH GROUND ELASTIMOLD #167-DRG	\$43.77			\$55.01
15	500	EA	1519	FUSE 600V MIDGET 20 AMP ATM-20	\$18.25			\$30.24
16	60	EA	1524	FUSE CUTOUT 100 AMP POLYMER - MPS #SC15-H-G-1-10-B-D90	\$139.78	\$160.49	\$162.00	\$166.67
17	200	EA	1499	FAULT INDICATOR UNDERGROUND LOAD LM #29-6114-OF8	\$230.79	\$233.55	\$222.89	\$275.51
18	200	EA	1488	EQUIPMENT MOUNT FIBERGLASS FUSE CUTOUT MACLEAN #G3MA024818DDB	\$206.34	\$334.28	\$234.00	\$348.97
19	40	EA	1118	EQUIPMENT MOUNT FIBERGLASS T- BRACKET MACLEAN #G1MA0118DDB	\$53.33	\$107.33	\$68.00	\$75.96
20	300	EA	1370	CONDUIT STANDOFF BRKT 12" ALUMAFORM 9-CSO-12-4WT (NO SUB)	\$64.51	\$49.09	\$54.45	\$56.62
21	175	EA	1595	GUY GUARD PLASTIC 8' #70-7Y OR PREFORMED PGMS3921	\$2.85		\$3.94	\$4.06
22	100	EA	1528	FUSE LINK/CUTOUT S&C 265100	\$13.45	\$19.8800		\$13.94
23	100	EA	1538	FUSE LINK/CUTOUT S&C 40A 64040	\$7.62	\$11.2600		\$13.94
24	375	EA	1589	GROUND WIRE MOLDING, PLASTIC MACLEAN #PM128	\$4.11		\$4.30	\$8.62
25	160	EA	2208	WOOD BRACE 60" J4760-R (SOLD IN PAIRS)	\$26.07	\$25.08	\$29.55	\$31.48

\$1,236.24

\$9,520.00

\$13,131.00

\$9,125.00

\$8,386.80

\$44,578.00

\$41,268.00

\$2,133.20

\$14,727.00

\$498.75

\$1,345.00

\$762.00

\$1,541.25

\$4,012.80



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Informational	Bid Award	Enter into an Agreement	Change Order
Recognizing Funds	Budget Adjustment	Waiver of Bid	Emergency Clause
Ordinance	Resolution	Informational	

Title, Recommendation & Justification

Title:	
Action Recommendation & Justification:	
Additional Comments for Consideration (Optional):	

Amount for Approval:	\$
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Budget Impact

Is this Item Budgeted? YES NO ITEM HAS NO COST OTHER: _____

Budget Adjustment (to be completed by Finance when applicable)

Account Number (ORG-OBJECT)	Account Description	\$	Expense	\$	Revenue
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Account Number (ORG-OBJECT)	Account Description	\$	Expense	\$	Revenue

Fund(s) Impacted

(check all that apply)

General Fund

Utility Fund

Street Fund

Other(s): _____

Budget Impact Notes for Consideration (Optional):



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Is this Item Budgeted? **YES** **NO** **ITEM HAS NO COST** **OTHER:** _____

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Fund(s) Impacted

(check all that apply)

General Fund

Utility Fund

Street Fund

Other(s): _____

Budget Impact Notes for Consideration (Optional):



**City of Bentonville Electric Utilities Department
Three Phase Pad-Mount Distribution Transformers
Bid Form**

<u>Line Item Number</u>	<u>BEUD Inventory Part Number</u>	<u>KVA</u>	<u>Voltage</u>	<u>QTY</u>	<u>Price Each - AECI</u>	<u>Price Each - Techline</u>	<u>Price Each - Irby</u>	Low Bid AECI
1	2044	75	120/208	1	\$14,083.00	\$18,101.00	\$21,019.00	\$14,083.00
2	2011	150	120/208	2	\$16,978.00	\$23,918.00	\$25,940.00	\$33,956.00
3	2030	300	120/208	4	\$22,127.00	\$34,368.00	\$34,572.00	\$88,508.00
4	2039	500	277/480	2	\$27,608.00	\$424,030.00	\$407,640.00	\$55,216.00
5	2047	750	277/480	2	\$34,692.00	\$60,617.00		\$69,384.00
								\$261,147.00



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Fund(s) Impacted

(check all that apply)

General Fund

Utility Fund

Street Fund

Other(s): _____

Budget Impact Notes for Consideration (Optional):

NEW ELECTRIC <u>METERS</u> FOR PURCHASE	Meter ANSI Form	Each
RFN-420cD Itron Centron II C2SXD - FM1S CL200 120V with Integrated RF Node (Non-disconnect RFN-410cL Price: \$159)	Single phase 1S	\$ 240
RFN-420cD Itron Centron II C2SXD - FM2S CL200 240V with Integrated RF Node - NOTE: This line item price is based on the quantity requested and is based on a minimum order quantity of 25,000 units. (Non-disconnect RFN-410cL Price: \$97)	Single phase 2S	\$ 129
RFN-410cL Itron Centron C1SX - FM3S CL20 120/240V with Integrated RF Node	Single phase 3S	\$ 159
RFN-410cL Itron Centron C1SX - FM4S CL20 240V with Integrated RF Node	Single phase 4S	\$ 159
RFN-430A3 Honeywell Elster A3 ALPHA (TOU Enabled) - FM5/35S CL20 120-480V with Integrated RF Node	Form 5S	\$ 340
Upgrade to go to RFN-520fAXD Landis+Gyr FOCUS AXe-SD - FM2S CL320 240V with Integrated RF Node (\$358 total) (Non-disconnect RFN-410cL 2S CL320 Price: \$159)	320amp under glass service disconnect adder	\$ 199
RFN-430A3 Honeywell Elster A3 ALPHA (TOU Enabled) - FM8/9S CL20 120-480V with Integrated RF Node	Polyphase - 9S/8S	\$ 340
RFN-430A3 Honeywell Elster A3 ALPHA (TOU Enabled) - FM14/15/16S CL200 120-480V with Integrated RF Node	Polyphase - 16S/15S	\$ 340
RFN-430A3 Honeywell Elster A3 ALPHA (TOU Enabled) - FM14/15/16S CL320 120-480V with Integrated RF Node	Polyphase - 16SE	\$ 367
RFN-430A3 Honeywell Elster A3 ALPHA (TOU Enabled) - FM12S CL200 120-480V with Integrated RF Node	Polyphase - 12S	\$ 340
RFN-430A3 Honeywell Elster A3 ALPHA (TOU Enabled) - FM12S CL320 120-480V with Integrated RF Node	Form 12SE	\$ 367
RFN-430A3 Honeywell Elster A3 ALPHA (TOU Enabled) - FM45S CL20 120-480V with Integrated RF Node	Polyphase - 45S/5S	\$ 340



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Title, Recommendation & Justification

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Account Number (ORG-OBJECT)	Account Description	\$	\$
Account Number (ORG-OBJECT)	Account Description	\$	\$
Account Number (ORG-OBJECT)	Account Description	\$	\$
Account Number (ORG-OBJECT)	Account Description	\$	\$

Fund(s) Impacted

(check all that apply)

General Fund

Utility Fund

Street Fund

Other(s): _____

Budget Impact Notes for Consideration (Optional):

**Bentonville Electric Utilities Department**

3200 SW Municipal Drive

Bentonville, AR 72712

Phone: (479) 271-3135 Fax: (479) 271-5994

Bill to: City of North Little Rock

Date: 5/18/2023

Electric Dept.

Work Request Number: 1071472

1400 W. Maryland Ave.

North Little Rock, AR 72120

Project Description

Storm assistance, April 2023, FEMA#994

Labor

Classification	Hours	Hourly Rate	Total
Assistant Manager	1.00	85.17	\$85.17
Administrative Assistant II	1.00	31.99	\$31.99
First Class Powerline Electrician -Regular	184.00	67.84	\$12,481.72
Electric Crew Leader -Regular	48.00	71.84	\$3,448.22
Field Supervisor -Regular	40.00	75.83	\$3,033.03
First Class Powerline Electrician -Overtime	376.00	101.75	\$38,259.17
Electric Crew Leader -Overtime	104.00	107.76	\$11,206.73
Field Supervisor - Overtime	64.00	113.74	\$7,279.27
Subtotal: Labor			\$75,825.29

Equipment

Equipment Type	Hours	Hourly Rate	Total
1 ton Pickup FEMA Code 8802	256	\$16.81	\$4,303.36
Digger Truck FEMA Code 8670 & 8702	152	\$65.46	\$9,949.92
Large Bucket Truck FEMA Code 8487 & 8702	304	\$50.26	\$15,279.04
Trailers FEMA Code 8600	136	\$16.99	\$2,310.64
Backyard Machine FEMA Code 8063	96	\$35.68	\$3,425.28
Subtotal: Equipment			\$35,268.24

Meals

Meals	Quantity	Unit	Cost	Total
Coltons Steak House	1	Receipt	\$145.85	\$145.85
Walmart Drinks	1	Receipt	\$33.13	\$33.13
Casey's GS Drinks	1	Receipt	\$26.19	\$26.19
Chick-Fil-A Food	1	Receipt	\$50.57	\$50.57
Casey's GS Drinks	1	Receipt	\$26.20	\$26.20
Taco Bell Food	1	Receipt	\$19.67	\$19.67
Taco Bell Food	1	Receipt	\$51.68	\$51.68
Walmart Food/Drink	1	Receipt	\$40.47	\$40.47
Walmart Food/Drink	1	Receipt	\$42.16	\$42.16
Casey's GS Drinks	1	Receipt	\$19.65	\$19.65
Senor Tequila Sherwood	1	Receipt	\$88.21	\$88.21
Senor Tequila NLR	1	Receipt	\$121.60	\$121.60
Chinese Pavilion	1	Receipt	\$75.55	\$75.55
Subtotal: Meals				\$740.93

Materials

Materials	Quantity	Unit	Cost	Total
50' Class 3 Poles	9	EA	\$535.04	\$4,815.32
Walmart Batteries	1	Receipt	\$55.77	\$55.77
Napa Hyd Hose	1	Receipt	\$272.67	\$272.67
O Reilly Fluids	1	Receipt	\$190.99	\$190.99
Bumper to Bumper Battery	1	Receipt	\$299.62	\$299.62
Walmart Flat Fix	1	Receipt	\$9.44	\$9.44
Walmart Sunscreen	1	Receipt	\$20.63	\$20.63
Southern Tire Mart	1	Receipt	\$848.83	\$848.83
Fuel	1	Total	\$622.53	\$622.53

Subtotal: Materials \$7,135.80

20 % INVENTORY FEE \$963.06

Total: \$119,933.32

Authorized Signature: 

Date: 6-5-23

Rev: 2022

**Bentonville Electric Utilities Department**

3200 SW Municipal Drive

Bentonville, AR 72712

Phone: (479) 271-3135 Fax: (479) 271-5994

SS ✓

Bill to:

Date: 6/30/2023

Conway Corp. ATTN: Robert Meek

Reference Number: 23-091-1

600 Harkrider Street

Conway, AR 72032

501-764-6883

robert.meek@conwaycorp.com**Project Description**

Storm assistance, June 26-29 2023

Labor

Classification	Hours	Hourly Rate	Total
Assistant Manager	1.00	85.17	\$85.17
Administrative Assistant II	1.00	31.99	\$31.99
First Class Powerline Electrician -Regular	120.00	67.84	\$8,140.25
First Class Powerline Electrician -Overtime	72.00	101.75	\$7,326.22
Apprentice PLE 3 -Regular	40.00	40.11	\$1,604.40
Apprentice PLE 3 -Overtime	24.00	60.16	\$1,443.84
Field Supervisor -Regular	40.00	75.83	\$3,033.03
Field Supervisor - Overtime	24.00	113.74	\$2,729.72
Subtotal: Labor			\$24,394.63

Equipment

Equipment Type	Hours	Hourly Rate	Total
1 ton Pickup FEMA Code 8802	128	\$16.81	\$2,151.68
Digger Truck FEMA Code 8670 & 8702	64	\$65.46	\$4,189.44
Large Bucket Truck FEMA Code 8487 & 8702	128	\$50.26	\$6,433.28
Subtotal: Equipment			\$12,774.40

Fuel

Fuel	Quantity	Unit	Cost	Total
TOBO 66 Truck 301089	1	Receipt	\$145.55	\$145.55
TOBO 66 Truck 301080	1	Receipt	\$72.84	\$72.84
Subtotal: Fuel				\$218.39

Materials

Materials	Quantity	Unit	Cost	Total
NA				\$0.00
Subtotal: Materials				\$0.00
20 % INVENTORY FEE				\$0.00
Total:				\$37,387.42

Authorized Signature: 

Date: 6-30-23

Rev: 2022

**Bentonville Electric Utilities Department**

3200 SW Municipal Drive

Bentonville, AR 72712

Phone: (479) 271-3135 Fax: (479) 271-5994

SSV

Bill to:**Date:** 7/12/2023

North Little Rock - Electric Dept.

Reference Number: 1058

1400 W. Maryland Ave.

North Little Rock, AR 72120

Project Description

Storm assistance of 5 crew members and 4 vehicles, June 26th-29th 2023

Labor

Classification	Hours	Hourly Rate	Total
Assistant Manager	1.00	85.17	\$85.17
Administrative Assistant II	1.00	31.99	\$31.99
First Class Powerline Electrician -Regular	120.00	67.84	\$8,140.25
First Class Powerline Electrician -Overtime	120.00	101.75	\$12,210.37
Apprentice PLE 3 -Regular	40.00	40.11	\$1,604.40
Apprentice PLE 3 -Overtime	40.00	60.16	\$2,406.40
Electric Crew Leader -Regular	40.00	71.84	\$2,873.52
Electric Crew Leader -Overtime	40.00	107.76	\$4,310.28
Subtotal: Labor			\$31,662.38

Equipment

Equipment Type	Hours	Hourly Rate	Total
1 ton Pickup FEMA Code 8802	80	\$16.81	\$1,344.80
Digger Truck FEMA Code 8670 & 8702	80	\$65.46	\$5,236.80
Large Bucket Truck FEMA Code 8487 & 8702	160	\$50.26	\$8,041.60
Subtotal: Equipment			\$14,623.20

Fuel

Fuel	Quantity	Unit	Cost	Total
Murphy USA Truck 301083	1	Receipt	\$76.14	\$76.14
Hilltop Travel Center Truck 301083	1	Receipt	\$121.20	\$121.20
Murphy USA Truck 301067	1	Receipt	\$57.57	\$57.57
Hilltop Travel Center Truck 301067	1	Receipt	\$87.13	\$87.13
Murphy USA Truck 301046	1	Receipt	\$62.37	\$62.37
Hilltop Travel Center Truck 301046	1	Receipt	\$90.67	\$90.67
Subtotal: Fuel				\$495.08

Meals

Meals	Quantity	Unit	Cost	Total
Food & Beverage w/ receipts attached	1	Receipts	\$754.07	\$754.07
Subtotal: Materials				\$754.07
20 % INVENTORY FEE				
Total:				\$47,534.73

Authorized Signature: 

Date: 7-12-23

Rev: 2022



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Amount for Approval:	\$
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Budget Impact

Is this Item Budgeted? **YES** **NO** **ITEM HAS NO COST** **OTHER:** _____

Budget Adjustment (to be completed by Finance when applicable)

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Fund(s) Impacted

(check all that apply)

General Fund

Utility Fund

Street Fund

Other(s): _____

Budget Impact Notes for Consideration (Optional):

CITY OF BENTONVILLE, ARKANSAS
AMENDMENT NUMBER 2
To A
PROFESSIONAL SERVICES AGREEMENT
With
HAWKINS-WEIR ENGINEERS, INC.
VAN BUREN, ARKANSAS

In accordance with the PROFESSIONAL SERVICES AGREEMENT for the **Feasibility Study to Address Capacity/Growth for Wastewater Treatment, HWEI Project No. 2021037**, dated August 13, 2021, between the City of Bentonville, Arkansas (hereinafter called **Owner**) and Hawkins-Weir Engineers, Inc. (hereinafter called **Engineer**), Owner hereby authorizes Engineer to proceed with the following additional services:

ARTICLE II – SCOPE OF SERVICES

A. Amendment No. 2 defines additional professional engineering services associated with project funding assistance, and preliminary and final design phase services. Refer to the attached Amendment No. 2 APPENDIX A for a more detailed description of the scope of these additional services.

ARTICLE V – SCHEDULE OF FEES, SERVICES AND PAYMENT

B. Owner shall compensate Engineer for providing the services set forth herein in accordance with the terms of the Agreement. Total compensation shall be increased with this Amendment by a Lump Sum Fee of **Six Million One Hundred Sixty-Three Thousand Six Hundred and 00/100 Dollars (\$6,163,600.00)**. The total compensation from the original AGREEMENT and Amendment No. 1, plus Amendment No. 2 described herein shall not exceed **Six Million Five Hundred Seven Thousand and 00/100 Dollars (\$6,507,000.00)** without written approval of Owner. Refer to Amendment No. 2 APPENDIX C for a Lump Sum Fee Proposal Summary for these additional services.

ENGINEER:
HAWKINS-WEIR ENGINEERS, INC.

OWNER:
CITY OF BENTONVILLE, ARKANSAS

By: _____
Brett D. Peters, P.E.
President & CEO

By: _____
Stephanie Orman
Mayor

Date: _____

Date: _____



Amendment No. 2
Appendix A – Scope of Services
Feasibility Study to Address Capacity/Growth
For Wastewater Treatment
Bentonville, Arkansas
HWEI Project No. 2021037
August 2, 2023



Engineer shall provide Basic Services as set forth below:

A. Task 1 – Project Funding Assistance

1. Prepare and submit a pre-application to the Arkansas Water and Wastewater Advisory Committee (AWWAC)
2. Prepare and Submit an Application to the Arkansas Department of Agriculture Natural Resources Division (NRD) to add the project to the Priority Project List
3. Prepare and submit an application to the NRD for a State Water Plan Compliance Review
4. Prepare and Submit a Clean Water Revolving Loan Fund Application
 - a. Coordinate with the City of Bentonville to assemble the required documentation
5. Virtually attend a maximum of two (2) Arkansas Natural Resources Commission Meetings and respond to any questions
6. Review Memorandum of Agreement and provide comments to the City of Bentonville

B. Task 2 – Preliminary Design Phase

1. Additional Field Survey, including Drone Survey
2. Develop REVIT Base Drawings for Existing Facilities
3. Development/Confirmation of the Hydraulic Profile
4. Development of the Design Basis Memorandum

C. Task 3 – Final Design Phase

1. Prepare 60%, 90%, and 90% Design Documents (Plans and Specifications), including Workshops with the Owner and CMAR Coordination, for the following Final Design Phase Sub-Tasks:
 - a. Site Layout and Grading, including the Preparation of the Storm Water Pollution Prevention Plan (SWPPP)
 - b. Site Drainage Improvements
 - c. Site Paving
 - d. Demolition Plans
 - e. Headworks
 - f. Headworks Electrical Building
 - g. Flow Diversion Distribution Box
 - h. Alum Chemical Feed System Improvements
 - i. Anoxic Basin Expansion and Modifications
 - j. Aeration Basin Improvements
 - k. Surface Wasting Improvements
 - l. Secondary Clarifier Distribution Box Improvements
 - m. Secondary Clarifier No. 1 Replacement
 - n. Secondary Clarifier No. 2 Improvements
 - o. Secondary Clarifier No. 3
 - p. RAS Pump Station Improvements
 - q. RAS Pump Station No. 2



**Amendment No. 2
Appendix A – Scope of Services
Feasibility Study to Address Capacity/Growth
For Wastewater Treatment
Bentonville, Arkansas
HWEI Project No. 2021037
August 2, 2023**



- r. Tertiary Filters
- s. Dual Use Filtration Improvements
- t. UV Disinfection System
- u. Post-Aeration Basins
- v. Post-Aeration Blower Building
- w. Effluent Pump Station
- x. WAS Pump Station Improvements
- y. Electrical Building
- z. Plant Water System Improvements
- aa. Digester Valve Vaults
- bb. Administration/Laboratory Building Expansion
- cc. Maintenance Building Relocation
- dd. Vehicle Storage Building
- ee. Equipment Storage Building
- ff. Secondary Access to the Bentonville WRRF site
- 2. Quality Assurance/Quality Control (QAQC) Review
- 3. Regulatory Permitting
- 4. City Planning/Permitting

Amendment No. 2
Appendix A - Scope of Services
Feasibility Study to Address Capacity/Growth
for Wastewater Treatment
Bentonville, Arkansas
HWEI Project No. 2021037
August 2, 2023

Process Unit/Facility	Design Specialty										
	Civil	Process Mechanical	Odor Control	Structural	Geotechnical	Lead Paint and Asbestos	Electrical	Instrumentation	Architectural	Mechanical	
										HVAC	Plumbing
Hydraulic Profile	HW										
Design Basis Memorandum	HW	HW									
Permitting	HW	HW							mahg		
Site Design	HW			HW			HW				
Drainage/Floodway	HW										
Site Paving	HW				GTS, Inc.						
Demolition	HW	HW		HW		SCI	HW		mahg		
Headworks	HW	HW		HW	GTS, Inc.		HW	HW	mahg		
Headworks Electrical Building				HW			HW		mahg		
Flow Diversion Distribution Box	HW	HW		HW	GTS, Inc.		HW				
Alum Chemical Feed System	HW	HW		HW			HW				
Anoxic Basins	HW	HW		HW	GTS, Inc.		HW	HW			
Aeration Basins	HW	HW		HW			HW	HW			
Surface Wasting Improvements	HW	HW		HW	GTS, Inc.		HW	HW			
Secondary Clarifier Distribution Box	HW	HW		HW	GTS, Inc.						
Secondary Clarifier No. 1	HW	HW		HW	GTS, Inc.		HW				
Secondary Clarifier No. 2	HW	HW		HW							
Secondary Clarifier No. 3	HW	HW		HW	GTS, Inc.		HW				
RAS Pump Station Improvements		HW									
RAS Pump Station No. 2	HW	HW		HW	GTS, Inc.		HW	HW			
Tertiary Filters	HW	HW		HW	GTS, Inc.		HW	HW			
Dual Use Filtration	HW	HW		HW			HW	HW			
UV Disinfection	HW	HW		HW	GTS, Inc.		HW	HW			
Post-Aeration Basins	HW	HW		HW	GTS, Inc.		HW	HW			
Blower Building	HW	HW		HW			HW	HW	mahg		
Effluent Pump Station	HW	HW		HW	GTS, Inc.		HW	HW			
WAS Pump Station		HW		HW			HW	HW			
Electrical Building	HW	HW		HW	GTS, Inc.		HW	HW	mahg		
Plant Water System	HW	HW					HW	HW			
Digester Valve Vaults		HW		HW	GTS, Inc.						
Administration/Laboratory Building	HW			HW	GTS, Inc.	SCI	HW		mahg		
Maintenance Building Relocation				HW		SCI	HW		mahg		
Vehicle Storage Building	HW			HW	GTS, Inc.		HW		mahg		
Equipment Storage Building				HW	GTS, Inc.		HW		mahg		
Secondary WRRF Access	HW			HW							

Legend	
HW	Hawkins-Weir Engineers, Inc
	Black & Veatch
mahg	MAHG Architecture
GTS, Inc.	GTS, Inc.
SCI	Safety & Environmental Investigations, Inc

Appendix B

**Standard Billing Rate Structure
For Hourly Fee Based Contracts
Hawkins-Weir Engineers, Inc.
Effective through August 10, 2024⁽¹⁾**

Engineer

Engineer VIII	\$ 240 Per Hour
Engineer VII	\$ 220 Per Hour
Engineer VI	\$ 200 Per Hour
Engineer V	\$ 175 Per Hour
Engineer IV	\$ 150 Per Hour
Engineer III	\$ 130 Per Hour
Engineer II	\$ 115 Per Hour
Engineer I	\$ 100 Per Hour

Engineering Technician

Designer I	\$ 110 Per Hour
Technician IV	\$ 100 Per Hour
Technician III	\$ 85 Per Hour
Technician II	\$ 75 Per Hour
Technician I	\$ 65 Per Hour

Field Technician - Field Inspector

Resident Project Representative (RPR)	\$ 120 Per Hour
Construction Manager	\$ 100 Per Hour
Inspector II	\$ 85 Per Hour
Inspector I	\$ 75 Per Hour

Field Surveying

GPS Survey	\$ 175 Per Hour
Surveyor	\$ 125 Per Hour

Administrative

Business Manager	\$ 85 Per Hour
------------------	----------------

Expert Witness

Preparation	At Engineer's Hourly Rate
Testimony, less than 1/2 day	\$2,000
Testimony, per Day	\$4,000

Expenses **Reimbursable Expenses and upcharges are determined by the Client Agreement/Contract**

Subconsultants/Outside Services		
Express Delivery, Field Supplies, Testing, Review/Filing Fees and Advertising		
Travel:	Hotel and meals	Actual Cost
	Vehicle ⁽²⁾	\$0.655 per mile effective 1/1/23
Reproduction:	Outside printing service	Actual Cost
	In-house printing	
	Letter Copy - B&W	\$ 0.12 Per Copy
	Letter Copy - Color	\$ 0.75 Per Copy
	22 x 34 Size Copy - B&W	\$ 3.00 Per Copy
	22 x 34 Size Copy - Color	\$ 12.00 Per Copy
	22 x 34 Size Copy - Color Photo	\$ 25.00 Per Copy
	11 x 17 Size Copy - B&W	\$ 1.50 Per Copy
	11 x 17 Size Copy - Color	\$ 5.00 Per Copy
	CD Copy	\$ 5.00 Per Copy
	Binding	\$ 1.00 Each

(1) Billing Rates are reviewed and adjusted annually in August. Regardless, any adjustment in Billing Rates will not impact previously negotiated Not To Exceed (NTE) or Lump Sum fee amounts without a formal Contract Amendment.

(2) To be adjusted periodically to current IRS mileage rate.

All Billings are due upon receipt unless prior arrangements for payment have been made.



Amendment No. 2
Appendix C - Scope of Services and Fee Proposal Summary
Feasibility Study to Address Capacity/Growth
for Wastewater Treatment
Bentonville, Arkansas
HWEI Project No. 2021037
August 2, 2023



A. Task 1 - Project Funding Assistance Feasibility Study to Address Capacity/Growth for Wastewater Treatment

Task	Project Administration		Site Civil				Process Mechanical			Structural		Electrical/Instrumentation		Support Services		
	Engr VIII	Engr VI	Engr VI	Engr V	Engr IV	Engr III	Engr VIII	Engr VI	Eng IV	Engr VIII	Engr VI	Engr VII	Engr IV	GPS Survey	Tech IV	Tech I
1. Prepare and submit a pre-application to the Arkansas Water and Wastewater Advisory Committee (AWWAC)	4	8														
2. Prepare and Submit an Application to the Arkansas Department of Agriculture Natural Resources Division (NRD) to add the project to the Priority Project List	4	8														
3. Prepare and submit an application to the NRD for a State Water Plan Compliance Review	4	8														
4. Prepare and Submit a Clean Water Revolving Loan Fund Application	8	8													8	
a. Coordinate with the City of Bentonville to assemble the required documentation	8	8														
5. Virtually attend a maximum of two (2) Arkansas Natural Resources Commission Meetings and respond to any questions	4	4														
6. Review Memorandum of Agreement and provide comments to the City of Bentonville	8	4														
																\$20,000

B. Task 2 - Preliminary Design Phase Feasibility Study to Address Capacity/Growth for Wastewater Treatment

Task	Project Administration		Site Civil				Process Mechanical			Structural		Electrical/Instrumentation		Support Services		
	Engr VIII	Engr VI	Engr VI	Engr V	Engr IV	Engr III	Engr VIII	Engr VI	Eng IV	Engr VIII	Engr VI	Engr VII	Engr	GPS Survey	Tech IV	Tech I
1. Additional Field Survey, including Drone Survey														120		
2. Develop REVIT Base Drawings for Existing Facilities								40		40					320	
3. Development/Confirmation of the Hydraulic Profile			40		24			40	40						16	
4. Development of the Design Basis Memorandum							160	400	160						24	80
																\$247,800

C. Task 3 - Final Design Phase Feasibility Study to Address Capacity/Growth for Wastewater Treatment

Task	Project Administration		Site Civil				Process Mechanical			Structural		Electrical/Instrumentation		Support Services		
	Engr VIII	Engr VI	Engr VI	Engr V	Engr IV	Engr III	Engr VIII	Engr VI	Eng IV	Engr VIII	Engr VI	Engr VII	Engr IV	GPS Survey	Tech IV	Tech I
1. Prepare 60%, 90%, and 100% Design Documents (Plans and Specifications), including Workshops with the Owner and CMAR Coordination, for the following Final Design Phase Sub-Tasks:																
a. Site Layout and Grading, including the Preparation of the Storm Water Pollution Prevention Plan (SWPPP)			16	24	40	40				8	24	40	80	40	320	40
b. Site Drainage Improvements				24		40									40	16
c. Site Paving				80		40									40	8
d. Demolition Plans								40	40						40	16
e. Headworks			40	80	200	240	200	720	720	200	640	200	320		960	80
f. Headworks Electrical Building			8			40	8	80	40	24	80	240	360		80	40
g. Flow Diversion Distribution Box			8			16	8	40		8	40	8	16		40	8
h. Alum Chemical Feed System Improvements			8			16	8	40		8	16	8	24		24	8
i. Anoxic Basin Expansion and Modifications			8	40	80	16	8	40		80	240	40	160		160	8
j. Aeration Basin Improvements							8	24		8	16	16	40		80	8
k. Surface Wasting Improvements			8			24	8	40	40	16	40	8	24		40	8
l. Secondary Clarifier Distribution Box Improvements			8	8		24	8	24	8	24	40	8	16		80	8
m. Secondary Clarifier No. 1 Replacement			8	8		8	8	160	160	80	240	24	40		160	8
n. Secondary Clarifier No. 2 Improvements							16	80							16	8
o. Secondary Clarifier No. 3			16	16		80	40	160	160	80	240	40	80		160	16
p. RAS Pump Station Improvements							8	24	40	8	24	16	40		40	8
q. RAS Pump Station No. 2			8	16		24	8	40	160	16	40	16	40		80	16
r. Tertiary Filters			40	80	160	160	80	560	720	200	640	200	320		800	40
s. Dual Use Filtration Improvements			8			24	40	40	40		80	16	40		80	8
t. UV Disinfection System			8			24	40	80	80	40	160	40	160		120	16
u. Post-Aeration Basins			8			24	24	40	80	24	80	8	24		80	8
v. Post-Aeration Blower Building			8			40	8	40	40	24	80	40	120		80	8
w. Effluent Pump Station			24	40		80	40	240	320	80	240	80	160		160	40
w. WAS Pump Station Improvements							8	8	8	24		8	16		40	8
y. Electrical Building			8			40	8	40		24	40	200	360		80	40
z. Plant Water System Improvements			8	24		40	8	8	16						40	8
aa. Digester Valve Vaults							8	16	8	40	80	16	40		80	24
bb. Administration/Laboratory Building Expansion			8	16		24				24	80	40	80		40	24
cc. Maintenance Building Relocation			8	8		8				8	40	40	80		40	8
dd. Vehicle Storage Building			8	8		24		8		16	40	24	80		40	8
ee. Equipment Storage Building			8	8		24		8		16	40	24	80		40	8
ff. Secondary Access to the Bentonville WRRF site				40						40	80				80	
2. Quality Assurance/Quality Control (QAQC) Review	160	80														
3. Regulatory Permitting	24	24					80	200	160						40	24
4. City Planning/Permitting	16	16	40	80		40									40	24
																\$3,751,800



Amendment No. 2
Appendix C - Scope of Services and Fee Proposal Summary
Feasibility Study to Address Capacity/Growth
for Wastewater Treatment
Bentonville, Arkansas
HWEI Project No. 2021037
August 2, 2023



D. Reimbursable Expenses

Feasibility Study to Address Capacity/Growth for Wastewater Treatment

Item	Description	Total
1. Sub-Consultant Services		
a. Black & Veatch	Task 2 and 3 Services	\$1,540,000
b. Black & Veatch	Operability Workshop	\$44,200
c. MAHG Architecture	Architectural Services	\$200,000
d. GTS, Inc.	Geotechnical Investigation	\$52,000
e. FTN Associates, Ltd.	Floodplain & Wetlands Analysis	\$50,000
f. SEI	Lead Paint & Asbestos Survey	\$3,800
g. Environmental Services Company	Laboratory Testing Services - VFA, Calcium, and Magnesium	\$6,000
2. Permit Fees	Arkansas Department of Health Regulatory Review Fee; Arkansas Division of Environmental Quality - Storm Water Pollution Prevention Plan (SWPPP) Fee	\$1,000
3. Travel Related Expenses	Equipment/Plant Site Visits	\$10,000
4. Reproduction & Printing		\$12,000
5. Additional Errors & Omissions Insurance	\$6.0M in Coverage through 2028	\$225,000
Total Estimated Reimbursable Expenses		\$2,144,000

ENGINEERING SERVICES SUMMARY

Feasibility Study to Address Capacity/Growth for Wastewater Treatment

A. Task 1 - Project Funding Assistance	\$20,000
B. Task 2 - Preliminary Design Phase	\$247,800
C. Task 3 - Final Design Phase	\$3,751,800
D. Reimbursable Expenses	\$2,144,000
Total Engineering Fee - Lump Sum	\$6,163,600

ACORDTM**CERTIFICATE OF LIABILITY INSURANCE**

DATE (MM/DD/YYYY)

10/07/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must have **ADDITIONAL INSURED** provisions or be endorsed. If **SUBROGATION** IS **WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer any rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Greyling Ins. Brokerage/EPIC 3780 Mansell Rd. Suite 370 Alpharetta, GA 30022	CONTACT NAME: Trudy Henry PHONE (A/C, No, Ext): 770-552-4225 FAX (A/C, No): E-MAIL ADDRESS: ACECCertificates@greyling.com														
INSURED Hawkins-Weir Engineers, Inc. P.O. Box 648 Van Buren, AR 72957	<table border="1"> <thead> <tr> <th data-bbox="816 426 1433 451">INSURER(S) AFFORDING COVERAGE</th> <th data-bbox="1433 426 1563 451">NAIC #</th> </tr> </thead> <tbody> <tr> <td data-bbox="816 451 1433 478">INSURER A : Sentinel Insurance Company</td> <td data-bbox="1433 451 1563 478">11000</td> </tr> <tr> <td data-bbox="816 478 1433 506">INSURER B : Hartford Ins Co of the Midwest</td> <td data-bbox="1433 478 1563 506">37478</td> </tr> <tr> <td data-bbox="816 506 1433 533">INSURER C :</td> <td data-bbox="1433 506 1563 533"></td> </tr> <tr> <td data-bbox="816 533 1433 560">INSURER D :</td> <td data-bbox="1433 533 1563 560"></td> </tr> <tr> <td data-bbox="816 560 1433 588">INSURER E :</td> <td data-bbox="1433 560 1563 588"></td> </tr> <tr> <td data-bbox="816 588 1433 615">INSURER F :</td> <td data-bbox="1433 588 1563 615"></td> </tr> </tbody> </table>	INSURER(S) AFFORDING COVERAGE	NAIC #	INSURER A : Sentinel Insurance Company	11000	INSURER B : Hartford Ins Co of the Midwest	37478	INSURER C :		INSURER D :		INSURER E :		INSURER F :	
INSURER(S) AFFORDING COVERAGE	NAIC #														
INSURER A : Sentinel Insurance Company	11000														
INSURER B : Hartford Ins Co of the Midwest	37478														
INSURER C :															
INSURER D :															
INSURER E :															
INSURER F :															

COVERAGES**CERTIFICATE NUMBER: 22-23****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	☒ COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☒ OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☒ PRO-JECT ☐ LOC OTHER:			20SBWZM2676	11/01/2022	11/01/2023	EACH OCCURRENCE \$1,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$1,000,000 MED EXP (Any one person) \$10,000 PERSONAL & ADV INJURY \$1,000,000 GENERAL AGGREGATE \$2,000,000 PRODUCTS - COMP/OP AGG \$2,000,000 \$
A	AUTOMOBILE LIABILITY ☒ ANY AUTO OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ☒ HIRED AUTOS ONLY ☒ NON-OWNED AUTOS ONLY			20UEGNM6289	11/01/2022	11/01/2023	COMBINED SINGLE LIMIT (Ea accident) \$1,000,000 BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
A	☒ UMBRELLA LIAB ☒ OCCUR ☐ EXCESS LIAB ☐ CLAIMS-MADE ☐ DED ☒ RETENTION \$10000			20SBWZM2676	11/01/2022	11/01/2023	EACH OCCURRENCE \$2,000,000 AGGREGATE \$2,000,000 \$
B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE/OFFICER/MEMBER EXCLUDED? ☒ Y / ☒ N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below		N / A	20WEGPV0830	11/01/2022	11/01/2023	☒ PER STATUTE ☐ OTH-ER E.L. EACH ACCIDENT \$500,000 E.L. DISEASE - EA EMPLOYEE \$500,000 E.L. DISEASE - POLICY LIMIT \$500,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

Project# 2021037, Feasibility Study to Address Capacity/Growth for Wastewater Treatment City of Bentonville
 is named as an Additional Insured on the above referenced liability policies with the exception of workers compensation where required by written contract. Waiver of Subrogation is applicable where required by written contract & allowed by law.

CERTIFICATE HOLDER**CANCELLATION**

City of Bentonville
117 West Central Avenue
Bentonville, AR 72712-0000

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE



**CERTIFICATE OF LIABILITY INSURANCE**

DATE (MM/DD/YYYY)

7/12/2022

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must have ADDITIONAL INSURED provisions or be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER BXS Insurance PO Box 251510 Little Rock AR 72225-		CONTACT NAME: Zach Russenberger PHONE (A/C, No, Ext): 501-614-1150 E-MAIL ADDRESS: zach.russenberger@bxsi.com FAX (A/C, No): 501-614-1450	
		INSURER(S) AFFORDING COVERAGE	
		INSURER A: Hartford Fire Insurance Company	
		INSURER B:	
		INSURER C:	
		INSURER D:	
		INSURER E:	
		INSURER F:	

COVERAGES**CERTIFICATE NUMBER:** 432856873**REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY ☐ CLAIMS-MADE ☐ OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: ☐ POLICY ☐ PRO-JECT ☐ LOC ☐ OTHER:						EACH OCCURRENCE \$ DAMAGE TO RENTED PREMISES (Ea occurrence) \$ MED EXP (Any one person) \$ PERSONAL & ADV INJURY \$ GENERAL AGGREGATE \$ PRODUCTS - COMP/OP AGG \$ \$
	AUTOMOBILE LIABILITY ☐ ANY AUTO ☐ OWNED AUTOS ONLY ☐ SCHEDULED AUTOS ☐ HIRED AUTOS ONLY ☐ NON-OWNED AUTOS ONLY						COMBINED SINGLE LIMIT (Ea accident) \$ BODILY INJURY (Per person) \$ BODILY INJURY (Per accident) \$ PROPERTY DAMAGE (Per accident) \$ \$
	UMBRELLA LIAB ☐ OCCUR EXCESS LIAB ☐ CLAIMS-MADE DED ☐ RETENTION \$						EACH OCCURRENCE \$ AGGREGATE \$ \$
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? ☐ Y ☒ N (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below						PER STATUTE ☐ OTH-ER ☐ E.L. EACH ACCIDENT \$ E.L. DISEASE - EA EMPLOYEE \$ E.L. DISEASE - POLICY LIMIT \$
A	Professional Liability			38OH038729222	7/11/2022	7/11/2023	Each Claim Limit \$1,000,000 Aggregate \$2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)
 Project# 2021037, Feasibility Study to Address Capacity/Growth for Wastewater Treatment

CERTIFICATE HOLDER**CANCELLATION**

City of Bentonville 117 West Central Avenue Bentonville AR 72712	SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS. AUTHORIZED REPRESENTATIVE 
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City of Bentonville, Arkansas Agenda Item Form

Item Details

Council Meeting Date:		Submitted By:	
Phone:		For Department(s):	
Email:			

Item Type (Check all that apply)

Informational	Bid Award	Enter into an Agreement	Change Order
Recognizing Funds	Budget Adjustment	Waiver of Bid	Emergency Clause
Ordinance	Resolution	Informational	

Title, Recommendation & Justification

Title:	
Action Recommendation & Justification:	
Additional Comments for Consideration (Optional):	

Amount for Approval:	\$
-----------------------------	----

Budget Impact

Is this Item Budgeted? YES NO ITEM HAS NO COST OTHER: _____

Budget Adjustment (to be completed by Finance when applicable)

Account Number (ORG-OBJECT)	Account Description	\$	Expense	\$	Revenue
Account Number (ORG-OBJECT)	Account Description	\$	Expense	\$	Revenue
Account Number (ORG-OBJECT)	Account Description	\$	Expense	\$	Revenue
Account Number (ORG-OBJECT)	Account Description	\$	Expense	\$	Revenue

Fund(s) Impacted

(check all that apply)

General Fund

Utility Fund

Street Fund

Other(s): _____

Budget Impact Notes for Consideration (Optional):



LETTER AGREEMENT AMENDMENT #1

Date: July 26, 2023

This AMENDMENT ("Amendment") shall amend and become a part of the Letter Agreement for Professional Services dated June 25, 2020 between City of Bentonville, Arkansas ("Client") and Olsson, Inc. ("Olsson") providing for professional services for the following Project (the "Agreement"):

PROJECT DESCRIPTION AND LOCATION

Project is located at: Bentonville, Arkansas

Project Description: Sewer Collection Analysis and Peak Flow Management Program
Part II – Peak Flow Improvement Alternatives

SCOPE OF SERVICES

Client and Olsson hereby agree that Olsson's Scope of Services under the Agreement is amended by adding the services specifically described below for the additional compensation set forth below:

PHASE 200 – PEAK FLOW IMPROVEMENT ALTERNATIVES

The objective of the study is to provide a comprehensive plan to manage peak flows and meet the ever demanding and changing direction of growth within the City of Bentonville

Project & Quality Management

Olsson's Project Manager (PM) will work with the Client, Client's sub-consultants, and Olsson's project team to provide the timely completion of quality work products within available budgetary resources. The PM's responsibilities include:

- **Project Management**
 - Establishing and maintaining project schedule and budget.
 - Define individual tasks and establish cost and schedule of each task.
 - Track the earned value of each task (the percent completion for each task times the total budget for each task).
- **Communication and Coordination with Others**
 - Coordinate with the Client, subconsultants, project team, agencies and/or other consultants that are involved with this project or adjacent projects. This involves one-on-one meetings, conference calls, etc.
 - Kick-Off Meeting – Once a notice to proceed has been received, the PM will schedule and attend a kickoff meeting with the full project team. The PM will draft

an agenda, send out invites, and record meeting notes with action items on which to follow up.

- PM will schedule and attend virtual monthly progress meetings (at a minimum) with the project team and will distribute an agenda 48 hours in advance of each meeting. The PM will draft an agenda, send out invites, and record meeting notes with action items on which to follow up. It is anticipated that a maximum of six (6) meetings (of all the types listed above) will be held for this project.
- Olsson will prepare and present one presentation to the Bentonville Utilities Board and one presentation in a public meeting with the City Council.
- **Quality Management**
 - Quality assurance and quality control (QA/QC) reviews will be undertaken by senior staff members of the firm selected for their experience and expertise. The goal of the QA/QC process is to identify and address technical issues and confirm drawings and documents are clear, complete, and concise.
 - Formal QA/QC reviews will be conducted at key intervals of design and prior to issuance of final report.

Research and Establishment of Design Parameters

Olsson will coordinate with area planning agencies and assist Client with establishing design parameters as follows:

- Determination of population and demographic projections.
- Review of available pertinent planning documents.
- Coordination with master street planning and land usage/zoning.
- Coordination with major industrial customers to ascertain available information regarding growth and demand projections.
- Coordination with planning & municipal jurisdictions, Including:
 - Northwest Arkansas Regional Planning Commission
 - Key stakeholders
- Establish design horizons, which are currently anticipated to be the following:
 - Immediate improvements
 - Phase 1 (Present - 2030)
 - Phase 2 (2030- 2035)
 - Ultimate Buildout

Evaluation/Analysis of Peak Flow Management Alternatives

For each sewer basin, using the level of service selected in previous tasks, Olsson shall analyze I/I reduction, equalization storage and collection system capacity improvements to eliminate sanitary sewer overflows at manholes and pump stations (if any).

- Rain and flow monitoring is being provided by Olsson using subconsultant to verify existing conditions where repairs have been made since flow monitoring in 2020. Olsson shall evaluate flow and rain data from 8 locations specified by Owner and update model for use in evaluating improvement alternatives.

- Analyze the recorded rainfall events to report the total rainfall, duration, peak intensity, and average intensity.
 - Analyze the recorded dry weather flow to calculate the average weekday and weekend flow rates and patterns for the subbasin identified.
 - Analyze flow and rainfall data to quantify rainfall-derived infiltration and inflow (RDII) and provide existing system characterization data for use in capacity analysis and modeling peak flow management alternatives.
- Develop maps, tables, and recommendations for targeting I/I reduction for private and public facilities.
- For gravity sewer components identified to be deficient in the model, develop alternatives to either upsize existing lines, parallel the system, provide relief sewer or combination of these.
- For lift stations identified to be deficient in the model, develop alternatives to improve storage, pumping capacity, force main capacity or combination of these.
- Analysis at the WRRF shall be limited to providing hydrographs of anticipated flows to the treatment facility at each design horizon.
- Two workshops shall be conducted with client. First workshop will be to review preliminary alternatives. Second workshop will include presentation and review of results of alternative investigations.

Sewer System Improvement Recommendations

Olsson shall develop and input into the hydraulic model projected demands for the design horizons as well as demands to analyze various peak flow events. Olsson shall analyze each basin under the aforementioned scenarios to determine infrastructure improvements necessary to convey the projected flows and enhance system performance. Based on the analysis, Olsson shall provide the following:

- Prepare planning-level scopes, schematic maps and opinions of probable costs for recommended CIP projects in each design horizon. For each future CIP project recommendation, description of flow levels (triggers) that necessitate the recommended improvement will be included.
- After screening of alternatives, Olsson has assumed opinions of cost for 11 sewer system alternatives will be developed for the report.
- Prepare and transmit a draft report describing the analyses and recommendations for review by the Client. Report will include description of design parameters, recommendations for public infrastructure I/I rehabilitation in the high priority basins, description of existing private I/I rehabilitation programs and discussion for city consideration, and recommended capital improvement projects as described above.
- After receiving review comments from the Client, prepare and transmit a final report to the Client and the Arkansas Department of Health.
- Prepare and perform two presentations to City of Bentonville Utility Board and City Council. Presentations will discuss the findings of the analyses and recommendations.

PHASE 210 – SSES SERVICES/FLOW MONITORING - SUBCONSULTANT

Olsson shall provide Sanitary Service Evaluation Survey (SSES) and sewer rehabilitation recommendations through service provided by Subconsultant, TREKK design Group, LLC. SSES services shall be performed in high priority subbasins as recommended in Baseline Sanitary Sewer Capacity Study. Additionally, flow and rain monitoring at eight (8) locations, including maintenance and Waterspout online service, shall be provided through the end of 2024. At the end of the flow monitoring period the City shall retain ownership of the flow and rain monitors. Trekk's Detailed Scope of Services and Detailed Fee Estimate are provided as Exhibit A and B to this agreement.

Trekk subconsultant services shall be provided at a special rate of Actual Cost + 5%.

ASSUMPTIONS/EXCLUSIONS

- Sewer Modeling shall be performed using InfoWorks ICM software.
- Owner shall provide sewer model files converted from Infosewer to Infoworks ICM format.
- After screening of alternatives, Olsson has assumed opinions of cost for 11 sewer system alternatives will be developed for the report.

SCHEDULE FOR OLSSON'S SERVICES

Unless otherwise agreed, Olsson expects to perform its services covered by this Amendment as follows:

Anticipated Start Date: September 4, 2023
Anticipated Completion Date: December 31, 2024

Olsson will endeavor to start its services on the Anticipated Start Date and to complete its services on the Anticipated Completion Date. However, the Anticipated Start Date, the Anticipated Completion Date, and any milestone dates are approximate only, and Olsson reserves the right to adjust its schedule and any or all of those dates at its sole discretion, for any reason, including, but not limited to, delays caused by Client or delays caused by third parties.

COMPENSATION

For the additional Scope of Services specifically set forth in this Amendment, Client shall pay Olsson the following fee in addition to the fee(s) set forth in the Agreement:

Olsson's Scope of Services will be provided on a time-and-expense basis not to exceed \$1,417,887.00.

TERMS AND CONDITIONS OF SERVICE

All provisions of the original Agreement not specifically amended herein shall remain unchanged.

If this Contract Amendment satisfactorily sets forth your understanding of our agreement, please sign in the space provided below. Retain a copy for your files and return an executed original to Olsson. This proposal will be open for acceptance for a period of 60 days from the date set forth above, unless changed by us in writing.,

OLSSON, INC.

By Andrea Adams By Chris Dougherty
Andrea Adams, Senior Director of Operations Chris Dougherty, PE, Senior Engineer

By signing below, you acknowledge that you have full authority to bind Client to the terms of this Amendment. If you accept this Amendment, please sign:

CITY OF BENTONVILLE, ARKANSAS

By _____
Signature

Printed Name _____

Title _____

Dated: _____

Exhibits

Project Fee Estimate
Olsson Labor Rate Billing Schedule 2023
Olsson Reimbursable Expense Schedule
A-TREKK Design Group, LLC – Scope of services
B- TREKK Design Group, LLC – Fee Estimate

Date: Wednesday, July 26, 2023
 Job: 023-2321 - BWU Part II - Peak Flow Management

		TOTALS			
Phase/ Task	Description of Work	Total Man-Days	Total Labor Fee	Total Expense Fee	Total Fee
200	Part II- Peak Flow Improvements				
	Project and Quality Management				
	PM & QA/QC	10.00	\$ 17,135.70	\$ -	\$ 17,135.70
	Progress Meetings (6)	8.25	\$ 12,280.56	\$ -	\$ 12,280.56
	Research and Establish of Design Parameters				
	Research	2.13	\$ 2,674.38	\$ -	\$ 2,674.38
	Maps and Projection Recommendations	7.50	\$ 9,302.38	\$ -	\$ 9,302.38
	Workshop Design Parameters with BWU	8.00	\$ 12,281.52	\$ 1,431.50	\$ 13,713.02
	Evaluation of Peak Flow Management Alternatives				
	Evaluate Rain and Flow Monitoring Data and Update Model (8)	15.00	\$ 19,123.04	\$ -	\$ 19,123.04
	Create Design Horizon Scenarios (3)	8.25	\$ 10,087.14	\$ -	\$ 10,087.14
	Analyze Scenarios and develop preliminary alternatives	25.13	\$ 34,381.98	\$ -	\$ 34,381.98
	Workshop - Selection of preliminary alternatives	3.75	\$ 6,007.14	\$ 1,431.50	\$ 7,438.64
	Evaluation of Gravity Sewer Alternatives (5)	12.19	\$ 15,146.90	\$ -	\$ 15,146.90
	Evaluation of Lift Station Improvements (6)	20.25	\$ 25,413.42	\$ -	\$ 25,413.42
	Cost Estimations (11)	17.00	\$ 21,571.04	\$ -	\$ 21,571.04
	Workshop - Recommend Sewer System Improvements (11)	15.25	\$ 21,232.66	\$ 1,431.50	\$ 22,664.16
	Other Design Meetings (2)	7.00	\$ 11,145.52	\$ 4,144.50	\$ 15,290.02
	Prepare scope level exhibits	5.13	\$ 5,985.19	\$ -	\$ 5,985.19
	Prepare Draft Report	21.25	\$ 30,075.70	\$ 67.50	\$ 30,143.20
	Revise Per City Comments	10.13	\$ 14,083.47	\$ -	\$ 14,083.47
	Prepare and Perform Presentations to Commision and Council	11.50	\$ 17,035.04	\$ 1,358.80	\$ 18,393.84
		-	\$ -	\$ -	\$ -
210	SSSES/Flow Monitoring Subconsultant Services				
	Trekk	-	\$ -	\$ 1,099,594.06	\$ 1,099,594.06
		-	\$ -	\$ -	\$ -
		-	\$ -	\$ -	\$ -
		-	\$ -	\$ -	\$ -
		-	\$ -	\$ -	\$ -
		-	\$ -	\$ -	\$ -
		-	\$ -	\$ -	\$ -
GRAND TOTAL		207.71	\$ 284,962.78	\$ 1,109,459.36	\$ 1,394,422.00

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General Infrastructure

LABOR RATE BILLING SCHEDULE 2023

LABOR RATES

<u>Description</u>	<u>Range</u>
Principal/Senior Professional	175 - 280
Project Manager.....	140 - 265
Project Professional.....	130 - 180
Associate Professional	115 - 135
Assistant Professional.....	85 - 130
Designer	110 - 160
CAD Operator	45 - 125
*Surveyor	65 - 150
*Survey Crew.....	130 - 175
*Construction Services.....	50 - 240
Administrative/Clerical.....	45 - 110

Note:

1. Special Services not included in above categories will be provided on a Special Labor Rate Schedule. Special rates include but are not limited to Power Delivery, Survey, Field Operations, Special Inspection, Construction Observation, Geotechnical, Non-Destructive Testing, Drilling, Executive Staff.
2. Rates subject to change based upon updates to Billing Rates for upcoming year.

*Not inclusive of all services. Refer to Note 1.



REIMBURSABLE EXPENSE SCHEDULE

The expenses incurred by Olsson or Olsson's independent professional associates or consultants directly or indirectly in connection with the Project shall be included in periodic billing as follows:

<u>Classification</u>	<u>Cost</u>
Automobiles (Personal Vehicle)	\$0.655/mile*
Suburban's and Pick-Ups	\$0.75/mile*
Automobiles (Olsson Vehicle)	\$95.00/day
Other Travel or Lodging Cost	Actual Cost
Meals	Actual Cost
Printing and Duplication including Mylars and Linens	
In-House	Actual Cost
Outside	Actual Cost+10%
Postage & Shipping Charges for Project Related Materials including Express Mail and Special Delivery	Actual Cost
Film and Photo Developing	Actual Cost+10%
Telephone and Fax Transmissions	Actual Cost+10%
Miscellaneous Materials & Supplies Applicable to this Project	Actual Cost+10%
Copies of Deeds, Easements or other Project Related Documents	Actual Cost+10%
Fees for Applications or Permits	Actual Cost+10%
Sub-Consultants	Actual Cost+10%
Taxes Levied on Services and Reimbursable Expenses	Actual Cost

*Rates consistent with the IRS Mileage Rate Reimbursement Guidelines (Subject to Change).

EXHIBIT A
SCOPE OF WORK

Owner: City of Bentonville, AR
Engineer: Olsson
Consultant: TREKK Design Group, LLC
Project: Priority Basins - Sanitary Sewer Evaluation Survey and Data Analysis, and Long-Term Flow Monitoring

I. GENERAL

The following paragraphs provide a general description of the Work required of this Scope of Services. Subsequent paragraphs describe in detail the professional services to be provided by TREKK (Consultant) for Olsson (Engineer) and the City of Bentonville (City) for the Priority Basins – Sanitary Sewer Evaluation Survey and Analysis, and Long-Term Flow monitoring (Project)

The Project. In 2023, the Engineer and its subconsultants prepared the “Bentonville Baseline Sanitary Sewer Capacity Study – Part I” for the City. The City would like to proceed with Phase II of the work and the Engineer has requested that Consultant perform a sanitary sewer evaluation survey of the seven high priority basins as determined in the 2023 report and provide an analysis to prioritize assets for repair or replacement.

The following table summarizes the High Priority Subbasins as identified in the 2023 Report prepared by the Engineer.

Subbasin	Length of Pipe (LF)	Number of Manholes
TB2	13,900	45
TB3	33,300	133
TB4	45,600	184
TB5	20,900	63
TB6	35,300	125
M10	33,000	132
M12	34,000	140
Total	216,000	822

Work shall include field inspections in the basins to identify sources of inflow and infiltration (I/I). Field services to be performed include smoke testing, limited dyed water testing to confirm sources through private testing or during CCTV, 360-degree manhole inspections of manholes not previously inspected as part of the 2023 report, acoustic sounding, and CCTV of approximately 10 percent of each basin. In addition, Consultant shall purchase and install 8 flow meters, 6 rain gauges, and 14 cameras and maintain them for a period of 16 months.

Following the investigations, Consultant shall perform an analysis of the data to identify locations of I/I, quantify and assign I/I to the pipe and manhole defects, assign preliminary costs for repairs, and prioritize assets for rehabilitation or replacement based on cost/gpd of I/I removed. Rehabilitation schedules for pipe and manholes will be provided in Excel.

Consultant assumes that the Engineer and City will provide the appropriate management staff at technical review meetings to make technical decisions and provide direction to Consultant which will allow the Consultant to move forward and maintain the schedule. Changes in technical direction by the Engineer and City that result in rework by the Consultant may require an amendment to this scope and/or modification of the project schedule.

- A. Task Series Listing. This Basic Scope of Services is organized under the following Task Series. Town Branch basin is abbreviated as “TB” and McKisic basin is abbreviated as “M”.
1. Task Series 100 – Project Management, Administration, and Meetings
 2. Task Series 200 – Flow Monitoring Investigation, Installation, and Maintenance
 3. Task Series 300 - SSES Field Services and Analysis
 4. Task Series 400 – Flow Monitor Equipment Costs

II. SCOPE OF WORK

The following Task Series describe the Scope of Work to be provided by Consultant for this Project.

TASK SERIES 100 - PROJECT MANAGEMENT, ADMINISTRATION, AND MEETINGS

The purpose of this task will be to manage, direct and oversee each element of the scope of work identified herein employed by the Consultant in completion of the Work. The following management activities will be provided by Consultant.

Task 101 Project Management and Administration Services

Provide project management services necessary throughout the project to successfully manage and complete the Project, including project correspondence and consultation with Engineer and City staff; supervision and coordination of services; assignment of personnel resources and equipment; continuous monitoring of work progress; and maintenance of project controls. Prepare and submit monthly invoices and provide a monthly project status report which will accompany the monthly invoice submittal. The monthly project status report will document work progress, the percentage of completed work, schedule status, and budget status.

Deliverables: Monthly invoices and project status report. Sixteen invoices are anticipated.

Task 102 Project Meetings and Coordination

The Consultant shall meet with Engineer and City staff during an initial kick-off meeting. The purpose of the initial meeting will be to discuss the project goals and objectives, review expectations, coordinate field services, review schedule, and confirm deliverables.

The Consultant will participate in up to six (6) progress meetings during the Project to discuss work completed and to plan for the next phase of fieldwork or analysis. Meetings shall include discussions on work progress, coordination efforts, inspection results, deliverable status, and any

targeted discussion points or potential issues that may need resolved. The project manager and appropriate field team leaders involved with current work activities shall attend on behalf of Consultant. One (1) additional meeting shall be held to review the results of the analysis and the recommended prioritization with the Engineer and City. The Consultant shall prepare an agenda for each meeting and a summary following the meeting.

Project meetings shall be in person unless requested otherwise by Engineer or City. Some key staff members of the Consultant may attend the meeting virtually.

Consultant will conduct internal team coordination meetings prior to each phase of field services and analysis to manage staff resources, to review deliverables, and to execute the defined scope of work. Consultant will review interim technical materials and draft deliverables, adjust the technical approach as required, and update the schedule.

Deliverables: Meeting Materials, Meeting Notes, and Project Schedule for up to eight (8) meetings.

TASK SERIES 200 - FLOW MONITORING INVESTIGATION, INSTALLATION AND MAINTENANCE

Task 201 Site Investigations

Consultant shall perform temporary flow monitoring site investigations for 8 flow meters and 6 rain gauges at locations provided by the Engineer and City. The purpose of the site investigations is to confirm each site is conducive for safe and effective flow monitoring that will produce quality data. The following shall be taken into consideration when performing the meter site investigations.

Suitability for Accurate Metering - The accuracy of the open channel flow metering will depend on numerous variables, and it is imperative that they be controlled as much as possible. For this reason, reconnaissance inspections will be performed to minimize such error-causing factors such as changes in pipe alignment and size, low flow, debris, interruption of channel flow by side inlets and turbulence caused by uneven channels. In addition, Consultant will check for signal strength at the metering locations to ensure meter and rain gauge modems are able to consistently transmit data.

Safety - It is important that the proposed sites conform to Consultant's requirements for safe operating conditions. If the site falls outside of these requirements, alternate sites that are suitable based on safety requirements will be selected upon further consultation with the City and the Engineer. If upon inspections, one or more of the proposed locations are not suitable for flow monitoring, Consultant will recommend alternative locations near the original location.

Once meter and rain gauge locations are confirmed, Consultant shall prepare mounting equipment, meter bands, and rain gauge mounts specific to each site.

Task 202 Flow Meter and Rain Gauge Installation (8 Meters, 6 Rain Gauges)

Prior to installation, all the new flow monitoring equipment will be bench tested by the Consultant to verify the functionality and accuracy of the metering equipment. If any repairs are required, Consultant will coordinate replacement of the equipment with the City and the meter manufacturer.

Meters and rain gauges will be installed at the locations determined during the site investigations. Meters and rain gauges will be appropriately mounted for each site, antennae installed, and sensors mounted within the flow using appropriately sized bands. Initial interrogations (manual measurements of velocity and depth) will be recorded to verify initial readings. Consultant shall complete site assessment forms for each flow monitoring location. The assessment form shall include installation photos, pipe size, pipe material, manhole depth, evidence of surcharge, flow quality and silt levels.

Deliverables:

- Site Assessment Forms
- PDF Records of Site Installation with Field Notes

Task 203 Site Calibration Trip

Consultant shall perform post installation visits at the flow meter locations to verify calibrations. Field calibrations will be conducted by completing manual flow depth measurements and using a portable velocity meter (PVM) to obtain a real-time velocity profile. These measurements will be used to verify calibration, and any necessary adjustments will be made for quality data collection.

Task 204 Flow Meter and Rain Gauge Removal and Relocation

If requested by the Engineer and City, some or all the meters and rain gauges may be removed and relocated during the metering time period. New sites shall be investigated, and equipment mounted and installed at the new locations.

Task 205 Site Calibration

Consultant shall perform post installation visits at the relocated flow meter locations to verify calibrations. Interrogation measurements will be used to verify calibration, and any necessary adjustments will be made for quality data collection.

Task 206 Flow Meter Maintenance (16 Months)

Consultant shall provide field maintenance for the 8 flow meters and 6 rain gauges for a period of 16 months for up to 30 site visits. Flow meter maintenance shall include the upload and interrogation of all flow data, monthly velocity profiling, replacement of batteries, sensor cleaning, and other diagnostic checks. Consultant shall use Fulcrum, its sensor management system work tracking application to monitor, manage, and record the field maintenance efforts. The maintenance record module will power the collection of field interrogation records, manual verification measurements, and other detailed field note information. It will also include a detailed site summary along with photos and a summary of maintenance visits and work order history. Following a severe weather event, Consultant will perform a site visit to clean and verify the flow metering equipment and rain gauges are functioning properly.

Field maintenance frequency is assumed to be every third week and as needed for maintenance. More visits may be needed earlier in the base monitoring period to establish proper calibration and meter placement.

Remote diagnostic inspections (RDI) will be routinely completed throughout the monitoring period to verify meters are working properly and to complete engineered data reliability reviews. Consultant shall utilize Waterspout. The remote data server will allow reviewers to see the network

in real-time and schedule maintenance site visits in order to maximize data uptime and minimize data gaps.

After 60 days of flow monitoring and again at the end of the monitoring period, flow data will be evaluated, and any necessary data adjustments will be made based on field interrogation data, field notes, and the potential impact of silt and debris at the site. Consultant will prepare an operations report summarizing the reporting period field activities, calibration checks, and any adjustments made to the sites.

Consultant shall install, service, and maintain 6 continuous recording, electronic rain gauges and 6 cameras during the same base monitoring period. The rain gauges will record rainfall to one-hundredths of an inch increments. The instruments will be checked monthly by Consultant or when maintenance is required.

Equipment will include remote telemetry units which use cellular technology. However, if data connections are lost, meters or rain gauges will be downloaded during the next maintenance visit and data uploaded to the Waterspout.

Task 207 Waterspout Platform

The Consultant's Waterspout platform* will be configured and made available to allow the City and Engineer to remotely log in and view data at the flow and rainfall monitoring locations. Usernames and passwords will be established as requested, for up to six users. Consultant will configure the platform for the eight flow meter sites and the six rain gauge locations.

The following will be made available to the City and Engineer through the platform:

- Processed data following each maintenance visit.
- Tabular and graphical data of depth, velocity, flow, rainfall, digital camera pictures.
- Scatterplots.
- Assessment, installation and maintenance visit information.
- Map of installed sites with status of function.
- Ability to export raw and engineered flow data.
- Recommendations for data adjustments due to impacts of silt and debris.

The price of a Waterspout license includes access to data for up to 365 days from the date of the data logger installation. Two years of data access is included in this project.

TASK SERIES 300 - SSES FIELD SERVICES AND ANALYSIS

Consultant shall provide all equipment, labor, software, supplies, and other resources to fully complete field inspections. All structures and associated pipes must be accessible or have right of entry to property secured and provided by the City. Consultant will review available City GIS mapping to locate structures that may lack adequate easements or right of way, or other obstacles. Consultant will bring these areas to the attention of the Engineer and City for discussion.

Consultant assumes that no heavy equipment will be required to access structures. Consultant will coordinate access with the City where heavy equipment may be needed.

Task 301 Smoke Testing

Smoke Testing will be conducted on up to 216,000 linear feet of pipe located within each subbasin to identify I/I sources from both the public and private sector.

Smoke testing activities will include a minimum of 48 hours advance notification to all residents within the study areas. Notification will be done by placement of bilingual door hangers on homes and businesses by Consultant. The notice will include general information about the testing; including instructions to fill infrequently used plumbing traps with water and a tablespoon of cooking oil to prohibit smoke from entering buildings via service lines and will be reviewed and approved by Engineer and City prior to distribution. All emergency services including, but not limited to County Sheriff's Departments, City Police Department, City Hall, Central Dispatch and the City Fire Departments will be notified by Consultant personnel of the smoke testing and the boundaries of the testing. Consultant will coordinate with the City prior to communicating with emergency services.

High-rate smoke blowers and liquid smoke will provide continuous smoke production while the field crew canvasses the areas over and adjacent to the lines and conducts a perimeter check of all buildings in proximity for evidence of smoke. Each positively identified source shall be digitally photographed, located and referenced. Defective service laterals will be identified for subsequent investigation. All smoke testing inspections will be recorded on Consultant's field forms and input into a database compatible with ArcMap GIS software. If requested by the City, Consultant will replace missing cleanout caps that do not require any cutting or glue that are found during smoke testing. The City shall supply Consultant with cleanout caps prior to smoke testing so that caps can be replaced during smoke testing.

Deliverables:

- Defect Summary Table (Excel format)
- GIS Geodatabase of Smoke Defects
- Smoke Defect Photos
- PDF map of smoke defects
- List of cleanout caps replaced, if applicable

Tasks 302 Dyed Water Testing

Follow-up dyed water testing of suspected I/I sources identified during the smoke testing and manhole inspections will be performed to verify connection to the sanitary sewer system and quantify leakage. A fluorescent dye will be washed down any suspected I/I connection and/or adjacent storm sewers may be dye flooded. This will be accomplished by placing the dye directly into the suspect source and/or dye flooding adjacent storm sewers. Adequate water will be used to ensure that the dye has enough time to be observed in the downstream manhole. Presence of dyed water in the system downstream of the test verifies the I/I source connection.

Dyed water testing may be conducted in conjunction with CCTV inspection of the sanitary sewer main lines to verify connections and quantify I/I. Up to 40 dyed water tests will be performed.

Photographic records will be made of each confirmed source identified during dyed water testing.

Deliverables:

- Photographic Dyed Water Test Records

- Pdf map of testing locations and test results

Tasks 303 Manhole and Visual Pipe Inspections

Manhole inspections will be conducted by two-person crews. Manholes will be inspected from the topside of the manhole using the TREKK360 camera to collect panoramic photos, as well as mirrors and/or high-powered spotlights if necessary. Each structural component of the manhole will be inspected and assigned a structural and I/I condition rating in accordance with the criteria rating system agreed upon with the Engineer. Photographic records will be used to supplement and substantiate manhole inspection observations and recommendations. All manhole inspection data will be digitally recorded as work progresses.

Visual inspections of all incoming and outgoing pipes of all accessible manhole structures inspected will be conducted. This shall include private service laterals that enter the manholes. Photographs shall be taken of the line segments from inside the manhole, showing cracked pipe; offset joints greater than 1 inch, partially or fully collapsed pipe; or obstructions such as roots, debris, or grease. Each photograph shall be properly annotated and attached to the specific inspection record.

During field activities, field technicians will confirm system network connectivity, add newly identified structures to the online map, and provide sketches of routing discrepancies. Network change data will be provided to Engineer to allow for GIS updates.

The field crews shall commit a minimum of 15 minutes of searching for a manhole before classifying it as “could not locate” or “buried”. Metal detectors, probes, and shovels will be used to locate buried manholes. Manholes buried less than 6 inches deep in non-paved areas will be uncovered for inspection. A list and general vicinity of manholes that could not be inspected because they were buried, or crews were unable to locate will be tabulated and provided to the Engineer and City to be located and uncovered. Consultant will then follow-up with an inspection of the manhole once it is located and made accessible.

Deliverables:

- List of Any Identified Emergency Repairs
- GIS Network Change Data
- 360-degree Imaging Data
- Manhole Inspection and Visual Pipe Inspection Reports with Photos (PDF format)

Tasks 304 Acoustic Sounding

Acoustic sounding will be performed on up to 216,000 linear feet of sewer pipe to identify areas which may have diminished capacity or blockage. Acoustic sounding can be used to evaluate the aggregate blockage within a sewer pipe section using an acoustic method. The approach allows the pipe sections to be evaluated rapidly with no confined space entry, or impact to traffic or service disruption. The results will include a tabular listing of each section evaluated along with a blockage condition score. Each pipeline will be scored with a value ranging from 0 to 10 with 0 representing complete blockage and 10 representing clean pipelines. Results of acoustic sounding will be incorporated into a database compatible with ArcMap GIS software.

Deliverables:

- Tabular listing of blockage condition score
- Database of results compatible with ArcMap GIS

Tasks 305 CCTV Inspections

It is estimated that approximately 10% of the total linear footage of sewer pipe will be cleaned and televised using CCTV. Pipe recommended for CCTV will be selected based on the age and material of pipe, and results of manhole inspections, visual pipe inspections, smoke testing, and acoustic sounding.

Light cleaning will be performed to clear the sewers of debris and any flow obstructions to allow the CCTV camera to pass through the sewer for inspection and documentation of defects. The cleaning equipment shall be a type generally recognized by the trade for the purpose of cleaning sanitary sewers. The equipment shall be capable of removing roots, dirt, grease, rocks, bricks, sand, and other materials and minor obstructions from the sewer pipes and manhole channels. Light sewer cleaning shall be completed with a high velocity jet-cleaning machine and shall be defined as up to three slow passes.

If more effort is required, Consultant will be compensated for “Heavy Cleaning”, using an hourly crew charge. Consultant shall obtain authorization from the Engineer and City prior to commencing heavy cleaning. City will respond to heavy cleaning requests within three hours of receipt. For authorized “Heavy Cleaning” work, Consultant shall keep a log of line segments cleaned and hours spent on each line segment. Up to 15 hours of heavy cleaning may be authorized. Consultant will coordinate with the City to determine a location for dumping debris removed from cleaning activities and will notify City prior to any dumping of debris. The City shall provide potable water for cleaning operations. Consultant shall obtain a water meter from the City.

CCTV inspections will be conducted utilizing a camera with pan and tilt capabilities. The pulling or pushing cable or tractor unit shall have a footage meter so that the location of the TV camera and point of observation will be known with reference from the starting manhole. The camera shall pan and tilt to all service connections to allow for the evaluation of the condition of the connection and to view inside the service connection. The camera shall also pan and tilt to significant structural defects and/or I/I sources. The direction of the camera will be noted. The display will always begin with the numbering from upstream manhole to downstream manhole. If a reverse setup is attempted, the same numbering system shall be used; however, the direction of camera shall be switched. If an unrecorded manhole is encountered, television inspection will halt. A new manhole number will be assigned (i.e.: line segment 2-1 will become 2-2a and 2a-1) per City standards. These changes will also be noted on maps and lists provided and submitted to the Engineer and City at the conclusion of the project work.

The camera shall be moved through the sanitary sewer line in either direction at a uniform rate, stopping when necessary to ensure proper documentation of the sewer condition and lateral connections, but in no case will the television camera be pulled at a speed greater than 30 feet per minute. If, during the inspection operation, the television camera will not pass through the sewer line, the technician shall reset his equipment in a manner so that the inspection can be performed from the opposite direction. If, again, the camera fails to pass through the entire sewer, the location and cause of camera blockage will be documented, and information provided to the

Engineer and City. The inspection shall be considered complete, and no additional inspection work will be required.

All informational data on the pipes will be collected in NASSCO PACP format and delivered electronically to the Engineer and City at the conclusion of the project.

Deliverables:

- Pipe Run Report (PDF format)
- PACP NASSCO 7 inspection database (ACCESS format)
- List of Any Emergency Repairs
- CCTV video files

Tasks 306 I/I Source Flow Analysis and Rehabilitation Recommendations

Following the completion of the field inspections, Consultant will complete a design-based review of manhole, smoke, and CCTV data to establish a list of manholes and sewer mains recommended for repair. Manhole data, CCTV videos, and field photos will be reviewed thoroughly by NASSCO certified staff to determine preliminary recommended repairs and estimated costs. Sewer main recommendations for open cut or trenchless repairs will be made based on the severity of defects, existing ovality of the pipe, as well as access/surface considerations. Sewer main repairs will include open cut point repairs, open cut replacement, CIPP and pipe bursting. Defective service connections will be included in the recommended repairs utilizing both trenchless full wrap CIPP liners and open cut methods. Other methods will be considered at the recommendation of the Engineer or City. Manhole and pipe rehabilitation methods will be agreed upon with the Engineer and the City at the initial Kick-Off Meeting.

The Consultant will assign estimated I/I source flow rates based upon information collected during field inspection activities. Source unit flow rates will be adjusted accordingly based on smoke testing or dyed water testing results. The I/I assigned to each defect will be based on generally accepted values but does not purport to be exact. The purpose of assigning I/I to defects is to help in cost effective evaluations and prioritization. A certain percentage of I/I flow will be unidentified. These typically include building foundation drains, sump pumps, private service laterals, and other such sources for which smoke testing and inspection activities are not totally effective. The I/I for each defect will be totaled for every inspected manhole and televised pipe segment to obtain a total identified I/I for each asset. A prioritized I/I elimination analysis will then be conducted to compare costs associated with repairs to defect flow contributions (\$/gpm). This is the proposed cost to remove I/I from the system by making the repairs. Unit repair or replacement costs will be provided by Engineer from recent City bid tabs for use in the cost analysis.

Following the prioritization, repairs will be generally categorized as Priority 1, Priority 2, or Priority 3 to allow the City to budget and plan for immediate and long-term repairs. Generally, emergency repairs and assets that remove the most gpd of I/I for the cost of repairs will be included as Priority 1. Consultant, Engineer, and City will determine the maximum \$/gpd for each category.

Upon the completion of the rehabilitation recommendations, Consultant will meet with the Engineer and City to discuss the findings and future planned construction projects that may affect the recommendations and priority levels. Following Engineer and City approval of final repair recommendations, Consultant will prepare final deliverables.

Deliverables:

- Prioritized and sortable Excel spreadsheet listing all assets with a \$/gpd for I/I removal.
- Prioritized manhole rehabilitation schedule in Excel divided by Priority.
- Prioritized sewer main rehabilitation schedule in Excel divided by Priority.
- Map of final rehabilitation plan showing assets color coded by Priority.

TASK SERIES 400 - FLOW MONITORING EQUIPMENT COSTS**Task 401 Blue Siren Equipment**

Consultant shall arrange for the purchase and delivery of the following equipment:

- ECOSiren Flow Meters (8)
- ECOSiren Rain Gauges (6)
- Vision Sensors (14)
- Spare AV Sensors (8)
- SIM Cards (14) and Service for Duration of Project

Task 402 Miscellaneous Metering Equipment

Consultant shall provide equipment for the installation of the flow meters, rain gauges, and cameras. Equipment will include mounting hardware and brackets, camera mounts for the rain gauge cameras, and Isco bands for mounting sensors in sewers.

(End of Scope of Services)



Exhibit B

2023 FEE ESTIMATE

City of Bentonville, Arkansas

Priority Basins - Sanitary Sewer Evaluation Survey and Data Analysis,
Long Term Flow Monitoring

Estimated NTP August 2023 Contract Time 16 Months (455 Days)	Labor												Direct Expenses						Labor Total	Unit Cost Total	Direct Expenses Total	TOTALS	
	Project Manager QA/QC	Assistant Project Manager	Project Engineer	Field Manager/ Data Review	Office Technician	Field Technician	GIS Specialist	Administration & Accounting	Smoke Testing (LF)	Dyed Water Testing (EA)	Acoustic Sounding (LF)	TREKK 360 Manhole Inspections (EA)	CCTV Mobilization (LS)	CCTV (LF)	Waterspout Fee (per YR)	Batteries (EA)	Metering Equipment (LS)	Mileage (Mile)					
Fee Billing Rate	\$233.00	\$179.00	\$125.00	\$135.00	\$97.00	\$97.00	\$147.00	\$116.00	\$0.68	\$400.00	\$0.39	\$184.00	\$2,500.00	\$4.50	\$5,600.00	\$1.30			\$0.656				
WORK TASK DESCRIPTION																							
Task 100 - Project Management, Administration, & Meetings																			\$ 74,362.00	\$ -	\$ 341.12	\$ 74,703.12	
101 Project Management & Administration Services	140	110					34												\$ 56,254.00	\$ -	\$ -	\$ 56,254.00	
102 Project Meetings & Coordination (KO, 6 Progress Mtgs, Draft Review Mtg)	32	24	14	14	14	14												520	\$ 18,108.00	\$ -	\$ 341.12	\$ 18,449.12	
Task 200 - Flow Monitoring Investigation, Installation, & Maintenance																			\$ 155,852.00	\$ -	\$ 14,480.32	\$ 170,332.32	
201 Site Investigations	4	4		6	6	28												40	\$ 5,756.00	\$ -	\$ 26.24	\$ 5,782.24	
202 Flow Meter and Rain Gauge Installation (8 FM/6 RG, Bench Tests)	8	8		12	12	72												20	\$ 13,064.00	\$ -	\$ 13.12	\$ 13,077.12	
203 Site Calibration (1 Trip - 8 FM/6 RG Sites)				4	4	28												20	\$ 3,644.00	\$ -	\$ 13.12	\$ 3,657.12	
204 Flow Meter and Rain Gauge Removal and Relocation	8	8		12	12	72												20	\$ 13,064.00	\$ -	\$ 13.12	\$ 13,077.12	
205 Site Calibration (1 Trip - 8 FM/6 RG Sites)				4	4	28												20	\$ 3,644.00	\$ -	\$ 13.12	\$ 3,657.12	
206 Flow Meter Maintenance (16 months, up to 30 site visits total)	34	52	16	68	34	840										2,160		600	\$ 113,188.00	\$ -	\$ 3,201.60	\$ 116,389.60	
207 Waterspout Platform					36										2				\$ 3,492.00	\$ -	\$ 11,200.00	\$ 14,692.00	
Task 300 - SSES Field Services & Analysis																			\$ 266,543.00	\$ 398,368.00	\$ 102,200.00	\$ 767,111.00	
301 Smoke Testing	16	24		20	60		24		216,000										\$ 20,072.00	\$ 146,880.00	\$ -	\$ 166,952.00	
302 Dyed Water Testing	4	8		8	16		8			40									\$ 6,172.00	\$ 16,000.00	\$ -	\$ 22,172.00	
303 Manhole and Visual Pipe Inspections	16	16		32	120		80					822							\$ 34,312.00	\$ 151,248.00	\$ -	\$ 185,560.00	
304 Acoustic Sounding	8	16		32	40		40				216,000								\$ 18,808.00	\$ 84,240.00	\$ -	\$ 103,048.00	
305 CCTV (10% of total LF)	16	32		96	28		80						2	21,600					\$ 36,892.00	\$ -	\$ 102,200.00	\$ 139,092.00	
306 VI Flow Source Analysis & Rehabilitation Recommendations	112	80	224	465	112		56												\$ 150,287.00	\$ -	\$ -	\$ 150,287.00	
SUBTOTAL HOURS / QUANTITY	398	382	254	773	498	1,082	288	34	216,000	40	216,000	822	2	21,600	2	2,160	0	1,240	3,709				
SUBTOTAL TREKK FEE	\$92,734.00	\$68,378.00	\$31,750.00	\$104,355.00	\$48,306.00	\$104,954.00	\$42,336.00	\$3,944.00	\$146,880.00	\$16,000.00	\$84,240.00	\$151,248.00	\$5,000.00	\$97,200.00	\$11,200.00	\$2,808.00	\$0.00	\$813.44	\$496,757.00	\$398,368.00	\$117,021.44	\$1,012,146.44	
Task 400 - Flow Monitor Equipment Costs																							
401 Blue Siren Equipment																	\$53,134.00		\$ -	\$ -	\$ 53,134.00	\$ 53,134.00	
402 Miscellaneous Metering Equipment																	\$4,300.00		\$ -	\$ -	\$ 4,300.00	\$ 4,300.00	
SUBTOTAL EQUIPMENT																	\$57,434.00				\$57,434.00	\$57,434.00	
TOTAL FEE	\$92,734.00	\$68,378.00	\$31,750.00	\$104,355.00	\$48,306.00	\$104,954.00	\$42,336.00	\$3,944.00	\$146,880.00	\$16,000.00	\$84,240.00	\$151,248.00	\$5,000.00	\$97,200.00	\$11,200.00	\$2,808.00	\$57,434.00	\$813.44	\$496,757.00	\$398,368.00	\$174,455.44	\$1,069,580.44	