ECM

STATEMENT OF QUALIFICATIONS
Routine Engineering Services for Water Projects
Jefferson Parish, Louisiana
Resolution No. 144203 | SOQ 24-013


Submitted To:

Jefferson Parish Purchasing Department
General Government Building
200 Derbigny Street, Suite 6700
Gretna, LA 70053

Submitted By:
ECM Consultants, Inc.
1301 Clearview Parkway, Suite 200, Metairie,
Louisiana 70001
Telephone: 504-885-4080 • Fax: 504-885-1439
kazem@ecmconsultants.com

In Association With:
BFM Corporation, LLC
Gulf South Engineering and Testing, Inc
IMC Consulting Engineers, Inc.

June 21, 2024

ECM Consultants, Inc.

Engineers • Architects • Construction Managers

Email: mail@ecmconsultants.com Web: www.ecmconsultants.com

1301 Clearview Parkway, Suite 200
Metairie, LA 70001
Phone (504) 885-4080

8048 One Calais Avenue, Suite F
Baton Rouge, LA 70809
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400 E. Kaliste Saloom Road Suite 4100
Lafayette, LA 70508
Phone (504) 885-4080

June 20, 2024

Jefferson Parish Council
General Government Building
200 Derbigny Street, Suite 6700
Gretna, LA 70053

Re: **Routine Engineering Services for Water Projects in Jefferson Parish**
Resolution No. 144203 | SOQ 24-013

Jefferson Parish Council:

ECM Consultants, Inc. is a licensed engineering, architectural and construction management firm headquartered in Metairie, LA, offering experience and qualifications relevant to this SOQ. We are pleased to submit one (1) electronic copy, via www.centralauctionhouse.com, of our Statement of Qualifications (TEC Questionnaire) for the above referenced project.

ECM has extensive expertise providing professional services for drainage projects to various clients such as: Jefferson Parish Dept. of Public Works, City of New Orleans Dept. of Public Works, LADOTD, City of Baton Rouge Dept. of Public Works, NOAB, and other agencies. ECM has provided professional services for engineering design and preparation of plans, specifications and estimates; construction administration; and resident inspection for numerous drainage projects.

Our TEC questionnaire will demonstrate our specialized experience in design and construction of drainage systems including subsurface drainage, major box culverts, drainage pumping stations, and drainage canals.

Our team includes BFM Corporation, LLC for surveying services, Gulf South Engineering and Testing for geotechnical services and IMC Consulting Engineers, Inc. for mechanical/electrical engineering. Upon review of our qualification package, we hope our team will receive favorable consideration.

We look forward to continuing our excellent working relationship with Jefferson Parish. Should you have any questions or require any additional information, please contact us.

Sincerely,

Kazem Alikhani, P.E.
Chief Executive Officer

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Letter of Interest and Statement of Qualifications
Routine Engineering Services for Water Projects
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Section 1

ECM Consultants, Inc.

TEC Professional Services Questionnaire

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Routine Engineering Services for Water Projects in Jefferson Parish
Resolution No. 144203 | SOQ 24-013

B. Firm Name & Address where Project work will be performed:

ECM Consultants, Inc.
1301 Clearview Parkway, Suite 200
Metairie, LA 70001

C. Name, title and contact information of Principal, as defined in Section 2-926 of the Jefferson Parish Code of Ordinances, who is a registered, licensed architect, professional engineer, or surveyor in the State of Louisiana:

Principal:

Ujjal DasGupta, P.E.
Louisiana Licensed Professional Engineer
P.E. License No. 19848
Tel: (504) 885-4080 Fax: (504) 885-1439
Email: ujjal@ecmconsultants.com

D. Name and contact information of employee who is a registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline.

Professional in Charge of Project:

Sunina Shrestha, P.E., Engineering Manager
Louisiana Licensed Professional Engineer
P.E. License No. 37901
Tel: (504) 885-4080 Fax: (504) 885-1439
Email: sshrestha@ecmconsultants.com

E. Please provide the number of employees whose primary function corresponds with each category

8 Administrative	0 Estimators	0 Specification Writers
1 Architects	0 Geologists	2 Structural Engineers
0 Chemical Engineers	0 Geotechnical Engineers	0 Graduate Engineers
16 Civil Engineers	0 Interior Designers	4 Project Managers
32 Construction Inspectors	0 Landscape Architects	0 Clerical
0 Ecologists	0 Land Surveyor	1 Grant/Fund Specialists
1 Electrical Engineers	2 Mechanical Engineers	0 Sanitary Engineers
2 Engineer Intern	0 Environmental Engineers	
0 Professional Land Surveyors	3 CAD Technicians	

72 TOTAL

F. Is this submittal by a JOINT-VENTURE? Please check: YES NO ✓
If marked "No" skip to Section I. if Marked "yes" complete Sections G-H.

TEC Professional Services Questionnaire

G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.

1. N/A

2. N/A

H. Has this JOINT-VENTURE previously worked together? Please check:
YES____NO ____ N/A

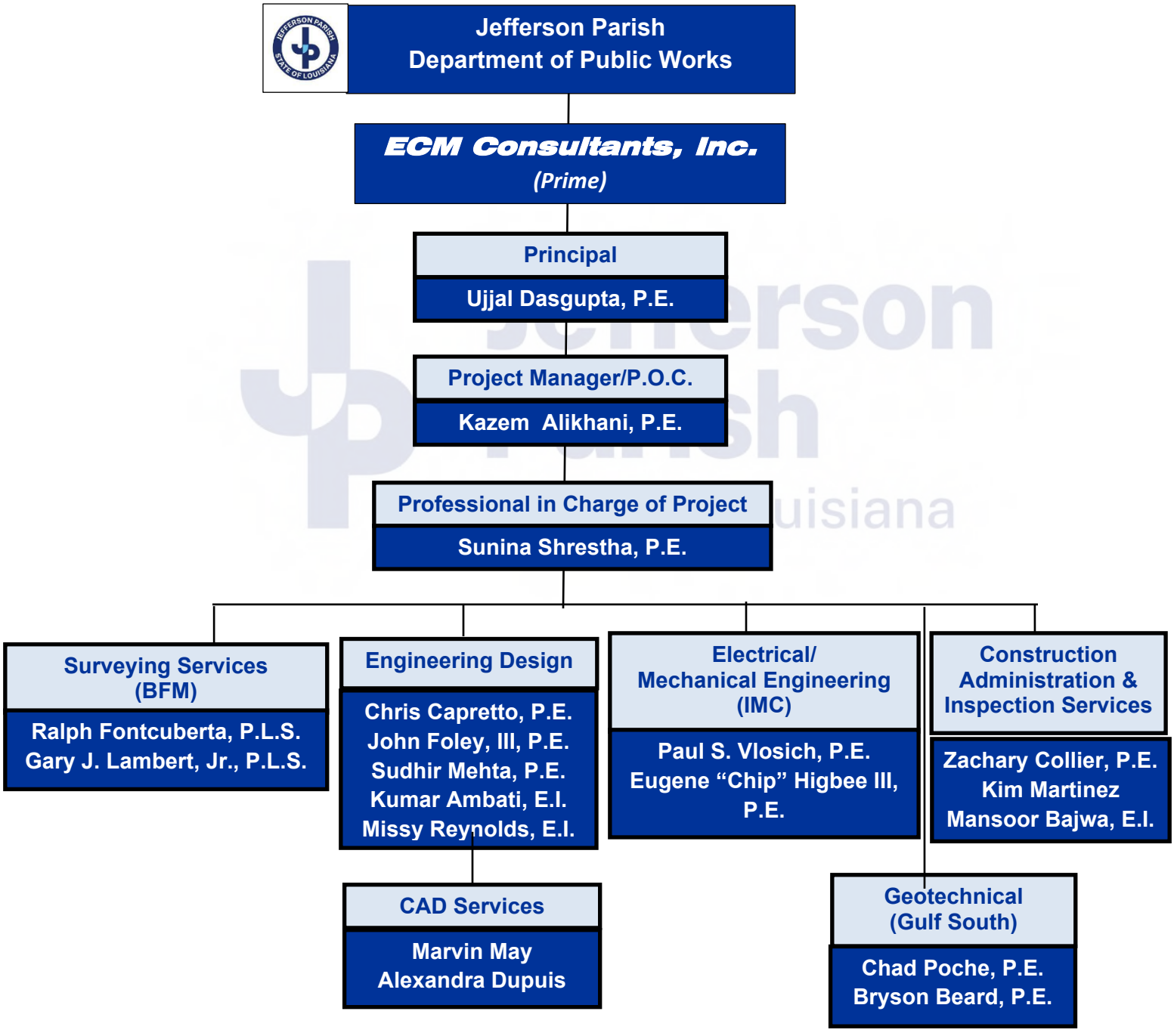
I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. BFM Corporation 15 Veterans Memorial Boulevard Kenner LA 70062	Surveying Services	YES
2. GULF SOUTH ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants 2201 Aberdeen St. Kenner, LA 70062	Geotechnical Engineering	YES
3. IMC CONSULTING ENGINEERS INC. 2714 Independence Street Metairie, LA 70006	Mechanical & Electrical Engineering	YES

J. Please specify the total number of support personnel that may assist in the completion of this Project:
13

K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e. resume) that demonstrates the employment history and experience of the Firm's key persons that may assist in the completion of this Project. Please attach additional page if necessary.

ORGANIZATIONAL CHART



PROFESSIONAL IN CHARGE OF PROJECT:
Name & Title:
Sunina Shrestha, P.E., Engineering Manager
Project Assignment:
Professional In Charge of Project
Name of Firm with which Associated:
ECM Consultants, Inc.
Years' experience with this Firm:
16
Education: Degree(s)/Year/Specialization:
M.S./2008/Civil Engineering, Water Resources, and Environmental Engineering
Active registration: Year first registered/discipline:
2013/Civil Engineering/LA License No. 37901
Other experience and qualifications relevant to the proposed Project:

Ms. Shrestha has **16 years of experience** in analysis and design of streets, drainage, water and sewer systems for many projects involving reconstruction, rehabilitation, new construction as well as upgrade of drainage, **water** and sewer systems Her experience also includes preparation of PS&E and engineering review of designs and construction plans and specifications for various roadway, drainage, water and sewer systems, designed by other engineers.

Employment History:

- ECM Consultants Inc., LA, *Civil Engineer (2009-present)*
- UAH, *Graduate Research Assistant in Civil Eng. (2007)*
- RITI Consultancy Pvt. Ltd., Nepal, *Field Engineer (2005)*

Water System Relocation for Jefferson Avenue, S&WB of New Orleans and USACE; New Orleans, LA: This project consisted of design for removal and replacement of roadway, sewer and water line relocations, in connection with construction of a box culvert in the median of Jefferson Ave. Design work was coordinated with both USACE and the S&WB of New Orleans. Ms. Shrestha provided engineering design for roadway, roadway drainage, and relocation of water and sewer lines.

Relocation of Waterline for Napoleon Avenue, S&WB of New Orleans and USACE; New Orleans, LA: Ms. Shrestha provided civil engineering design for this project that included design and preparation of plans, specifications, and estimates for roadway removal and reconstruction; replacement of **12" water mains,** sewer mains, including service lines and new subsurface drainage within the project.

Lake Shore Group E, New Orleans, LA: Ms. Shrestha is serving as the civil engineer for this roadway reconstruction project that involves design and preparation of plans, specifications and estimate (PS&E) for removal and replacement of PCC and asphalt roadway and H&H analysis for drain system design, removal and replacement of sewer lines including service lines, removal and replacement of water lines within the project limit. She was also involved in coordination with S&WB, park and parkways and other utility entities.

Water Line Replacement for Read Blvd. Neighborhoods East-Group I, S&WB of New Orleans; New Orleans, LA: Ms. Shrestha provided design services to replace 1075 L of 8" water line on Chrysler St. and King Richard Dr. including valves, service lines, fire hydrants, temporary pavement restoration, and cost estimates. She also provided design services to replace 1465 lf of 8" water line and 525 lf of 12" diameter water line on Bright Dr., Chef Menteur Blvd., Coronado Dr., and Hillwood St.

Water Line Replacement for Village De L'est, S&WB of New Orleans, New Orleans, LA: Ms. Shrestha performed engineering design and prepared PS&E for water line replacements in the Village De L'est neighborhood. The project includes replacement of 3,955 LF of 8" water line and 1,414 LF 12" water lines for various streets.

Water Line Replacement for Read Blvd. West Neighborhoods, S&WB of New Orleans, New Orleans, LA: Ms. Shrestha provided engineering design services to replace 7,529 LF of 8" water line and 650 LF of 12" water line including valves, service lines, fire hydrants, temporary pavement restoration, and cost estimates.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Ujjal DasGupta, P.E., President
Project Assignment:
Principal-In-Charge
Name of Firm with which Associated:
ECM Consultants, Inc.
Years' experience with this Firm:
26
Education: Degree(s)/Year/Specialization:
B.S./1968/Civil Engineering
Active registration: Year first registered/discipline:
1982/Civil Engineering/LA License No. 19849
Other experience and qualifications relevant to the proposed Project:

Mr. DasGupta has over 53 years of experience in the fields of civil and structural engineering, project management, and construction engineering. He has been responsible for managing design and construction engineering services for many major and minor streets for the City of New Orleans, Jefferson Parish, City of Kenner, and bridge designs for LADOTD.

Employment History:

- ECM Consultants Inc., LA, *President (1995-present)*
- C&S Consultants, Inc., LA, *Vice President (1983-1995)*
- Pepper & Associates & Kiddie Consultants, LA, *Sr. Engineer (1980-1983)*
- McDermott, Inc., LA, *Sr. Structural Engineer (1980-1982)*
- Dunbar & Dickson, Inc., TX, *Project Engineer (1976-1980)*
- Public Works Department., India, *Assistant Engineer (1968-1976*

Water Line Replacement for Gravier Street Improvements, City of New Orleans-DPW, New Orleans, LA: Mr. DasGupta served as project manager for this design project involving roadway reconstruction, storm drainage, and **20" water line** replacement at Gravier Street between S. Galvez and Broad.

Water Line Replacement for Jefferson Avenue, Sewerage and Water Board of New Orleans and USACE: Mr. DasGupta served as Project Manager for ECM for this $50 million project consisting of design for roadway reconstruction from South Claiborne Avenue to Dryades Street on Jefferson Avenue in New Orleans in connection with construction of a concrete box culvert in the roadway median. Work included design and preparation of PS&E for removal and replacement of street paving, sewer and **water system relocations**.

Replacement of Water Distribution Lines For East Cargo Road and Utilities Project for New Orleans Aviation Board: Mr. DasGupta served as Project Manager for this project involving design and preparation of plans and specifications for the $ 8.7 million East Air Cargo Roads and utilities project at Louis Armstrong New Orleans International Airport. The project also included replacing all water distribution lines in the project area and tie-in to the main distribution line at Airline Highway.

Improvements to the Carrollton Water Treatment Plant, New Orleans, LA: Mr. DasGupta provided engineering services for a study, modifications, and improvements to Sewerage & Water Board's Carrollton Water Treatment Plant to meet the requirements of the "Safe Drinking Water Act"

Waterline Relocation for Rehabilitation of S. Claiborne Avenue (Jena Street to Louisiana Avenue): Mr. DasGupta served as Project Manager for this project involving relocation/modification of a **42" water line** in connection with S. Claiborne area drainage improvements for the U.S. Army Corps of Engineers and S&WB of New Orleans.

Replacement of Water Lines for St. Bernard Housing Development, New Orleans, LA: Mr. DasGupta supervised this $11 million project involving replacement of water, sewer, and drainage lines at St. Bernard Housing Development.

Water Line Replacement for Read Blvd. Neighborhoods East Group I, S&WB of New Orleans, New Orleans, LA: Mr. DasGupta served as Project Manager where ECM provided design services to replace 1075 LF of **8" water line** on Chrysler Street and King Richard Drive, including valves, service lines, fire hydrants, temporary pavement restoration, and cost estimates. The project also involved design services to replace **1465 LF of 8" water line and 525 LF of 12" diameter water line** on Bright Drive, Chef Menteur Blvd., Coronado Drive, and Hillwood Street.

Water Line Replacement for Village De L'est, S&WB of New Orleans, New Orleans, LA: Mr. DasGupta served as ECM's Project Manager for water line replacements in the Village De L'est neighborhood. The project includes replacement of 3,955 LF of 8" water line and 1,414 LF 12" water lines for various streets.

Water Line Replacement for Read Blvd. West Neighborhoods, S&WB of New Orleans, New Orleans, LA: Mr. DasGupta served as ECM's Project Manager for engineering design services to **replace 7,529 LF of 8" water line and 650 LF of 12" water line including valves, service lines, fire hydrants**, temporary pavement restoration, and cost estimates.

Minor Streets in District "E", City of New Orleans DPW, New Orleans, LA: Mr. DasGupta served as Project Manager for design and construction inspection of this $2.6 million roadway improvements project which included replacement of subsurface drainage, **water** and sewer system for Carney, Knights, Dreaux, and Forstall Streets.

Aircraft Rescue and Fire Fighting Building (ARFF) at LANOIA, New Orleans Aviation Board, Kenner, LA: This project involved A-E design of a new $10 million, 24,000 sf Aircraft Rescue and Fire Fighting building including pavement, **wate**r, wastewater, and storm drainage design, and site paving. As Joint Venture partner, Mr. DasGupta served as the Assistant Project Manager.

Program Management for Katrina Damaged Repairs to Water Systems, S&WB of New Orleans: Mr. DasGupta served as Project Manager of ECM as subconsultant to CH2M for this $73 million contract. ECM provided program management support involving constructability reviews of plans specifications and document control. This includes uploading daily reports to Primavera Contract Manager (PCM), checking monthly pay applications, change order management, maintaining RFI's & PCO's and logs, meeting minutes and all project related documents. ECM also provided construction management and inspection services for all construction projects at Central Yard and Carrollton Water Treatment Plant under this program.

Water Line Replacement for FEMA Recovery Roads, St. Bernard & City Park Neighborhoods, City of New Orleans, LA: Mr. DasGupta served as Project Manager for design services for FEMA eligible repairs in the St. Bernard and City Park neighborhoods. Work included replacement of water lines, roadway rehabilitation involving base repairs, asphalt leveling course and overlay, drainage improvements, curb and sidewalk repairs.

Napoleon Ave. Rehabilitation (S. Claiborne to Carondelet St.), S&WB of New Orleans, New Orleans, LA: Mr. DasGupta served as Principal in Charge for ECM for this $55.1 million SELA-funded project involving design and preparation of plans, specifications and cost estimates (PS&E) for reconstruction of Napoleon Ave. from S. Claiborne to Carondelet St. in connection with construction of the concrete box culvert in the Napoleon Ave. median. Work also included replacement of water and sewer mains including service lines. Design work was coordinated with USACE, Sewerage & Water Board of New Orleans, and City of New Orleans DPW.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Kazem Alikhani, P.E., Chief Executive Officer
Project Assignment:
Professional in Charge & POC
Name of Firm with which Associated:
ECM Consultants, Inc.
Years' experience with this Firm:
8
Education: Degree(s)/Year/Specialization:
M.S./1984/Civil, H&H Engineering; B.S./1980/Mechanical Engineering
Active registration: Year first registered/discipline:
1992/Mechanical & Environmental Engineering/LA License No. 25073

Other experience and qualifications relevant to the proposed Project:
Mr. Alikhani has over 43 years of experience in public works projects including planning, design and construction management. As CEO of ECM, Mr. Alikhani serves as Project Manager for a variety of infrastructure projects, overseeing staff, budgets, timeline and working with owners, consulting firms and subconsultants to ensure timely and accurate project delivery. He spent a majority of his career working with Jefferson Parish Dept. of Public Works and was the Director of Public Works, responsible for all public works functions and overseeing an annual operating budget of $200M and a capital budget of over $100 million. His public works oversight consisted of managing nine departments: drainage (canals, subsurface, pump stations), sewage (collection system and wastewater treatment plants), water (distribution and water treatment plants), streets (over 3,200 lane miles), parkways, environmental, Floodplain Management and Hazard Mitigation, engineering; Capital projects including planning, managing engineering and construction of capital project improvements.

He has planned, designed and managed numerous projects from inception to completion including Southeast Louisiana Flood Protection Program (SELA), Road Bond Improvement Program, Sewer Capital Improvement Program, and many FEMA, HMGP, and CDBG-funded projects. Mr. Alikhani was the 2012 recipient for "Lifetime Achievement Excellence in Government" by the BGR.

Employment History:

- ECM Consultants, Inc., *Chief Executive Officer (2016-Present)*
- Jefferson Parish DPW, *Director of Public Works (2010-2016)*
- Jefferson Parish DPW, *Director of Drainage (2004-2010)*
- Jefferson Parish DPW, *Asst. Director of Water (1995-2004)*
- Jefferson Parish DPW, *Drainage Dept. Engr. (1982-1994)*
- Guillot & Vogt Engineering, *Engineer (1980-1982)*

East Bank Water Treatment Plant, Jefferson Parish, LA: Mr. Alikhani is the Project Manager for the Technical Review group that have been reviewing the design of the new East Bank Water Treatment P4 and the new chemical building. The technical review includes the treatment plant, process, equipment, piping, the civil site plan for a 10-acre expansion, roadways, driveways, parking lots, rerouted subsurface drainage, sewer and water utilities, architectural, electrical and mechanical. Technical Review included value engineering evaluation.

Grand Isle Water System Improvement, Jefferson Parish, LA. Mr. Alikhani is the project manager who is currently overseeing the Grand Isle Water System Improvement Project. This project involves a chemical feed system analysis at the East tanks and Cheniere site, evaluating and recommending modifications for the Rosethorne station, designing a new ground storage tank, and upgrading waterlines by installing a 12" HDPE line beneath Caminada Bay and replacing a 4" line with an 8" line along Hwy 1 from Beverly Drive to Central Ave. Utilizing Infowater software, an AutoCAD extension, to determine required pipe sizes along the Caminada Bridge at Pompano Lane to Rosethorne.

Various Projects under LDEQ Clean Water State Revolving Loan Fund; Jefferson Parish, LA (2014): As Director of Public Works for Jefferson Parish, Mr. Alikhani helped secure $55 million in low interest loans through the Louisiana Department of Environmental Quality (LDEQ) Clean Water State Revolving Loan Fund for design and construction of improvements to numerous treatment plants, lift stations and force mains across the Parish. Mr. Alikhani managed the planning, allocation of resources, design and construction for all public works projects

under these loans. Several projects under this LDEQ fund include Terrytown Sewerage Pump Station Improvements, East Bank WWTP Rehabilitation of Belt Presses; Jefferson Hwy. and Midway Sewage Lift Station Rehabilitation and Improvements; and design and installation of Odor Control Systems at various sewage lift stations.

Assistant Director, Department of Water, Jefferson Parish Dept. of Public Works, Jefferson Parish, LA: Mr. Alikhani assisted in the administration and management of all aspects of the Water Department operations, including operations of 140 MGD water treatment plants, maintenance and upkeep of **1,600 miles of distribution water lines,** and overseeing 140,000 utility billing accounts. He managed and coordinated capital projects ranging from $300,000-$25 million and developed a $24 million annual operating budget. He managed and negotiated consultant engineering contracts, prepared engineering plans and specifications, and oversaw the GIS and SCADA systems of the department.

Ames Blvd and Leo Kerner Pkwy Waterline Feasibility Study, Jefferson Parish, LA. Mr. Alkhani is the Project Manager that led the preparation of a feasibility study for replacing 14–36-inch prestressed concrete pipes with HDPE pipes along Ames Blvd and Leo Kerner Pkwy from Lapalco Blvd to the Intracoastal Waterway, covering 61,947 feet. The study evaluated three construction methods—open cut, directional drilling, and compression fit—assessing costs, impacts, and project segmentation for design. Mr. Foley's expertise ensures thorough analysis and effective solutions for complex engineering challenges.

West Bank Water and Treatment Expansion, Jefferson Parish, LA: As Assistant Director of the Department of Water for Jefferson Parish, Mr. Alikhani's prime responsibility was operations and maintenance of Water Infrastructure that included water distribution system and the treatment plants. During his tenure in the Water Department, he planned, budgeted and managed the expansion of the west bank water treatment plan. The project involved increasing the water treatment capacity by 25 MGD, that also included chemical feed and electrical system upgrade, replacement of filter media with multimedia, air scour and SCADA system. Additionally, under his supervision, numerous new water lines were planned, designed and constructed to replace the old water lines with extensive repair history or install new water lines to eliminate dead end lines or loop the water lines. Furthermore, a 500,000-gallon water tower was constructed in Grand Isle and a **32 miles submarine 18" HDPE waterline** was designed and constructed from lower Lafitte to transfer 2 MGD of water to the island.

Water Line Replacement for FEMA Recovery Roads, St. Bernard & City Park Neighborhoods, City of New Orleans, LA: Mr. Alikhani provided project oversight for FEMA eligible repairs in the St. Bernard and City Park neighborhoods. Work included replacement of **water lines**, roadway rehabilitation involving base repairs, asphalt leveling course and overlay, drainage improvements, curb and sidewalk repairs.

Water Line Replacement for Read Blvd. Neighborhoods East Group I, S&WB of New Orleans; New Orleans, LA: Mr. Alikhani provided project oversight to replace **1075 lf of 8" water line** on Chrysler St. and King Richard Dr. including valves, service lines, fire hydrants, temporary pavement restoration, and cost estimates. She also provided design services to replace **1465 lf of 8" water line and 525 lf of 12" diameter water line** on Bright Dr., Chef Menteur Blvd., Coronado Dr., and Hillwood St.

Water Line Replacement for Village De L'est, S&WB of New Orleans, New Orleans, LA: Mr. Alikhani provided project oversight for engineering design and prepared PS&E for water line replacements in the Village De L'est neighborhood. The project includes replacement of **3,955 LF of 8" water line and 1,414 LF 12" water lines** for various streets.

Water Line Replacement for Read Blvd. West Neighborhoods, S&WB of New Orleans, New Orleans, LA: Mr. Alikhani provided project oversight for engineering design services to replace **7,529 LF of 8" water line and 650 LF of 12" water line including valves, service lines, fire hydrant**s, temporary pavement restoration, and cost estimates.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Christopher Capretto, P.E., Civil Engineer
Project Assignment:
Civil Engineer
Name of Firm with which Associated:
ECM Consultants, Inc.
Years' experience with this Firm:
9
Education: Degree(s)/Year/Specialization:
B.S./2009/Civil Engineering
Active registration: Year first registered/discipline:
2014/Civil Engineering/LA License No. 38641
Other experience and qualifications relevant to the proposed Project:

Mr. Capretto has 15 years of experience in highway and transportation projects, including bridge inspection and rating, pavement design, traffic analysis, design of horizontal and vertical alignments, and storm water drainage design. His participation in representative projects includes project management, design of steel structures, design of concrete foundations, modeling and detailed drafting of roadways, drainage design for urban and rural highways and streets, and coordination with federal agency representatives. Mr. Capretto is experienced in AutoCAD drafting, the writing and technical editing of design specifications, and various other technical support for engineering projects.

Employment History:

- ECM Consultants, Inc., LA, *Civil Engineer (2014-present)*
- Atlas Engineering, Inc./S&B Infrastructure, Ltd., *Civil Engineer (2008-2014)*

Veterans Blvd. and W. Esplanade Pumping Stations, Jefferson Parish, LA: Mr. Capretto is providing project management, engineering design, and preparation of PS&E for three new storm water pump stations for Jefferson Parish Dept. of Capital Projects. The project includes two pump stations at Veterans Blvd. at capacities of 27,000 gpm and 38,000 gpm and one pump station at W. Esplanade Ave. of capacity 54,000 gpm.

Water Line Replacement for FEMA Recovery Roads, St. Bernard & City Park Neighborhoods, City of New Orleans, LA: Mr. Capretto provided civil design services for FEMA eligible repairs in the St. Bernard and City Park neighborhoods. Work included replacement of water lines, roadway rehabilitation involving base repairs, asphalt leveling course and overlay, drainage improvements, curb and sidewalk repairs.

Water Line Replacement for Read Blvd. West Neighborhoods, S&WB of New Orleans, New Orleans, LA: Mr. Capretto provided design services to replace 7,529 LF of 8" water line and 650 LF of 12" water line including valves, service lines, fire hydrants, temporary pavement restoration, and cost estimates.

Water Line Replacement for Read Blvd. Neighborhoods East Group I, S&WB of New Orleans; New Orleans, LA: Mr. Capretto provided engineering design services to replace 1075 lf of 8" water line on Chrysler St. and King Richard Dr. including valves, service lines, fire hydrants, temporary pavement restoration, and cost estimates. He also provided design services to replace 1465 lf of 8" water line and 525 lf of 12" diameter water line on Bright Dr., Chef Menteur Blvd., Coronado Dr., and Hillwood St.

Water Line Replacement for Village De L'est, S&WB of New Orleans, New Orleans, LA: Mr. Capretto performed engineering design and prepared PS&E for water line replacements in the Village De L'est neighborhood. The project includes replacement of 3,955 LF of 8" water line and 1,414 LF 12" water lines for various streets.

Gravier St. Improvements (S. Galvez to S. Broad), City of New Orleans DPW; New Orleans, LA: Mr. Capretto provided construction administration services for this $4.8 million project as Assistant Project Engineer. He was also involved in design, preparation of plans and specifications, and cost estimates for roadway reconstruction including storm drainage and **new water** and sewer system.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
John Foley, P.E., Civil Engineer
Project Assignment:
Civil Engineer
Name of Firm with which Associated:
ECM Consultants, Inc.
Years' experience with this Firm:
5
Education: Degree(s)/Year/Specialization:
B.S./2014/Civil Engineering
Active registration: Year first registered/discipline:
2018/Civil Engineering/LA License No. 42740
Other experience and qualifications relevant to the proposed Project:

Mr. Foley is a Registered Professional Engineer with 10 years of experience designing public works projects including feasibility studies, environmental assessments, roadway, drainage, water and sewer systems improvements design.

Employment History:

- ECM Consultants Inc., Metairie, LA, *Civil Engineer (2019-to date)*
- Buchart Horn, Inc., Kenner, LA, Project *Engineer (2014-2019)*
- HNTB, Baton Rouge, LA, *Engineering Intern (2013-2014)*
- Louisiana State University, Baton Rouge, LA, Senior Design Project Manager and CAD Tech, *(2013-2014)*

Ames Blvd and Leo Kerner Pkwy Waterline Feasibility Study, Jefferson Parish, LA. Mr. Foley recently led the preparation of a feasibility study for replacing 14–36-inch prestressed concrete pipes with HDPE pipes along Ames Blvd and Leo Kerner Pkwy from Lapalco Blvd to the Intracoastal Waterway, covering 61,947 feet. The study evaluated three construction methods—open cut, directional drilling, and compression fit—assessing costs, impacts, and project segmentation for design. Mr. Foley's expertise ensures thorough analysis and effective solutions for complex engineering challenges.

Water Line Improvements Along N. I-10 Service Rd. and Vicinity of Clearview Mall, Jefferson Parish, LA. Mr. Foley oversaw the engineering design services and preparation of plans, specifications, and estimates (PS&E) for water line replacements along N. I-10 Service Rd. and near Clearview Mall. This project involves replacing 6,983 LF of 12" water lines, including valves, service lines, and fire hydrants. Mr. Foley coordinates topographic and subsurface utility surveys, verifies field data, and liaises with Jefferson Parish, Entergy, AT&T, and other utilities to ensure accurate integration of their information into the plan. Additionally, ECM provides construction administration and resident inspection services under John's guidance.

Program and Construction Management for 2017 Jefferson Parish Road Bond Program | Jefferson Parish DPW | Jefferson Parish, LA. Mr. Foley is involved in review of plans and specifications for multiple roadway projects that include roadway reconstructions, drainage upgrades and relocations of **water** and sewer systems at conflicts for the 2017 Jefferson Parish Road Bond Project on the Eastbank of Jefferson Parish. This project currently has $208 million of construction projects as of 2021.

West Bank Group B Street Improvements, City of New Orleans, LA. Mr. Foley provided engineering services for preliminary and final design plans for a designated list of streets to be enhanced in the West Bank regional area of New Orleans. The primary enhancements include mill and overlay with full depth patching, other incidental road repairs and drainage improvement and **water line** relocations at conflicts in certain sections of the project area.

Lake Terrace Oaks, Group-C, and Lake Shore Area Group-E, Roadway Improvements, City of New Orleans, LA. Mr. Foley is providing engineering design services for these projects that involve complete reconstruction of 20 blocks neighborhood PCCP roadway including subsurface drainage system, **replacement of water** and sewer

systems as required. Work includes PCC paving, new base, concrete curb, sidewalks, driveway aprons and ADA compliant ramps at roadway intersection

Gentilly Terrace Group E; New Orleans, LA: Mr. Foley is providing design services for this roadway reconstruction project that involves design and preparation of plans, specifications and estimate (PS&E) for removal and replacement of PCC and asphalt roadway and H&H analysis for drain system design, **water** and sewer **systems relocations.**

City Park Group - A, New Orleans, LA: Mr. D'Angelo is serving as the **Project Engineer** for this construction engineering inspection services for this **$6.5 million** City Park Group - A project. The project scope includes full reconstruction Allard Blvd and St John Court and rehabilitation of other streets in City Park Group A project area. The project included reconstruction of PCC roadway including all roadway intersections and sidewalks with ADA ramps, new drainage system and **replacement of all water** and sewer mains.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Sudhir Mehta, P.E., Senior Structural Engineer
Project Assignment:
Project Engineer
Name of Firm with which Associated:
ECM Consultants, Inc.
Years' experience with this Firm:
6
Education: Degree(s)/Year/Specialization:
M.S./1972/Civil Engineering; B.S./1970/Civil Engineering
Active registration: Year first registered/discipline:
1980/Civil Engineering/LA License No. 18950
Other experience and qualifications relevant to the proposed Project:

Mr. Mehta has 49 years of experience in the design, analysis and construction of major hydraulic structures such as concrete canals, concrete box canal, Drainage pumping stations, floodgates and other flood control structures for multiple USACE districts, states and municipalities.

Employment History:

- ECM Consultants Inc, LA, Senior *Structural Engineer (2018 to date)*
- Brown, Cunningham and Gannuch, Senior *Structural Engineer/Project Manager (2006-2018)*
- URS Corp, *Senior Structural Engineer/Project Engineer (2005-2006)*
- Pepper & Associates, *Senior Structural Engineer/Project Manager (1975-2005)*
- S E Huey Co Consulting Engineers, *Project Engineer (1973-1975)*
- Linfield and Hunter, Inc., *Engineer in Training (1971-1973)*

East Bank Water Treatment Plant, Jefferson Parish, LA: Mr. Mehta served as a senior structural engineer for the Technical Review group that has been reviewing the design of the new East Bank Water Treatment P4 and the new chemical laboratory building. Mr. Mehta's technical review included flash mix and splitter box, Precipitators, clearwell/gallery, filters, pump rooms, piles, concrete, infill soil, roof, waste wash water EQ basins, chemical storage area and chemical feed facility.

Clearview Parkway and South Service Road Intersection, Jefferson Parish, LA: Mr. Mehta was a Project Engineer for the addition of a left turn lane in the northbound lanes. He developed plan and profiles, designed geometrics of the intersection to accommodate turning of WB-50 trucks, developed typical roadway section, designed storm drainage, relocation of **water** and sewer **lines** at conflicts, estimate quantities and probable construction cost. He was responsible for preparation of construction documents and coordination with all public and private agencies whose interests and or operations were affected by the proposed project.

West Napoleon Ave Reconstruction (Causeway Blvd and Severn Avenue), Jefferson Parish, LA: The project consisted of demolition of existing lanes on the north side of the West Napoleon canal and installing two lanes each on the north and the south side of the canal. Mr. Mehta's duties included coordinating the project with all public and private agencies, **relocating water** and sewer lines that were in conflict, design drainage, develop typical roadway sections, prepare roadway plan and profile, vertical and horizontal geometrics of the project, quantity takeoffs, cost estimates and prepare construction documents including technical specifications.

Strain Road Bridge Over Drainage Bayou, Baton Rouge, LA: Mr. Mehta served as a project support engineer for a comprehensive hydrologic and hydraulic design study report and provided final design services for Strain Road Bridge over Drainage Bayou project. ECM prepared a design report with two design alternatives that included the replacing of existing bridge with two 60 foot long, 8' x 8' box culverts with 150 feet of channel improvement and second included replacing existing bridge with a new 100-foot-long bridge with some channel improvement downstream of the channel. Based on the cost-benefit analysis first alternative was selected. He was involved in the design and preparation of r construction plans of two 8' x 8' box culverts. The approaching roadway is a two-lane asphalt concrete street with subsurface drainage system which will be reconstructed.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Kumar Ambati, EIT
Project Assignment:
CAD Drafting
Name of Firm with which Associated:
ECM Consultants, Inc.
Years' experience with this Firm:
5
Education: Degree(s)/Year/Specialization: B.S./2015/Civil Engineering M.S./2018/Civil Engineering
Active registration: Year first registered/discipline:
TX / Engineer in training / 64508
Other experience and qualifications relevant to the proposed Project:

Mr. Ambati has 11 years' experience in preparing construction drawings using CAD for various types of projects such as roads, drainage, utilities and bridge projects, concrete and steel structural projects such as box culverts, flood walls, drainage structures etc..

Employment History:

- ECM Consultants, Inc., *(2019-Present)*
- *Vertex Companies, Inc. (2019)*
- *Pyramid Consultants (2013-2016)*

Project Experience:

Lake Terrace Oaks, Group-C, Neighborhood Roadway Improvements, City of New Orleans, LA: Mr. Ambati assisted in providing CAD services for this $10 million project that involves complete reconstruction of 17 blocks of neighborhood residential roadway including **subsurface drainage system**, replacement of water distribution systems, including house connections and sewer systems as required. Work includes PCC paving, new base, concrete curb, sidewalks, driveway aprons and ADA compliant ramps at roadway intersection

LADOTD Safety Inspections of State Regulated Dams, Statewide, LA: Mr. Ambati is currently working on dam inspection project for state of Louisiana. Inspections focused on structural stability of dams – particularly noting any seepage, leakage, erosion, settlement, cracking, etc. noting overall existing condition of principal and emergency spillways. Findings were discussed with dam owners at the sites as well as included in reports submitted to LADOTD. Mr. Ambati assisted in preparation of inundation maps for the reports,

MOVEBR Roadway Enhancement Program, Parish wide Synchronization and Communication Traffic Signal Connection and Communications, Phases 2 and 3, Parish of East Baton Rouge, LA: Under the $330 million MOVEBR Roadway Enhancement program, Mr. Ambati assisted in providing engineering design services for this $8 million project involving installation of over 100 miles of fiber optic lines within streets ROW for connecting to signals scattered all over the Parish. He visited sites with city utility maps for field investigations to determine approximate location of all existing utilities within the ROWs and to locate best alignments for fiber optic lines to avoid conflicts with other utilities during installation. He assisted in preparing layout plans and details. conforming to City of Baton Rouge standard.

West Shore Lake Pontchartrain Flood Risk Reduction Project Segments WSLP 102 and 106, St. Charles Parish, LA:. The WSLP 102 and WSLP 106 of approximately 2 miles, is a part of 18.5 miles long West Shore Lake Pontchartrain project at its east approach. The salient features of this contract are earthen Levees, T-walls, and a Drainage Structure in the Montz canal with four (4) stainless steel sluice gates. The **flood mitigation configuration** is such that a portion of T-wall construction in this reach crosses the existing I-10 alignment and must be constructed under the I-10 east bound and west bound bridges. Mr. Ambati assisted in preparation of 35% and 65% Structural plans and details.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Missy Reynolds, E.I., Project Manager
Project Assignment:
Engineering Design
Name of Firm with which Associated:
ECM Consultants, Inc.
Years' experience with this Firm:
7
Education: Degree(s)/Year/Specialization:
B.S./1994/Civil Engineering
Active registration: Year first registered/discipline:
1995/Civil Engineering/ E.I. LA No. 16639
Other experience and qualifications relevant to the proposed Project:

Ms. Reynolds has 27 years of experience in project management and engineering support for construction of roadways, water facilities, canals and drainage structures, and development projects. She has provided oversight for civil and hydraulic studies, reconstruction, new construction and other improvements across the Greater New Orleans region.

Employment History:

- ECM Consultants Inc., LA, *Deputy Program Manager (2017-present)*
- Barowka & Bonura Engineering & Consultants, LLC, LA *Senior Project Manager/Construction Manager (2008-2017)*
- URS Corporation, LA, *Project Manager (1998-2008)*
- Frederic R. Harris, *Project Engineer (1996-1998)*
- C&S Consultants, *Project Engineer (1994-1996)*

East Bank Water Treatment Plant, Jefferson Parish, LA: Ms. Reynolds designed the civil site plan for a 10-acre expansion of an existing **water treatment plant** to include a new laboratory building and P4 plant with process piping, access roadways, driveways, parking lots, rerouted subsurface drainage, sewer and water utilities.

Waggaman Hydraulic Study, Jefferson Parish, LA: Ms. Reynolds performed a hydrologic study for the subdivisions Waggaman, South Kenner and Manor Lane in Waggaman, LA. Each subdivision was 200-600 acres and included residential, industrial and unimproved areas. Ms. Reynolds utilized the Storm Water Management Model (EPA SWMM) to evaluate existing conditions and develop hydrologic and hydraulic design model for each subdivision, recommending design improvements to reduce flooding. She also presented a detailed Hydraulic and Hydrology Report to show existing and proposed conditions.

Jean Lafitte Drain Line Replacement, St. Bernard Parish, LA: Ms. Reynolds designed 4,500 LF of major drain line and an outfall in conjunction with the Parish Drainage Master Plan and FEMA funding guidelines. The plans also included design for several large junction boxes, catch basins, roadway restoration, and redirection of smaller drain lines to intercept runoff and tie directly into the junction boxes.

Congressman Hebert Canal Widening & Stabilization, St. Bernard Parish, LA: Ms. Reynolds served as Project Manager, examining existing drainage capacity and bank stabilization for a major outfall canal in St. Bernard, which was adjacent to residences and schools. She utilized Autodesk SWMM to size the approximately 3,000 LF proposed earthen canal, box culverts, and concrete U-channel in accordance with the Parish Drainage Master Plan. The design also included relocation of several subsurface utilities, tying in existing drainage culverts, and roadway rehabilitation.

Cypress Park & Erindale Subdivisions Hydraulic Study, St. Tammany Parish, LA: Ms. Reynolds performed a hydrologic study for two residential subdivisions utilizing Autodesk Storm Water Management Model (EPA SWMM) to evaluate the existing drainage capacities and contributions to bayous. She developed a hydrologic and hydraulic design model for each area and presented a detailed report showing existing and proposed design conditions along with associated probable construction costs.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Zachary Collier, P.E., Civil Engineer
Project Assignment:
Construction Administration
Name of Firm with which Associated:
ECM Consultants, Inc.
Years' experience with this Firm:
5
Education: Degree(s)/Year/Specialization:
B.S./2014/Civil Engineering
Active registration: Year first registered/discipline:
2018/Civil Engineering/LA License No. 42957
Other experience and qualifications relevant to the proposed Project:

Mr. Collier is a construction engineer with prior project experience at the Coast Protection and Restoration Authority (CPRA) and LADOTD, where he managed construction administration, inspection, operations and maintenance phase of projects. He directed and supervised crews on highways and bridge construction projects. He worked with contractors to resolves complaints and attended meetings.

Employment History:

- ECM Consultants Inc., Metairie, LA, *Construction Engineer (2019-to date)*
- CPRA, New Orleans, LA, Construction, *Operations and Maintenance Manager (2018-2019)*
- LADOTD, Baton Rouge, LA, Assistant *Project Engineer (Engineer Intern 2) (2017-2018)*
- LADOTD, Baton Rouge, LA, *Concrete Research Engineer (Engineer Intern 1 & 2) (2014-2017)*
- Professional Service Industries, Inc, Baton Rouge, LA, *Construction Services Technician, (March 2014 – August 2014)*

Water Line Replacement Program for and Read Blvd. West Neighborhoods, New Orleans, LA: Mr. Collier oversaw the construction admin and resident inspection for waterline replacements in a neighborhood, involving 7,529 LF of 8" water line and 650 LF of 12" water line, including valves, service lines, and fire hydrants. He coordinated roadway rehabilitation projects by DPW, it required extensive collaboration with SWBNO, DPW, and other private utilities.

Water Line Replacement Program for Village De L'est Neighborhood, New Orleans, LA: Mr. Collier oversaw the construction admin and resident inspection for waterline replacements in a neighborhood involved replacing 3,955 LF of 8" water lines and 1,414 LF of 12" water lines across various streets, addressing damage from Hurricane Katrina.

Essen Lane Widening, East Baton Rouge Parish, LA: Mr. Collier served on the Project Engineering team for this $8 million widening project. Work included adding an additional travel lane on northbound Essen Lane, new signalized intersections, new ADA ramps at all driveways and intersections, and additional drainage capacity and **relocation of waterlines.**

City Park Neighborhood, Group - A, DPW New Orleans, LA Mr. Collier served as Construction Engineer for this **$8.6 million** roadway improvement project. Work included PCC pavement reconstruction and milling; base repairs and asphalt overlay for the rehabilitations. He was responsible for supervision of Resident Inspectors and quality assurance to ascertain that the project is constructed in strict compliance with plans and specifications and in good workmanship manner as per industry standard.

S.P. No. H.004791, Belle Chasse Bridge and Tunnel Replacement, P3, Design-Build Project, Plaquemines Parish, LA. Mr. Collier is serving as Project Engineer for this **$162 million**, P3 design-build project to construct a new Mid-Level fixed span bridge that will span the Intracoastal Waterway on Louisiana Highway 23. The project will include the demolition of the existing Perez Bridge and Tunnel. This work includes pile load testing, pile driving, installing prestressed concrete girders, steel girders, concrete deck, on grade roadway including earthwork, subbase and base, drainage, utilities relocation, PCC pavement, Asphaltic Concrete pavement, concrete barrier railing, roadway lighting, MSE Wall construction and striping.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Kim Martinez, Construction Inspector
Project Assignment:
Construction Inspection
Name of Firm with which Associated:
ECM Consultants, Inc.
Years' experience with this Firm:
14
Education: Degree(s)/Year/Specialization:
Active registration: Year first registered/discipline:
DOTD Certified Inspector
Other experience and qualifications relevant to the proposed Project:

Ms. Martinez has 44 years of experience. She worked for LADOTD for 30 years. She works from ECM's Metairie Office.

Employment History:

- ECM Consultants Inc., LA, *Senior Construction Inspector (2010-present)*
- Louisiana Department of Transportation and Development *Construction Inspector & Laboratory Technician (1980-2010)*

Fleur De Lis Drive Reconstruction, LADOTD, New Orleans, LA: Ms. Martinez served as construction inspector for this **$12 million** Urban Systems project on Fleur de Lis Dr., in a residential area between 30th St. and Old Hammond Hwy. ECM provided construction contract administration and CE&I services for roadway reconstruction including sidewalks, PCC pavement, grading, subsurface drainage and utilities. She performed inspections, monitored contractor activities, provided documentation and daily reports, and coordinated with contractor and Project Engineer.

City Park Neighborhood Roadway Improvements – Group A, New Orleans, LA: He recently led the $8.6 million City Park Neighborhood-Group A project, part of a FEMA-funded roadway capital improvement program in New Orleans. His responsibilities included schematic, preliminary, and final plans, and PS&E for 31 blocks of roadway reconstruction and rehabilitation. The project involved PCC and asphalt paving, ADA-compliant intersections, new sidewalks, driveways, and drainage systems. John coordinated with various utilities and ensured compliance with FEMA guidelines for historic areas. He also managed construction administration and resident inspection services.

Gravier Street from S. Galvez to S. Broad Street, City of New Orleans DPW, New Orleans, LA: Ms. Martinez is the lead resident inspector for this project which is presently under construction. Scope of work includes roadway, and sidewalk removal, excavation, installation of major subsurface drainage system and structures, new PCC pavement, concrete sidewalks with A/C ramps, driveways, etc. Project also included 42" RCP for drainage, **20" water line** and 8"-15" sewer main.

Westside Boulevard Road Extension (Marie Drive to St. Louis Canal); Terrebonne Parish, LA: Ms. Martinez provided inspection services for this project that involved construction of new PCC pavement roadway for the extension of the existing Westside Boulevard from Marie Drive to St. Louis Canal. The scope of work included new drainage system, **water** and sewer lines , unclassified excavation, grading, lime treatment, class II base course, PCC Pavement, Superpave asphaltic concrete shoulders, and associated items.

Harrison Avenue Bridges over Bayou St. John, LADOTD; Orleans Parish, LA: Ms. Martinez served as Construction Inspector for this CE&I project that involved the construction of two concrete slab span bridges. Work included demolishing the existing eastbound and westbound bridges, relocating **water** and sewer force mains drainage excavation, driving pre-cast concrete piles, installing cast-in-place concrete eastbound & westbound bridges, PCC approach slabs, removing existing roadway, new PCC roadway and sidewalks, including embankment, grading, base course, and seeding/fertilizing.

Bayou Lafourche Bridge at Larose, Lafourche Parish, LA: Ms. Martinez provided construction inspection for Bayou Lafourche Vertical Lift Bridge project. This new bridge will replace the existing LA 310 pontoon bridge at LA 657 extension to LA 308. Scope also includes maintaining all construction field records; making daily entries in SiteManager; coordinating with the U.S. Coast Guard and Parish Engineer/Representative for all relocations/adjustments of **water**, sewer and other utility facilities within the construction of the site; inspecting the contractor's construction operations and preparing final estimate packages.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Mansoor Bajwa, E.I., Construction Inspector
Project Assignment:
Certified Inspector
Name of Firm with which Associated:
ECM Consultants, Inc.
Years' experience with this Firm:
9
Education: Degree(s)/Year/Specialization:
B.S./1980/ Civil Engineering
Active registration: Year first registered/discipline:
Applicable Certifications for Inspectors: LADOTD Certified Asphaltic Concrete Paving and Structural Concrete Inspector. He is a certified Work Zone Traffic Control Flagger/Technician/Supervisor.
Other experience and qualifications relevant to the proposed Project:

Mr. Bajwa has more than 25 years of experience in the fields of engineering and construction management and inspection. His experience includes structural inspection of bridges including pile installations, roadways, large parking lots, pumps stations, heavy concrete structures. Drainage and other utilities. He has been responsible for daily report preparation, preparation of monthly pay estimates, and review of calculated quantities. He is proficient in MS Office and Excel.

Employment History:

- ECM Consultants Inc., LA, *Senior Construction Inspector (2014-present)*
- HNTB Corporation, *Inspector II* (2012-2014)
- Rahman & Associates, Inc., *Construction Inspector* (2010-2012)
- Lahore, Pakistan Government, *Civil Engineer* (2007-2010)
- Parsons Brinkerhoff, *Transportation Engineering Technician* (2005-2007)
- Lahore, Pakistan Government, *Civil Engineer* (1981-2005).

S.P. No. H.011752 Severn Ave: Veterans to W. Esplanade, Jefferson Parish, LA: Mr. Bajwa serves as one of the inspectors for this **$11.5 million** complete PCC road construction project. The project includes drainage improvements including new trunk lines, manholes and catch basins along the length of the project**,** PCC paving, curb, **waterline,** 8' wide brick paver pedestrian sidewalks, ADA compliant intersections**,** new decorative street lighting, and landscaping. His duties included monitoring work being performed by the contractor for compliance with approved plans, specifications, and LADOTD standards. He maintained records of work quantities of pay items and recorded all work activities of work.

Water Line Replacement Program for and Read Blvd. West Neighborhoods, New Orleans, LA:
Mr. Bajwa provided resident inspection services for waterline replacements in a neighborhood, covering 7,529 LF of 8" water lines and 650 LF of 12" water lines, including valves, service lines, and fire hydrants. These projects, which included temporary pavement restoration for waterlines damaged by Hurricane Katrina.

Submerged Roads, Phase B, LADOTD, New Orleans, LA Mr. Bajwa served as Senior Construction Inspector for this project, providing inspection of asphaltic concrete pavement, PCC pavement, patching, ADA compliant ramps, pavement markings and rehabilitation of **subsurface drainage system** where required.

Reconstruction of Holiday Drive, City of New Orleans-DPW No. 086, New Orleans, LA: Mr. Bajwa served as Construction Inspector for the reconstruction of Holiday Drive with asphaltic concrete paving including subsurface drainage systems, **water** and sewer **systems** and utilities relocations. He monitored ongoing work for compliance with approved specifications, plans, and City standards. He kept records of work quantities, contractor's progress as compared to approved schedule and prepared progress reports; reviewed change order requests; and prepared as-built plans.

French Quarter Street Overlay, LADOTD, New Orleans, LA: Mr. Bajwa served as Senior Construction Inspector for this project and provided inspection of asphaltic concrete pavement, PCC pavement, drainage system rehabilitation, utility structure adjustments, ADA compliant ramps, and pavement markings. His duties included monitoring construction activities for compliance with plans, specifications, plans and city standards.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Marvin May, CAD Technician
Project Assignment:
CAD Services
Name of Firm with which Associated:
ECM Consultants, Inc.
Years' experience with this Firm:
22
Education: Degree(s)/Year/Specialization:
1999/AutoCAD Drafting
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:

Mr. May has over 22 years of experience in AutoCAD drafting. His experience includes preparation of plan and profiles, cross sections, and miscellaneous details for roadway, drainage, and utilities projects. He is trained in both AutoCAD and Microstation V8.2.

Employment History:

- ECM Consultants Inc., LA, *CAD Technician (2002-present)*

Water Line Replacement for Read Blvd. Neighborhoods East Group I, S&WB of New Orleans; New Orleans, LA: Mr. May provided CAD services for the design to replace 1075 lf of 8" water line on Chrysler St. and King Richard Dr. He also provided CAD services for designs to replace 1465 lf of 8" water line and 525 lf of 12" diameter water line on Bright Dr., Chef Menteur Blvd., Coronado Dr., and Hillwood St.

Water Line Replacement for Read Blvd. West Neighborhoods, S&WB of New Orleans, New Orleans, LA: Mr. May provided CAD drafting services for engineering design to replace 7,529 LF of 8" water line and 650 LF of 12" water line including valves, service lines, fire hydrants, temporary pavement restoration, and cost estimates.

Water Line Replacement for FEMA Recovery Roads, St. Bernard & City Park Neighborhoods, City of New Orleans, LA: Mr. May provided CAD services for civil design for FEMA eligible repairs in the St. Bernard and City Park neighborhoods. Work included replacement of water lines, roadway rehabilitation involving base repairs, asphalt leveling course and overlay, drainage improvements, curb and sidewalk repairs.

Water Line Replacement for Village De L'est, S&WB of New Orleans, New Orleans, LA: Mr. May provided CAD services for engineering design and preparation of PS&E for water line replacements. The project includes replacement of 3,955 LF of 8" water line and 1,414 LF 12" water lines for various streets.

Water Line Replacement for Gravier Street Improvements, City of New Orleans-DPW; New Orleans, LA: This project involved roadway and sidewalk design as well as design for all new sewer lines, water lines, and subsurface drainage lines. Mr. May provided CAD support for this project.

Water Line Relocation for Rehabilitation of S. Claiborne Avenue (Jena St. to Louisiana Ave.), New Orleans, LA: Mr. May was involved in CAD drafting for the roadway, drainage, and water and sewer systems for this project. Work included preparation of plan and profile, cross section, and various details.

Relocation of Water Lines for Napoleon Avenue, S&WB of New Orleans and USACE New Orleans District; New Orleans, LA: Mr. May provided CAD drafting services for the reconstruction of Napoleon Ave. between S. Claiborne Ave. and Carondelet St. in connection with construction of a drainage box canal at the median of Napoleon Ave. This project also included plan preparation in AutoCAD for new subsurface drainage and new water lines.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Alexandra Dupuis, CADD Technician
Project Assignment:
CAD Technician
Name of Firm with which Associated:
ECM Consultants, Inc.
Years' experience with this Firm:
>1
Education: Degree(s)/Year/Specialization:
2017/AutoCAD Drafting
Active registration: Year first registered/discipline:
Other experience and qualifications relevant to the proposed Project:

Ms. Dupuis has more than 7 years of experience in AutoCAD drafting. Her experience includes creating 3D models and making 2D out of the 3D models, preparing layouts as directed by engineers/architects, preparation of plans and profiles, X-sections and various details for roadways, drainage, and utilities system projects

Employment History:

- ECM Consultants Inc., LA, *Sr. Structural Engineer (2023-to date)*
- Project Consulting Services, Inc*., Piping Designer (2022-2023)*
- Huntington Ingalls, *Designer II (2018-2022)*
- American Metal Fab, Inc., *Drafter (2016-2017)*

The following are examples of his relevant experience:

Transit Improvement Design for District 2, Jefferson Parish, LA Ms. Dupuis provides CAD services for the changes being made to 252 bus stops that follow the latest standards given by the Jefferson Parish, LA DOTD, and AASHTO. The project includes photos of bus stop locations with documentation of changes being made to follow updated standards. The views of the bus stops will be designed to include detailed information on proposed concrete layouts, dimensions, street name callouts, and placement of bus stop signs.

Chateau Elementary School-Hurricane Ida Repairs, Kenner, LA Ms. Dupuis provided CAD services to Chateau Elementary School in Kenner, Louisiana by designing plans and adding information on damage repairs that needed to be done because of the hurricane. She created and modified floor plans that have detailed callouts referencing to photos of damage done by hurricane. Photos are then documented with descriptions of damage and what needs to be repaired. Floor plans, details, and photos document repairs to floors, walls, and ceilings of school building.

Grand Isle Water Systems Improvements, Grand Isle, LA Ms. Dupuis provided CAD services by designing one-line piping diagrams to show the chemical feed systems at the East Grand Isle and Cheniere sites. The one-line piping diagrams consist of showing how the chemicals from the ammonia room flow through the pipes and how they travel to specific designated areas where needed.

Hope Haven Main Building, Marrero, LA Ms. Dupuis is providing CAD services by preparing restoration plans for Hope Haven. The project includes the breakdown of damaged material that is identified in floor plans of building and suggested routes of construction walkway. Photos have been included in plans to show physical damage done to the structure. Roof plans are also incorporated in blueprints with documentation of damage and photos as well. The shoring layouts have also been designed to show locations, dimensions, and material needed for restoration after debris and damage has been removed.

HANO On Call AE Services for Agency Wide Housing Communities and Scattered Sites, New Orleans, LA Ms. Dupuis provides CAD services to design changes to the interior of Guste III Community, Lafitte Senior Housing, and Fisher Senior Housing to apply modernization and redevelopment of multi-family housing units in New Orleans. She has designed site plans, floor plans, and detailed views to describe and callout changes being applied to units. Data tables are created to show scope of work for units that show the work item description, quantity, and reference notes/reports. Detailed views offer layouts of changes being made to kitchen and bathroom and consist of appliance callouts, dimensioning, and notes that describe and offer information of changes needed to be done per unit.

L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.

PROJECT NO. 1		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Ames Blvd and Leo Kerner Pkwy Waterline Feasibility Study **Jefferson Parish, LA** **Jefferson Parish Water Dept.** **Sidney Bazley** **504.736.6744** **1221 Elmwood Park Blvd.** **Suite 909** **Jefferson, LA 70123**	ECM provided professional engineering services for the preparation of a feasibility study to evaluate replacing 14–36-inch prestressed concrete pipe with HDPE pipe for waterlines along Ames Blvd and Leo Kerner Pkwy from Lapalco Blvd to the Intracoastal Waterway for a total length of 61,947 feet. The objective of the study was to analyze three methods of construction - open cut method, directional drilling, and compression fit method, determine the cost of construction by each method, identify impacts caused by installation of proposed improvements, and identify limits to divide the project area into potential subprojects for design.	
Completion Date: (Actual or Estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2023 (A)	**$59M**	**$59M**

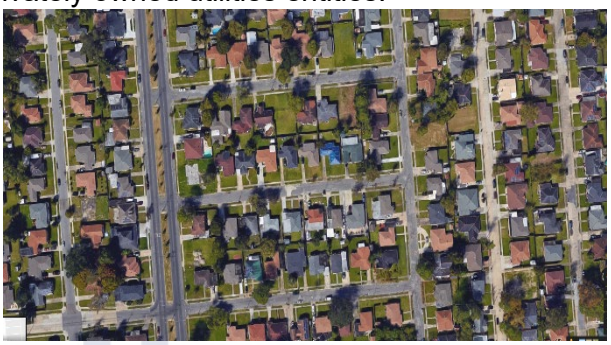
PROJECT NO. 2		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Water Line Improvements Along N. I-10 Service Rd. and Vicinity of Clearview Mall **Jefferson Parish, LA** **Jefferson Parish Water Dept.** **Sidney Bazley** **504.736.6744** **1221 Elmwood Park Blvd.** **Suite 909** **Jefferson, LA 70123**	ECM provides engineering design services and preparing plans, specifications and estimates (PS&E) for **water line replacements** along N. I-10 Service Rd. and in the vicinity of Clearview Mall. The project includes replacement of 6,983 LF of 12" water line including valves, service lines, and fire hydrants. ECM is responsible for coordination for topographic and subsurface utility survey, field verification of survey data; coordination with Jefferson Parish, Entergy, AT&T and other private utilities entities for providing location and depth of their utilities and including their information in the plan and profile sheets. ECM is contracted to provide construction administration and resident inspection services for this project.	
Completion Date: (Actual or Estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
Ongoing	**$4.8M**	**$4.8M**

<table>
<tr><th colspan="3">PROJECT NO. 3</th></tr>
<tr><th>Project Name, Location and Owner's contact information:</th><th colspan="2">Nature of Firm's Responsibility:</th></tr>
<tr><td>Jefferson Parish Eastbank Water Treatment Plant Improvements Phase II (P4) and Bacteriological and Wet Chemistry Laboratory

Jefferson Parish Water Dept.
Mark Drewes, P.E.
504.736.6783
1221 Elmwood Park Blvd.
Suite 906
Jefferson, LA 70123
  </td><td colspan="2">The Jefferson Parish Eastbank Water Treatment Plant site is located at the intersection of Jefferson Highway and Arnoult Road, near the Mississippi River. Currently, there are three Water Treatment Plants (WTPs) on this site. WTPs P1 and P2 were the original treatment plants and WTP P3 was constructed in the late 1960s and rehabilitated in the 1980s. The Inflco Filtration Plant next to WTPs P1 and P2 also provides an additional treatment capacity of up to 10 MGD as needed. The Mississippi River serves as the source of raw water for the plants. An existing raw water intake withdraws water from the river and conveys the water to pump stations where the water is pumped to the WTP site. Jefferson Parish elected to add WTP P4 to the site. WTP P4 is to have an initial capacity of 40 MGD and the ability to expand to 60 MGD in the future. The raw water intake and raw water pump stations are not a part of the WTP P4 project.
ECM Consultants, Inc performed a design review and analysis of the Consultants' design for the new P4 Water Treatment Plant and Bacteriological and Wet Chemistry Laboratory. ECM's responsibilities included technical review of the structural, mechanical, architectural, civil, and electrical plans to ensure conformance with project goals and constructability within the established project budget. Technical review also included value engineering evaluation.</td></tr>
<tr><td rowspan="2">Completion Date: (Actual or Estimated):</td><td colspan="2">Estimated Cost:</td></tr>
<tr><td>Entire Project:</td><td>Work for which Firm was Responsible:</td></tr>
<tr><td>Ongoing</td><td>$130 million</td><td>$299,000</td></tr>
<tr><th colspan="3">PROJECT NO. 4</th></tr>
<tr><th>Project Name, Location and Owner's contact information:</th><th colspan="2">Nature of Firm's Responsibility:</th></tr>
<tr><td>Water Line Replacement for Gravier Street Improvements
New Orleans, LA

City of New Orleans DPW
Khalid Saleh, P.E.
504.865.0659
1300 Perdido St.
Room 6W03
New Orleans, LA 70112</td><td colspan="2">ECM provided engineering design services for this $4.8 million roadway reconstruction project. The project included a drainage system with pipe sizes ranging from 12" to 42" in diameter. ECM also provided design for approximately 2,600 LF of water mains ranging in size from 8" to 20" in diameter with associated water house connections. Design also included relocation of approximately 2,400 LF of sanitary sewer ranging in size from 8" to 15" in diameter. ECM provided construction administration, engineering during construction, and resident inspection services for this project.
  </td></tr>
<tr><td rowspan="2">Completion Date: (Actual or Estimated):</td><td colspan="2">Estimated Cost:</td></tr>
<tr><td>Entire Project:</td><td>Work for which Firm was Responsible:</td></tr>
<tr><td>2017 (A)</td><td>$4.8M</td><td>$4.8M</td></tr>
</table>

<table>
<tr><th colspan="3">PROJECT NO. 5</th></tr>
<tr><td>Project Name, Location and Owner's contact information:</td><td colspan="2">Nature of Firm's Responsibility:</td></tr>
<tr><td>Water Line Replacement Program for and Read Blvd. West Neighborhoods
New Orleans, LA

S&WB of New Orleans
625 St. Joseph Street
New Orleans, LA 70165</td><td colspan="2">ECM provided engineering design and resident inspection for waterline replacements for this neighborhood. These projects involved replacement of 7,529 LF of 8" water line and 650 LF of 12" water line including valves, service lines, fire hydrants, temporary pavement restoration of waterlines damaged by Hurricane Katrina. These projects are undertaken in conjunction with roadway rehabilitation projects by DPW and required extensive coordination with SWBNO, DPW and other privately owned utilities entities.
  </td></tr>
<tr><td rowspan="2">Completion Date: (Actual or Estimated):</td><td colspan="2">Estimated Cost:</td></tr>
<tr><td>Entire Project:</td><td>Work for which Firm was Responsible:</td></tr>
<tr><td>2016 (A)</td><td>$2.4M</td><td>$2.4M</td></tr>
<tr><th colspan="3">PROJECT NO. 6</th></tr>
<tr><td>Project Name, Location and Owner's contact information:</td><td colspan="2">Nature of Firm's Responsibility:</td></tr>
<tr><td>Program and Construction Management for Katrina Damage Repairs to Water Systems, New Orleans, LA

S&WB of New Orleans
625 St. Joseph Street
New Orleans, LA 70165</td><td colspan="2">ECM provided Program and Construction Management for this contract, as subconsultant to CH2M, to repair damage to the Water System at the Central Yard and the Carrollton Main Water Treatment Plant following Hurricane Katrina. ECM monitored all construction work and coordinated with various subconsultants and stakeholders to ensure the program ran efficiently and safely and that it met the owner's goals.

ECM provided all construction management and inspection for work at the Carrollton Main Water Treatment Plant, which involved repairs to the filter galleries including damaged pipes, boilers, pre-heaters, pump vaults, lighting, flooring, ceilings, walls and windows.
ECM's services also included constructability reviews of plans specifications and document control. This included uploading daily reports to Primavera Contract Manager (PCM), checking monthly pay applications, change order management, maintaining RFI's & PCO's and logs, meeting minutes and all project related documents.</td></tr>
<tr><td rowspan="2">Completion Date: (Actual or Estimated):</td><td colspan="2">Estimated Cost:</td></tr>
<tr><td>Entire Project:</td><td>Work for which Firm was Responsible:</td></tr>
<tr><td>2019 (A)</td><td>$73M</td><td>$28M</td></tr>
</table>

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Lake Terrace Oaks, Group C Road and Waterway Improvements New Orleans, LA City of New Orleans DPW Khalid Saleh, P.E. 504.865.0659 1300 Perdido St. Room 6W03 New Orleans, LA 70112	ECM is providing engineering design services for preparing preliminary, advance check plans and final plans and specifications and estimates (PS&E) for the streets in the Lake Terrace Oaks- Group – C project. This project is a part of a FEMA funded roadway capital improvement program for the City of New Orleans. ECM is providing engineering design for these projects that include 20 city blocks of roadway including intersections. ECM was responsible for coordination for topographic and subsurface utility survey, field verification of survey data; coordination with S&WBNO, Entergy, AT&T and other private utilities entities for providing location and depth of their utilities and including their information in the plan and profile sheets. Project included drainage upgrades, relocations of **waterlines** and sewer lines.	
Completion Date: (Actual or Estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
Ongoing	**$11.5M**	**$11.5M**

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Water Line Replacement Program for Village De L'est Neighborhood New Orleans, LA S&WB of New Orleans 625 St. Joseph Street New Orleans, LA 70165	ECM provided engineering design services and prepared plans, specifications and estimates (PS&E) for **water line replacements** in the Village De L'est neighborhood. The project includes replacement of 3,955 LF of 8" water line and 1,414 LF 12" water lines for various streets. This project involved replacement of water lines damaged by Hurricane Katrina and were undertaken in conjunction with roadway rehabilitation projects the City of New Orleans Dept. of Public Works, requiring extensive coordination.	
Completion Date: (Actual or Estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2016	**$1.5M**	**$1.5M**

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Fleur de Lis Drive Reconstruction (30th St. To Old Hammond Hwy.) New Orleans, LA **City of New Orleans DPW Khalid Saleh, P.E. 504.865.0659 1300 Perdido St. Room 6W03 New Orleans, LA 70112**	ECM provided construction contract administration and construction engineering and inspection (CE&I) services for this $12 million project involving reconstruction of Fleur de Lis Drive from 30th Street to Old Hammond Highway, a main thoroughfare separated by a median in a residential area of New Orleans. This Urban Systems project included removal of existing paving, excavation, new subsurface drainage system and drainage structures, removal and replacement of sewer force mains and **water mains**. The new roadway construction included grading, subbase, class II base course, Portland cement concrete pavement, concrete curb, ADA compliant ramps, sidewalks, driveways, striping and related work. 	
Completion Date: (Actual or Estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2020 (A)	**$12 million**	**$12 million**

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Grand Isle Waterline System Improvement **Jefferson Parish, LA Jefferson Parish DPW 1221 Elmwood Park Blvd., Suite 909 Jefferson, LA 70123 Sidney Bazley 504-736-6742** 	ECM is providing engineering services for the improvement of the Grand Isle Water system improvement project. The project scope includes Chemical feed system analysis at the East tanks and Cheniere site, analysis of the current design of the Rosethorne station and recommendation of the required modification, design of new ground storage tank, and design of the12" HDPE waterline beneath Camanada Bay and replace existing 4" waterline with 8" waterline along Hwy 1 from Beverly Drive to Central Ave. ECM has provided the report recommending the changes required for the improvement of the water system. ECM is using Infowater software, extension of AutoCAD for determination of required size for pipe along the Camanada Bridge at Pompano Lane to Rosethorne. ECM is also working on preparing construction documents for the required design changes.	
Completion Date: (Actual or Estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
Ongoing	**$3 Million**	**$3 Million**

M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary. NONE		
Parties:		**Status/Result of Case:**
Plaintiff:	**Defendant:**	
1. N/A	**N/A**	**N/A**
2. N/A	**N/A**	**N/A**
3. N/A	**N/A**	**N/A**
4. N/A	**N/A**	**N/A**

ECM Consultants, Inc. **has never been involved** in any litigation and/or adversarial proceedings with Jefferson Parish.

N. Use this space to provide any additional information or description of resources supporting Firms qualifications for the proposed project.

TABLE OF CONTENTS

Team Profile

ECM Consultants, Inc. is an engineering, architectural and construction management firm headquartered in Metairie, LA with a full-service branch office in Baton Rouge. ECM was incorporated under the laws of the State of Louisiana on August 31, 1995 and holds current licenses in Professional Engineering (No. 2003) and Construction Management (No. 31739). Over the last 28 years, ECM has provided professional services on over 800 projects for clients including:

- Jefferson Parish Department of Public Works
- Jefferson Parish Public Schools
- City of Kenner Dept. of Public Works
- Jefferson Parish Juvenile Justice Agency
- Jefferson Parish Dept. of Community Development
- City of New Orleans Dept. of Public Works
- Louisiana Dept. of Transportation & Development
- Sewerage & Water Board of New Orleans
- City of Baton Rouge Dept. of Public Works
- Port of New Orleans
- USACE New Orleans, Vicksburg, Mobile, Rock Island, Charleston and Louisville Districts
- USDA-NRCS
- LA CPRA
- SLFPA-East

The qualifications, integrity, reliability, and commitment of our personnel to provide quality professional services have earned ECM Consultants, Inc. an excellent reputation and repeat work from our clients.

About 95% of our work is repeat business from existing customers.

ECM will serve as the Prime Consultant on this contract with the following specialty firms as sub-consultants:

BFM Corporation, LLC, is a professional surveying firm who has provided services to public and private agencies throughout the Gulf South, including hundreds of projects across Jefferson Parish. BFM provides surveying services covering all facets of engineering, construction, and forensics; topographic, hydrographic, and high definition laser scanning.

Gulf South Engineering & Testing, Inc. Gulf South Engineering & Testing (Gulf South)) is a geotechnical engineering and construction materials testing and inspection company that began operations in 2011. Since that time, they have grown to 2 offices and over 30 employees. Gulf South provides a broad range of geotechnical related services. Our key employees' combined work experience totals more than 75 years and thousands of projects.

IMC Consulting Engineers, Inc. (IMC) is a small business located in Metairie, LA, established in 1988, provides quality mechanical and electrical engineering services in the commercial/institutional and municipal marketplace. IMC has inspected or designed mechanical, electrical, and plumbing (MEP) systems for multiple USACE structures within the Mississippi Valley District. IMC's inspection and design experience includes MEP systems for Hydraulic Structures such as Sector Gates, Flood Control Structures, Diversion Structures, Plumbing Stations, and Locks. IMC will provide Mechanical and Electrical Engineering support.

TEC Professional Services Questionnaire

Minimum Qualifications

Minimum Qualifications	Personnel Meeting Requirement
1. One Principal who is a professional engineer who shall be registered as such in Louisiana.	Ujjal DasGupta, P.E., President /Owner LA License No. 19849
2. A Professional in Charge of the Project who is a Professional Engineer who shall be registered as such in Louisiana with a minimum of five (5) years' experience in the disciplines involved.	Sunina Shrestha, P.E. 16 years' experience LA License No. 37901
3. One (1) employee who is a professional engineer registered as such in Louisiana in the field or fields of expertise required for the project. (A sub-consultant may meet this requirement only if the advertised Project involves more than one discipline)	Kazem Alikhani, P.E. LA Civil Eng. #25073 Sunina Shrestha, P.E. LA Civil Eng. #37901 Chris Capretto, P.E. LA Civil Eng. #38641

ECM substantially exceeds minimum qualification requirements.

EVALUATION CRITERIA

1. PROFESSIONAL TRAINING AND EXPERIENCE

Relevant project experience of Firm

ECM has extensive experience in engineering design, preparation of plans and specifications, construction administration, and construction engineering and inspection for water projects. Our related experience includes the following:

- Feasibility Study for Ames Blvd and Leo Kerner Pkwy from Lapalco Blvd to the Intracoastal Waterway
- Chemical feed system analysis of the Grand Isle Water system improvement project by Jefferson Parish DPW
- Water line replacement program for Read Blvd. East Neighborhood for S&WB of New Orleans
- Water line replacement program for Read Blvd. West Neighborhood for S&WB
- Water line replacement program for Village De L'est Neighborhood for S&WB
- Technical Review for the East Bank Water Treatment Plant, Jefferson Parish
- Relocation of Napoleon Ave. water lines, S&WB of New Orleans
- Potable and fire water mains for ARFF building at Louis Armstrong New Orleans International Airport for NOAB
- New water, drainage, and sewerage systems for Desire Hope VI Development in New Orleans for HANO
- New 20" water line for Gravier Street improvements for City of New Orleans
- Relocation of major water lines at South Claiborne Ave. for S&WB of New Orleans
- Water system relocation for Jefferson Ave. for S&WB of New Orleans
- Katrina damage repairs to water lines at Joe Brown Park for City of New Orleans
- Program/Construction Management for Katrina damage repairs to S&WB of New Orleans water system

Training & Experience of Key Personnel ECM's staff of professional engineers, construction managers, inspectors, CAD technicians and administrative support personnel have worked on a variety of water infrastructure projects for Jefferson Parish and other parishes as well as various government agencies. Our staff is duly trained and certified, exceeding minimum qualifications for meeting Parish requirements. Our project staff includes the following:

Ujjal DasGupta, P.E. PRINCIPAL: Mr. DasGupta has over 53 years of experience in managing design and construction phase services for water treatment and distribution system projects. He is a Louisiana licensed P.E. with a B.S. in Civil Engineering.

N. Use this space to provide any additional information or description of resources supporting Firms qualifications for the proposed project.

Kazem Alikhani, P.E., PROJECT MANAGER: Mr. Alikhani has over 43 years of experience in public works projects including planning, design and construction management. As CEO of ECM, Mr. Alikhani serves as Project Manager for overseeing staff, budgets, timeline and working with owners, consulting firms and subconsultants to ensure timely and accurate project delivery. He spent the majority of his career working with the Jefferson Parish Department of Public Works responsible for all public works functions and overseeing an annual operating budget of $200 million and a capital budget of over $100 million. His oversight consisted of managing several departments that included drainage sewerage, water, streets, parkways, environmental, hazard mitigation, engineering and capital projects departments. In addition to managing all departments his responsibility also included managing engineering and construction management of capital improvements projects.

Sunina Shrestha, P.E. PROFESSIONAL IN CHARGE: Ms. Shrestha has 16 years of experience in civil, hydraulic and hydrologic engineering and design and project management for water projects. She is a Louisiana licensed P.E. and holds an M.S. in Civil Engineering with a concentration in Water Resources and Environmental Engineering.

Christopher Capretto, P.E. CIVIL ENGINEER: Mr. Capretto has 15 years of experience in civil engineering including water and drainage systems design. He also has experience in design and preparation of PS&E and construction administration of roadway reconstruction projects. He is a Louisiana licensed P.E. with a B.S. in Civil Engineering.

John Foley, III, P.E., CIVIL ENGINEER is a Registered Professional Engineer with 10 years of experience designing LADOTD and public works projects including feasibility studies, environmental assessments, roadway, wastewater and drainage improvements

Kumar Ambati, E.I., CIVIL/STRUCTURAL Mr. Ambati has 11 years' experience in preparing construction drawings using CAD for various types of projects such as roads, drainage, utilities and bridge projects, concrete and steel structural projects such as box culverts, flood walls, drainage structures etc..

Missy Reynolds, PROJECT MANAGER: Ms. Reynolds has more than 27 years of experience in engineering design for major roadway, drainage, water and sewer projects in Southeast Louisiana.

Zach Collier, P.E., CONSTRUCTION ENGINEER: Mr. Collier is a construction engineer with prior project experience at CPRA and LADOTD, where he managed construction administration, inspection, operations and maintenance phase of projects. $150,000 to $8 million each. ECM alone completed about 78 task orders on-schedule and earned about $40 million in fees.

Kim Martinez RESIDENT INSPECTION: Ms. Martinez has over 44 years of experience as a construction inspector including 30 years working with LADOTD as both an inspector and construction technician.

Mansoor Bajwa, E.I., RESIDENT INSPECTION: Mr. Bajwa has over 25 years of experience in the field of construction contract administration, engineering and inspection. His experience includes inspection of roadways and bridges, substructure drainage and utilities.

Marvin May CAD SERVICES: Mr. May has over 22 years' experience in AutoCAD drafting. His experience includes preparation of plans and profiles, cross sections, and miscellaneous details for roadway, drainage and water, sewer, and drainage related projects.

Alexandra Dupuis CAD SERVICES: Ms. Dupuis has more than 7 years of experience in AutoCAD drafting. Her experience includes creating 3D models and making 2D out of the 3D models, preparing layouts as directed by engineers/architects, preparation of plans and profiles, X-sections and various details for roadways, drainage, and utilities system projects.

Ralph P. Fontcuberta, Jr., PLS, Surveyor of Record, (BFM): Mr. Fontcuberta has better than half a century of experience in the field of surveying and has been a registered Professional Land Surveyor (PLS) since 1974. He is thoroughly knowledgeable in all aspects of surveying: topographic, hydrographic, boundary, right-of-way surveying, and all facets thereof. He has provided surveying services for residential, plant, and industrial layout projects, ranging from small private lots & buildings to multi-million-dollar programs, and has been a registered Professional Land, including the New Orleans FEMA Streets/Recovery Roads Program.

John Philip Thayer, Operations Supervisor (BFM) is a Field Operations Supervisor with considerable

experience in field surveying services, including ALTA/as-built surveying, construction layout, boundary, topographic, cross-sections, GPS use, and numerous other surveying types.

Thomas Wright, Survey Crew Chief (BFM) Mr. Wright has over 40 years of experience in surveying services, including a multitude of project types (water, wastewater, stormwater, drainage, roadway, etc.) throughout the region.

Chad Poche', P.E. Geotechnical Engineer (Gulf South) consulting geotechnical engineer for more than 20 years in South Louisiana, working on traditional and unique geotechnical engineering projects (shallow and deep foundation design, slope stability, pavement design, etc.). Mr. Poché has also provided construction oversight for waste facilities and virtually every type of earthwork-related project. He is a licensed Louisiana P.E.

Bryson Beard, P.E., ACI Geotechnical Field Engineer (Gulf South) is an Associate Geotechnical Engineer/Field Engineer who serves as a Project Manager. He has performed geotechnical engineering analyses consisting of shallow and deep foundations, slope stability, TRS and sheet pile wall design, settlement, pavement design, etc., and has prepared engineering reports. Mr. Beard's experience in the field includes surface and subsurface soil sampling, water sampling, and soil classification.

Paul Vlosich, P.E. Electrical Engineer (IMC) serves as IMC's Director of Municipal and Industrial Projects and oversees all aspects of IMC's municipal business sector including client relations, business development, resource management, contract negotiation, contract execution, production, and quality control.

Eugene "Chip" Higbee III, P.E. Mechanical Engineer (IMC) During his 30+-year career, Chip has served in various capacities from facilities and maintenance engineer, building energy performance contractor, and consulting engineer. Chip has provided design services for a variety of pump station projects including new pump stations, renovations/additions to Works, Calcasieu Parish Police Jury, and many more.

2. CAPACITY FOR TIMELY COMPLETION OF WORK

ECM understands the requirements of successfully managing and has the capacity and resources for completing all projects on time. Each project under this contract will be adequately staffed by personnel with technical expertise, supervised by a highly experienced engineering supervisor and provided with resources to effectively fulfill the needs of the project. Our efficient approach to scheduling our work allows ECM personnel to provide all required man-hours for each of our ongoing projects.

3. LOCATION OF PRINCIPAL OFFICE

The ECM Consultants, Inc.'s principal office is located in Jefferson Parish at 1301 Clearview Parkway, Suite 200, Metairie, LA 70001. All work will be performed from this office.

4. ADVERSARIAL LEGAL PROCEEDINGS BETWEEN THE PARISH AND FIRM

ECM Consultants, Inc. **has never been involved** in any litigation and/or adversarial legal proceedings with Jefferson Parish.

5. PRIOR SUCCESSFUL COMPLETION OF PROJECTS

ECM has received "**Exceptional**" performance ratings from various USACE Districts, and **Outstanding**" performance rating from U.S. HUD, and "**Letters of Commendation**" from the U.S. Customs Service, USDA, U.S. HUD, USACE New Orleans District, and various other local government agencies such as Jefferson Parish, City of New Orleans Dept. of Public Works, Calcasieu Parish Police jury, and many more.
Below are examples and references to related projects:

- **Napoleon Avenue Reconstruction (South Claiborne to Carondelet Street);** Ron Spooner, P.E. S&WB of New Orleans
  (504) 865-0650; rspooner@swbno.org

- **S. Claiborne Avenue rehabilitation for Manifold Canal;** Ron Spooner, P.E.; S&WB of New Orleans; (504) 865-0650; rspooner@swbno.org

- **Ames Blvd and Leo Kerner Pkwy Waterline Feasibility Study Jefferson Parish, LA,** Sidney Bazley, Jefferson Parish DPW; 504-736-6744

- **New 20" force main for the City of Kenner:** Jose Gonzalez 504-468-7515
- **City Park Group A Roadway Rehabilitation:** Khalid Saleh 504-658-8208
- **Water Line Replacement for Read Blvd and West Neighborhoods:** Susan Diehl 504-930-7209
- **Water Line Replacement for Village De L'est Neighborhood:** Susan Diehl 504-930-7209
- **Grand Isle Water System Improvements and Chemical Feed System:** Sidney Bazley 504-736-6744

6. SIZE OF FIRM

ECM has **72** qualified professional engineers and support staff to work on routine and specialized projects that will be necessary to provide high quality professional services on this contract. Our team includes ten civil engineers, two structural engineers, four project managers, two engineering interns, a mechanical engineer, two architects, thirty-two construction inspectors, three CAD technicians, and eight administrative and support staff.

7. PAST PERFORMANCE ON PARISH CONTRACTS

ECM has successfully completed a number of projects for Jefferson Parish, **controlling costs**, providing **high quality work**, and maintaining the contract's **schedule**.

Below are a few examples of Jefferson Parish projects completed within budget and on time:

- 37th Street and Purdue Drive Sewer Lift Station for Jefferson Parish
- Warehouse for Jefferson Parish DPW. This project design was completed below the project budget of $5 million
- Oakwood Smart Growth - Hector Avenue Improvements (Whitney Avenue to Terry Parkway) for Jefferson Parish
- Lapalco Bridge Over Bayou Segnette for Jefferson Parish

QUALITY CONTROL PLAN

ECM Consultants, Inc. has an excellent quality control program. During the design phase the project manager is responsible for establishing design criteria in consultation with the owner. Before the start of a project, the project manager will meet with all staff (project engineers, junior engineers, and the CAD operator) to communicate the project scope, design criteria, drafting standards, coordination requirements with various disciplines, completion schedules for various phases, and, most importantly, the project goal and Owner's expectation of high-quality professional work. The project manager is responsible for coordination with the owner and project engineers. All of our staff members are conscientious, thorough and understand the importance of preparing construction documents with a standard of case exceeding the industry standard. The criticality of following design procedures is consistently emphasized, and all drafting is thoroughly checked by the design engineers.

Routine progress meetings are held to determine progress, coordination, and resolution of challenges associated with the project. The project engineer checks the design computations and the drawings at every stage for quality assurance.

CONCLUSION

ECM Consultants, Inc. exceeds the required qualifications, experience, and resources to perform routine engineering services for water projects in Jefferson Parish. We are poised for immediate assignment and look forward to providing excellent professional services. We hope to receive favorable consideration.

O. To the best of my knowledge, the foregoing is an accurate statement of facts.

Signature: _____ **Print Name:** Kazem Alikhani, P.E.

Title: Chief Executive Officer **Date:** 06/20/2024

Section 2

BFM Corporation, LLC

TEC Professional Services Questionnaire

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Provision of Routine Engineering Services for

Water Projects in Jefferson Parish

SOQ **24-013** | Resolution No. **144203**

B. Firm Name & Address:

BFM Corporation, LLC

15 Veterans Memorial Boulevard | Kenner LA 70062

C. Name, title, and contact information of Principal, as defined in Section 2-926 of the Jefferson Parish Code of Ordinances, who is a registered, licensed architect, professional engineer, or surveyor in the State of Louisiana:

Ralph P. Fontcuberta, Jr., PLS, Executive Vice President
504-468-8800 | 504-468-8800 cell | ralph@bfmcorporation.com
Registered Professional Land Surveyor (**Louisiana No. 4329; since 1974**)

D. Name and contact information of employee who is a registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline:

Ralph P. Fontcuberta, Jr., PLS, Executive Vice President
504-468-8800 | 504-468-8800 cell | ralph@bfmcorporation.com
Registered Professional Land Surveyor (**Louisiana No. 4329; since 1974**)

E. Please provide the number of employees whose primary function corresponds with each category:

4	Administrative		Estimators		Specification Writers
	Architects (Licensed)		Geologists		Structural Engineers
	Chemical Engineers	1	Geotechnical Engineers		Graduate Engineers
	Civil Engineers		Interior Designers	2	Project Managers
	Construction Inspectors		Landscape Architects		Clerical (*see Administrative*)
	Ecologists	1	Land Surveyor (*Apprentice*)		Grant/Funding Specialist
	Electrical Engineers		Mechanical Engineers		Sanitary Engineers
	Engineer Intern		Environmental Engineers	1	*Researcher/Archivist*
2	Professional Land Surveyors			3	*CADD Technicians*
				6	*Survey Crew Chief*
				6	*Survey Crew Instrumentman*
				26	**TOTAL**

F. Is this submittal by a JOINT-VENTURE? Please check: YES _____ NO X

If marked "no", skip to Section I. If marked "yes", complete Sections G-H.

TEC Professional Services Questionnaire

G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.

1. N/A

2.

H. Has this JOINT-VENTURE previously worked together? Please check:

YES_____ **NO**_____ N/A

I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. N/A		
2.		
3.		

J. Please specify the total number of support personnel that may assist in the completion of the Project:

26 *(all personnel will be available for assignment to the project)*

TEC Professional Services Questionnaire

K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e., résumé) that demonstrates the employment history and experience of the Firm's key persons that may assist in the completion of this Project. Please attach additional pages if necessary.

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Ralph P. Fontcuberta, Jr., PLS
Executive Vice President / Registered Professional Land Surveyor

Project Assignment:

Registered Professional Land Surveyor

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

42 years (Founding Principal of BFM in 1982);
57 years total (1967)

Gulf South Engineering and Testing, Inc. | 2017 to present
BFM Corporation, LLC | 1982 to present
Surveys, Inc. | 1967 to 1982
The Boeing Company | 1964 to 1967

Education: Degree(s)/Year/Specialization:

2 yr, Building Trade Curriculum, Delgado, New Orleans
2 yr, Mathematics Curriculum, University of New Orleans

Active Registration: Year first registered/discipline:

1974 / Professional Land Surveyor (Louisiana No. 4329)
1974 / Professional Land Surveyor (Mississippi No. 1633)

Other experience and qualifications relevant to the proposed Project:

Ralph P. Fontcuberta, Jr., PLS has provided services on an almost incalculable number of surveying projects throughout southeastern Louisiana in the past half century and has been a registered Professional Land Surveyor (PLS) since 1974. He is thoroughly knowledgeable in all aspects of surveying: topographic, hydrographic, boundary, right-of-way surveying, and all facets thereof. He has provided surveying services for residential, plant, and industrial layout projects, ranging from small private lots & buildings to multi-million-dollar programs, including the New Orleans FEMA Streets/Recovery Roads Program. Since the beginning of his career, his work has entailed computations, drafting, and field work for various industrial, commercial, municipal, and private clients.

Project work has included topographic surveying needed for a wide variety of engineering, architectural, construction, and other related endeavors. This has included projects for numerous branches of virtually every regional city/parish/town government, multiple State agencies (LA Dept. of Natural Resources (LADNR), Coastal Protection & Restoration Administration (CPRA), LA

TEC Professional Services Questionnaire

Other experience and qualifications: **Ralph P. Fontcuberta, Jr., PLS (continued)**

Dept. of Transportation & Development (LADOTD), MS Dept. of Transportation (MDOT), and others), Federal agencies (U.S. Army Corps of Engineers (USACE), Dept. of the Navy, etc.), private/ public companies (Entergy, BellSouth, Cox Cable, etc.), and numerous other public/private entities.

Mr. Fontcuberta's surveying experience with Jefferson Parish can be traced back to BFM's inception in 1982, and to 1967 then while working as a surveyor with another firm. He has over half a century of experience with surveying throughout the region and specifically with Jefferson Parish. He has served as the PLS for projects throughout every corner of Jefferson Parish. Relevant project history includes, but is certainly not limited to, the following:

- Waterline Improvements, Metairie Terrace Neighborhood South (Shrewsbury Road, Amoult Road, Katlan Street, Lausat Street, Hullen Street, Claiborne Avenue & Jimco Road), JPPW No. 2023-040-WRB, Jefferson Parish, LA
- East Bank Water Treatment Plant Improvements Project (including Laser Scanning), Jefferson Parish, LA
- Waterline Improvements on North 1-10 Service Road, South I-10 Service Road, Walbash Street, and Hearst Street, JPPW No. 2023-010B-WRB, Jefferson Parish, LA
- Route Topographic Survey for the Jefferson Parish Waterline Project (2023-032-WRB), Shrewsbury Neighborhood, Jefferson Parish, LA
- Central Avenue Roadway Drainage & Water Main Improvements, Jefferson Parish, LA
- Waterline Improvements on Elizabeth Avenue, Ruth Street, Kathleen Avenue, and Parkaire Drive, JPPW No. 2023-012B-WRB, Jefferson Parish, LA
- Locate 16-inch Water Line between Valve Station 18 and Valve Station 24, Grand Isle, Jefferson Parish, LA
- River Road Water Line Replacement (Phase II), Jefferson Parish, LA
- Route Topographic Survey for Jefferson Parish Waterline No. 2023-022-WRB (Estalote Avenue), Jefferson Parish, LA
- East Bank Water Treatment Plant Project - Water and Utility Line Survey, Jefferson Parish, LA
- Route Topographic Survey for Jefferson Parish Waterline Project 2023-010A-WRB, Jefferson Parish, LA
- Waterline Improvements on Colony Place, Elizabeth Avenue, Concord Avenue, Stanford Avenue, and Flagler Street, JPPW 2023-012A-WRB, Jefferson Parish, LA
- Route Topographic Survey for Jefferson Parish Waterline Replacement Project, Central Avenue, Karen Avenue, and Newman Avenue, JPPW 2023-007-WRB, Jefferson Parish, LA
- Waterline Replacement at Shrewsbury Neighborhood (2023-013B-WRB), Jefferson Parish, LA
- Route Topographic Survey for the Williams Boulevard Waterline Replacement Project (between Airline Highway and West Metairie), Jefferson Parish, LA
- Route Topographic Survey for Jefferson Parish Waterline Project 2023-030-WRB, Jefferson Parish, LA
- Route Topographic Survey for Jefferson Parish Waterline Replacement Project, Veterans Boulevard (Crestview Avenue), JPPW 2023-016A-WRB, Jefferson Parish, LA

TEC Professional Services Questionnaire

Other experience and qualifications: **Ralph P. Fontcuberta, Jr., PLS (continued)**

- Route Topographic Survey for the Jefferson Heights Water System Improvements Project, Jefferson Parish, LA
- Route Topographic Survey for Jefferson Parish Waterline Project 2023-041-WRB, Jefferson Parish, LA
- Location Survey for the 16-inch Water Line between Lafitte and Grand Isle, Jefferson Parish, LA
- River Road Water Line, Waggaman, Jefferson Parish, LA
- Lower Lafitte Waterline Stakeout, Jefferson Parish, LA
- Route Topographic & Right-of-Way Survey for Sonia Place (S. Labarre Road to Santa Ana Avenue), Jefferson Parish, LA
- Belle Chasse Water Plant Intake, Belle Chasse, Jefferson Parish, LA
- East Jefferson Water Works - River Road, Jefferson Parish, LA
- Iris Avenue Water Line Replacement, Jefferson Parish, LA
- Grand Isle Water Tower Site Project, Town of Grand Isle, Jefferson Parish, LA
- Emergency Generator Replacement at the East Bank Treatment Plant, Jefferson Parish, LA
- West Bank Water Intake Basin Hydrographic Survey, Jefferson Parish, LA
- Evans Road Waterline Repair - Mississippi River Levee Cross Section, Jefferson Parish, LA
- Water Line Location Surveying, Grand Isle, Jefferson Parish, LA
- Grand Isle Water Main Location, Jefferson Parish, LA
- Water Main Installation, Live Oak Boulevard, West Bank, Jefferson Parish, LA
- East Bank Water Plant Intake Basin Hydrographic Survey, Jefferson Parish, LA
- Fifi Island/Bayou Rigaurd Water Line Location, Grand Isle, Jefferson Parish, LA
- Gretna Water Tower, Jefferson Parish, LA
- Canal No. 17 Bank Stabilization Phase II, Jefferson Parish, LA
- Channel Repair, Phase II, Construction Unit No. 3 (West Bank), Jefferson Parish, LA
- Channel Repair, Phase II, Construction Unit No. 2 (East Bank), Jefferson Parish, LA
- Central Avenue Project (including Utilities), Metairie, Jefferson Parish, LA
- Lapalco Blvd. Improvements (Segnette to Tanglewood); 96-019B-RBI, Jefferson Parish, LA
- Oakwood/Terrytown Drainage Improvements, Jefferson Parish, LA
- Upper Kraak Pump Station, Jefferson Parish, LA
- Clearview Parkway & Airline Boulevard Intersection, Jefferson Parish, LA
- Severn Corridor (Subsurface Utility Engineering (SUE)), Metairie, Jefferson Parish, LA
- Lasalle Rest Room Building, Jefferson Parish, LA
- Citrus Boulevard Improvements, Jefferson Parish, LA

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Chad M. Poché, P.E.
Executive Vice President / Registered Professional Geotechnical Engineer

Project Assignment:

Engineering Liaison

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

7 years (became partial owner of BFM in 2017);
31 years total (1993)

BFM Corporation, LLC | 2017 to present
Gulf South Engineering and Testing, Inc. | 2011 to present
Ardaman and Associates, Inc. | 2007 to 2011
Eustis Engineering | 1996 to 2001
Soil Testing Engineers, Inc. | 1993 to 1996

Education: Degree(s)/Year/Specialization:

M.S., 1998, Civil Engineering, University of New Orleans
B.S., 1993, Civil Engineering, Louisiana State University

Active Registration: Year first registered/discipline:

1998, Civil Engineer (Louisiana No. 27667)
2002, Civil Engineer (Mississippi No. 15405)

Other experience and qualifications relevant to the proposed Project:

Chad M. Poché, P.E. is an Executive Vice President with (and partial owner of) BFM Corporation, LLC, and a co-founder of BFM's sister company, Gulf South Engineering and Testing, Inc. He has been a consulting geotechnical engineer for nearly 30 years in South Louisiana, working on traditional and unique geotechnical engineering projects (shallow and deep foundation design, slope stability, pavement design, etc.). Mr. Poché has also provided construction oversight for waste facilities and virtually every type of earthwork related project. He has been the geotechnical engineer of record for thousands of projects throughout his career.

Mr. Poché's experience includes the development of appropriate scopes of work and proposals for a broad range of projects; planning and coordinating analyses; preparing technical reports; foundation and geotechnical engineering design; construction recommendations; Miss. River facility permitting; managing personnel and office operations, and; serving as an Expert Witness. Mr. Poché has logged soil borings; overseen the installation of ground water monitoring wells, piezometers, and inclinometers; overseen and evaluated pile load tests; overseen, performed, and evaluated dynamic pile testing (PDA and PIT); performed CMT field testing and inspection; and performed laboratory testing.

TEC Professional Services Questionnaire

Other experience and qualifications: **Chad M. Poché, P.E. (continued)**

Waterline Improvements, Metairie Terrace Neighborhood South, JPPW Project No. 2023-040-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the Jefferson Parish Waterline Project 2023-016A-WRB, which involves a total of approximately 9,100 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. BFM is providing additional surveying on additional projects as part of a larger overall Waterline Improvements Program for Jefferson Parish. ($88,400 (fee); 2023)

Waterline Improvements on North 1-10 Service Road, South I-10 Service Road, Walbash Street, and Hearst Street, JPPW Project No. 2023-010B-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 8,100 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. BFM is providing additional surveying on additional projects as part of a larger overall Waterline Improvements Program for Jefferson Parish. ($88,400 (fee); 2023)

Route Topographic Survey for Jefferson Parish Waterline Project (2023-032-WRB), Shrewsbury Neighborhood, Jefferson Parish, LA. BFM prepared a Route Topographic Survey for the project, which involved Shrewsbury Neighborhood: L&A Road, Access Road, K&B Road, McDermott Road, and Earhart Expressway; a total of approximately 8,600 lf. Scope includes establishing a baseline, setting a CBM and establishing TBMs. Existing improvements & utilities were located. BFM determined depth, size, and type of pipes and locate and identified trees. (BFM provided surveying services on multiple projects as part of a larger overall Waterline Improvements Program for Jefferson Parish.) ($88,140 (fee); 2023)

Route Topographic Survey for Jefferson Parish Waterline Project No. 2023-022-WRB (Estalote Avenue), Jefferson Parish, LA. BFM Corporation was selected to prepare a Route Topographic Survey for the project (2023-022-WRB) in Jefferson Parish. The limits of survey involved the area along Estalote Avenue, a total of approximately 8,500 linear feet, including intersecting streets. The survey includes establishing a baseline and establishing Temporary Benchmarks (TBMs). Existing improvements and utilities were located. BFM determined the depth, size, and type of pipes and locate and identified trees. Spot elevations were also taken. ($84,280 (fee); 2023)

Route Topographic Survey for Jefferson Parish Waterline Project 2023-010A-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 7,000 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($78,100 (fee); 2023)

Waterline Improvements on Colony Place, Elizabeth Avenue, Concord Avenue, Stanford Avenue, and Flagler Street, JPPW 2023-012A-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 7,900 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. BFM is providing additional surveying on additional projects as part of a larger overall Waterline Improvements Program for Jefferson Parish. ($77,840 (fee); 2023)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Gary J. Lambert, Jr., PLS
Vice President / Registered Professional Land Surveyor

Project Assignment:

Project Manager/Drafting Supervisor

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

6 years (joined BFM in 2018);
13 years total (2011)

BFM Corporation, LLC | 2018 to present
Riverlands Surveying | 2016 to 2018
Bertucci Contracting | 2011 to 2016

Education: Degree(s)/Year/Specialization:

B.S., 2018, Geomatics, Nicholls State University
B.S., 2014, Construction Management, Louisiana State University

Active Registration: Year first registered/discipline:

2021, Professional Land Surveyor (Louisiana No. 5929)

Other experience and qualifications relevant to the proposed Project:

Gary J. Lambert, Jr., is a registered Professional Land Surveyor in Louisiana and provides Project Management and Drafting Oversight for BFM Corporation. He is the first point of contact for clients on technical matters, scheduling, and deliverables for project work, and conducts meetings with engineering, architectural, and government officials to discuss various project needs. His project work has encompassed all manner of surveying services, from basic home lots to 100+ acre tract boundary surveys.

In the field, Mr. Lambert has provided services as a Survey Crew Chief, using both traditional and robotic surveying methods, since the start of his professional career, and has experience with Leica, Hypack, AutoCAD, AutoCAD 3D, Trimble, and RTK surveying technologies. He further trains employees in the use of an aerial drone, laser scanner, and remote-controlled hydrographic survey boat. This survey experience includes topographic, boundary, ALTA/NSPS, FEMA, and various construction surveying. Mr. Lambert has also conducted hydrographic surveys in the Mississippi River and various other bodies of water throughout the Gulf Coast area.

Mr. Lambert has completed Basic OSHA Training and holds license with the Gulf Coast Safety Council (08SSV, ID429523).

TEC Professional Services Questionnaire

Other experience and qualifications: **Gary J. Lambert, Jr., PLS (continued)**

East Bank Water Treatment Plant Improvements, Jefferson Parish, LA. BFM's surveying services, as part of Task Order No. 3 of the project, involved BFM's location of exposed water or utility lines after said lines were excavated by another firm. Horizontal location and vertical elevation, at top of pipe, was recorded along with the pipe size and type. Field data was processed to add to the existing topographic survey, previously executed by BFM. ($19,703 (fee); 2018)

Waterline Improvements on Elizabeth Avenue, Ruth Street, Kathleen Avenue, and Parkaire Drive, JPPW Project No. 2023-012B-WRB, Jefferson Parish, LA. BFM Corporation was selected to prepare a Route Topographic Survey for the project, which involved multiple street locations (Elizabeth Avenue, Ruth Street, Linwood Avenue, Loraine Street, Kathleen Avenue, and Parkaire Drive) in Jefferson Parish. The limits of survey involve the noted routes and are to be within the entire street rights-of-way of all limits indicated as well as 10 feet beyond the apparent right-of-way on each side, totaling approximately 5,900 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. BFM is providing surveying services on multiple projects as part of a larger overall Waterline Improvements Program for Jefferson Parish. ($55,300 (fee); 2023)

Route Topographic Survey for Jefferson Parish Waterline Replacement Project, Central Avenue, Karen Avenue, and Newman Avenue, JPPW 2023-007-WRB, Jefferson Parish, LA. BFM Corporation was selected to prepare a Route Topographic Survey for the project (approximately 5,650 linear feet). The project will establish a baseline throughout the project, a Construction Benchmark (CBM), and set Temporary Benchmarks (TBMs) along each route. Existing improvements and utilities will be located. BFM will determine depth, size, and type of pipes and locate and identify trees. BFM will also locate property corners to establish the rights-of-way. BFM is providing additional surveying on additional projects as part of a larger overall Waterline Improvements Program for Jefferson Parish. ($67,740 (fee); 2023)

Route Topographic Survey for Jefferson Parish Waterline Project 2023-030-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 4,600 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($59,300 (fee); 2023)

Route Topographic & Right-of-Way Survey for Sonia Place, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 1400 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($15,120 (fee); 2023)

Central Avenue Roadway Drainage & Water Main Improvements, Jefferson Parish, LA. BFM Corporation provided surveying services for the project; the scope of which consisted of verifying pipe sizes and inverts for drainage structures along the west side (only) of Central Avenue, which was located during a previous BFM project. BFM located any new drainage structures within the previous survey limits and determined the depth, size, and type of pipes within each drainage structure which were shown on the previous survey. This included catch basins, drop inlets, and ditch culvert pipes. Alterations/updates were noted on an updated version of the previous survey. ($2,850 (fee); 2022)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Christopher Lemley
Field Operations Manager/Survey Crew Chief

Project Assignment:

Field Operations Manager/Survey Crew Chief

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

10 years (joined BFM in 2014);
18 years total (2006)

BFM Corporation, LLC | 2014 to present
G.E.C., Inc. | 2010 to 2014
Krebs, LaSalle, LeMieux Consultants, Inc. | 2006 to 2010

Education: Degree(s)/Year/Specialization:

High School Diploma

Active Registration: Year first registered/discipline:

American Traffic Safety Service Assn. – Traffic Flagger
Louisiana Boater Education - Boating Safety Certificate
Norfolk Southern Roadway Worker Protection Contractor Safety Certificate

Other experience and qualifications relevant to the proposed Project:

Chris Lemley's services as BFM's Field Operations Manager includes overseeing all field work and activity by company personnel. His surveying experience includes over 8 years as a Survey Crew Chief. His survey software experience includes projects involving Trimble, Topcon, Leica, and Hypack, and has maintained and operated GPS, Auto-Level, and Total Station. Notable past project work has included the New Orleans Museum of Art, Jackson Barracks Restoration, US Highway 11, NASA Michoud Cells 3 & 4, the St. Bernard Lot Next Door Program, and multiple Orleans Parish School Recovery projects (including L.B. Landry, George Washington Carver, and Alice M. Harte schools).

Route Topographic Survey for Jefferson Parish Waterline Replacement Project, Central Avenue, Karen Avenue, and Newman Avenue, JPPW 2023-007-WRB, Jefferson Parish, LA. BFM Corporation was selected to prepare a Route Topographic Survey for the project (approximately 5,650 linear feet). The project will establish a baseline throughout the project, a Construction Benchmark (CBM), and set Temporary Benchmarks (TBMs) along each route. Existing improvements and utilities will be located. BFM will determine depth, size, and type of pipes and locate and identify trees. BFM will also locate property corners to establish the rights-of-way. BFM is providing additional surveying on additional projects as part of a larger overall Waterline Improvements Program for Jefferson Parish. ($67,740 (fee); 2023)

TEC Professional Services Questionnaire

Other experience and qualifications: **Christopher Lemley (continued)**

Route Topographic Survey for Jefferson Parish Waterline Project No. 2023-022-WRB (Estalote Avenue), Jefferson Parish, LA. BFM Corporation was selected to prepare a Route Topographic Survey for the project (2023-022-WRB) in Jefferson Parish. The limits of survey involved the area along Estalote Avenue, a total of approximately 8,500 linear feet, including intersecting streets. The survey includes establishing a baseline and establishing Temporary Benchmarks (TBMs). Existing improvements and utilities were located. BFM determined the depth, size, and type of pipes and locate and identified trees. Spot elevations were also taken. ($84,280 (fee); 2023)

Route Topographic Survey for Jefferson Parish Waterline Project 2023-030-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 4,600 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($59,300 (fee); 2023)

Route Topographic & Right-of-Way Survey for Sonia Place, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 1400 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($15,120 (fee); 2023)

Route Topographic Survey for Jefferson Parish Waterline Project 2023-010A-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 7,000 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($78,100 (fee); 2023)

Route Topographic Survey for Jefferson Parish Waterline Project 2023-016A-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the Jefferson Parish Waterline Project 2023-016A-WRB, which involves a total of approximately 5,000 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($55,740 (fee); 2023)

Route Topographic Survey for Jefferson Parish Waterline Project 2023-041-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 4,000 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($44,200 (fee); 2023)

Waterline Replacement at Shrewsbury Neighborhood (2023-013B-WRB), Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves Shrewsbury Road and associated side streets, a total of approximately 6,650 lf. The scope of work involves establishment of a baseline along each route, establishing Temporary Benchmarks (TBM) at 500 ft. intervals. Existing improvements and utilities will be located. BFM will determine depth, size, and type of pipes and locate and identify trees. ($66,170 (fee); 2023)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

John Philip Thayer
Procurement Director (Proposals & Project Management Support)

Project Assignment:

Project Management Support

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

16 years (joined BFM in 2008);
17 years total (2007)

BFM Corporation, LLC | 2008 to present
Delle Land Surveying | 2007 to 2008

Education: Degree(s)/Year/Specialization:

Certificate, 2015, Land Surveying Services
B.S., 2007, Physical Education, Trevecca Nazarene University

Active Registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Phil Thayer serves as BFM's Procurement Director, providing proposal preparation and Project Management Support, having considerable experience in field surveying services, including ALTA/ as-built surveying, construction layout, boundary, topographic, cross-sections, GPS use, and numerous other surveying types.

Route Topographic Survey for Jefferson Parish Waterline Replacement Project, Central Avenue, Karen Avenue, and Newman Avenue, JPPW 2023-007-WRB, Jefferson Parish, LA. BFM Corporation was selected to prepare a Route Topographic Survey for the project (approximately 5,650 linear feet). The project will establish a baseline throughout the project, a Construction Benchmark (CBM), and set Temporary Benchmarks (TBMs) along each route. Existing improvements and utilities will be located. BFM will determine depth, size, and type of pipes and locate and identify trees. BFM will also locate property corners to establish the rights-of-way. BFM is providing additional surveying on additional projects as part of a larger overall Waterline Improvements Program for Jefferson Parish. ($67,740 (fee); 2023)

Waterline Improvements on Elizabeth Avenue, Ruth Street, Kathleen Avenue, and Parkaire Drive, JPPW Project No. 2023-012B-WRB, Jefferson Parish, LA. BFM Corporation was selected to prepare a Route Topographic Survey for the project, which involved multiple street locations (Elizabeth Avenue, Ruth Street, Linwood Avenue, Loraine Street, Kathleen Avenue, and Parkaire Drive) in Jefferson Parish. The limits of survey involve the noted routes and are to be within the entire street rights-of-way of all limits indicated as well as 10 feet beyond the apparent right-of-

TEC Professional Services Questionnaire

Other experience and qualifications: **John Philip Thayer (continued)**

way on each side, totaling approximately 5,900 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. BFM is providing surveying services on multiple projects as part of a larger overall Waterline Improvements Program for Jefferson Parish. ($55,300 (fee); 2023)

East Bank Water Treatment Plant Improvements, Jefferson Parish, LA. BFM's surveying services, as part of Task Order No. 3 of the project, involved BFM's location of exposed water or utility lines after said lines were excavated by another firm. Horizontal location and vertical elevation, at top of pipe, was recorded along with the pipe size and type. Field data was processed to add to the existing topographic survey, previously executed by BFM. ($19,703 (fee); 2018)

Lower Lafitte Waterline, Jefferson Parish, LA. BFM provided surveying services associated with the location of a 16 inch plastic waterline in the Barataria Waterway as part of the Lower Lafitte Shoreline Stabilization project. BFM provided stakeout surveying for the project, staking the water line every 50 feet (with 4 ft. wooden stakes). Certain areas were very deep and the line was not accurately located in this area. BFM set markers where approximate locations were based on the areas where the line was found. ($38,205 (fee); 2017)

Belle Chasse Water Plant Intake, Belle Chasse, Jefferson Parish, LA. BFM provided bathymetric, boundary and topographic surveying services for the project. Improvements on the site were located, as well as visible above-ground utilities & underground utilities with visible surface evidence. Existing storm sewer and sanitary sewers were located using top of casing; invert elevations were provided on the survey. Bathymetric surveys were tied to the U.S. Army Corps of Engineers baseline. Deliverables included indelible prints and AutoCAD DWG format drawing files. ($14,804 (fee); 2016)

Emergency Generator Replacement at the East Bank Treatment Plant, Jefferson Parish, LA. BFM prepared a topographic survey of the area surrounding the proposed site for the emergency generators. ($5,888 (fee); 2012)

Iris Avenue Water Line Replacement, Jefferson Parish, LA. BFM provided topographic surveying services for the Iris Avenue Water Line Replacement. This included the area of Iris Avenue from River Road to Jefferson Highway, on Lance Street and Jeanette Streets from Iris A venue to Brooklyn A venue. As executed, the surveys extended from right of way to right of way. ($18,493 (fee); 2011)

East Bank Water Plant Intake Basin Hydrographic Survey, Jefferson Parish, LA. BFM Corporation provided hydrographic surveying for the project. Our scope of services included soundings into the Mississippi River (to a -50 elevation); this element included location of the intake structure and elevations inside the structure as well as on the intake pipes. BFM further located the discharge ditch on the down river side of the structure. Deliverables included an indelible print and AutoCAD DWG files. ($4,975 (fee); 2010)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Dawn Hoffman
Researcher/Archivist

Project Assignment:

Researcher/Archivist

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

15 years (joined BFM in 2009);
27 years total (1997)

BFM Corporation, LLC | 2009 to present
Fluor Corporation | 2007 to 2009
Geographic Computer Technologies, LLC | 2000 to 2007

Education: Degree(s)/Year/Specialization:

A.D., 1999, Computer-Aided Drafting, Southeast College of Technology
Certificate, 2003, Introduction to ArcGIS, Louisiana State University

Active Registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Dawn Hoffman serves as BFM's primary researcher and has more than 25 years of experience in this field. She is extremely knowledgeable with researching in various parishes and cities.

Route Topographic Survey for Jefferson Parish Waterline Project 2023-030-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 4,600 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($59,300 (fee); 2023)

East Bank Water Treatment Plant Improvements Project (including Laser Scanning), Jefferson Parish, LA. BFM provided surveying services for Tasks 1 (topographic) and 2 (boundary) of the project, part of a major improvements project for the East Bank Water Treatment Plant located at 3600 Jefferson Highway in Jefferson Parish. This included executing a 3D Laser Scan for an As-Built Utilities survey. Draft surveying (in conjunction with the Prime Firm) as well as provision of final survey were prepared as directed. ($166,230 (fee); 2017)

Grand Isle Water Tower Site Project (DPW Proj. 2008-018-WR), Town of Grand Isle, Jefferson Parish, LA. BFM Corporation provided a topographic survey; scope included establishing a TBM, preparing a boundary survey, taking elevations (at 25 ft. intervals) with spot elevations on paving or other hard surfaces. Location of improvements were plotted within the designated limits of survey. Utilities and piping were located, as was existing storm sewer and sanitary sewer structures.

Other experience and qualifications: **Dawn Hoffman (continued)**

Specimen trees were all also located. BFM provided follow-up surveying services for the project, an extension of DPW Project 2008-018-WR. Deliverables included indelible prints and in AutoCAD DWG format. ($15,612 (fee); 2012)

East Jefferson Water Works – River Road, Jefferson Parish, LA. BFM's surveying services for the project involved the location of existing water lines/pipes for the East Jefferson Water Works located on River Road in Jefferson Parish. ($2,070 (fee); 2017)

Waterline Improvements on Colony Place, Elizabeth Avenue, Concord Avenue, Stanford Avenue, and Flagler Street, JPPW 2023-012A-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 7,900 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. BFM is providing additional surveying on additional projects as part of a larger overall Waterline Improvements Program for Jefferson Parish. ($77,840 (fee); 2023)

Waterline Improvements on North 1-10 Service Road, South I-10 Service Road, Walbash Street, and Hearst Street, JPPW Project No. 2023-010B-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 8,100 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. BFM is providing additional surveying on additional projects as part of a larger overall Waterline Improvements Program for Jefferson Parish. ($88,400 (fee); 2023)

Route Topographic Survey for Jefferson Parish Waterline Project 2023-010A-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 7,000 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($78,100 (fee); 2023)

Location Survey for the 16-inch Water Line between Lafitte and Grand Isle, Jefferson Parish, LA. BFM located the 16-inch water line in the exposed areas from Sta. 0+00 on the north bank of Bayou Rigolettes to the south bank of Bayou Rigaud in Grand Isle, Louisiana. In a previous project for the Parish (BFM Proj 7317; Fifi Island/Bayou Rigaurd Water Line Location in 2010), BFM located both the upper & lower portions of the 16-inch water line. This left the approximate location of the area previously located on Fifi Island; 138,776 feet or 25.79 miles. For the survey, probing was done utilizing a jet probe system developed by BFM Corporation and the locations were made with RTN (Real Time Network) GPS. The Real Time Network is maintained by Louisiana State University and allowed for sub-centimeter level accuracy with GPS. This data was included with deliverables in AutoCAD DWG format and in ASCII text format for integration into the Parish GIS system. ($363,080 (fee); 2013)

Iris Avenue Water Line Replacement, Jefferson Parish, LA. BFM provided topographic surveying services for the Iris Avenue Water Line Replacement. This included the area of Iris Avenue from River Road to Jefferson Highway, on Lance Street and Jeanette Streets from Iris A venue to Brooklyn A venue. As executed, the surveys extended from right of way to right of way. ($18,493 (fee); 2011)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Anthony Watson
CADD Technician (AutoCADD Drafting Services)

Project Assignment:

CADD Technician (AutoCADD Drafting Services)

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

13 years (joined BFM in 2011);
33 years total (1991)

BFM Corporation, LLC | 2011 to present
Krebs LaSalle Lemieux / GEC | 2008 to 2011
Doug Connally and Associates Land Surveying (Dallas, TX) | 1995-2008
Electrician | 1991 to 1995
City of Plano TX (Part-Time Drafting Services) | 1991

Education: Degree(s)/Year/Specialization:

Coursework - CAD, Avatech Solutions, Los Colinas, TX

Active Registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Anthony Watson has experience as a draftsman/survey technician, having started his career as an intern with the Surveying Department of the City of Plano, Texas. His experience through the years includes manual and computer-aided drafting for a wide range of projects, ranging from small lot surveys to subdivisions to municipal treatment and private industrial plants. He has experience in all facets of surveying (boundary, topographic, ALTA/ACSM, plan & profile, etc.) in both drafting and field environments.

Route Topographic Survey for Jefferson Parish Waterline Project 2023-030-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 4,600 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($59,300 (fee); 2023)

Route Topographic & Right-of-Way Survey for Sonia Place, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 1400 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($15,120 (fee); 2023)

Other experience and qualifications: **Anthony Watson (continued)**

Route Topographic Survey for Jefferson Parish Waterline Project 2023-010A-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 7,000 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($78,100 (fee); 2023)

Central Avenue Roadway Drainage & Water Main Improvements, Jefferson Parish, LA. BFM Corporation provided surveying services for the project; the scope of which consisted of verifying pipe sizes and inverts for drainage structures along the west side (only) of Central Avenue, which was located during a previous BFM project. BFM located any new drainage structures within the previous survey limits and determined the depth, size, and type of pipes within each drainage structure which were shown on the previous survey. This included catch basins, drop inlets, and ditch culvert pipes. Alterations/updates were noted on an updated version of the previous survey. ($2,850 (fee); 2022)

Route Topographic Survey for Jefferson Parish Waterline Project 2023-016A-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the Jefferson Parish Waterline Project 2023-016A-WRB, which involves a total of approximately 5,000 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($55,740 (fee); 2023)

Route Topographic Survey for Jefferson Parish Waterline Project 2023-041-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 4,000 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($44,200 (fee); 2023)

Waterline Improvements on North I-10 Service Road, South I-10 Service Road, Walbash Street, and Hearst Street, JPPW Project No. 2023-010B-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 8,100 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. BFM is providing additional surveying on additional projects as part of a larger overall Waterline Improvements Program for Jefferson Parish. ($88,400 (fee); 2023)

Route Topographic Survey for Jefferson Parish Waterline Project No. 2023-022-WRB (Estalote Avenue), Jefferson Parish, LA. BFM Corporation was selected to prepare a Route Topographic Survey for the project (2023-022-WRB) in Jefferson Parish. The limits of survey involved the area along Estalote Avenue, a total of approximately 8,500 linear feet, including intersecting streets. The survey includes establishing a baseline and establishing Temporary Benchmarks (TBMs). Existing improvements and utilities were located. BFM determined the depth, size, and type of pipes and locate and identified trees. Spot elevations were also taken. ($84,280 (fee); 2023)

Review and Update Survey Plats for the Lafitte Area Hurricane Protection Levee, Lafitte, Jefferson Parish, LA. BFM provided surveying services to review and update survey plats for the Lafitte Area Hurricane Protection Levee. BFM has provided survey updates for the site as needed for over a decade. ($2,600 (fee); 2016)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Curtis "Jay" Barrios
Survey Crew Chief

Project Assignment:

Survey Crew Chief

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

34 years (joined BFM in 1990);
39 years total (1985)

BFM Corporation, LLC | 1990 to present
Benson Mercedes Benz | 1989 to 1990
SECO Electric | 1987
Frishhertz Electric | 1986 to 1987
Plain Construction | 1985 to 1986

Education: Degree(s)/Year/Specialization:

High School Diploma

Active Registration: Year first registered/discipline:

American Traffic Safety Service Assn. – Traffic Flagger
Basic OSHA Training Class Completion
Transportation Work Identification Card (TWIC)

Other experience and qualifications relevant to the proposed Project:

Jay Barrios' surveying experience includes boundary, hydrographic, and topographic. He has been the Survey Crew Chief for thousands of projects and is one of the more experienced surveyors in the area. Further, Mr. Barrios has been involved on major transmission projects for Entergy and South Central Bell (AT&T).

Route Topographic Survey for Jefferson Parish Waterline Project (2023-032-WRB), Shrewsbury Neighborhood, Jefferson Parish, LA. BFM prepared a Route Topographic Survey for the project, which involved Shrewsbury Neighborhood: L&A Road, Access Road, K&B Road, McDermott Road, and Earhart Expressway; a total of approximately 8,600 lf. Scope includes establishing a baseline, setting a CBM and establishing TBMs. Existing improvements & utilities were located. BFM determined depth, size, and type of pipes and locate and identified trees. (BFM provided surveying services on multiple projects as part of a larger overall Waterline Improvements Program for Jefferson Parish.) ($88,140 (fee); 2023)

River Road Water Line Replacement, Jefferson Parish, LA. As directed by the Project Engineer, BFM provided topographic surveying services for the project, which extended from Rivet Boulevard to Willswood Drive (approximately 14,000 linear feet plus 50-foot intersections). This project was part of the Louisiana Department of Health and Hospitals (LDHH) Clean Drinking Water loan

program. The scope of work executed by BFM included establishing a baseline parallel with the right of way, setting TBMs, and plotting spot elevations. Improvements and utilities were located and plotted within the designated limits of survey. Boundary corners were located along the route in order to assist in determining widths of any existing rights of way. Trees on site (over 4-inches in diameter) were also located. ($84,700 (fee); 2015)

Route Topographic Survey for Jefferson Parish Waterline Project No. 2023-022-WRB (Estalote Avenue), Jefferson Parish, LA. BFM Corporation was selected to prepare a Route Topographic Survey for the project (2023-022-WRB) in Jefferson Parish. The limits of survey involved the area along Estalote Avenue, a total of approximately 8,500 linear feet, including intersecting streets. The survey will include establishing a baseline and establishing Temporary Benchmarks (TBMs). Existing improvements and utilities will be located. BFM will determine depth, size, and type of pipes and locate and identify trees. Spot elevations will also be taken. ($84,280 (fee); 2023)

Route Topographic Survey for Jefferson Parish Waterline Project 2023-010A-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 7,000 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. ($78,100 (fee); 2023)

Waterline Improvements on Colony Place, Elizabeth Avenue, Concord Avenue, Stanford Avenue, and Flagler Street, JPPW 2023-012A-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 7,900 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. BFM is providing additional surveying on additional projects as part of a larger overall Waterline Improvements Program for Jefferson Parish. ($77,840 (fee); 2023)

Waterline Improvements on North 1-10 Service Road, South I-10 Service Road, Walbash Street, and Hearst Street, JPPW Project No. 2023-010B-WRB, Jefferson Parish, LA. BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 8,100 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. BFM is providing additional surveying on additional projects as part of a larger overall Waterline Improvements Program for Jefferson Parish. ($88,400 (fee); 2023)

Location Survey for the 16-inch Water Line between Lafitte and Grand Isle, Jefferson Parish, LA. BFM located the 16-inch water line in the exposed areas from Sta. 0+00 on the north bank of Bayou Rigolettes to the south bank of Bayou Rigaud in Grand Isle, Louisiana. In a previous project for the Parish (BFM Proj 7317; Fifi Island/Bayou Rigaurd Water Line Location in 2010), BFM located both the upper & lower portions of the 16-inch water line. This left the approximate location of the area previously located on Fifi Island; 138,776 feet or 25.79 miles. For the survey, probing was done utilizing a jet probe system developed by BFM Corporation and the locations were made with RTN (Real Time Network) GPS. The Real Time Network is maintained by Louisiana State University and allowed for sub-centimeter level accuracy with GPS. This data was included with deliverables in AutoCAD DWG format and in ASCII text format for integration into the Parish GIS system. ($363,080 (fee); 2013)

TEC Professional Services Questionnaire

L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this project. Please include and and all work performed for Jefferson Parish. Please attach additional pages if necessary.

PROJECT NO. 1		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
Waterline Improvements, Metairie Terrace Neighborhood South (Shrewsbury Road, Amoult Road, Katlan Street, Lausat Street, Hullen Street, Claiborne Avenue & Jimco Road), JPPW No. 2023-040-WRB, Jefferson Parish, Louisiana **GIS Engineering** 935 Gravier Street Suite 600 New Orleans LA 70112 **Kyle Galloway, P.E.**, 504-264-3504 kgalloway@gisy.com	BFM Corporation was selected to provide a Route Topographic Survey for the Jefferson Parish Waterline Project 2023-016A-WRB, which involves a total of approximately 9,100 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. BFM is providing additional surveying on additional projects as part of a larger overall Waterline Improvements Program for Jefferson Parish.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
September 2023	N/A	$88,400 (fee)

PROJECT NO. 2		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
East Bank Water Treatment Plant Improvements Project (including Laser Scanning), Jefferson Parish, Louisiana **Stantec** 1340 Poydras Street, Suite 1420 New Orleans LA 70112 **Jeffrey Sapia, P.E.**, 225-926-3991 jeffrey.sapia@stantec.com	BFM Corporation provided surveying services for Tasks 1 (topographic) and 2 (boundary) of the project, part of a major improvements project for the East Bank Water Treatment Plant located at 3600 Jefferson Highway in Jefferson Parish. This included executing a 3D Laser Scan for an As-Built Utilities survey. Draft surveying (in conjunction with the Prime Firm) as well as provision of final survey were prepared as directed.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
June 2017	N/A	$166,230 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
Waterline Improvements on North 1-10 Service Road, South I-10 Service Road, Walbash Street, and Hearst Street, JPPW No. 2023-010B-WRB, Jefferson Parish, Louisiana **Pivotal Engineering** 1515 Poydras Street Suite 1150 New Orleans LA 70112 **Yoseph Shifare, P.E.,** 504-939-2693 yshifare@pivotaleng.com	BFM Corporation was selected to provide a Route Topographic Survey for the project, which involves a total of approximately 8,100 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. BFM is providing additional surveying on additional projects as part of a larger overall Waterline Improvements Program for Jefferson Parish.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2023	N/A	$88,400 (fee)

PROJECT NO. 4		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
Route Topographic Survey for the Jefferson Parish Waterline Project (2023-032-WRB), Shrewsbury Neighborhood, Jefferson Parish, Louisiana **Burk-Kleinpeter, Inc.** 4176 Canal Street New Orleans LA 70119 **Henry M. Picard, III, P.E.,** 504-486-5901 hpicard@bkiusa.com	BFM Corporation prepared a Route Topographic Survey for the project, which involved Shrewsbury Neighborhood: L&A Road, Access Road, K&B Road, McDermott Road, and Earhart Expressway; a total of approximately 8,600 lf. Scope includes establishing a baseline, setting a CBM and establishing TBMs. Existing improvements & utilities were located. BFM determined depth, size, and type of pipes and locate and identified trees. (BFM provided surveying services on multiple projects as part of a larger overall Waterline Improvements Program for Jefferson Parish.)	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2023	N/A	$88,140 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
Central Avenue Roadway Water Main & Drainage Improvements, Jefferson Parish, Louisiana **Jefferson Parish** **Department of Capital Projects** 1221 Elmwood Park Blvd Ste 906 Jefferson LA 70123 **Neil Schneider,** 504-736-6833 nschneider@jeffparish.net	BFM Corporation provided surveying services for the project; the scope of which consisted of verifying pipe sizes and inverts for drainage structures along the west side (only) of Central Avenue, which was located during a previous BFM project. BFM located any new drainage structures within the previous survey limits and determined the depth, size, and type of pipes within each drainage structure which were shown on the previous survey. This included catch basins, drop inlets, and ditch culvert pipes. Alterations/updates were noted on an updated version of the previous survey.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
April 2023	N/A	$2,850 (fee)

PROJECT NO. 6		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
Waterline Improvements on Elizabeth Avenue, Ruth Street, Kathleen Avenue, and Parkaire Drive, JPPW No. 2023-012B-WRB, Jefferson Parish, Louisiana **Kyle Associates, LLC** 638 Village Lane North Mandeville LA 70471 **Kevin M. Drane, P.E.,** 985-727-9377 kdrane@kyleassociates.net	BFM Corporation was selected to prepare a Route Topographic Survey for the project, which involved multiple street locations (Elizabeth Avenue, Ruth Street, Linwood Avenue, Loraine Street, Kathleen Avenue, and Parkaire Drive) in Jefferson Parish. The limits of survey involve the noted routes and are to be within the entire street rights-of-way of all limits indicated as well as 10 feet beyond the apparent right-of-way on each side, totaling approximately 5,900 linear feet. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. BFM is providing surveying services on multiple projects as part of a larger overall Waterline Improvements Program for Jefferson Parish.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2023	N/A	$55,300 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
Locate 16-inch Water Line between Valve Station 18 & Valve Station 24, Grand Isle, Jefferson Parish, Louisiana **Jefferson Parish** **Water Department** 1221 Elmwood Park Blvd Ste 909 Jefferson LA 70123 **R. Douglas Vincent, P.E.,** 504-838-4363 JPWater@jeffparish.net	The purpose of the survey was to locate the 16-inch water line between Valve Station 18 and Valve Station 24. The length of this segment was approximately 57,400 feet. Survey probing was done utilizing a jet probe system developed by BFM Corporation and the locations were made with RTN (Real Time Network) GPS. The Real Time Network is maintained by Louisiana State University and allowed for sub-centimeter level accuracy with GPS. This data was included with deliverables in AutoCAD DWG format and in ASCII text format for integration into the Parish GIS system. BFM further prepared an estimate for the Parish to provide a location survey for the water line after it was lowered.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
November 2014	N/A	$133,444 (fee)

PROJECT NO. 8		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
River Road Water Line Replacement (Phase II), Jefferson Parish, Louisiana **Digital Engineering** 527 W Esplanade Ave Ste 200 Kenner LA 70065 **Frank T. Liang, P.E.,** 504-468-7515 fliang@deii.net	As directed by the Project Engineer, BFM provided topographic surveying services for the project, which extended from Rivet Boulevard to Willswood Drive (approximately 14,000 linear feet plus 50-foot intersections). This project was part of the Louisiana Department of Health and Hospitals (LDHH) Clean Drinking Water loan program. The scope of work executed by BFM included establishing a baseline parallel with the right of way, setting TBMs, and plotting spot elevations. Improvements and utilities were located and plotted within the designated limits of survey. Boundary corners were located along the route in order to assist in determining widths of any existing rights of way. Trees on site (over 4-inches in diameter) were also located.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
June 2015	N/A	$84,700 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
Route Topographic Survey for Jefferson Parish Waterline Project No. 2023-022-WRB (Estalote Avenue), Jefferson Parish, Louisiana **H. Davis Cole & Associates, Inc.** 1340 Poydras Street Suite 1850 New Orleans LA 70112 **Mike D'Angelo**, 504-836-2020 mike@hdaviscole.com	BFM Corporation was selected to prepare a Route Topographic Survey for the project (2023-022-WRB) in Jefferson Parish. The limits of survey involved the area along Estalote Avenue, a total of approximately 8,500 linear feet, including intersecting streets. The survey includes establishing a baseline and establishing Temporary Benchmarks (TBMs). Existing improvements and utilities were located. BFM determined the depth, size, and type of pipes and locate and identified trees. Spot elevations were also taken.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
August 2023	N/A	$84,280 (fee)

PROJECT NO. 10		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
East Bank Water Treatment Plant Project – Water and Utility Line Survey, Jefferson Parish, Louisiana **Stantec Consulting Services, Inc.** 1340 Poydras Street, Suite 1420 New Orleans LA 70112 **Jeffrey Sapia, P.E.**, 225-926-3991 jeffrey.sapia@stantec.com	BFM's surveying services, as part of Task Order No. 3 of the project, involved BFM's location of exposed water or utility lines after said lines were excavated by another firm. Horizontal location and vertical elevation, at top of pipe, was recorded along with the pipe size and type. Field data was processed to add to the existing topographic survey, previously executed by BFM.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
October 2018	N/A	$19,703 (fee)

TEC Professional Services Questionnaire

M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1. *BFM Corporation is not currently, nor has it previously been involved, in litigation with Jefferson Parish.*		
2.		
3.		
4.		

N. Use this space to provide any additional information or description of resources supporting Firm's qualifications for the proposed project.

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

CRITERIA 1 | PROFESSIONAL TRAINING AND EXPERIENCE

Established in 1982, **BFM Corporation, LLC, Professional Land & Hydrographic Surveying,** provides services to public & private concerns throughout Louisiana and the Gulf South. For over 40 years, BFM has provided surveying services covering all facets of engineering, construction, and forensics; topographic, and hydrographic, as well as drone-based surveying and high-definition laser scanning.

BFM Corporation is a majority Woman-Owned Business Enterprise (WBE) as well as a Hudson Initiative certified Small & Emerging Business and Small Entrepreneurship in Louisiana.

Our capabilities include the following and more:

- Topographic Surveying
- Drone Surveying
- Photogrammic & LiDAR and 3D Laser Scanning
- Bathymetric / Hydrographic Surveys
- Property, Boundary, and Right-of-Way Surveys
- Maps, Cross-Sections, & Data Sets; Benchmarks

TEC Professional Services Questionnaire

N. continued.

- Construction-Related Surveying and Builder's Package Surveys
- American Land Title Association (ALTA) Surveys

BFM's project work routinely involves **extensive records and related research** as an element of successful completion, as well as coordination with the client, agency or department. BFM has the personnel to make sure this is done correctly and expeditiously.

Our **Survey Field Crews** are equipped with Leica Viva and Leica Captivate Data Collectors, as well as Leica GPS Smart Antennas. Each GPS unit is linked to the Leica SmartNet Network, giving each crew the ability for Real Time Kinematic Positioning (RTK), derived from the Global Navigation Satellite System (GNSS). Furthermore, each crew is outfitted with Leica TS series robotic total stations, simplifying and expediting projects. BFM can also use in-house drones and 3D scanners to further analyze sites and projects. BFM's crews are trained to use this equipment to its full potential to maximize accuracy and efficiency in the field.

BFM offers **Drone Surveying Services**, featuring a DJI Matrice 600 Pro drone outfitted with a Sony A7R3 42-megapixel camera, Pixhawk Triggering System, VMAP PPK system, and an A3 Pro Flight Controller. It can capture 50 acres of land allowing BFM to quickly & accurately capture data and facilitates quicker field work to produce highly accurate and precise surveying information. Deliverables feature Clean Point Cloud, 3D Mesh, Orthomosaic, and AutoCAD DWG Topographic.

BFM's **3D modeling capabilities** allow us to process & model for any design purpose. High-definition scanner data is processed using software from Leica and Autodesk. BFM is working on non-traditional survey deliverables, including virtual tours, live walkthroughs, detailed pipe rack modeling, and modeling for use with Autodesk Revit Architecture.

When needed, BFM provides **bathymetric surveying** to handle **any hydrographic surveying tasks.** For large rivers and bodies of water, we are equipped with Teledyne Odom Hydro Solutions' Hydro Trac Single Beam Echo Sounder. For smaller bodies of water, BFM uses an SL20 Remote Controlled Boat equipped with CEE Scope Dual Channel Echo Sounder. We use Hypack Software to process collected data. Further, BFM can execute multi-beam scans, side scans and magnetometer surveys upon request.

CRITERIA 2 | **SIZE OF FIRM**

As noted, BFM has the manpower and equipment to execute any surveying task within the reasonable time set forth by the contract or project engineer. BFM has no issue with meeting the project deadlines set forth by our clients, both municipal and private. It is our continual goal to keep this reputation solid. Further, we establish base costs and fees for our services, and work with our clients to meet all project budgets.

As noted in **item E** of this form, BFM currently has a **full-time staff of two dozen people**, including **two Registered Professional Land Surveyors, Survey Field Crew Personnel**, and **AutoCAD drafting personnel**, as well as **complete administrative and support staff**.

TEC Professional Services Questionnaire

N. continued.

CRITERIA 3 | **CAPACITY FOR TIMELY COMPLETION**

BFM has the manpower and equipment to execute any surveying task within the reasonable time set forth by a contract or project engineer. It is our goal to keep this reputation solid. We establish base costs and fees for our services, and work with our clients to meet all project budgets. Our workload and scheduling, and proximity to the project site, will allow for quick assignment of personnel to any directed project.

BFM Corporation's **Ralph P. Fontcuberta, Jr., PLS,** Executive Vice President, is a **Louisiana-Registered Professional Land Surveyor (since 1974)** and meets or exceeds any minimum requirements for any surveying project. He has been **providing surveying services in Louisiana for over 50 years** and brings an almost incalculable wealth of experience in the region to any project, especially in Southeast Louisiana.

Chad M. Poché, P.E., Executive Vice President, brings **more than 25 years of experience** to assist in completing projects on time and within budget. He has been a consulting geotechnical engineer for more than 20 years in South Louisiana and has been the geotechnical engineer of record for thousands of projects.

Gary J. Lambert, Jr., PLS, Vice President is a **registered Professional Land Surveyor** and provides Project Management & Drafting Oversight and is the first point of contact for clients on technical matters. He meets with engineering, architectural, and government officials to discuss various project needs.

Our personnel included **multiple survey crews** and a **fully-staffed drafting department** to handle any project needs; they are thoroughly trained and extensively familiar with the region and needs of various types of surveying projects.

CRITERIA 4 | **PAST PERFORMANCE ON PARISH CONTRACTS**

BFM Corporation has provided **surveying services in Jefferson Parish since 1982,** both **directly to Parish agencies and as a consultant to firms serving the Parish.** The firm has executed many hundreds of projects in the Parish, including both direct Parish projects and State agency projects (CPRA, Louisiana DOTD, etc.), not to mention the scores of surveying projects for private individuals and industry.

As noted, Mr. Fontcuberta has **over half a century of professional land surveying experience,** including over 40 years with BFM. **He has provided professional surveying services for thousands of projects for and throughout Jefferson Parish.**

CRITERIA 5 | **LOCATION OF THE PRINCIPAL OFFICE**

BFM has called Jefferson Parish home office location since the firm's inception in 1982; our principal office is located in Jefferson Parish at 15 Veterans Memorial Boulevard in Kenner.

TEC Professional Services Questionnaire

N. continued.

CRITERIA 6 | **LEGAL STATEMENT**

BFM Corporation is **not involved in litigation with Jefferson Parish** nor with any of our clients, as is noted in Item M of this form.

CRITERIA 7 | **PRIOR SUCCESSFUL COMPLETION OF PROJECTS**

For over 40 years, BFM Corporation has completed thousands of projects throughout Jefferson Parish and Southeast Louisiana, both to municipal and various private clients, similar to the project at hand, not to mention other drainage projects in a wide range of sizes, from small lot to Parish-wide endeavors. **Multiple examples of this work are included throughout this form in both the Personnel Résumés section (Item K) and Representative Project Work (Item L).** Further, BFM has worked with virtually every municipality in the region. We enjoy a high repeat-business rate with all our clients. We offer the following specific references for contact:

Mark R. Drewes, P.E., Director, Jefferson Parish Public Works Department
(504-736-6783 | JPPW@jeffparish.net)

Neil Schneider, CCM, P.E., Director, Capital Projects, Jefferson Parish Public Works Dept.
(504-736-6783 | JPPW@jeffparish.net)

José A. Gonzales, CAO, City of Kenner
(504-468-4090 | jgonzalez@kenner.la.us)

Angela DeSoto, P.E., Director of Engineering, Jefferson Parish
(504-736-6511 | ADeSoto@jeffparish.net)

Sid Trouard, P.E., Program Manager, Jefferson Parish Sewerage Capital Improvement Program
(504-736-6386 | STrouard@jeffparish.net)

Khalid L. Saleh, PhD, Capital Program Administrator, New Orleans Dept. of Public Works
(504-658-8000 | khsaleh@nola.gov)

Ben Lapine, Acting Director, Department of Drainage, Jefferson Parish
(504-736-6661 | JPSewerage@jeffparish.net)

Greg Cromer, Mayor, City of Slidell
(985-646-4333 | gcromer@cityofslidell.org)

Our professional work history is exemplary. We strive to provide on-time and technically thorough project deliverables at the budget set by our clients.

O. To the best of my knowledge, the foregoing is an accurate statement of facts.

Signature: _____ **Print Name:** Chad M. Poché, P.E.

Title: Executive Vice President **Date:** June 6, 2024

Section 3

Gulf South Engineering & Testing, Inc.

TEC Professional Services Questionnaire

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Provision of Routine Engineering Services for

Water Projects in Jefferson Parish

SOQ **24-013** | Resolution No. **144203**

B. Firm Name & Address:

GULF SOUTH ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants

Gulf South Engineering and Testing, Inc.
15 Veterans Memorial Boulevard | Kenner LA 70062

C. Name, title, and contact information of Principal, as defined in Section 2-926 of the Jefferson Parish Code of Ordinances, who is a registered, licensed architect, professional engineer, or surveyor in the State of Louisiana:

Chad M. Poché, P.E., Executive Vice President
504-305-4401 | 504-460-5239 cell | cpoche@gulfsoutheng.com
Registered Professional Civil Engineer (Louisiana No. 27667; since 1998)

D. Name and contact information of employee who is a registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline:

Chad M. Poché, P.E., Executive Vice President
504-305-4401 | 504-460-5239 cell | cpoche@gulfsoutheng.com
Registered Professional Civil Engineer (Louisiana No. 27667; since 1998)

E. Please provide the number of employees whose primary function corresponds with each category:

7	Administrative		Estimators		Specification Writers
	Architects (Licensed)		Geologists		Structural Engineers
	Chemical Engineers	2	Geotechnical Engineers		Graduate Engineers
	Civil Engineers		Interior Designers	1	Project Managers
10	Construction Inspectors		Landscape Architects		Clerical (*see Administrative*)
	Ecologists		Land Surveyor (*Apprentice*)		Grant/Funding Specialist
	Electrical Engineers		Mechanical Engineers		Sanitary Engineers
	Engineer Intern		Environmental Engineers	1	*CMT Supervisor*
1	Professional Land Surveyors			1	*Construction Svcs Manager*
				4	*Laboratory Personnel*
				3	*Soil Boring Personnel*
				30	**TOTAL**

F. Is this submittal by a JOINT-VENTURE? Please check: YES _____ NO X

If marked "no", skip to Section I. If marked "yes", complete Sections G-H.

TEC Professional Services Questionnaire

G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.

1. N/A

2.

H. Has this JOINT-VENTURE previously worked together? Please check:

YES_____ **NO**_____ N/A

I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. N/A		
2.		
3.		

J. Please specify the total number of support personnel that may assist in the completion of the Project:

30 *(all personnel will be available for assignment to the project)*

TEC Professional Services Questionnaire

K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e., résumé) that demonstrates the employment history and experience of the Firm's key persons that may assist in the completion of this Project. Please attach additional pages if necessary.

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Chad M. Poché, P.E.
Executive Vice President / Registered Professional Geotechnical Engineer

Project Assignment:

Geotechnical Engineer / Principal In Charge

Name of Firm with which associated:

GULF SOUTH ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants

Years' experience with this Firm:

13 years (founded Gulf South in 2011);
31 years total (1993)

BFM Corporation, LLC | 2017 to present
Gulf South Engineering and Testing, Inc. | 2011 to present
Ardaman and Associates, Inc. | 2007 to 2011
Eustis Engineering | 1996 to 2001
Soil Testing Engineers, Inc. | 1993 to 1996

Education: Degree(s)/Year/Specialization:

M.S., 1998, Civil Engineering, University of New Orleans
B.S., 1993, Civil Engineering, Louisiana State University

Active Registration: Year first registered/discipline:

1998, Civil Engineer (Louisiana No. 27667)
2002, Civil Engineer (Mississippi No. 15405)

Other experience and qualifications relevant to the proposed Project:

Chad M. Poché, P.E., is Executive Vice President, co-founder, and a Principal in Gulf South. He has been a consulting geotechnical engineer for nearly 30 years in South Louisiana, working on traditional and unique geotechnical engineering projects (shallow and deep foundation design, slope stability, pavement design, etc.). Mr. Poché has also provided construction oversight for virtually every type of earthwork related project. He has been the geotechnical engineer of record for thousands of projects throughout his career.

Mr. Poché's experience includes the development of appropriate scopes of work and proposals for a broad range of projects; planning and coordinating analyses; preparing technical reports; foundation and geotechnical engineering design; construction recommendations; Miss. River facility permitting; managing personnel and office operations and serving as an Expert Witness.

TEC Professional Services Questionnaire

Other experience and qualifications: **Chad M. Poché, P.E. (continued)**

Mr. Poché has logged soil borings; overseen the installation of ground water monitoring wells, piezometers, and inclinometers; overseen and evaluated pile load tests; overseen, performed, and evaluated dynamic pile testing (PDA and PIT); performed CMT field testing and inspection; and performed laboratory testing.

Central Avenue Water Main Upgrade, Phase I (Central Ave. Between Airline Hwy. & Karen Ave.), Jefferson Parish, LA. Geotechnical investigation for the reconstruction of Central Avenue and the construction of a 12-in. dia. water main along Central Avenue. Scope included drilling four soil borings in the roadway to depths of 10 & 25 ft, lab testing (strength and classification), and geotechnical engineering analyses consisting of allowable soil bearing values, bedding & backfill recommendations, estimates of settlement, and construction recommendations. ($5,000 (fee); 2014)

Water Main Improvements (5 Sites), LaPlace, St. John the Baptist Parish, LA. Geotechnical engineering services for the construction of new water main pipeline (approximately 16,500 linear feet) between Cardinal Street and Woodland Drive in LaPlace, LA. Gulf South's scope includes drilling five undisturbed soil borings (1 per jack and bore site) each to a depth of 30 feet below the ground surface, laboratory testing, engineering analyses with recommendations for the temporary retaining system (TRS; a sheetpile wall for excavation), dewatering, sheet pile design parameters. ($15,500 (fee); 2023)

LaPlace Water Source Project: New Intake, Pump Stations & Pretreatment Facility, LaPlace, St. John the Baptist Parish, LA. Geotechnical engineering services for the construction of a new water source infrastructure project between the Mississippi River (MSR; east bank) and railway just north of 5th street in LaPlace, LA. Proposed structures will consist of water intake structure, pump stations, pipeline crossing levee, below grade pipelines, and a pretreatment plant. Gulf South's scope includes permitting, clearing, drilling ten undisturbed soil borings (3 at 80 ft, 3 at 30 ft, 3 at 100 ft, and 1 at 150 ft) below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. ($100,000 (fee); ongoing)

Membrane Water Treatment Plant Expansion, LaPlace, St. John the Baptist Parish, LA. Geotechnical engineering services for the expansion of the existing Membrane WTP project. Structures include the water intake structure, pump stations, pipeline crossing levee, below grade pipelines, and a pretreatment plant. Gulf South's scope includes permitting, clearing, drilling six undisturbed soil borings (60 ft.) below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. ($26,795 (fee); 2023)

Raw Water Intake (RWI) Structure Rehabilitation, Plaquemine, Iberville Parish, LA. Geotechnical engineering services for the construction of a replacement water pipeline and intake structure within the Intercostal Water Way near HWY 3066 (Bayou Road) in Iberville Parish. Scope includes drilling three undisturbed soil borings (depths of 60 ft. bgs), laboratory testing, engineering analyses and general construction procedures and recommendations. ($17,300 (fee); 2020)

Bayou Sauvage Water Control Pipe Replacement, U.S. Wildlife & Fisheries, New Orleans, LA. Geotechnical investigation for drainage pipe replacement at 2 sites for the U. S. Fish and Wildlife in New Orleans, LA. New drainage pipes will be 6 feet in diameter. Drill 1 boring to 20 feet in depth at each site and perform laboratory testing and geotechnical engineering analyses consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction recommendations. ($3,500 (fee); 2012)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Bryson S. Beard, P.E., ACI
Associate Geotechnical Engineer/Field Engineer

Project Assignment:

Associate Geotechnical Engineer/Field Engineer

Name of Firm with which associated:

GULF SOUTH ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants

Years' experience with this Firm:

2 years (joined Gulf South in 2022);
3 years total (2021)

Gulf South Engineering and Testing, Inc. | 2022 to present
TetraTech, Inc. | 2021 to 2022

Education: Degree(s)/Year/Specialization:

B.S., Geological Engineering (2021; University of Mississippi)

Active Registration: Year first registered/discipline:

Louisiana P.E. License Passed October 2023
Georgia, Engineering Intern (No. EIT029180, 2022)

Other experience and qualifications relevant to the proposed Project:

Bryson S. Beard, P.E., is an Associate Geotechnical Engineer/Field Engineer who serves as a Project Manager. He has performed geotechnical engineering analyses consisting of shallow and deep foundations, slope stability, TRS and sheetpile wall design, settlement, pavement design, etc., and has prepared engineering reports. Mr. Beard's experience in the field includes surface and subsurface soil sampling, water sampling, and soil classification. His work experience further includes core logging and oversight of groundwater monitoring well installations, piezometers, and inclinometers. He has been responsible for the preparation of reports and Facility Response Plans. He is experienced with laboratory sample preparation and testing as well as air sampling and soil gas sampling.

Mr. Bryson recently passed his Louisiana Professional Engineering test and will be a noted P.E. for the State of Louisiana once he fulfills the apprenticeship requirements set forth by LAPELS.

LaPlace Water Source Project: New Intake, Pump Stations & Pretreatment Facility, LaPlace, St. John the Baptist Parish, LA. Geotechnical engineering services for the construction of a new water source infrastructure project between the Mississippi River (MSR; east bank) and railway just north of 5th street in LaPlace, LA. Proposed structures will consist of water intake structure, pump stations, pipeline crossing levee, below grade pipelines, and a pretreatment plant. Gulf South's scope includes permitting, clearing, drilling ten undisturbed soil borings (3 at 80 ft, 3 at 30 ft, 3 at 100 ft, and 1 at 150 ft) below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. ($100,000 (fee); ongoing)

TEC Professional Services Questionnaire

Other experience and qualifications: **Bryson S. Beard, P.E., ACI (continued)**

Midway at Soniat Canal Pump Station Elevator Generator Platform (Silver Oak Lane), Harahan, Jefferson Parish, LA. Geotechnical engineering services for the construction of a new elevated generator platform at the Midway Soniat Canal pump station off Silver Oak Lane in Harahan, LA. Gulf South's scope of services includes drilling a single undisturbed soil boring to a depth of 100 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. ($7,500 (fee); 2022)

Membrane Water Treatment Plant Expansion, LaPlace, St. John the Baptist Parish, LA. Geotechnical engineering services for the expansion of the existing Membrane WTP project in LaPlace, LA. Structures include the water intake structure, pump stations, pipeline crossing levee, below grade pipelines, and a pretreatment plant. Gulf South's scope includes permitting, clearing, drilling six undisturbed soil borings (60 ft.) below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. ($26,795 (fee); 2023)

Water Main Improvements (5 Sites), LaPlace, St. John the Baptist Parish, LA. Geotechnical engineering services for the construction of new water main pipeline (approximately 16,500 linear feet) between Cardinal Street and Woodland Drive in LaPlace, LA. Gulf South's scope includes drilling five undisturbed soil borings (1 per jack and bore site) each to a depth of 30 feet below the ground surface, laboratory testing, engineering analyses with recommendations for the temporary retaining system (TRS; a sheetpile wall for excavation), dewatering, sheet pile design parameters. ($15,500 (fee); 2023)

Woodlake Drainage Pump Station - Geotechnical Exploration Report, Kenner, Jefferson Parish, LA. Prepared a Geotechnical Exploration Report for the project which consisted of a new drainage pump station located in Kenner, LA. Access to the canal was via Lake Pontchartrain. During the Field investigation, Gulf South drilled multiple undisturbed soil borings with one performed in the canal and the remaining on land. Geotechnical laboratory testing (ASTM standards) was performed. Following the collection of the field and laboratory data, evaluations necessary to characterize the subsoil conditions of the site were performed; findings, conclusions, and recommendations were presented in the final report. ($48,000 (fee); 2024)

Bucktown Harbor New Dock and Loading Area, Metairie, Jefferson Parish, LA. Geotechnical engineering services for construction of a new dock and bulkhead at Jefferson Parish's Bucktown Harbor in Metairie, LA. Gulf South's scope includes drilling one boring to a depth of 50 feet below the ground surface and one boring in Lake Pontchartrain to a depth of 50 feet below mudline, laboratory testing, engineering analyses (allowable pile load capacities, slope stability, sheetpile wall analyses), and general construction procedures and recommendations. ($10,500 (fee); 2022)

Roosevelt Boulevard Roadway Pavement Improvements (West Metairie Ave. to West Napoleon Ave.), City of Kenner, Jefferson Parish, LA. Geotechnical investigation for paved roadway improvements for Roosevelt Boulevard between West Metairie Avenue and West Napoleon Avenue in Kenner, LA. Gulf South's scope of services includes drilling 14 borings (depths of 10 feet below pavement surface), laboratory testing, engineering analyses (including pavement design) and general construction procedures and recommendations. ($14,000 (fee); 2022)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Joseph H. "Trey" Binder, III, ACI
Laboratory Manager

Project Assignment:

Laboratory Manager; Laboratory Technician

Name of Firm with which associated:

GULF SOUTH ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants

Years' experience with this Firm:

13 years (joined Gulf South in 2011);
13 years total (2011)

Gulf South Engineering and Testing, Inc. | 2011 to present
Ardaman and Associates, Inc. | 2007 to 2011
Soil Testing Engineers, Inc. | 2006 to 2007

Education: Degree(s)/Year/Specialization:

A.D., General Studies (2006; Nunez Community College)

Active Registration: Year first registered/discipline:

HAZMAT Awareness
HAZMAT Operations Training
ACI Aggregate Base Testing Technician
ACI Concrete Strength Testing Technician

Other experience and qualifications relevant to the proposed Project:

Trey Binder has direct experience with field and laboratory testing services. Mr. Binder's field work includes soil inspection and testing consisting of nuclear density testing and soil boring logging, vibration monitoring, pile inspection, concrete testing and inspection, asphalt testing and inspection, and pavement coring. In the laboratory, Mr. Binder has performed soil laboratory testing consisting of unconfined compression strength tests, triaxial strength tests, Atterberg limits, organic content tests, moisture and density tests, Proctor compaction tests, sieve analyses, and sample extrusion.

Central Avenue Water Main Upgrade, Phase I (Central Ave. Between Airline Hwy. & Karen Ave.), Jefferson Parish, LA. Geotechnical investigation for the reconstruction of Central Avenue and the construction of a 12-in. dia. water main along Central Avenue. Scope included drilling four soil borings in the roadway to depths of 10 & 25 ft, lab testing (strength & classification), and geotechnical engineering analyses consisting of allowable soil bearing values, bedding & backfill recommendations, estimates of settlement, and construction recommendations. ($5,000 (fee); 2014)

Raw Water Intake (RWI) Structure Rehabilitation, Plaquemine, Iberville Parish, LA. Geotechnical engineering services for the construction of a replacement water pipeline and intake structure within the Intercostal Water Way (IWW) near Highway 3066 (Bayou Road) in Iberville Parish, LA.

TEC Professional Services Questionnaire

Other experience and qualifications: **Joseph H. "Trey" Binder, III, ACI (continued)**

Gulf South's scope includes drilling three undisturbed soil borings (depths of 60 ft. bgs), laboratory testing, engineering analyses and general construction procedures and recommendations. ($17,300 (fee); 2020)

LaPlace Water Source Project: New Intake, Pump Stations & Pretreatment Facility, LaPlace, St. John the Baptist Parish, LA. Geotechnical engineering services for the construction of a new water source infrastructure project between the Mississippi River (MSR; east bank) and railway just north of 5th street in LaPlace, LA. Proposed structures will consist of water intake structure, pump stations, pipeline crossing levee, below grade pipelines, and a pretreatment plant. Gulf South's scope includes permitting, clearing, drilling ten undisturbed soil borings (3 at 80 ft, 3 at 30 ft, 3 at 100 ft, and 1 at 150 ft) below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. ($100,000 (fee); ongoing)

Bayou Sauvage Water Control Pipe Replacement, U.S. Wildlife & Fisheries, New Orleans, LA. Geotechnical investigation for drainage pipe replacement at 2 sites for the U. S. Fish and Wildlife in New Orleans, LA. New drainage pipes will be 6 feet in diameter. Drill 1 boring to 20 feet in depth at each site and perform laboratory testing and geotechnical engineering analyses consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction recommendations. ($3,500 (fee); 2012)

Water Well (Town Center Parkway & I-10 Crossings), City of Slidell, LA. Geotechnical investigation for construction of new water system improvements near Town Center Parkway in Slidell, LA. Gulf South's scope includes drilling undisturbed soil borings (three at 50 ft.; one at 15 ft.), laboratory testing, and engineering analyses including net soil bearing values, below grade and pipeline foundation recommendations, pile load capacities for compression, tension, lateral cases, estimates of settlement, passive lateral earth pressures, modulus of soil reaction, soil resistivity values, bedding and backfill recommendations, rigid and/or flexible pavement design recommendations, special local soil conditions, and general construction procedures and recommendations. ($9,900 (fee); 2018)

Airline Highway Backwater Protection Project, St. John the Baptist Parish, LA. Geotechnical engineering services for the construction of a new water source infrastructure project between the Mississippi River (MSR; east bank) and railway just north of 5th street in LaPlace, LA. Proposed structures will consist of water intake structure, pump stations, pipeline crossing levee, below grade pipelines, and a pretreatment plant. Gulf South's scope includes permitting, clearing, drilling ten undisturbed soil borings (3 at 80 ft, 3 at 30 ft, 3 at 100 ft, and 1 at 150 ft) below the ground surface, execution of laboratory testing, provision of engineering analyses (bearing values, bedding & backfills settlement, pile capacities, earth pressures, slope stability, cofferdam analyses, levee analyses) and establishing general construction procedures and recommendations. ($55,000 (fee); 2020)

Midway at Soniat Canal Pump Station Elevator Generator Platform (Silver Oak Lane), Harahan, Jefferson Parish, LA. Geotechnical engineering services for the construction of a new elevated generator platform at the Midway Soniat Canal pump station off Silver Oak Lane in Harahan, LA. Gulf South's scope of services includes drilling a single undisturbed soil boring to a depth of 100 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. ($7,500 (fee); 2022)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Eric A. Paille, C.E.T., ACI
Construction Services Manager

Project Assignment:

Construction Services Manager

Name of Firm with which associated:

GULF SOUTH ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants

Years' experience with this Firm:

13 years (joined Gulf South in 2011);
35 years total (1989)

Gulf South Engineering and Testing, Inc. | 2011 to present
Ardaman and Associates, Inc. | 2007 to 2011
Soil Testing Engineers, Inc. | 1988 to 2007

Education: Degree(s)/Year/Specialization:

High School Diploma

Active Registration: Year first registered/discipline:

ACI-I Field Technician (since 1991; No. 929012)
Certified Engineering Technician (since 1992)
Nuclear Gauge Safety Training (since1994; No. 061321)
Pile Driving Analyzer/CAPWAP, OSHA 40 HAZWOPER

Other experience and qualifications relevant to the proposed Project:

Eric A. Paille, C.E.T., ACI, serves as Gulf South's Construction Services Manager as well as the manager of our Gonzales office. He has experience as a technician, inspector, and testing manager, and is knowledgeable in all aspects of construction materials testing and construction inspection. Mr. Paille has performed all applicable field and soil tests over the past 30+ years. In addition, he is certified in the safe use and handling of the nuclear density gauge. He received PDA training in 2003 and has knowledge of PDA testing along with significant experience with pile driving analyzers. Mr. Paille is one of the most knowledgeable people in our industry.

Central Avenue Water Main Upgrade, Phase I (Central Ave. Between Airline Hwy. & Karen Ave.), Jefferson Parish, LA. Geotechnical investigation for the reconstruction of Central Avenue and the construction of a 12-in. dia. water main along Central Avenue. Scope included drilling four soil borings in the roadway to depths of 10 & 25 ft, lab testing (strength and classification), and geotechnical engineering analyses consisting of allowable soil bearing values, bedding & backfill recommendations, estimates of settlement, and construction recommendations. ($5,000 (fee); 2014)

Waggaman Subsurface Drainage Improvements, Waggaman, Jefferson Parish, LA. Project consisted of the construction of new below grade drainage features and piping for the Jefferson

TEC Professional Services Questionnaire

Other experience and qualifications: **Eric A. Paille, C.E.T., ACI (continued)**

Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Our scope of services included performing pile plant inspection, pile monitoring during installation, vibration monitoring, concrete testing and inspection, earthwork testing and inspection including soil sampling and field density tests, and steel inspection. ($7,000 (fee); 2016)

St. Peter's Ditch – Phase IV (Pump Station at Clearview), Metairie, Jefferson Parish, LA. Project consisted of the construction of a new pump station and below grade culverts and piping for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Scope included performing pile plant inspection, pile monitoring during installation, vibration monitoring, concrete testing and inspection, earthwork testing and inspection including soil sampling and field density tests, and steel inspection. ($110,000 (fee); 2016)

Clearview Parkway Drainage Project, Metairie, Jefferson Parish, LA. Project consisted of the construction of new drainage features for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Gulf South's scope of services included performing pile plant inspection, pile monitoring during installation, vibration monitoring, concrete testing and inspection, earthwork testing and inspection including soil sampling and field density tests, and steel inspection. ($30,000 (fee); 2016)

Geotechnical Exploration Proposal for the Lafreniere Park Healthtrack, Metairie, Jefferson Parish, LA. Gulf South was selected to provide a Geotechnical Exploration for the project site which consists of the reconstruction of the existing exercise walkway and the addition of approximately 1,000 feet of new walkway at Lafreniere Park in Metairie, LA. The existing walkway is approximately 2.5 miles long and will consist of the removal and reconstruction of the pavement and base using an asphalt paved section. The new section will consist of a concrete paved walkway. Gulf South's scope of work includes subsurface exploration, associated geotechnical laboratory testing, and engineering services based upon outlined project requirements. ($12,000 (fee); 2022)

Improvements to Sewer Lift Station No. 48-3, Metairie, Jefferson Parish, LA. Gulf South provided field and laboratory testing on a call-out basis during construction of the project (SCIP D55116) located at the intersection of Houma Boulevard and West Esplanade Avenue. Scope of services included vibration monitoring, concrete sample pick-up and inspection, pile monitoring, and laboratory testing. ($10,000 (fee); 2021)

N. Sibley Pump Station Improvements, Metairie, Jefferson Parish, LA. Gulf South provided construction materials testing for the project, located at the corner of N. Sibley Street and West Napoleon Avenue. Gulf South's scope of work includes soil density tests, concrete inspection and testing, pile driving, pile load tests monitoring, vibration monitoring, and earthwork testing. ($20,000 (fee); 2021)

Jefferson Parish Department of Public Works West Bank Central Warehouse, Bridge City, Jefferson Parish, LA. Project consisted of the construction of a new warehouse for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Gulf South's scope of services included performing a pile load test, pile plant inspection, pile monitoring during installation, vibration monitoring, concrete testing and inspection, earthwork testing and inspection including soil sampling and field density tests, steel inspection, and asphalt testing and inspection. ($90,000 (fee); 2017)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Ian Kerner Poché, ACI
Assistant Laboratory Supervisor

Project Assignment:

Assistant Laboratory Supervisor

Name of Firm with which associated:

GULF SOUTH ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants

Years' experience with this Firm:

7 years (joined Gulf South in 2017);
7 years total (2017)

Gulf South Engineering and Testing, Inc. | 2017 to present

Education: Degree(s)/Year/Specialization:

High School Diploma

Active Registration: Year first registered/discipline:

ACI Concrete Field Testing Technician - Grade 1 (exp 2028 03)
ACI Aggregate Testing Technician - Level 1 (exp 2029 02 27)

Other experience and qualifications relevant to the proposed Project:

Ian Poché has worked in Gulf South's laboratory for several years and has experience with virtually every type of soil test. He has also helped when needed in the CMT department and has concrete testing experience, and is an ACI-certified Concrete Field Testing Technician.

Woodlake Drainage Pump Station - Geotechnical Exploration Report, Kenner, Jefferson Parish, LA. Prepared a Geotechnical Exploration Report for the project which consisted of a new drainage pump station located in Kenner, LA. Access to the canal was via Lake Pontchartrain. During the Field investigation, Gulf South drilled multiple undisturbed soil borings with one performed in the canal and the remaining on land. Geotechnical laboratory testing (ASTM standards) was performed. Following the collection of the field and laboratory data, evaluations necessary to characterize the subsoil conditions of the site were performed; findings, conclusions, and recommendations were presented in the final report. ($48,000 (fee); 2024)

Lake Cataouatche Drainage Pump Station Replacement (Chighizola Lane), Grand Isle, Jefferson Parish, LA. Geotechnical engineering services for the construction of a replacement Lake Cataouatche drainage pump station at the end of Chighizola Lane in Grand Isle. Gulf South's scope includes drilling one undisturbed soil borings to a depth of 80 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. Pump station is close to a USACE floodwall so coordination and geotechnical engineering analyses were required to show the new pump station would not adversely affect the integrity of the floodwall. ($7,500 (fee); 2020)

TEC Professional Services Questionnaire

Other experience and qualifications: **Ian Kerner Poché, ACI (continued)**

Lift Station F-8-3 Replacement, Metairie, Jefferson Parish, LA. Geotechnical engineering services for the construction of a new lift station to replace the existing Jefferson Parish lift station (LS F-8-3) station off West Esplanade Avenue (between Houma Boulevard and Hudson Street) in Metairie, LA. Gulf South's scope includes drilling a single undisturbed soil boring to a depth of 100 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. ($8,500 (fee); 2020)

Improvements to Sewer Lift Station M-11-3 (13th & Farrington) and Force Main, Marrero, Jefferson Parish, LA. Gulf South provided the materials testing and inspection during construction. Gulf South's scope of services included vibration monitoring, bedding and backfill testing, compaction/density tests, and concrete testing and inspection. ($15,000 (fee); 2019)

Pump Station 45 Upgrades (Clark Street), East Baton Rouge Parish, LA. Geotechnical investigation regarding the construction of a new pump station and a new 5 MG tank (with the option to build a second tank) at the existing PS 45 site along Clark Street in Baton Rouge, LA. Scope of services included drilling 11 undisturbed soil borings to depths of 80 to 120 ft. below the ground surface. Geotechnical laboratory testing were performed to ASTM standards and include strength test (unconfined and/or triaxial), classification tests (Atterberg Limits and/or particle size), consolidation tests, and others as appropriate. Geotechnical engineering analyses included allowable soil bearing values, shaft/pile load capacities, estimates of settlements, sludge loading analyses, and general construction procedures and recommendations. ($68,000 (fee); 2023)

Dellwood Drainage Pump Station Improvement (Sun Valley Drive & Front Street), City of Slidell, LA. Geotechnical engineering services for construction improvements to the existing drainage pump station at the end of Sun Valley Drive and Front Street in Slidell, LA. Gulf South's scope of services includes drilling a single boring to a depth of 50 feet below the ground surface, laboratory testing, engineering analyses (bearing values, settlement, pile and shaft capacities) and general construction procedures and recommendations. ($4,000 (fee); 2022)

Lake Cataouatche Drainage Pump Station Replacement (Chighizola Lane), Grand Isle, Jefferson Parish, LA. Geotechnical engineering services for the construction of a replacement Lake Cataouatche drainage pump station at the end of Chighizola Lane in Grand Isle. Gulf South's scope includes drilling one undisturbed soil borings to a depth of 80 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. Pump station is close to a USACE floodwall so coordination and geotechnical engineering analyses were required to show the new pump station would not adversely affect the integrity of the floodwall. ($7,500 (fee); 2020)

Bayou Des Allemands Gate, Upper Barataria Risk Reduction Program Segment 3, St. Charles Parish, LA. Geotechnical investigation for construction of a new swinging barge gate structure within the UBRR flood protection/risk reduction system in St. Charles Parish, LA. Gulf South's scope includes drilling undisturbed soil borings (1 at 200 ft., 2 at 120 ft., 1 at 100 ft.), lab testing (including consolidation tests), and engineering analyses including site/soil characterization, global/local SSA for floodwalls, levee tie-ins, and floodgates, seepage analyses for sheetpile walls, settlement/downdrag analyses, unbalanced forces for structures, pile load capacities, pile foundation load-deflection relationship, estimates of settlement, ground improvement recommendations, and general construction procedures and recommendations. One boring was performed over water; the remaining borings were performed over land. ($145,885 (fee); 2021)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Brandon A. Paille, ACI
Construction Materials Testing (CMT) Supervisor/Project Manager

Project Assignment:

Construction Materials Testing (CMT) Supervisor/Project Manager

Name of Firm with which associated:

GULF SOUTH ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants

Years' experience with this Firm:

5 years (2012-2016; 2023 to present);
14 years total (2010)

Gulf South Engineering and Testing, Inc. | 2023 to present
Ascension Parish Sheriff's Office | 2016 to 2023
Gulf South Engineering and Testing, Inc. | 2012 to 2016
Ardaman and Associates, Inc. | 2010 to 2012

Education: Degree(s)/Year/Specialization:

High School Diploma

Active Registration: Year first registered/discipline:

APNGA Nuclear Gauge Safety
ACI Field Technician Level 1
OSHA Safety Training – 8 hr.

Other experience and qualifications relevant to the proposed Project:

Brandon A. Paille, ACI has performed soil laboratory testing consisting of unconfined compression strength tests, triaxial strength tests, hydrometers, Atterberg limits, organic contents, moisture contents, proctor compaction tests, sieve analyses, as well as extrusion of samples. Mr. Paille's field experience includes soil inspection and testing consisting of nuclear density testing, soil boring logging, concrete testing and inspections, timber and precast pile logging and vibration monitoring. In Mr. Paille's years in the construction materials testing industry, he has obtained a vast amount of knowledge and experience which makes him an integral part of our Gulf South Team.

Bayou Sauvage Water Control Pipe Replacement, U.S. Wildlife & Fisheries, New Orleans, LA. Geotechnical investigation for drainage pipe replacement at 2 sites for the U. S. Fish and Wildlife in New Orleans, LA. New drainage pipes will be 6 feet in diameter. Drill 1 boring to 20 feet in depth at each site and perform laboratory testing and geotechnical engineering analyses consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction recommendations. ($3,500 (fee); 2012)

New Dormitory - Marine Fisheries Facility, LA Department of Wildlife and Fisheries, Grand Isle, Jefferson Parish, LA. Geotechnical investigation for new dormitory at the LA Dept. of Wildlife and Fisheries' facility in Grand Isle, LA. Scope of work included drilling 2 soil borings to 10 and 50 feet in depth, performing laboratory testing, and providing geotechnical engineering analyses

TEC Professional Services Questionnaire

Other experience and qualifications: **Brandon A. Paille, ACI (continued)**

consisting of allowable pile load capacities, estimates of settlement, and rigid and aggregate paving design recommendations. ($3,500 (fee); 2013)

Taft Park Drainage Improvements, Jefferson Parish, LA. Perform inspection and testing during construction of various drainage improvements at Taft Park. Scope of services provided by Gulf South included asphalt and/or concrete testing and inspection, field density tests, on-site inspection and documentation, and laboratory testing. ($25,000 (fee); 2015)

Bonnabel Boat Launch Ramp Replacement, Jefferson Parish, LA. Geotechnical investigation for improvement/replacement of the existing boat ramps at the Bonnabel Boat Launch in Metairie, LA. The expansion consists of 3 (50'x60') pile supported concrete ramps. Scope of work included drilling two (2) soil borings to a depth of 60 feet each and providing laboratory testing, and geotechnical engineering analysis consisting of pile load capacities, estimates of settlement, and general construction recommendations. ($4,000 (fee), 2014)

Bucktown Paddlers Launch, Metairie, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes building earthwork, paving & concrete, concrete testing, soil density tests, pile inspection and modeling, and vibration monitoring. ($15,000; 2023)

Bucktown Birdsnest Learning Pavillion, Metairie, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes concrete testing, soil density tests, pile inspection and modeling, static pile load testing, and vibration monitoring. ($20,000 (fee); 2023)

Grand Gulf Nuclear Station, Port Gibson, Claiborne County, MS. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes concrete testing, soil density tests, earthwork inspection and testing. Safety requirements and badging to enter facility were extensive. ($50,000 (fee); 2023)

Baton Rouge Zoo Laboratory, Baton Rouge, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes concrete testing, soil density tests, and earthwork inspection and testing. ($500 (fee); 2023)

New North Terminal – Landside Project, Louis Armstrong New Orleans International Airport, LA. Gulf South performed field and laboratory testing during construction of the Cable Loop at the New North Terminal at the Louis Armstrong New Orleans International Airport in Kenner, Louisiana. Inspection consisted of earthwork and concrete testing. Gulf South provided QA oversight of the contractor for the owner for this $1.2 billion project which consists of the construction of a new terminal facility including a new 800,000 sf building, vehicle ramps, parking, etc. QA inspection consists of pile monitoring, concrete inspection and testing, earthwork testing and inspection, and steel inspection. ($200,000 (fee); 2019)

St. Amant High School AG Center Addition, Ascension Parish, LA. Gulf South provided field and laboratory testing during construction of the addition to the Ag Center building (located at 12035 LA Highway 431) at St. Amant High School in Ascension Parish, LA. Gulf South's scope of work includes concrete testing. ($600 (fee); 2021)

TEC Professional Services Questionnaire

L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this project. Please include and and all work performed for Jefferson Parish. Please attach additional pages if necessary.

PROJECT NO. 1		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
Central Avenue Water Main Upgrade, Phase I (Central Ave. Between Airline Hwy. & Karen Ave.), Jefferson Parish, Louisiana **Principal Engineering, Inc.** 1011 North Causeway Blvd, Suite 19 Mandeville LA 70471 **Andre Monnot, P.E.**, 985-624-5001 andre@principal-engineering.com	Geotechnical investigation for the reconstruction of Central Avenue and the construction of a 12-in. dia. water main along Central Avenue. Scope included drilling four soil borings in the roadway to depths of 10 & 25 ft, lab testing (strength and classification), and geotechnical engineering analyses consisting of allowable soil bearing values, bedding & backfill recommendations, estimates of settlement, and general construction recommendations.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
March 2014	N/A	$5,000 (fee)

PROJECT NO. 2		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
Water Main Improvements (5 Sites), LaPlace, St. John the Baptist Parish, Louisiana **Meyer Engineers, Ltd.** 4937 Hearst Street Metairie LA 70001 **Eric Colwart, P.E.**, 504-885-9892 colwart@meyer-e-l.com	Geotechnical engineering services for the construction of new water main pipeline (approximately 16,500 linear feet) between Cardinal Street and Woodland Drive in LaPlace, LA. Gulf South's scope includes drilling five undisturbed soil borings (1 per jack and bore site) each to a depth of 30 feet below the ground surface, laboratory testing, engineering analyses with recommendations for the temporary retaining system (TRS; a sheetpile wall for excavation), dewatering, sheet pile design parameters.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2024	N/A	$15,500 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
LaPlace Water Source Project: New Intake, Pump Stations & Pretreatment Facility, LaPlace, St. John the Baptist Parish, Louisiana **Barowka & Bonura LLC** 209 Canal Street Metairie LA 70005 **Jeff Bonura, P.E.,** 504-828-0030 jbonura@bbecllc.com	Geotechnical engineering services for the construction of a new water source infrastructure project between the Mississippi River (MSR; east bank) and railway just north of 5th street in LaPlace, LA. Proposed structures will consist of water intake structure, pump stations, pipeline crossing levee, below grade pipelines, and a pretreatment plant. Gulf South's scope includes permitting, clearing, drilling ten undisturbed soil borings (3 at 80 ft, 3 at 30 ft, 3 at 100 ft, and 1 at 150 ft) below the ground surface, laboratory testing, engineering analyses (bearing values, bedding & backfills settlement, pile capacities, earth pressures, slope stability, cofferdam analyses, levee analyses) and general construction procedures and recommendations.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2024	N/A	$100,000 (fee)

PROJECT NO. 4		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
Membrane Water Treatment Plant Expansion, LaPlace, St. John the Baptist Parish, Louisiana **CDMSmith, Inc.** 1515 Poydras Street Suite 1350 New Orleans LA 70112 **Clayton Driggs,** 225-698-1600 driggscj@cdmsmith.com	Geotechnical engineering services for the expansion of the existing Membrane WTP project in LaPlace, LA. Structures include the water intake structure, pump stations, pipeline crossing levee, below grade pipelines, and a pretreatment plant. Gulf South's scope includes permitting, clearing, drilling six undisturbed soil borings (60 ft.) below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2023	N/A	$26,795 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
Raw Water Intake (RWI) Structure Rehabilitation, Plaquemine, Iberville Parish, Louisiana **Pan American Engineers** 1717 Jackson Street Alexandria LA 71301 **Marcus J. Guillory, P.E.,** 318-473-2100 marcus@paealex.com	Geotechnical engineering services for the construction of a replacement water pipeline and intake structure within the Intercostal Water Way (IWW) near Highway 3066 (Bayou Road) in Iberville Parish, LA. Gulf South's scope includes drilling three undisturbed soil borings (depths of 60 ft. bgs), laboratory testing, engineering analyses and general construction procedures and recommendations.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
January 2020	N/A	$17,300 (fee)

PROJECT NO. 6		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
Water Well (Town Center Parkway & I-10 Crossings), City of Slidell, Louisiana **City of Slidell** **Department of Engineering** 250 Bouscaren St Ste 302 Slidell LA 70458 **Blaine Clancy, P.E.,** 985-646-6124 bclancy@cityofslidell.org	Geotechnical investigation for construction of new water system improvements near Town Center Parkway in Slidell, LA. Gulf South's scope includes drilling undisturbed soil borings (three at 50 ft.; one at 15 ft.), laboratory testing, and engineering analyses including net soil bearing values, below grade and pipeline foundation recommendations, pile load capacities for compression, tension, lateral cases, estimates of settlement, passive lateral earth pressures, modulus of soil reaction, soil resistivity values, bedding and backfill recommendations, rigid and/or flexible pavement design recommendations, special local soil conditions, and general construction procedures and recommendations.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
December 2018	N/A	$9,900 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
Bayou Sauvage Water Control Pipe Replacement, U.S. Wildlife & Fisheries, New Orleans, Louisiana **Johnson McAdams** 340 Poplar View Lane East, Suite 4 Collierville TN 38017 **Chip Johnson, P.E.,** 901-861-4200 chipjohnson@bellsouth.net	Geotechnical investigation for drainage pipe replacement at 2 sites for the U. S. Fish and Wildlife in New Orleans, LA. New drainage pipes will be 6 feet in diameter. Drill 1 boring to 20 feet in depth at each site and perform laboratory testing and geotechnical engineering analyses consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction recommendations.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
July 2012	N/A	$3,500 (fee)

PROJECT NO. 8		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
Midway at Soniat Canal Pump Station Elevator Generator Platform (Silver Oak Lane), Harahan, Jefferson Parish, Louisiana **Burk-Kleinpeter, Inc.** 4176 Canal Street New Orleans LA 70119 **Henry M. Picard, III, P.E.,** 504-486-5901 hpicard@bkiusa.com	Geotechnical engineering services for the construction of a new elevated generator platform at the Midway Soniat Canal pump station off Silver Oak Lane in Harahan, LA. Gulf South's scope of services includes drilling a single undisturbed soil boring to a depth of 100 feet below the ground surface, laboratory testing, engineering analyses (pile capacities & settlement) and general construction procedures and recommendations.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
December 2022	N/A	$7,500 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
Airline Highway Backwater Protection Project, St. John the Baptist Parish, Louisiana **Burk-Kleinpeter, Inc.** 4176 Canal Street New Orleans LA 70119 **David Boyd**, 504-486-5901 dboyd@bkiusa.com	Geotechnical engineering services for the construction of a new water source infrastructure project between the Mississippi River (MSR; east bank) and railway just north of 5th street in LaPlace, LA. Proposed structures will consist of water intake structure, pump stations, pipeline crossing levee, below grade pipelines, and a pretreatment plant. Gulf South's scope includes permitting, clearing, drilling ten undisturbed soil borings (3 at 80 ft, 3 at 30 ft, 3 at 100 ft, and 1 at 150 ft) below the ground surface, execution of laboratory testing, provision of engineering analyses (bearing values, bedding & backfills settlement, pile capacities, earth pressures, slope stability, cofferdam analyses, levee analyses) and establishing general construction procedures and recommendations.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
December 2020	N/A	$55,000 (fee)

PROJECT NO. 10		
Project Name, Location, and Owner's contact information:	**Nature of Firm's Responsibility:**	
Woodlake Drainage Pump Station - Geotechnical Exploration Report, Kenner, Jefferson Parish, Louisiana **MSMM Engineering, LLC** 7640 S. Carrollton Ave Ste 220 New Orleans LA 70119 **Scott G. Chehardy, P.E.,** 985-233-9763 schehardy@msmmeng.com	Prepared a Geotechnical Exploration Report for the project which consisted of a new drainage pump station located in Kenner, LA. Access to the canal was via Lake Pontchartrain. During the Field investigation, Gulf South drilled multiple undisturbed soil borings with one performed in the canal and the remaining on land. Geotechnical laboratory testing (ASTM standards) was performed. Following the collection of the field and laboratory data, evaluations necessary to characterize the subsoil conditions of the site were performed; findings, conclusions, and recommendations were presented in the final report.	
Completion Date (Actual or estimated:)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
March 2024	N/A	$48,000 (fee)

TEC Professional Services Questionnaire

M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.

	Parties:		Status/Result of Case:
	Plaintiff:	Defendant:	
1.	*Gulf South Enginering and Testing, Inc. is not currently, nor has it previously been involved, in litigation with Jefferson Parish.*		
2.			
3.			
4.			

N. Use this space to provide any additional information or description of resources supporting Firm's qualifications for the proposed project.

GULF SOUTH ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants

CRITERIA 1 | PROFESSIONAL TRAINING AND EXPERIENCE

Gulf South Engineering and Testing, Inc. (Gulf South) is a geotechnical engineering and construction materials testing and inspection company which began operations in 2011. Since that time, we have grown to two offices and nearly three dozen employees.

Gulf South provides a broad range of geotechnical related services, completing more than 100 geotechnical engineering projects and 300 construction materials testing and inspection projects each year. These projects typically include soil borings (shallow and deep borings), laboratory testing (AASHTO, ASTM methods, etc.), soil classification (USCS), geotechnical engineering, and construction material testing and field inspection.

Gulf South is a woman-owned, Hudson Initiative-certified small entrepreneurship in Louisiana. Our laboratory is AASHTO and CCRL certified and USACE validated.

Geotechnical Engineering Services

Gulf South's ownership and senior management have decades of combined experience in the profession and have completed thousands of projects. One of Gulf South's Principals, Chad M. Poché, P.E., a founding principal and Professional Engineer registered in Civil Engineering in Louisiana and Mississippi, has specific and extensive training & experience in geotechnical engineering. He has three decades of experience in planning, administering, and conducting geotechnical investigations.

TEC Professional Services Questionnaire

N. continued.

The firm has specific engineering experience and training in **Geotechnical Engineering, Foundation Design,** and **Geology & Geohydrology;** our staff has extensive experience in all aspects of soil mechanics and geotechnical engineering with specific knowledge in the following areas:

- Shallow and deep foundations (piles, shafts, augercast, screw/anchor piles)
- Deep excavations, cofferdams, retaining walls
- Levees and soft ground construction; slope stability & seepage
- Earthwork; settlement analyses
- Shoreline protection
- Scour analyses
- LRFD Design
- Mechanically Stabilized Earth (MSE) Walls
- Development of load test programs
- Geotechnical instrumentation and construction monitoring
- Canals and pump station foundations
- Pipe bedding and backfill
- Roadways, bridges, pavements

Field Investigation Services
Gulf South owns truck mounted (ARDCO C-1000) and track mounted (ARDCO SD 350) drilling rigs with associated and appurtenant support equipment (water trucks and buggy). Our equipment and crews are capable of drilling soil borings to depths of up to 300 feet and installing monitor wells, piezometers, and inclinometers. We can also perform CPT soundings, geoprobe borings, and field testing at any site. Our staff has extensive experience in planning, oversight, and direction of field investigations.

Laboratory Testing Services
Gulf South's laboratory is equipped to serve the specific needs of our clients and managed by trained and experienced personnel. All testing is performed in accordance with ASTM, AASHTO, and/or other approved procedures. Gulf South routinely performs soil and concrete strength testing (unconfined and triaxial), soil classification tests (Atterberg limits, moisture content, density, particle size), soil and aggregate sieves, organic content, pH, soil resistivity, and moisture/density relationships (Proctor tests). Gulf South's laboratories are managed by full time, experienced, managers and staff. Further, Gulf South's Kenner laboratory is AASHTO and CCRL certified and USACE validated.

Construction Materials Testing & Inspection
Gulf South provides a full range of construction materials testing & inspection services for structures, earthwork, foundations, pipelines, and pavements. The range of services provided includes:

- Fill and base compaction and density testing
- Vibration monitoring

TEC Professional Services Questionnaire

N. continued.

- Pre- and post-construction inspection
- Concrete testing and inspection
- Soil testing (field and laboratory)
- Asphalt testing
- Pile (driven & augercast) and shaft installation monitoring
- Load tests
- Earthwork/proof roll inspection
- Welding inspection
- Steel inspection
- Noise monitoring
- Prepare daily field reports and/or field books
- Maintain records per the client's directive

We have provided construction testing and oversight for projects as small as fill for a house pad to as large as the **$1.2 billion Louis Armstrong New Orleans International Airport North Terminal** project.

CRITERIA 2 | **SIZE OF FIRM**

At over 30 employees, Gulf South has the appropriate number of employees and personnel for this project. We will complete our scope of services on time and within budget. Further said, Gulf South can readily meet the time and budget constraints for projects assigned to this contract. Our current workload is such that we can expeditiously complete projects for this contract.

CRITERIA 3 | **CAPACITY FOR TIMELY COMPLETION**

Activity is dependent on the scope of work as well as site access and conditions, however; typically soil borings can be started within one week of receiving notice to proceed with a final product delivered within 3 to 4 weeks of completing the borings. Gulf South's workload & scheduling, coupled with our headquarters being nearby, will allow for assignment of key personnel shortly after any project is assigned.

CRITERIA 4 | **PAST PERFORMANCE ON PARISH CONTRACTS**

Gulf South has worked both directly and indirectly for various Jefferson Parish Departments (Public Works, Engineering Department, Drainage Department, Jefferson Parish School Board, etc.) throughout our history. Beyond the projects included within this form, additional project information (including listings, background, & client contacts) are available upon request. We have also completed similar services for Public and Private concerns throughout the region..

CRITERIA 5 | **LOCATION OF THE PRINCIPAL OFFICE**

Gulf South Engineering and Testing has been headquartered in Jefferson Parish since beginning operations in 2011; our principal office is located in Jefferson Parish at 15 Veterans Memorial Boulevard in Kenner. We also maintain an office in Gonzales, LA.

TEC Professional Services Questionnaire

N. continued.

CRITERIA 6 | LEGAL STATEMENT

As stated in Item M, Gulf South has had no litigation, past or present, with Jefferson Parish, nor any of our clients.

CRITERIA 7 | PRIOR SUCCESSFUL COMPLETION OF PROJECTS

The Principals and key employees of Gulf South have many years of applicable experience in working for and with Government Agencies and private industry. Founding principal and Executive Vice President of Gulf South, Chad M. Poché, P.E., has been a practicing registered geotechnical engineer in South Louisiana since 1998. He has specialized training and experience in geotechnical engineering throughout Louisiana.

As evidenced in the provided projects and personnel résumés, key personnel experience includes the completion of thousands of projects in the region throughout their careers for a broad range of clients, including both the government and private sectors. We can submit data in formats acceptable and customized to our clients' needs.

Gulf South invites you to contact any of our clients for a candid discussion of our service and professionalism, and offer these direct references:

Neil Schneider, CCM, P.E., Director, Capital Projects, Jefferson Parish
(504-736-6783 | JPPW@jeffparish.net)

Ben Lepine, Acting Director, Drainage Department, Jefferson Parish
(504-736-6751 | JPDrainage@jeffparish.net)

Angela DeSoto, P.E., Director, Engineering Department, Jefferson Parish
(504-736-6511 | ADeSoto@jeffparish.net)

Mark R. Drewes, P.E., Director, Public Works Department, Jefferson Parish
(504-736-6783 | JPPW@jeffparish.net)

Michael B. Cooper, Parish President, St. Tammany Parish
(985-898-2362 | president@stpgov.org)

Joey Tureau, Director of Transportation, Ascension Parish
(225-450-1013 | jtureau@apgov.us)

José A. Gonzales, CAO, City of Kenner
(504-468-4090 | jgonzalez@kenner.la.us)

O. To the best of my knowledge, the foregoing is an accurate statement of facts.

Signature: _____ **Print Name:** Chad M. Poché, P.E.

Title: Executive Vice President **Date:** June 14, 2024

Section 4

IMC Consulting Engineers, Inc.

TEC Professional Services Questionnaire

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Routine Engineering Services for Water Projects in Jefferson Parish. Resolution No. 144203

B. Firm Name & Address:

IMC Consulting Engineers, Inc.
2714 Independence Street
Metairie, LA 70006

C. Name, title and contact information of Principal, as defined in Section 2-926 of the Jefferson Parish Code of Ordinances, who is a registered, licensed architect, professional engineer, or surveyor in the State of Louisiana:

Paul S. Vlosich, P.E. and Director of Municipal Projects
504.831.9119
pvlosich@imcconsultingengineers.com
Licensed Proffesional Engineer, License No. 31006

D. Name and contact information of employee who is a registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline.

Paul S. Vlosich, P.E.
504.831.9119
pvlosich@imcconsultingengineers.com
Licensed Professional Engineer, License No.
31006

E. Please provide the number of employees whose primary function corresponds with each category:

2 Administrative	___ Estimators	*__ Specification Writers
___ Architects (Licensed)	___ Geologists	___ Structural Engineers
___ Chemical Engineers	___ Geotechnical Engineers	_5__ Graduate Engineers
___ Civil Engineers	___ Interior Designers	___ Project Managers
___ Construction Inspectors	___ Landscape Architects	___ Clerical
___ Ecologists	___ Land Surveyor	___ Grant/Funding Specialist
2 Electrical Engineers	**4** Mechanical Engineers	___ Sanitary Engineers
1 Engineer Intern	___ Environmental Engineers	
___ Professional Land Surveyors	**4** CAD Operators	**18 TOTAL**

**** All of our Engineers are Specification Writers***

F. Is this submittal by a JOINT-VENTURE? Please check: YES NO x

If marked "No" skip to Section I. If marked "yes" complete Sections G-H.

TEC Professional Services Questionnaire

G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.

1.

N/A

2.

H. Has this JOINT-VENTURE previously worked together? Please check: N/A

YES NO

I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1.		
2.		
3.		

J. Please specify the total number of support personnel that may assist in the completion of this Project:

__17__

TEC Professional Services Questionnaire

K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e. resume) that demonstrates the employment history and experience of the Firm's key persons that may assist in the completion of this Project. Please attach additional pages if necessary.

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Paul S. Vlosich, P.E.
Principal and Director of Municipal Projects

Project Assignment:

Electrical Engineer / Project Manager for MEP

Name of Firm with which associated:

IMC Consulting Engineers, Inc.

Years' experience with this Firm:

23

Education: Degree(s)/Year/Specialization:

Bachelor of Science / University of New Orleans / 1994 /Electrical Engineering

Active registration: Year first registered/discipline:

2004 / Louisiana #31006, Electrical Engineering

Other experience and qualifications relevant to the proposed Project:

Paul serves as IMC's Director of Municipal and Industrial Projects and oversees all aspects of IMC's municipal business sector including client relations, business development, resource management, contract negotiation, contract execution, production, and quality control.

Please see attached resume for additional experience and qualifications.

Other Experience and Qualifications Relevant to the Proposed Project (continued)

Port Sulphur Water Treatment Plant – Damage Assessment and Electrical Repairs
The plant pumps water from the Mississippi River, treats it, and provides 3-million gallons per day of potable water to Plaquemines Parish. Paul visited the site and prepared a comprehensive report identifying damage to the plant's electrical system post Hurricane Ida. The report also identified methods of quickly returning the plant to operation at 1/3 capacity until plant-wide repairs could be performed. Report also included an opinion of the electrical costs associated with implementing temporary and permanent repairs to the electrical system, along with recommendations to mitigate future damage from storms.

Paul provided the electrical design for replacement of the entire electrical distribution system at the Port Sulphur Water Treatment Plant. Electrical design scope included a complete replacement of the electrical service and elevation of electrical equipment to mitigate future flood damage.

USACE-Orleans Stormproofing Projects
Managed and acted as the Professional of Record for over $100 million of construction associated with 10 projects spanning 16 different drainage pumping stations, 2 Raw Water Intake Stations, and the main Power and Water Treatment Plant for the S&WBNO. Electrical designs included multiple standby power systems, including several in excess of 2 megawatts, medium voltage distribution, medium voltage motor starting and power factor correction, DC systems, grounding systems, communication systems, lighting systems, switchgear controls, remote switchgear operation, automated pump controls, instrumentation, and SCADA systems. As part of OSP-04, Paul specified, managed and oversaw the design of electrical system improvements for the OLD River and New River Raw Water Pumping Stations. Electrical design included flood mitigation (such as conduit sealants), power for mechanical equipment, and ventilation system controls.

Kenner Wastewater Treatment Plant No. 3 – Generator Banking
Designed and specified power and control systems associated with the construction of facilities and systems necessary for paralleling three existing and two new generator sets to establish a 3.4 mega-watt (able to be increased to 4 mega-watt) standby power plant for the entire Sewer Treatment Plant. Design features included paralleling switchgear and associated generator controls, retrofit of existing generators, transfer switches, and control equipment, integration with existing PLC controls, and fuel controls. IMC acted as the Prime Consultant for this project.

Jefferson Parish Dept. of Drainage - Elmwood Pumping Station Engine Replacement
Designed the electrical systems associated with the replacement of 8 diesel drive units, replacement of 8 remote radiators, and refurbishing 8 right angle gear boxes. Design included modifications to existing MCC equipment to accommodate larger radiators and additional pre-

lube pumps for right-angle gears. Existing feeders were utilized to feed new distribution load centers for each engine, which in turn supply power to ancillary loads such as battery chargers and engine heaters. Modifications to existing Murphy Controls were called for so that existing engine and PLC controls could interface factory-installed, skid-mounted engine controls, sensors, and safeties. Existing shaft speed sensors were maintained for existing SCADA systems to be able to continue to monitor engine speed remotely.

Jefferson Parish Dept. of Drainage – Parish Line Pumping Station Addition
Designed and specified power, lighting, instrumentation, control, and SCADA systems for an addition to the existing station. The addition consisted of a diesel-driven vertical pump and associated support systems, such as compressed air for engine starting, gear lubrication and cooling, and diesel fuel storage and transfer. The design included provisions for three additional diesel-driven vertical pumps in the future. Location of the station required designs associated with the relocation of the medium voltage electrical service to the station. Project design features of special note included medium voltage pad-mounted switchgear, PLC equipment for complete monitoring and control of the station locally or remotely from Duncan Pumping Station, an expansion of the video surveillance system, motorized trash screen cleaner controls, fuel controls, engine controls, and gear vibration monitoring.

Jefferson Parish Dept. of General Services - Yenni Building Conversion to EOC
Designed and specified electrical systems associated with the conversion of the 10-story office building to an Emergency Operations Center for Jefferson Parish. Electrical design consisted of full standby generator power for the building, which was accomplished via paralleled 1000 kW diesel generators sets mounted on an elevated exterior platform. Electrical design also included new paralleling switchgear, new electrical service and main distribution equipment, bus duct connecting existing and new distribution equipment, lighting, permanent equipment to facilitate the connection of a portable load bank or portable generator, and tie-in to existing fire alarm system. Generator housing was specified to withstand hurricane force winds. Space was provided on the platform and in the switchgear to incorporate a third, future generator for redundancy.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Eugene "Chip" F. Higbee, III, P.E. Principal

Project Assignment:

Quality Assurance / Mechanical Engineer

Name of Firm with which associated:

IMC Consulting Engineers, Inc.
2714 Independence Street
Metairie, LA 70006

Years' experience with this Firm:

24

Education: Degree(s)/Year/Specialization:

Bachelor of Science / 1990 (Louisiana State University) / Mechanical Engineering

Active registration: Year first registered/discipline:

1995 / Louisiana #26162, Mechanical Engineer

Other experience and qualifications relevant to the proposed Project:

Over the years, Chip has served in various capacities from facilities and maintenance engineer, building energy performance contractor, and consulting engineer. Chip has provided design services for a variety of pump station projects including new pump stations, renovations/additions to existing pump stations, safe houses, and ancillary buildings. He also provided pump station mechanical inspections in over 60 pump stations throughout South Louisiana. He has experience with HVAC, plumbing, fire protection, fuel systems, and pump engine and drive package replacements. He is an active member of ASHRAE and ACEC, and he has held a number of offices in the local ASHRAE chapter.

Please see attached resume for additional experience and qualifications.

Other Experience and Qualifications Relevant to the Proposed Project *(continued)*

Storm-proofing New Orleans Sewerage & Water Board Pumping Stations
Supervised all mechanical design of stormproofing measures under an Army Corps of Engineers IDIQ contract associated with all drainage pumping stations. Systems included design for all ventilation systems, installation of sump pumps, fuel oil storage/transfer pumping/piping and engine cooling water systems to support diesel engine pumping systems.

New Orleans Sewerage & Water Board Temporary Pumping Stations at 17th St. Canal, London Ave. Canal & Orleans Canal
Engineer of record for all mechanical systems for support of diesel engine pumping systems including fuel storage and transfer system, domestic water and sanitary systems.

Consolidated Car Rental & Utility Building – Louis Armstron International Airport
Mechanical engineer of record for 600,000 sq. ft. (three levels) parking garage associated with the Consolidated Rental Car facility. This garage is of poured in place construction with pre-cast exterior panels. Responsible for Mechanical design for Customer Buildings, Terminal Maintenance Area, Planning and Development building renovation and the New Utility Building.

HDRSS Levee Inspections
Chip/IMC provided periodic Inspections of (56) storm water pumping stations in the metro New Orleans area. IMC was responsible for inspecting the mechanical systems including all pumps, engines, motors, fuel systems, ventilation, compressed air systems, vacuum pumps, backflow prevention and any other mechanical systems within the pump stations. IMC was charged with observing all mechanical systems in operation and generating a report on their condition and required repairs or improvements. The project deliverables included a report on the system conditions and recommendations on addressing any noted deficiencies. The project spanned approximately one year and provided valuable insight into the advantages and disadvantages of the various pump station types.

Yenni Building – Replacement of Cooling Tower
Chip, under an ongoing open-ended professional services contract, has provided the mechanical design associated with replacement of the existing cooling tower on the Yenni Building.

Louisiana National Guard – Marrero Readiness Center
A 49,700 square foot facility and is currently under construction The contributing mechanical and plumbing system measures include complete DDC control, premium efficiency HVAC equipment, demand ventilation control, utility monitoring, non-ozone depleting refrigerants, demand control variable volume air and water systems, instantaneous domestic hot water heating system, and low consumption plumbing fixtures.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Richard E. Nichols, P.E. Principal and Electrical Department Head
Project Assignment:
Quality Assurance / Electrical Engineer
Name of Firm with which associated:
IMC Consulting Engineers, Inc. 2714 Independence Street Metairie, LA 70006
Years' experience with this Firm:
33
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 1989 (Louisiana State University) / Electrical Engineering
Active registration: Year first registered/discipline:
1994 / Louisiana #25896, Electrical Engineer
Other experience and qualifications relevant to the proposed Project:
Having joined IMC in 1993, Richard Nichols is one of IMC's most experienced electrical engineers. His expertise include design of lighting, power, and special systems, as well as project management. Richard has managed electrical design projects in commercial, municipal, and industrial markets, including, but not limited to, medical, hospitality, wastewater/ storm-water, and educational. He has also provided the design for power and control systems in specialized applications such as navigation lock and dam controls and sewerage drainage facilities. As principal and electrical department head his primary responsibilities include the design of commercial and institutional electrical systems, quality control, and business development. Please see attached resume for additional experience and qualifications.

Other Experience and Qualifications Relevant to the Proposed Project (continued)

Mini-System Improvements Sewerage System, Jefferson Parish
Electrical design of 30-40 sewerage lift and booster stations for Jefferson Parish. Types of stations included duplex and triplex, submersible, wet/dry well and above ground facilities.

Cousins Booster Pumping Station, Jefferson Parish
Electrical design of sewerage forced main triplex station (3-125 h.p.) and support systems including secondary selective service switching scheme. Required dual utility service with transfer facilities, motor controls, lighting, and miscellaneous power.

Marrero Wastewater Treatment Plant Administration Building, Jefferson Parish
This project involved a new 3,500 sq-ft building located at the Marrero Wastewater Treatment facility. The building has a 2,100 sq-ft saferoom room area that is back up by generator power. The electrical design included lighting, power, fire alarm and data communications. As mentioned above, a generator was included to power the saferoom area.

LADOTD - Renovation of Highway 190 Pumping Station, West Baton Rouge Parish
Electrical design for total renovation of this pumping facility including motors, controls, electrical service, lighting, and power distribution.

LADOTD - Renovation of the Mechanical & Electrical System Associated with the Houma Tunnel, Terrebonne Parish
Prepared construction documents to replace all pumping (10 drainage pumps/motors) and electrical gear including all controls, wiring, etc. within the facility. Responsible for all electrical design for total renovation of these pumping facilities (three stations) associated with the existing tunnel. System including service entrance switchgear, motors, controls, lighting, and power distribution.

New Orleans Sewer & Water Board – D.P. # 6 Add two 3750 KW Generators, Orleans Parish
Electrical design of the installation of new two new 3750 KW generators for this major S & W B Drainage Pumping Station. The design included tying the new generators into the existing electrical system at Pumping Station #6. It also includes providing a new control and monitor in the existing control station to monitor the status of the new generators. These generators provide emergency power to large vertical pumps that pump water from the 17th Street canal.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Louis R. Pastor, CIPE/CPD Plumbing Designer
Project Assignment:
Plumbing Designer
Name of Firm with which associated:
IMC Consulting Engineers, Inc. 2714 Independence Street Metairie, LA 70006
Years' experience with this Firm:
29
Education: Degree(s)/Year/Specialization:
Engineering Sciences / 1972 (University of New Orleans) / Plumbing Engineering
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
Louis Pastor has specialized in the design of fire protection, plumbing, medical gas, and fuel storage and distribution systems for more than 44 years. He oversees the majority of IMC's plumbing, fire protection, fuel systems, and medical gas design. Louis previously served as a member of the City of New Orleans' Board of Building Standards and Appeals for 20 years and acted as the Board's Fire Protection Specialist and Chairman. Please see attached resume for additional experience and qualifications.

Other Experience and Qualifications Relevant to the Proposed Project *(continued)*

Louis Armstrong New Orleans International Airport – Consolidated Car Rental Facility
The facility consisted of several rental Car Service Centers, a Customer Service Building and a Parking Garage. The plumbing design for the Car Service Centers, which maintain and service the rental cars, included compressed air, lube oil, grease, hydraulic fluid and water reels. The sanitary sewer system included oil/water separators to filter the waste before it reached the municipal sewer system. Plumbing was designed to serve the automated car wash stations. The plumbing for the Customer Service Building included public toilet rooms and a complete sprinkler system. The Parking Garage was provided with a storm drainage system and standpipes in the exit stairs. As part of the project, the existing Utility Building, which serves the airports domestic water and fire water needs, was abandoned and a new building including duplex domestic water booster pumps and three diesel driven fire pumps was built.

Orleans Parish Storm Proofing
After Hurricane Katrina, the United State Army Corps of Engineers (USACE) undertook a project to make as many of the New Orleans Drainage Pump Station as flood resistant as possible. As part of the mechanical design, we designed and specified the fuel storage and distribution systems, compressed air system cooling water systems associated with the large diesel driven standby generators that were installed at many of the pump stations. The design including installation of 30,000-gallon aboveground fuel tanks, 3,000-gallon day tanks and associated piping, pumps and controls for the diesel fuel oil supply to the generators. Also was included of diesel driven and electric driven compressed air systems associated with the diesel engine "air-start" systems. This included compressors, controls, air receivers and associated piping.

Jefferson Parish "Parish-Line" Pump Station
This project was an expansion to the existing pump station located at the Parish Line Canal. A single drainage pump was being added in a new building. The project was designed to allow for expansion to a total of four new pumps. The design included a new 12,000 gallon diesel fuel yard to augment the existing fuel storage on site, new domestic water service modifications, new domestic water booster pumps, new raw water pumps to serve the existing, new and future drainage pumps bearing systems (This system will act as back up to the domestic water system.), new compressed air system to start the diesel driven drainage pump, new fuel distribution to serve the new and future diesel engines, and new diesel engine exhaust system.

Jefferson Parish Dept. of General Services - Yenni Building Conversion to EOC
Designed and specified plumbing systems associated with the conversion of the 10-story office building to an Emergency Operations Center for Jefferson Parish. The plumbing design consisted of providing a fire rated fuel oil storage tank on the second-floor generator platform to supply fuel to the two standby generators that were installed to power the building. As part of the project, a water storage tank was designed and installed to serve the Emergency Operations Center (EOC) during times of an emergency if the Parish's domestic water feed to the building was rendered inoperable.

TEC Professional Services Questionnaire

L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.

PROJECT NO. 1

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Port Sulphur Water Treatment Plant - Damage Assessment and Electrical Repairs Plaquemines Parish, Water Works Troy Phillips (Inframark) 333 F. Edward Hebert Blvd. Building 203, Suite B111 Belle Chasse, LA 70037 (504) 934-5420	The plant pumps water from the Mississippi River, treats it, and provides 3-million gallons per day of potable water to Plaquemines Parish. IMC visited the site and prepared a comprehensive report identifying damage to the plant's electrical system post Hurricane Ida. The report also identified methods of quickly returning the plant to operation at 1/3 capacity until plant-wide repairs could be performed. Report also included an opinion of the electrical costs associated with implementing temporary and permanent repairs to the electrical system, along with recommendations to mitigate future damage from storms. IMC provided the electrical design for replacement of the entire electrical distribution system at the Port Sulphur Water Treatment Plant. Electrical design scope included a complete replacement of the electrical service and elevation of electrical equipment to mitigate future flood damage.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
N/A Assessment 2024	$98k - Assessment $1.2M - Construction Cost	

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Hero Pump Station - Standby Power Automation Harvey, LA Jefferson Parish Department of Drainage Ben Lepine 1221 Elmwood Blvd. Jefferson, LA 70123 (504) 736-6730 blepine@jeffparish.net	IMC designed modifications to existing medium voltage switchgear and medium voltage generator controls to allow for automatic transfer and paralleling of generators to the station when utility power is unavailable. Design included replacement of existing generator controls with PLC-based controls, the addition of synchronization logic and controls to the existing switchgear, and replacement of existing electromechanical protection relays with digital, programmable GE Multilin relays. IMC was the Prime Consultant for this project.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2022	$2M	$164k

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility**	
Veterans Boulevard Decorative Lighting (Bonnabel Canal to Orleans Parish line) Jefferson Parish Engineering Dept. 1221 Elmwood Park Blvd. Jefferson, LA 70121 Mark Drewes (504) 736-6500	IMC served as Prime on this project. Design included replacement of the existing metal halide fixtures and poles with new LED fixtures on new decorative poles from the Bonnabel Canal to the Orleans Parish line. Two new electrical service points were established to power the new lighting poles. All new lighting circuits were routed underground to handholes mounted next to each pole. The existing overhead exposed aerial cables were removed. The fixtures were energy efficient LED fixtures that provided better lighting at about 50% of the existing fixture wattage.	
Completion Date (Actual or estimated)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2016	$1.2M	$1M

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Jefferson Parish Dept. of Drainage – Elmwood Pumping Station Engine Replacement Jefferson Parish Dept. of Drainage Mitch Theriot 1221 Elmwood Boulevard Jefferson, LA 70123 (504) 736-6730	Total project scope consisted of replacement of 8 diesel drive units for drainage pumps, replacement of 8 remote radiators, and refurbishment of 8 right-angle gear boxes over the course of several phases at Elmwood Pump Station. Inclusive with the design were modifications to existing engine control equipment to communicate with factory-installed engine controls, modifications to existing Motor Control Centers to accommodate larger radiators, fuel system and coolant system piping modifications, and new exhaust systems. SCADA equipment was maintained so that engine parameters could continue to be remotely monitored. PLC systems were also maintained to continue to allow remote monitoring and control of pumps from the Safe House. IMC is also administered all MEP portions of construction.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
Phase I Complete 2013 Phase II Complete 2015 Phase III Complete 2017 Phase IV Complete 2019	$8M	$4M

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Parish Line Pumping Station Addition Jefferson Parish Jefferson Parish Department Of Drainage Mitch Theriot 1221 Elmwood Boulevard Jefferson, LA 70123 (504) 736-6730	The project consisted of a new station adjacent to the existing station for the purpose of housing a single, diesel-engine driven vertical pump. Project required that the designs include provisions for expanding the new station to include three future pumps, for a total of four pumps in the station addition. IMC designed all ancillary Mechanical, Electrical, and Plumbing, and Instrumentation Systems for the station and pumps, including fuel storage and transfer, engine cooling and exhaust piping, compressed air for engine starting and valve actuation, emergency raw water, pump bearing and gear oil cooler water piping, new electrical service with medium-voltage pad-mounted switchgear, video surveillance, SCADA, and PLC as required for local and remote pump, engine, trash screen, and valve controls.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2019	$8M	$2M

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Yenni Building - Additions to Support Emergency Operations Center Jefferson, Louisiana Jefferson Parish General Services Joseph S. Yenni Building 1221 Elmwood Park Blvd.Ste. 509 Jefferson, LA 70123	IMC performed the MEP design for the addition of emergency generation & emergency domestic water facilities to support the EOC operations at the Yenni Building. The electrical design consisted of full standby generator power for the building which was accomplished via two, 1000 KW generators. The electrical design also included new switchgear, electrical service, main distribution equipment and construction to the existing distribution equipment. The plumbing design included fuel tank design and fuel piping for the new generators, as well as a backup water storage and new fire pump. In addition a new 15,000 gallon, internally lined domestic water vertical storage tank with level probes and digital monitoring was specified to provide a backup potable water source to the building should city water pressure be lost.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2008	$2M	$1.8M

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
4 MW Generator Addition, N.O. Sewerage & Water Board, East Bank Sewerage Treatment Plant New Orleans, LA Veolia Water North America - South LLC 115 W Washington Street Suite 1450S Indianapolis IN 46204 Richard Leidy, P.E. (813)-957-6059 (Project Office in Tampa)	The project included the addition of a 13.8 KV, 4 MW, generator capable of operating the entire sewerage plant, new 13.8 KV service entrance switchgear, and a new building to house all equipment at an elevation 23 ft above grade. IMC's electrical design included all power distribution (13.8 KV, 480/277 volt and 208/120), lighting, fire alarm, SCADA and telecommunications for the addition and interfacing of existing systems.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2012	$7M	$3M

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
New 600 CFS Pumping Station New Orleans, LA New Orleans Sewerage & Waterboard 8800 S. Claiborne Ave. New Orleans, LA Joe Becker James Vincent (504) 865-0459	Design of MEP systems at a new 600 CFS pumping station adjacent to pumping station 5 in Orleans Parish. MEP design included medium and low voltage on-site standby generation for electrical systems, including for the two, 1500 HP, electrically driven pumps. Design also included ventilation systems, compressed air systems, exhaust systems, fuel storage/supply/return systems, coolant piping systems, fuel control systems, domestic water and sewer systems, lighting, control, communication, and power systems. Power system design included manual and automatic transfer schemes for normal and multiple standby sources, instrumentation, power factor correction, medium voltage reactor starting for the electric pump motors, and medium voltage switchgear with multi-function digital relay protection. Automatic pump control is accomplished via a pneumatic, differential pressure, "bubbler" type system.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2013	$15M	$3M

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
OSP-04A-Storm-Proofing at Old River and New River Raw Water Intake Stations, Orleans Parish New Orleans Sewerage & Water Board 625 Saint Joseph Street New Orleans, LA 70165 Joe Becker James Vincent 504-865-0450	Design of mechanical, plumbing, and electrical storm-proofing measures at the Old River and New River Raw Water Intake Stations. Plumbing design included interior pumping. Mechanical design included ventilation with storm resistant shutters and intake louvers. Electrical design included power for plumbing and mechanical equipment, conduit seals, and electrical relocations as necessary to facilitate structural modifications to the buildings. Control design included fan/ louver interlocks for the ventilation system.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2014	$10M	$100k

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Old Estelle Pumping Station Pump Replacement Jefferson Parish Dept. of Drainage 1221 Elmwood Boulevard Jefferson, LA 70121 Kazem Alikaani, P. E. (504) 736-6730	IMC provided the electrical design for the addition of 1 - 200 h.p. motor to drive a new drainage pump for this existing station in 1994 and also completed plans for the rebuilding/relocation for three (3) existing 200 h.p. pumps in 2013. Both projects involved retrofitting existing controls and motor control centers to new motor requirements. The latest project also included SCADA and tie-in to PLC equipment from remote pump operation from New Estelle Pumping Station.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
1994 - Pump #1 2013 - Pump #2,3,4	$2M $5M	$85k $500k

TEC Professional Services Questionnaire

M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.

Parties:		Status/Result of Case:
Plaintiff:	**Defendant:**	
1. IMC has no prior or on-going litigation with Jefferson Parish		
2.		
3.		
4.		

N. Use this space to provide any additional information or description of resources supporting Firm's qualifications for the proposed project.

IMC Consulting Engineers, Inc. has enjoyed the opportunity to provide professional services for projects within Jefferson Parish since being established in 1988. IMC has provided extensive electrical and mechanical work for Jefferson Parish working both as prime and sub-consultant, including mechanical and electrical designs for pumping stations and wastewater treatment plants within the Parish. Additionally, IMC has experience outside of the parish in the damage assessment of power systems at municipal water treatment plants.

IMC's design experience with water-related projects includes potable water storage and distribution systems (such as for the Yenni Building Additions to Support Emergency Operations), domestic and well-based water distribution systems for buildings and structures, and mechanical ahd electrical systems at raw water, wastewater, and drainage pump stations.

Please see additional pages.

O. To the best of my knowledge, the foregoing is an accurate statement of facts.

Signature: Paul S. Vlosich **Print Name:** PAUL S. VLOSICH

Title: Principal and Director of Municipal Projects **Date:** 6/17/2024

N. *(continued)* Use this space to provide any additional information or description of resources supporting firm's qualifications for the proposed project:

1. PROFESSIONAL TRAINING AND EXPERIENCE – SEWER / WASTEWATER

IMC Consulting Engineer's Electrical staff includes Principals, Richard Nichols, P.E. (30+ years of experience) and Paul Vlosich. P.E. (25+ years of experience). IMC also employs two Electrical Designers and one Electrical Intern:

- Daniel Walker (30+ years of experience)
- Garret Fried (7+ years of experience)
- Peter DiMarco (Electrical Engineering Intern)

IMC's Mechanical staff includes Principals Eugene "Chip" Higbee, P.E. (30+ years of experience) and Matthew Wender, P.E. (20 years of experience). IMC also employs two additional registered Professional Mechanical Engineers, and two Mechanical Designers:

- Joseph Garon, P.E. (7+ years of experience)
- Matthew Garon, P.E. (7+ years of experience)
- Russell Troncoso (5+ years of experience)
- Quynh Nguyen

On a part-time basis, Louis Pastor, CIPE/CPD (40+ years of experience) continues to provide IMC with design assistance on selected projects. Louis specializes in plumbing engineering and is certified in that area.

All of IMC Engineers and Designers provide field observation & inspection of projects under construction on a regular basis.

All of our Engineers and Designers are required to obtain a minimum of 15 hours of professional development training each year, eight of which must be associated with life safety training (NFPA 101, IBC, NFPA 72, NFPA 13, etc.), and at least one hour in professional ethics.

While we hope that our responses demonstrate IMC's experience in the design of electrical and mechanical systems for sewer lift stations and at wastewater plants, as well as our experience providing professional services to Jefferson Parish, we also want to highlight our experience communicating with the Parish's preferred Sewer Lift Station Control Panel vendor (Fluid Process and Pumps), and manufacturer (TESCO). We are also familiar with the required interfaces to SCADA and have a great relationship with the preferred SCADA vendor, Prime Controls.

2. CAPACITY FOR TIMELY COMPLETION OF NEWLY ASSIGNED WORK

IMC is presently utilizing AutoCAD & Revit drafting software and custom- designed templates specifically tailored to electrical and mechanical system drafting. The original template was designed in 1988 and continues to be upgraded by IMC CAD personnel. IMC utilizes MS Word processing software for specifications and general correspondence and utilizes Microsoft Excel electronic spreadsheet for efficient calculations and tabulation of data.

N. *(continued)* Use this space to provide any additional information or description of resources supporting firm's qualifications for the proposed project:

Based upon our experience with past contracts with Jefferson Parish, we project that this contract would constitute less than 5% of our revenue in a given fiscal year. As such, we believe that IMC's staff of 19 can support the design effort required for the awarded work. IMC has performed in a timely fashion on work such as this in the past, and we believe that our familiarity with the people, vendors, and type of work advertised in this SOQ will contribute to our efficiency in completing the work in a timely fashion. We hope that our past experience with Jefferson Parish has demonstrated that IMC has the capacity for timely completion of projects; we know of no instance where IMC was not able to deliver a project on time to Jefferson Parish.

3. LOCATION OF PRINCIPAL OFFICE

IMC's only office is located in Jefferson Parish at 2714 Independence St., and many of our employees reside in Jefferson Parish. IMC has been located in Metairie since 1993. All mechanical and electrical design work will be handled from this office by staff presently with IMC.

4. ADVERSARIAL LEGAL PROCEEDINGS WITH JEFFERSON PARISH

IMC is not involved nor ever has been involved in litigation with Jefferson Parish.

5. PRIOR SUCCESSFUL COMPLETION OF PROJECTS OF THE TYPE & NATURE OF SERVICES

IMC has successfully completed numerous projects for Jefferson Parish in the 30+ years that we have been in business. Specific to Jefferson Parish, IMC has completed projects as a Prime and as a Sub-consultant at several Jefferson Parish Sewer Lift Stations, Drainage Stations, and other Facilities, including the Yenni Building, First Parish Court, the East Bank Maintenance Building, the East Bank Library, the River Ridge Library, and the Westbank Government Complex. Specific to the projects of the type anticipated for this contract, IMC has successfully designed and administered the construction for the Elizabeth and Utica Sewer Lift Station and has completed designs for the Causeway and West Esplanade Sewer Lift Station.

6. SIZE OF FIRM

IMC is a 17-person firm specializing in Mechanical and Electrical design services. Our firm has relatively low overhead and prides itself on productivity. Our engineers and designers are involved in all aspects of the project from design to final observation, decreasing the total impact that a single project has to company resources, and allowing our engineers to take ownership of the projects they have designed.

7. PAST PERFORMANCE BY FIRM ON PARISH CONTRACTS

IMC has provided engineering services for many Jefferson Parish projects. All projects have been successfully completed, and we encourage review of our performance with other Jefferson Parish personnel, including Mr. Ryan Babcock (Director of General Services), and Mr. Mark Drewes (Director of Public Works).

We have enjoyed our relationship with Jefferson Parish over the past 30+ years and sincerely believe that we have earned a good reputation with the Parish for delivering quality designs. We hope to continue to have the opportunity to work with Jefferson Parish in the upcoming years.

IMC is a small business as identified by U.S. Federal Standards.

ECM Consultants, Inc.
1301 Clearview Parkway, Suite 200, Metairie, Louisiana 70001