EASTERN
ENGINEERING OF SC
SINCE 1937

October 17, 2022

Jake Broom
Chief Operating Officer
Municipal Association of South Carolina
P.O. Box 12109
Columbia, SC 29211

Re: MASC RFQ – Engineering Services for Various Projects and On Call Services

Dear Mr. Broom,

We at Eastern Engineering are pleased to submit our Statement of Qualifications for Engineering Services to the Municipal Association of South Carolina. Eastern Engineering is a small, family-owned engineering firm located in Lake City, SC that specializes in municipal water and sewer infrastructure projects.

Our firm has decades of experience in securing government funding as well as planning, designing, and overseeing construction of water and sewer projects funded by federal and state funding programs. Through years of success in our field, we have accumulated a loyal client base that returns to our firm again and again for their water and sewer infrastructure needs. We are confident that our firm is an ideal candidate to provide engineering services for water and sewer improvements projects using American Rescue Plan monies for the following major reasons:

1. ***Technical Approach & Understanding.*** Our firm has worked closely with numerous South Carolina municipalities to fund, plan, design, and construct water and sewer projects for several decades. Our engineers have a deep understanding of the technical approach that should be taken to successfully complete these types of projects.
2. ***Work Management Plan & Experience of Proposed Personnel.*** Our team is comprised of highly motivated individuals with over 95 years of combined experience in federally funded projects related to the proposed project types. Our team consistently produces innovative projects that exceed expectations.
3. ***Experience of the Firm.*** Our firm has decades of experience in municipal water and wastewater projects. In the last three years alone, our firm has been involved with over 22 projects similar to the proposed project types, as shown in the attached Statement of Qualifications.
4. ***Familiarity with Federal Funding Requirements.*** Our firm continuously works with South Carolina municipalities to complete water and sewer projects that are funded through federal programs and has a high level of familiarity with federal funding requirements. In the last three years alone, our firm has provided funding acquisition, design, and construction administration services for over 16 federally funded projects totaling $52M.
5. ***Flexibility.*** As a small engineering firm, we are able to focus on our clients' individual needs and provide the one-on-one service that larger firms can't. This allows our firm a great deal of flexibility in the types of services that we provide as well as when we provide them.

We are excited for this opportunity and hope you look favorably upon our firm during this process. Please let us know if you have any questions or need any additional information.

Sincerely,

Harry R. Askins, Jr., P.E.
Principal Engineer, Owner

Statement of Qualifications

for

Professional Civil Engineering Services

Municipal Association of South Carolina

October 17, 2022

EASTERN
ENGINEERING OF SC
SINCE 1937

Physical Address:
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Lake City, SC 29560

Mailing Address:
P. O. Box 1322, Lake City, SC 29560

Primary Contact Info:
Thomas (Eddie) Stelling (Project Engineer)
Email: tstelling@e2ofsc.com
Direct/Office #: (843) 374-8030

www.e2ofsc.com

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Firm Background

Eastern Engineering is a small, family-owned engineering firm located in Lake City, SC. We are a full-service civil engineering firm that focuses on municipal water and wastewater systems primarily in South Carolina. As a small engineering firm, we are able to concentrate on our clients' specific needs and provide our clients with the quality one-on-one service that larger firms can't.

Since its founding in 1937, Eastern Engineering has worked closely with many local governments to not only develop innovative solutions for their water and wastewater needs, but also to secure government funding to make these solutions possible. We have consistently found success in project funding and design for municipal water and wastewater facilities across South Carolina for over 80 years. Our long history has given us a vast array of knowledge and experience in these areas that is unmatched by others. This unique skillset makes Eastern Engineering the obvious choice for anyone seeking to secure federal or state funding for water and sewer infrastructure design and construction.

Through years of success in our field, we have accumulated a loyal client base that returns to our firm again and again for their water and sewer infrastructure needs. Most of our clients are repeat customers who repeatedly entrust our firm with their water and sewer infrastructure needs, and this is not something that we take lightly. We at Eastern Engineering take a great deal of pride in our ability to continuously provide our clients with projects that exceed their expectations.

Technical Approach/Understanding

Project Understanding

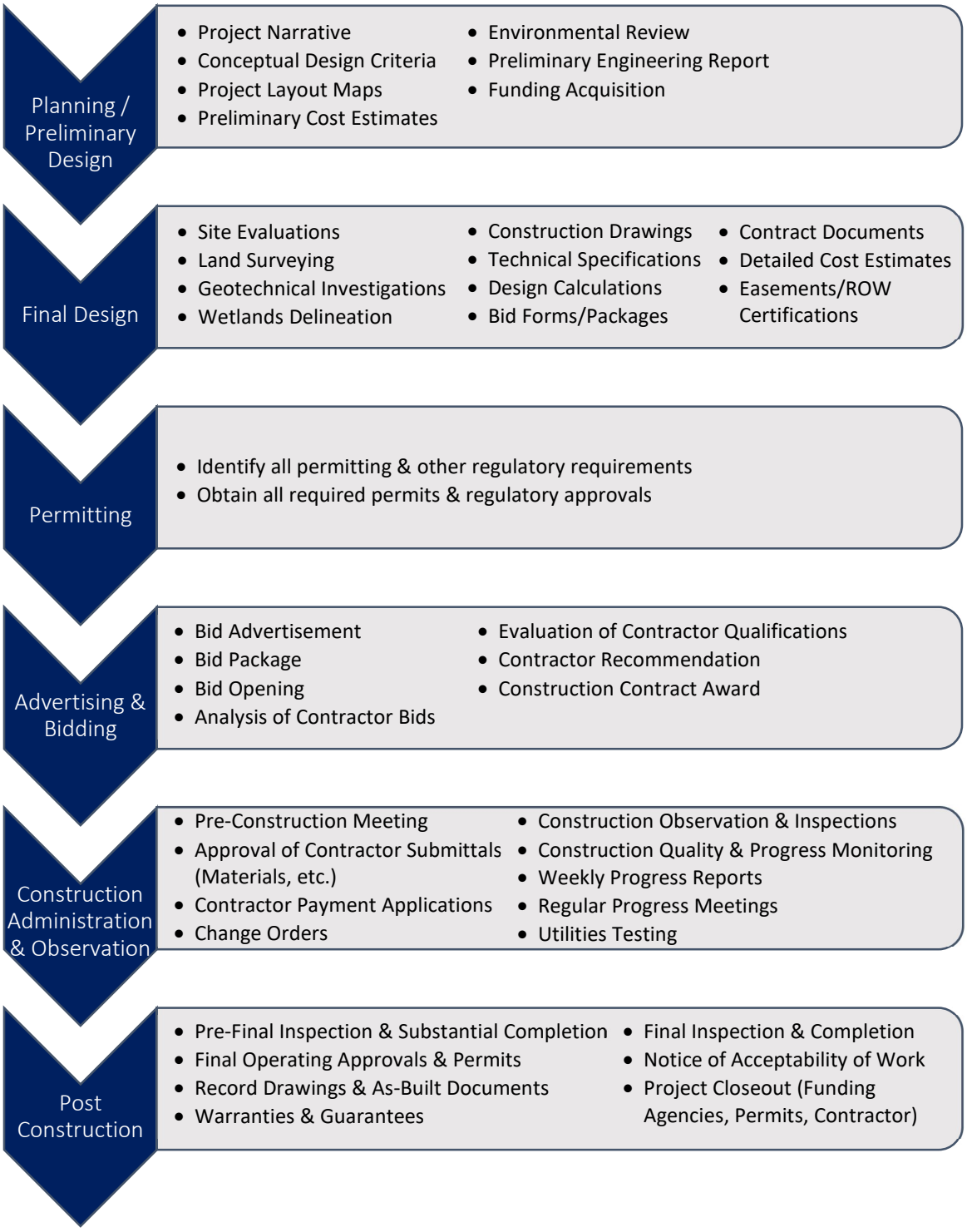
The Municipal Association of South Carolina is requesting Statements of Qualifications from qualified firms to provide engineering services for various local governments in South Carolina to complete primarily water and sewer system improvement projects using American Rescue Plan monies. The requested services include preliminary design, final design, permitting, project cost opinions, surveying, bidding and negotiation services, construction administration services, and construction observation services. These services will be provided to local governments on an "as-needed" basis. Selected firms must be flexible in the commitment to start providing these services immediately or later.

Technical Approach

Typically, a water or sewer project will be completed in six major phases: Planning / Preliminary Design, Final Design, Permitting, Advertising and Bidding, Construction Administration and Observation, and Post Construction. Eastern Engineering will provide all engineering services necessary to implement projects related to water and sewer improvements.

Project Approach Flow Chart

The following chart delineates the typical approach that should be taken to successfully complete a water or sewer project.



Work Management Plan/Experience of Proposed Personnel

Response Capability & Flexibility

As a small engineering firm, we provide the one-on-one service that larger firms can't. Our size allows us to focus on our clients' specific needs and gives us a great deal of flexibility in providing services immediately or later. Furthermore, most of our current projects have already proceeded beyond or are nearing completion of the final design phase, allowing our team to take on additional work at this time.

Eastern Engineering Expertise & Services

Our firm's expertise includes funding acquisition as well as all engineering and construction administration services related to water and sewer infrastructure projects, including:

Water System Improvements

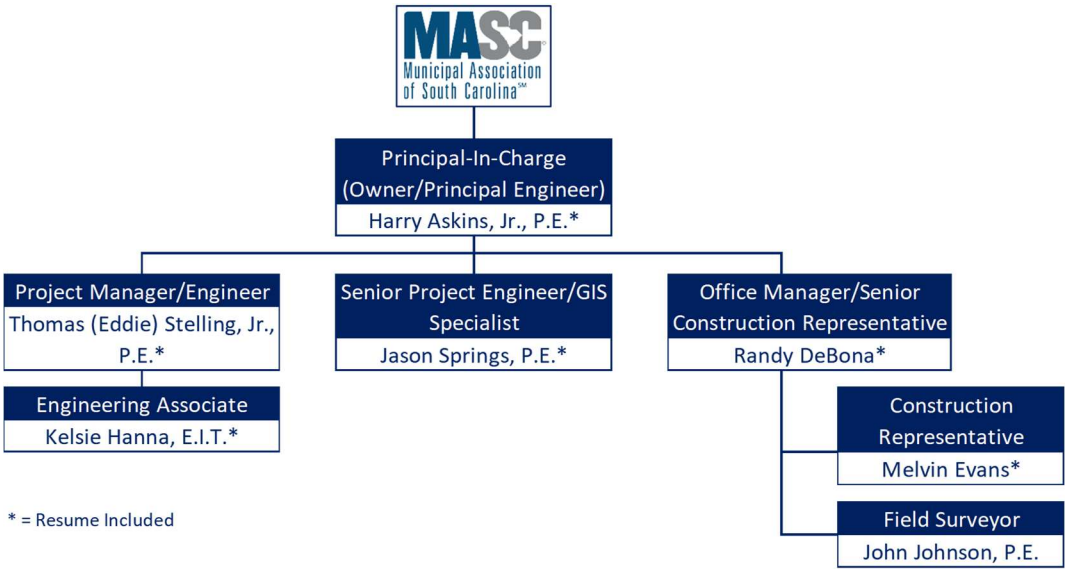
- Water Line Extensions
- Water Line Replacement
- Water Treatment Facility Improvements
- Water System Evaluations
- Water Storage Improvements
- Water Supply Improvements
- Lead Service Line Inventories
- SCADA Improvements

Sewer System Improvements

- Sewer Line Extensions
- Sewer Line Rehabilitation/Replacement
- Wastewater Treatment Facility Improvements
- Force Main Repairs/Replacement/New Facilities
- Wastewater Lift/Pump Station Repairs/Replacement/New Facilities
- Sewer System Evaluations
- Infiltration & Inflow Studies
- SCADA Improvements

Management Plan & Staffing Configuration

The Eastern Engineering Project Team is made up of highly motivated and skilled individuals who are committed to providing innovative municipal water and sewer solutions. Our team organizational chart is shown below.



Harry R. Askins, Jr., P.E.

Owner/Principal Engineer

Harry has spent over five decades working with South Carolina municipalities to develop water and sewer infrastructure. Harry has completely designed multiple municipal water systems, sewer distribution systems, and wastewater treatment plants. His extensive experience has made him an expert in his field. Harry's expertise includes all aspects of water and sewer design as well as system master planning and government funding acquisition.

Industry Experience
53 years

Eastern Engineering
44 years

Education & Licenses

- B.S. Building Construction, Clemson University, 1969
- B.S. Civil Engineering, University of South Carolina, 1994
- SC Registered Professional Engineer & Land Surveyor, License No. 6259

Key Responsibilities

- Water, sewer, storm drainage, and site design
- Review completed project design, construction plans, calculations, specifications, and contract documents
- Oversee project bidding, construction administration, and client correspondence
- Review funding applications, preliminary engineering reports, and environmental assessments

Relevant Project Experience

Scranton Industrial Park Sewer Study

This study evaluated the available capacity of the Lake City Sewer System to determine its capability to serve the new Scranton Industrial Park in Scranton, SC. As Principal Engineer, Harry determined the existing capacity of the system, verified the system could handle the additional loading, and developed a plan of improvements to accommodate varying domestic and industrial sewer demands. This study included developing a detailed SewerCad® model of the system using as-built drawings, GIS data, survey records, and sewer usage data.

Monetta Elevated Water Storage Tank

Harry is the Principal Engineer for this CDBG project in Monetta, SC, that involves the design and construction of a 150,000-gallon elevated water storage tank, control valve, and installation of SCADA on the existing system. Harry completed design calculations, prepared construction plans, specifications, contract documents, and obtained construction permits for this project that is currently advertised for bids.

Millwood-Bloomingvale Water System Project

Harry served as Principal Engineer for this USDA water system expansion project, which included the design and construction of 115 miles of water line to provide water service in the Millwood and Bloomingvale Communities of Williamsburg County, SC. Harry obtained over $17M in USDA funding, completed design calculations, prepared construction plans, specifications, contract documents, obtained construction permits, provided bidding services, construction administration services, and obtained the final operating permit.

Greeleyville Sewer Phase 4 Project

This CDBG sewer system expansion project involved the design and construction of just over one mile of gravity and force main, 12 manholes, a lift station, and 31 new services for the Town of Greeleyville in Williamsburg County, SC. As Principal Engineer, Harry secured nearly $500k in CDBG funding, completed design calculations, prepared construction plans, specifications, contract documents, obtained construction permits, provided bidding services, construction administration services, and obtained the final operating permit.

South Williamsburg County Water & Sewer Phase 1

Harry served as Project Manager and Principal Engineer for this project, which included establishing water and sewer systems in Williamsburg County, SC. Harry secured $9M in funding from CDBG, SCDOC, and the Federal Bureau of Prisons for this project. Water infrastructure included four miles of waterline, two wells, and one 750,000-gallon tank. Sewer infrastructure included 13 miles of gravity and force main, 11 manholes, and a wastewater treatment plant. Harry completed all funding acquisition, design, permitting, and construction administration for this project.

Thomas (Eddie) Stelling, Jr., P.E.

Project Manager/Engineer

Eddie joined Eastern Engineering in 2018 with over 10 years of civil engineering experience. Eddie has designed and managed a wide variety of water, sewer, and storm drainage projects. Since joining our firm, Eddie has also become highly knowledgeable of state and federal funding requirements.

Industry Experience
15 years

Eastern Engineering
5 years

Education & Licenses

- B.S. Civil & Environmental Engineering, The Citadel, 2008
- SC Registered Professional Engineer, License No. 30417
- GA Registered Professional Engineer, License No. PE042005
- GA - GSWCC Level II Certified Design Professional & Plan Reviewer, License No. 0000080242
- AZ Registered Professional Engineer, License No. 60952

Key Responsibilities

- Water, sewer, storm drainage, and site design
- Construction plans, calculations, specifications, contract documents, and construction permitting
- Project management, project bidding, construction administration, and client correspondence
- Funding Acquisition
- Preliminary Engineering Reports
- Environmental Assessments

Relevant Project Experience

Greeleyville Sewer Improvements

Eddie is Project Manager and Project Engineer for this sewer expansion project in Greeleyville, SC. This project includes two miles of gravity and force mains, 39 manholes, and 68 services. Eddie secured $2.5M in USDA and RIA funding and completed design calculations, construction plans, specifications, contract documents, construction permitting, and bidding services. He is currently providing construction administration services.

Heineman Road Water Project

Eddie is Project Manager and Project Engineer for this water expansion project in Lane, SC. This project includes four miles of water line, nine fire hydrants, and 25 services. Eddie obtained over $800k in USDA funding, completed design calculations, construction plans, specifications, contract documents, and obtained construction permits for this project, which is currently awaiting USDA approval to bid.

BPU Water Improvements Project

This project includes design and construction of 25 miles of waterlines, a new tank, and well in Barrineau, SC. As Project Manager and Project Engineer for this project, Eddie secured $7.1M in federal funding for this project. Eddie modeled the entire BPU system to analyze various waterline, tank, and well combinations to eliminate existing system issues and maximize new services. Eddie's responsibilities for this project also include completing design calculations, construction plans, specifications, contract documents, construction permit acquisition, and construction administration.

Mouzon Water System Project

Eddie is Project Manager and Project Engineer for this project, which involves establishing a new, independent water system through design and construction of approximately eight miles of waterlines, a new tank and well, and SCADA improvements. Eddie secured over $4.1M in USDA funding for this project, completed design calculations, construction plans, specifications, contract documents, and obtained construction permits. Eddie is currently providing construction administration services.

Lane Sewer Improvements & Municipal Building

Eddie is Project Manager and Project Engineer for this USDA project that includes the design and construction of seven miles of gravity and force main, 109 manholes, three residential grinder pumps, three lift stations, a 3,500-SF municipal building, and a new parking lot in Lane, SC. Eddie secured over $6.7M in federal funding for this project. He also completed design calculations, construction plans, specifications, contract documents, and obtained construction permits. Eddie is currently providing construction administration services.

Jason M. Springs, P.E.

Senior Project Engineer/GIS Specialist

Jason joined Eastern Engineering shortly after graduating from The Citadel in 1999. Jason has designed numerous water and sewer infrastructure projects over the years and has become especially proficient in water and sewer design as well as system evaluations, master plan development, and GIS mapping.

Industry Experience
23 years

Eastern Engineering
21 years

Education & Licenses

- B.S. Civil & Environmental Engineering, The Citadel, 1999
- SC Registered Professional Engineer, License No. 23166
- GA Registered Professional Engineer, License No. PE030140

Key Responsibilities

- Water, sewer, storm drainage, and site design
- Construction plans, calculations, specifications, contract documents, and construction permitting
- Oversee project management
- Coordinate client relations
- Project bidding and construction administration
- Funding Acquisition
- GIS Mapping

Relevant Project Experience

Olanta Sewer Rehabilitation

As a Project Engineer for this USDA and RIA funded project, Jason completed a comprehensive analysis of the Town of Olanta's sewer system. Through CCTV sewer main line inspections, physical manhole inspections, smoke testing, and field surveying, Jason identified hundreds of sources contributing to the Town's excessive inflow and infiltration. Jason developed a ranking system for these issues and established a plan for eliminating these issues to reduce the inflow and infiltration on the system.

Olanta Lift Station Upgrades

Jason served as Project Manager and Project Engineer for this SRF sanitary sewer lift station replacement project. Jason obtained over $750k in SRF funding, completed design calculations, prepared construction plans, specifications, contract documents, obtained construction permits, provided bidding services, and is providing construction administration services during construction.

New Hope Tank & Well

This water system improvement project involved the design and construction of an elevated water storage tank and a deep water well in Coward, SC. As Project Engineer, Jason completed design calculations, construction plans, specifications, contract documents, and obtained construction permits.

Trio Water System Project

Jason served as the Project Manager and Project Engineer for this project, which included the design and construction of 62 miles of water line extensions, 143 new fire hydrants, and 281 new service connections in the Trio community of Williamsburg County. Jason secured $11.5M in USDA funding for this project. Jason's major responsibilities also included design calculations, construction plans, specifications, contract documents, and construction permitting.

McMillan-Gibson Road Water Extensions

Jason served as the Project Manager and Project Engineer for this CDBG water extension project in Greeleyville, SC. This project included the design and construction of three miles of water line, eight fire hydrants, and 40 new service connections. Jason obtained over $500k in CDBG funding, completed design calculations, prepared construction plans, specifications, contract documents, obtained construction permits, provided bidding and construction administration services, and obtained the final operating permit.

Kelsie D. Hanna, E.I.T.

Engineering Associate

Kelsie began working with Eastern Engineering as an intern in 2018 and joined our firm as an engineering associate when she graduated from Clemson University in 2020. Kelsie has since gained experience in water, sewer, storm drainage, and site design and recently passed the SC Principles and Practice of Engineering (PE) exam.

Industry Experience

4 years

Eastern Engineering

4 years

Education & Licenses

- B.S. Civil Engineering, Clemson University, 2020
- SC Registered Engineer in Training, Registration No. EIT.21257

Key Responsibilities

- Water, sewer, storm drainage, and site design
- Construction plans, calculations, specifications, contract documents, and construction permitting
- Assist in project bidding and construction administration
- Funding Acquisition
- Preliminary Engineering Reports
- Environmental Assessments

Relevant Project Experience

Coward Water Improvements – 2019

This water extension project involved the design and construction of approximately three miles of waterlines, seven fire hydrants, and 48 new service connections in Coward, SC. As Project Engineer, Kelsie prepared construction plans, specifications, contract documents, obtained construction permits, provided bidding services, reviewed monthly contractor payment applications, and obtained the final operating permit.

Scranton Industrial Park Water Study

This study evaluated the available capacity of the Scranton Water System in Scranton, SC to determine system deficiencies and develop possible solutions to serve the new Scranton Industrial Park. As the Project Engineer, Kelsie developed a series of proposed improvement projects to correct existing issues and provide a scaled approach to increase capacity for varying potential water demands. This study included developing a detailed WaterCad® model of the system using as-built drawings, GIS data, survey records, and water usage data.

Olanta Sewer Rehabilitation Project

Based on the findings of the Infiltration & Inflow completed by our firm on the Olanta Sewer System, our team developed a detailed plan to address the issues identified. As Project Engineer, Kelsie developed construction plans, specifications, contract documents, and obtained construction permits. Kelsie also assisted with construction administration and processing monthly contractor payment applications during construction.

Florence County Water Study

This study was a comprehensive analysis of the individual water systems throughout Florence County to determine deficiencies, areas lacking public water supply, and identify solutions for these problems. As Project Engineer, Kelsie's major responsibilities involved compiling and analyzing water system information and GIS data for each system. Kelsie used this data to evaluate franchise areas, existing and planned water infrastructure, water utilization rates, population served, and system deficiencies. Based on these findings, Kelsie made recommendations related to potential projects and funding solutions for each system.

Scranton Water Improvements – CPST III

Kelsie serves as Project Engineer for this project in Scranton, SC to design and construct six miles of water line extensions, 16 fire hydrants, and 39 new service connections. This project is the first phase of improvements Kelsie developed in the Scranton Industrial Park Water Study. Kelsie developed construction plans, specifications, and obtained construction permits. Kelsie used the completed design to apply for additional funding through SCIIP to expand the project scope and accomplish all improvements recommended in the study.

Randy De Bona

Office Manager / Senior Project Representative

Randy has spent the last 16 years as Eastern Engineering's office manager and senior project representative. During this time, Randy has overseen the successful construction of numerous projects. Through his years of experience, Randy has accumulated the knowledge and skills necessary to track construction progress, navigate any problems that arise, and ultimately ensure that all construction completed under his supervision is of the highest quality.

Industry Experience
37 years

Eastern Engineering
16 years

Education & Licenses

- B.A. Speech/English, Minor Language Arts & Physical Education, Marshall University, 1974
- SC Certified Erosion Inspector, License No. 2797

Key Responsibilities

- Office management
- Construction observations and inspections
- Utilities testing
- Construction progress documentation and updates
- Management of construction inspectors

Relevant Project Experience

Mouzon Water System Project

As the Senior Project Representative over this project, Randy is monitoring the construction of eight miles of waterlines, an elevated water storage tank, a new well, and SCADA improvements. Randy is responsible for overseeing all construction observation and inspections, tracking construction progress, testing constructed facilities, and completing weekly progress reports. Additionally, Randy has been essential in coordinating various construction activities between the four individual contractors performing work on this project.

Olanta Sewer Rehabilitation Project

Randy served as Senior Project Representative on this comprehensive sewer system rehabilitation project in Olanta, SC. This project consisted of various repairs to manholes, lift stations, sewer main lines, and service lines, along with spray lining of manholes and lift station wet wells. Randy performed construction observation, inspections, progress reports, and testing throughout the duration of the project. Randy also helped coordinate and oversee all testing and investigative field work during the study.

St. Lawrence Water System Project

Randy served as Senior Project Representative for this water system expansion project, which included the construction of around 35 miles of waterlines to serve the St. Lawrence Community of Williamsburg County, SC. During project construction, Randy's major responsibilities included construction observation and inspections, monitoring contractor progress and construction quality, completing construction progress report documents, and testing these water mains as they were constructed.

Greeleyville Sewer Phase 4 Project

The Greeleyville Sewer Phase 4 project included the construction of just over one mile of gravity and force main, 12 manholes, and a new lift station for the Town of Greeleyville in Williamsburg County, SC. Randy served as the Senior Project Representative for this project and was responsible for overseeing project construction, coordinating various construction activities when necessary, tracking construction progress, and completing all required testing. Randy also worked closely with the contractor and project engineer to resolve any issues encountered in the field during construction.

Millwood-Bloomingvale Water Project

Randy acted as the Senior Project Representative for this massive water expansion project. This project included the construction of approximately 115 miles of waterlines to serve the Millwood and Bloomingvale Communities of Williamsburg County, SC. Randy's major responsibilities for this project included construction observation, inspections, construction progress monitoring, and utilities testing.

Melvin Evans

Project Representative

Melvin began working with Eastern Engineering as a project representative in 2017. Before joining our firm, Melvin spent 30 years working in the construction and general maintenance industry. Through his decades of experience in the field, Melvin has accumulated a vast array of knowledge related to construction.

Industry Experience

35 years

Eastern Engineering

5 years

Education

- Clearwater High School, 1982

Key Responsibilities

- Construction observations and inspections
- Utilities testing
- Construction progress documentation

Relevant Project Experience

Greeleyville Sewer Improvements Project

Melvin serves as Project Representative for this sanitary sewer system expansion project which includes over two miles of gravity sewer and force mains, 39 manholes, and 68 new services in Greeleyville, SC. Melvin's responsibilities include daily construction observation, inspections, and testing. Melvin is working closely with the contractor, local utility providers, and the Town of Greeleyville to coordinate utility marking and locating. Melvin also facilitates communication between the contractor and engineer to assist with conflict resolution during construction.

Division 1 – Trio Water System Project

Melvin served as a Project Representative for this water system expansion project located in the Trio community of Williamsburg County, SC. The project consisted of 62 miles of water line extensions, 143 new fire hydrants, and 281 new service connections. Melvin performed construction observation, inspections, progress reports, and testing throughout the duration of the project's construction.

Coward Water Improvements – 2019

As Project Representative for this project, Melvin performed construction observation, inspections, progress reports, and testing. This water line extension project involved the construction of three miles of water lines, seven fire hydrants, and 48 new service connections.

Lane Sewer Improvements & Municipal Building

This sewer system expansion project includes the construction of seven miles of gravity and force main, 109 manholes, three residential grinder pumps, three lift stations, and a new 3,500-SF municipal building and parking lot for the Town of Lane in Williamsburg County, SC. Melvin oversees construction for both the sewer system expansion and the new building as Project Representative for this project. His responsibilities include construction observation, inspections, progress reports, and testing. Melvin verifies that all construction meets applicable codes and specifications. Melvin's responsibilities also include working with the contractor to identify potential solutions for any issues that arise during construction as well as facilitating communication with the engineer as needed.

Olanta Lift Station Upgrades

This project consists of replacing two existing sanitary sewer lift stations for the Town of Olanta, SC. As Project Representative for this project, Melvin's responsibilities include construction observation, inspections, progress reports, and testing throughout construction. Additionally, Melvin has been essential in helping the contractor maintain the functionality of the existing lift stations during construction of the new lift stations.

Engineering Experience of the Firm

Overview of Recent Experience

Eastern Engineering has decades of experience in securing funding for, designing, and overseeing construction of water and sewer projects throughout South Carolina. Through years of consistent success, our firm has built a loyal client base that repeatedly entrusts Eastern Engineering with their water and sewer infrastructure needs. Our work speaks for itself, and we take great pride in our ability to provide our clients with water and sewer projects that exceed their expectations.

The following table summarizes our work in water and sewer infrastructure over the last three years. For each of these projects, Eastern Engineering provided (or is providing) funding acquisition services as well as all engineering services necessary to complete the project's design and construction. In the following table, federally funded projects are indicated by **bold text.**

Table 1 – Summary of Recent Relevant Project Experience (Last Three Years)

Current Phase	Project Name	Project Type	Funding Source	Project Budget	Client
Planning / Preliminary Design	**Coward Water Improvements Project – Phase 1**	**-Well & Water Treatment Facility Replacement**	**ARPA / County**	**$1,478,706**	**Town of Coward**
Final Design	**Olanta Lead Service Line Inventory & Water Main Replacement**	**-Water System Evaluation -Water Line Replacement**	**SRF – PF**	**$998,916**	**Town of Olanta**
Final Design	**Coward Water System Reliability & Efficiency Improvements**	**-Master Meter Connection Renovation -SCADA Improvements**	**SRF – PF**	**$262,000**	**Town of Coward**
Final Design	**Lane Water System Improvements Lead Service Line Inventory and Water Main Replacement**	**-Water System Evaluation -Water Line Replacement -Master Meter Connection Renovation -Existing Well Improvements**	**SRF – PF**	**$1,000,000**	**Town of Lane**
Final Design	Olanta Water Improvements Project – CPST III	-Water Line Extension	CPST	$1,298,454	Town of Olanta
Final Design	**BPU Water Improvements Project**	**-Water Line Extension -New Tank Construction -New Well & Water Treatment Facility Construction -SCADA Improvements**	**USDA**	**$7,091,500**	**Barrineau Public Utilities (BPU)**
Permitting	Scranton Water Improvements Project – CPST III	-Water Line Extension	CPST	$2,385,000	Town of Scranton
Advertising & Bidding	**Heineman Road Water**	**-Water Line Extension**	**USDA**	**$826,100**	**Town of Lane**
Advertising & Bidding	**Trio-Earle Water System: Division 2 - Earle Water****	**-Water Line Extension**	**USDA**	**$11,287,364**	**Williamsburg County Water & Sewer Authority**
Advertising & Bidding	**Monetta Elevated Water Storage Tank**	**-New Tank Construction -SCADA Improvements**	**CDBG**	**$1,020,000**	**Town of Monetta**

Current Phase	Project Name	Project Type	Funding Source	Project Budget	Client
Construction	**Greeleyville Sewer Improvements Project**	**-Sewer Line Extension -New Force Main Installation**	**USDA / RIA / SCDOC**	**$2,541,055**	**Town of Greeleyville**
Construction	**Lane Sewer Improvements & Municipal Building**	**-Sewer Line Extension -New Force Main Installation -New Wastewater Lift/Pump Station Construction -New Municipal Services Building & Parking Lot**	**USDA / ARPA**	**$6,751,777**	**Town of Lane**
Construction	**Mouzon Water System Project****	**-Water Line Extension -New Tank Construction -New Well & Water Treatment Facility Construction -SCADA Improvements**	**USDA**	**$3,631,511**	**Williamsburg County Water & Sewer Authority**
Construction	**Olanta Lift Station Upgrades**	**-Wastewater Lift Station Repairs/Replacement**	**SRF – PF**	**$767,516**	**Town of Olanta**
Completed (2022)	**Olanta Sewer Rehabilitation & Water Meter Replacement Project****	**-Sewer System Evaluation -Sewer Line Rehabilitation -Sewer Line Replacement -Wastewater Lift/Pump Station Repairs**	**USDA / RIA**	**$1,452,121**	**Town of Olanta**
Completed (2022)	Easler Highway Waterline Extension	-Water Line Extension	Town	$24,750	Town of Greeleyville
Completed (2021)	**McMillan-Gibson Road Water**	**-Water Line Extension**	**CDBG**	**$533,794**	**Town of Greeleyville**
Completed (2021)	**Trio-Earle Water System: Division 1 – Trio Water****	**-Water Line Extension**	**USDA**	**$12,219,140**	**Williamsburg County Water & Sewer Authority**
Completed (2021)	**Coward Water Improvements – 2019 (Divisions 1 & 2)**	**-Water Line Extension**	**ARPA / SCDHEC**	**$720,467**	**Town of Coward**
Completed (2021)	Scranton Water System Study**	-Water System Evaluation	Private	--	Santee Electric Cooperative
Completed (2021)	Scranton Sewer System Study	-Sewer System Evaluation	Private	--	Santee Electric Cooperative
Completed (2020)	Florence County Water Study**	-Water System Evaluation (All Water Systems Located in Florence County)	Florence County	--	Florence County

***** = Detailed project description provided.***

Table 2 – Funding Sources Defined

Acronym	Full Name	Funding Type
ARPA	American Rescue Plan Act	Federal
CDBG	Community Development Block Grant	Federal
CPST	Capital Project Sales Tax	Local / County
RIA	South Carolina Rural Infrastructure Authority	State
SCDOC	South Carolina Department of Commerce	State
SRF – PF	State Revolving Fund – Principal Forgiveness	Federal
USDA	United Stated Department of Agriculture	Federal

Project References

Barrineau Public Utilities (BPU)

Robbie Springs, Board Member
2088 Barrineau Road
Lake City, SC 29560
(843) 373-3223
robbie.sandm@yahoo.com

Florence County

K.G. "Rusty" Smith, Jr., Administrator
180 N. Irby Street
Florence, SC 29501
(843) 665-3035
kgrsmith@florenceco.org

Town of Lane

Charlie Fulton, Mayor
P.O. Box 39
Lane, SC 29564
(843) 387-5151
lane@ftc-i.net

Town of Olanta

Michael Welch, Mayor
P.O. Box 396
Olanta, SC 29114
(843) 372-2427
michael.welch@olantasc.com

Town of Scranton

Terry Knotts, Mayor
P.O. Box 279
Scranton, SC 29591
(843) 389-2222
scrantontown@gmail.com

Town of Coward

Dianne Thomas, Mayor
P.O. Box 67
Coward, SC 29530
(843) 389-2585
townofcoward@yahoo.com

Town of Greeleyville

Jesse Parker, Mayor
P.O. Box 212
Greeleyville, SC 29056
(843) 426-2111
jparker@tog.sc.gov

Town of Monetta

Charles McCormick, Mayor
290 Academy Street
Monetta, SC 29105
(803) 685-5258
townhallmon@comporium.net

Santee Electric Cooperative

Ronald Carter, Jr., Economic Development Manager
P.O. Box 548
Kingstree, SC 29556
(843) 355-6187
rcarter@santee.org

Williamsburg County Water & Sewer Authority

Dr. Tiffany Cooks, County Supervisor
P.O. Box 1124
Kingstree, SC 29556
(843) 355-9321
tiffany.cooks@wc.sc.gov

Selected Projects in Detail

Olanta Sewer Rehabilitation Project – Town of Olanta

The Town of Olanta is a small town located in Southwestern Florence County. The Town's sanitary sewage collection system consists of around 50,000 LF of sewer mains and 224 manholes. The Town does not have a wastewater treatment plant and instead pumps sewage to the nearby City of Lake City Wastewater Treatment Plant for treatment at a volume-based fee.

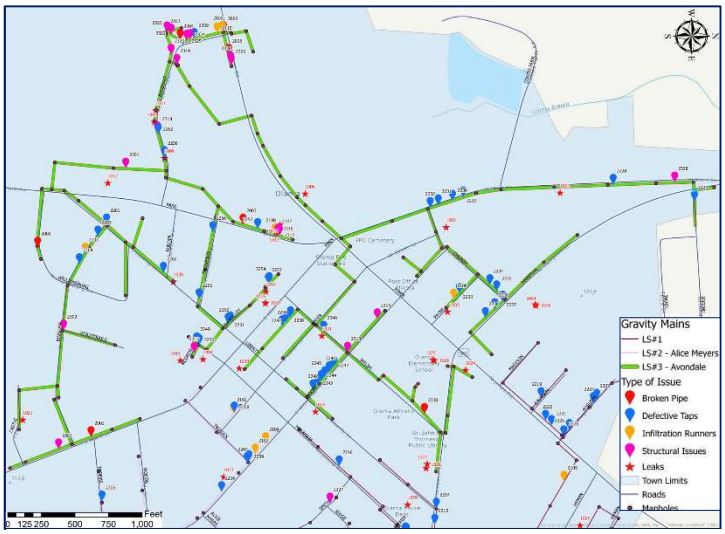


Figure 1 – Map of I&I Issues Identified (Lift Station #3)

When the Town of Olanta reached out to our firm in 2018, they were on the verge of bankruptcy. Substantial volumes of stormwater runoff were entering the sewer system through infiltration and inflow (I&I), and the Town of Olanta was losing thousands of dollars per month treating this excess water.

Our team developed a Preliminary Engineering Report, submitted a funding application to the USDA, and successfully secured over $1.5M in funds from USDA and RIA to analyze and fully rehabilitate the Olanta Sewer System. Our team completed a comprehensive analysis of the Town's sewer infrastructure and identified hundreds of potential sources of I&I on the system. Our team also explored various repair methods and developed a detailed plan to resolve these issues. Construction of this project was completed in September of 2022, and the Town of Olanta's excessive wastewater treatment volume has been reduced by over 60%, resulting in savings of up to $15k per month in wastewater treatment costs.

Scranton Water System Study – Santee Electric Cooperative (SEC)

Eastern Engineering was hired to complete a comprehensive study of the Town of Scranton's existing water system, including a full analysis of existing and projected system demands for the proposed Scranton Industrial Park, which is now near completion. Our team modeled and analyzed several demand scenarios based on a variety of industrial users and determined the additional supply and capacity that the system would need to accommodate these demands. Eastern Engineering also identified existing low pressure and flow issues on the system and evaluated solutions to restore adequate pressure and flow across the entire system.

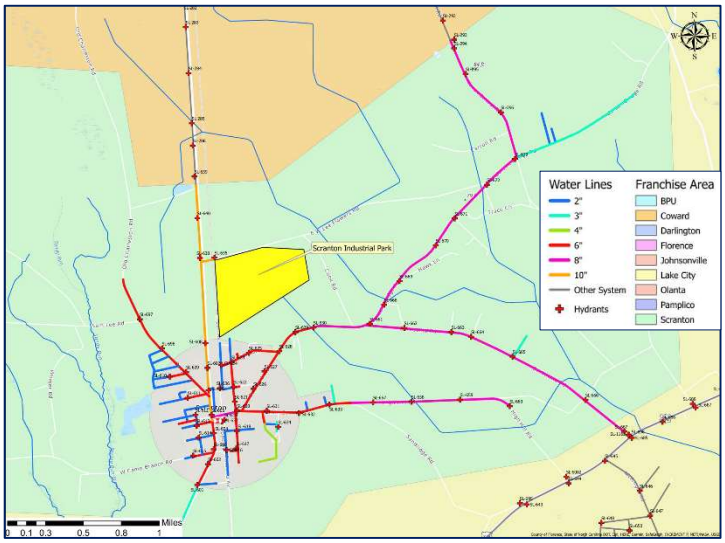


Figure 2 – Map of Existing Scranton Water System

Florence County Water Study – Florence County

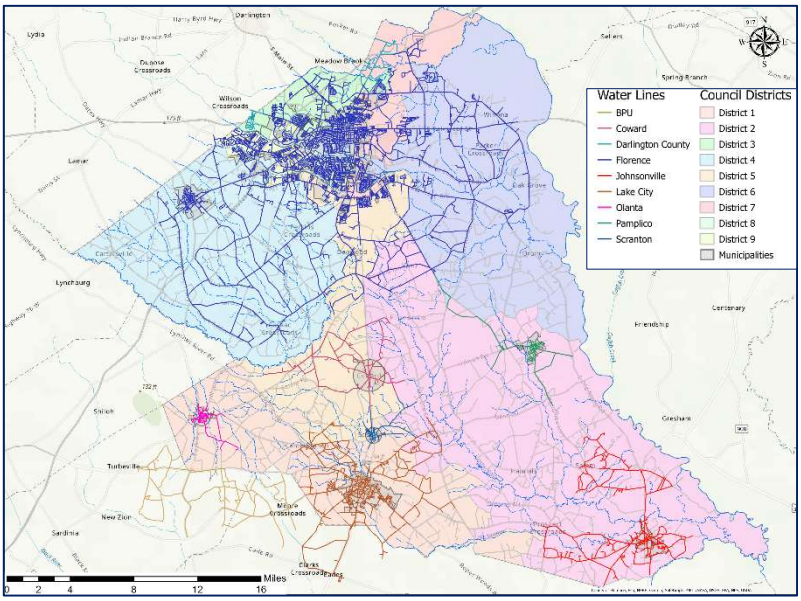


Figure 3 – Florence County Water Study, Map of Existing Water Systems

In 2019, Florence County procured Eastern Engineering to analyze public water availability throughout the unincorporated areas of Florence County. This involved analyzing each of the nine individual water systems that have been established in the county and their respective franchise areas. Our firm compiled and analyzed data for each water system, including system as-built information, GIS data, SCDHEC sanitary surveys, billing reports, and system master plans. Using this data, our engineers evaluated existing and planned water infrastructure, system deficiencies, water rates and fees, population served, and water utilization rates for each individual system. Through this study, our engineers identified several viable water expansion projects and potential funding solutions for each of the individual systems and made recommendations related to franchise agreements and rural fire protection.

Greeleyville Sewer Improvements Project – Town of Greeleyville


Figure 4 – Sewer Main Construction

The Town of Greeleyville has trusted Eastern Engineering to plan, fund, design, and oversee construction of the Town's entire sanitary sewer collection system and wastewater treatment plant. The Town's most recent sewer improvements project, the Greeleyville Sewer Improvements Project, is currently under construction and will be completed by January of 2023.

Originally, this project included around 1.7 miles of sewer mains, 30 manholes, and 54 services. During construction, the Town successfully secured additional funding to expand the original scope. Our team worked diligently to finalize plans and acquire permits for the additional work so that these items could be incorporated into the current project instead of creating a new project. The final project scope includes just over two miles of sewer mains, 39 manholes, 68 sewer services, and various repairs to the existing system to address issues identified during smoke testing. By expanding the original project scope rather than creating a new project, our firm saved the Town a substantial amount of time and money.

Trio-Earle Water System – Williamsburg County Water & Sewer Authority (WCWSA)

Eastern Engineering has been working with WCWSA since it was first established in 1996 to provide public water and sewer service in the rural, unincorporated areas throughout the county. Our firm developed

WCWSA's original water master plan, and our engineers have continuously updated this master plan to meet the County's evolving needs over the past two decades.

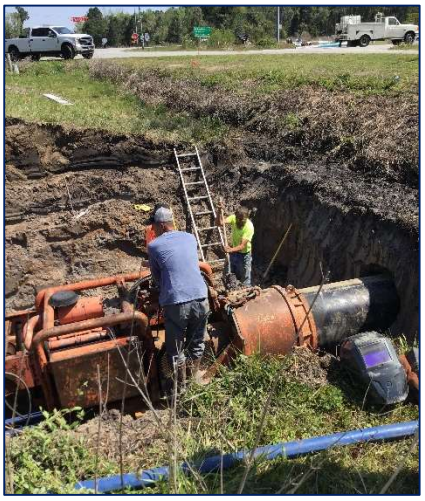


Figure 5 – Waterline Jack & Bore

Our firm has played a significant role in securing funding for every water expansion project that WCWSA has completed and has secured over $60 million in government funding for this system's design and construction so far. Additionally, aside from two minor waterline extensions, our firm has designed, permitted, and overseen construction of every aspect of the existing WCWSA Water System.

The existing WCWSA Water System is comprised of two hydraulically separate systems, the South Williamsburg County Water System and the Indiantown-Nesmith Water System. As a whole, the system's major infrastructure includes approximately 481 miles of waterlines, four wells and water treatment plants, three elevated water storage tanks, and five master meter connections to adjacent water systems.

The Trio-Earle Water System Project is by far the WCWSA's largest endeavor to date. This project, which was derived from other projects dating back to 2013, includes over 123 miles of waterline extensions split into two divisions, Division 1 – Trio Water System and Division 2 – Earle Water System.

This project was originally bid out in 2019; however, due to funding constraints, only Division 1 was awarded. While overseeing construction of Division 1, our engineers continued pursuing funding for Division 2's construction. Our team's diligence paid off, and USDA awarded an additional $11.3M for Division 2, for a combined total of $23.5M. Construction of Division 1 – Trio Water System was completed in 2021, and Division 2 – Earle Water System is currently out for bid.

Mouzon Water System Project – WCWSA

Figure 6 – Mouzon Well Construction

WCWSA procured Eastern Engineering to provide water service to residents of the Mouzon, Sandy Bay, and surrounding communities in Williamsburg County. These communities suffer from water quality issues and providing a safe source of drinking water is crucial to the well-being of these individuals. Utilizing cost-benefit and system analyses along with careful planning, our engineers determined that establishing a third stand-alone water system would be the most effective way to provide safe drinking water to these residents in a timely manner.

Eastern Engineering worked closely with WCWSA to develop the Mouzon-Sandy Bay Water System Master Plan and began pursuing funding for Phase 1, the Mouzon Water System Project. Our firm successfully secured funding through USDA for this project's design and construction. Our engineers provided all engineering services related to this project's planning, design, permitting, bidding, and award. Our firm is currently providing construction administration and observation services for this project, which includes approximately five miles of waterline as well as a new elevated water storage tank, deep well, and associated SCADA improvements.

Familiarity with Federal Funding Requirements

Since its founding, our firm has primarily focused on municipal water and sewer projects that are funded through state and federal funding agencies. Through this focus, our team has developed a highly specialized skillset that includes navigating federal funding regulations and procedures with ease.

Municipal American Rescue Plan Act (ARPA) Funds

One of our firm's most recently completed projects, the Coward Water Improvements – 2019 Project, was designed and constructed using the Town of Coward's allotted ARPA funds. Our team navigated all federal funding requirements to successfully complete this project in 2021. Additionally, our firm is currently working on the Lane Sewer Improvements & Municipal Building Project and the Coward Water Improvements – Phase 1 Project, both of which are partially funded through ARPA.

South Carolina Infrastructure Investment Program (SCIIP) ARPA Funds

In 2022, the South Carolina Rural Infrastructure Authority (RIA) announced that a portion of the State's allocated ARPA funds would be awarded to water and sewer utility providers to complete improvements projects through the competitive SCIIP. This program is a once-in-a-lifetime opportunity for many South Carolina municipalities to undertake transformational water and sewer capital improvement projects. Our firm worked with several local municipalities to develop potential projects and prepare and submit SCIIP applications for each of the projects shown in Table 3. During this process, our engineers became very familiar with these particular federal ARPA requirements. Our familiarity and experience with ARPA and other federal funding requirements enables our team to avoid any issues or delays that less experienced firms would likely encounter.

Table 3 – Eastern Engineering's Experience with ARPA-Funded SCIIP

Project Name	Project Type	Project Budget	Client
Pamplico Water Improvements Project – Phase 2	-Water Line Extension	$9,887,634	Town of Pamplico
Coward Water Improvements Project – Phase 2	-Water Line Extension -Well & Water Treatment Facility Replacement	$8,368,973	Town of Coward
Olanta Water Improvements Project – Phase 2	-Water Line Extension	$9,990,192	Town of Olanta
Scranton Water Improvements Project – Phase 2	-Water Line Extension -New Tank Construction -New Well & Water Treatment Facility Construction -SCADA Improvements	$8,428,449	Town of Scranton
Snow Hill Water Improvements Project	-Water Line Extension -New Tank Construction -New Well & Water Treatment Facility Construction	$12,643,549	Town of Greeleyville
Sandy Bay Water Improvements	-Water Line Extension	$3,105,578	WCWSA
Williamsburg County Water Improvements Project	-Water Line Extension -New Well & Water Treatment Facility Construction -SCADA Improvements	$3,318,893	WCWSA
BPU Water Improvements Project – Phase 2	-Water Line Extension	$8,391,335	Barrineau Public Utilities

Other Federal Funding Experience

In addition to the federally funded projects shown in *Table 1 – Summary of Recent Relevant Project Experience*, Eastern Engineering has provided funding acquisition services and all engineering services related to the design and construction of the following federally funded projects over the last ten years.

Table 4 – Eastern Engineering's Past Federally Funded Projects

Year Completed	Project Name	Federal Funding Agency	Project Budget	Client
2019	St. Lawrence Water	USDA	$4,730,419	WCWSA
2018	Lane Sewer System Phase 3	CDBG	$504,312	Town of Lane
2017	Greeleyville Sewer Phase 4	CDBG	$467,596	Town of Greeleyville
2016	Water Well Replacement Project (New Wells Project)	CDBG	$610,099	Town of Scranton
2016	Drinking Water and Wastewater Improvements	EPA	$819,083	Town of Coward
2015	Millwood-Bloomingvale Water	USDA	$17,638,223	WCWSA
2013	Morris Corner Water Phase 1	CDBG	$505,150	WCWSA
2013	Beulah Road Sewer Phase 2	USDA	$473,335	WCWSA
2013	Kingstree East Water Phase 2	USDA	$3,606,913	WCWSA
2013	Beulah Road Sewer Phase 1	CDBG	$600,704	City of Lake City
2012	Andrews Lift Station Improvements Phase 2	CDBG	$333,276	Town of Andrews
2012	Greeleyville Sewer Phase 3	CDBG	$617,540	Town of Greeleyville
2012	St. Mark – Williams Enterprise Water System (St. Mark Water Extension Project)	CDBG	$712,729	WCWSA
2012	Kingstree East Water Phase 1	USDA	$3,742,997	WCWSA

Licensing & Eligibility

All required business licensing associated with Eastern Engineering of SC, LLC is current and valid to do business in the State of South Carolina. Eastern Engineering, its principals, and all personnel are not currently ineligible, debarred, or suspended, and are in no way excluded from proposing or contracting by any state or federal agency, department, or authority.

Conclusion

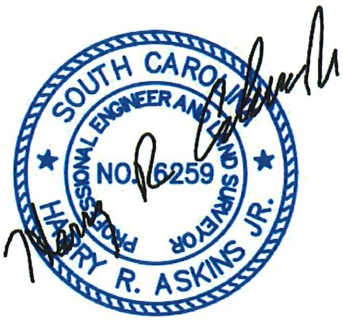
We at Eastern Engineering are confident that our firm is an ideal candidate to provide any South Carolina municipality with professional engineering services for water and sewer system improvements projects using federal ARPA funds. Our firm has decades of experience in working with South Carolina municipalities to complete water and sewer infrastructure projects using federal and state funds. Our engineers have developed a deep understanding of the technical approach that should be taken to successfully complete these types of projects, and our team is able to avoid many issues and delays that less experienced firms may encounter.

We at Eastern Engineering thank you for the opportunity to submit our Statement of Qualifications for Engineering Services to the Municipal Association of South Carolina. We hope that you will see the value of our extensive industry and funding experience.

Professional Certification

I, Harry R. Askins, Jr., P.E., owner of Eastern Engineering of SC, LLC and officer with contracting authority, hereby verify that the contents of this proposal are true, accurate, and are approved by me. I hereby certify that I am a duly licensed professional engineer under the laws of the State of South Carolina, License No. 6259, Expiration Date: 06-30-24.

Signature: _____ Date: 10-17-2022



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