

Jefferson Parish Professional Services Questionnaire

Resolution No. 144443

SOQ NO. 24-029

Independence Park Drainage Pump Station

August 29, 2024





August 29, 2024

Jefferson Parish Purchasing Department
General Government Building
200 Derbigny Street, Suite 4400
Gretna, LA 70053

Subject: Independence Park Drainage Pump Station | SOQ 24-029 | Reference No.
144443

Dear Jefferson Parish Purchasing Department,

It is our extreme pleasure to respond to the subject solicitation. Accordingly, enclosed herewith please find our complete SOQ for your consideration.

MSMM Engineering, LLC (MSMM) is one of the most trusted Small Business Full-Service A-E firms in the South for the design and implementation of civil engineering projects. We have delivered hundreds of exceptional projects to local clients in such specializations as water and wastewater, drainage, utilities, roadways and bridges, levees, coastal restoration, and much more. The talents and capabilities required to execute the subject solicitation have been assembled through the partnership of MSMM as the Prime Contractor and Subcontractors IMC Consulting Engineers Inc, Gulf South Engineering and Testing Inc, and BFM Corporation LLC.

Our team, "Team MSMM," offers a cadre of professionals with extensive experience providing drainage infrastructure services for Jefferson Parish. MSMM alone has completed over 200 projects for Jefferson Parish, meaning that we are thoroughly familiar with the unique needs of the Parish. Among these 200+ projects are multiple drainage pump stations, including the recent Woodlake Pump Station and Clearview Pump Station. Our long-lasting relationship with Jefferson Parish is the result of our dedication to delivering past and future projects safely, on time, within budget, and at the highest level of quality. Each of our team members stands prepared to continue this support of Jefferson Parish throughout the life cycle of the Independence Parish Drainage Pump Station Project.

Thank you

Sincerely,

A handwritten signature in blue ink, appearing to read "Manish Mardia", is written over a white background.

Manish Mardia, P.E.
Chairman
Elevated Innovations, LLC

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TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

**SOQ 24-029 Independence Park Drainage Pump Station
Resolution # 144443**

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


MSMM
ENGINEERING, LLC
 4508 Clearview Parkway, Suite C
 Metairie, Louisiana 70006

C. Name, title & 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:

Manish Mardia, P.E., President
mmardia@msmmeng.com
 (504) 559-1897

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.

Manish Mardia, P.E., President
mmardia@msmmeng.com
 (504) 559-1897

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

<u>4</u> Administrative	<u>1</u> Estimators	<u>1</u> Specification Writers
<u>1</u> Architects (Licensed)	<u> </u> Geologists	<u>2</u> Structural Engineers
<u> </u> Chemical Engineers	<u> </u> Geotechnical Engineers	<u> </u> Graduate Engineers
<u>7</u> Civil Engineers	<u> </u> Interior Designers	<u>6</u> Project Managers
<u>3</u> Construction Inspectors	<u>1</u> Landscape Architects	<u> </u> Clerical
<u> </u> Ecologists	<u> </u> Land Surveyor	<u> </u> Grant/Funding Specialist
<u>1</u> Electrical Engineers	<u>1</u> Mechanical Engineers	<u> </u> Sanitary Engineers
<u> </u> Engineer Intern	<u>2</u> Environmental Engineers	<u>1</u> Administrative/Accounting
<u> </u> Professional Land Surveyors	<u>3</u> CAD Draftsman	<u>34</u> TOTAL
<u> </u> Environmental Scientist	<u> </u> Transportation Engineer	

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 area of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.

1. Not Applicable

2.

**H. Has this JOINT-VENTURE previously worked together? Please check:
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. IMC Consulting Engineers, Inc.	Mechanical/Eletrical Engineering	Yes
2. Gulf South Engineering and Testing, Inc. 15 Veterans Memorial Boulevard Kenner LA 70062	Geotechnical Engineering	Yes
3. BFM Corporation, LLC 15 Veterans Memorial Boulevard Kenner LA 70062	Surveying	Yes

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

_____ 35 _____

TEC Professional Services Questionnaire

PROFESSIONAL IN CHARGE OF PROJECT:	
Name & Title:	Manish Mardia, P.E. President
Project Assignment:	Project Manager
Name of Firm with which associated:	MSMM ENGINEERING, LLC
Years' experience with this Firm:	13 (2011)
Education: Degree(s)/Year/Specialization:	M.S. in Civil Engineering, 1994, Louisiana State University B.S. in Civil Engineering, 1990, University of Jodhpur
Active registration: Year first registered/discipline:	Year First Registered: 1999 Discipline: <u>Environmental</u> State: <u>Louisiana</u> License No.: <u>28482</u> <i>Also registered in Mississippi (18522)</i>
Other experiences and qualifications relevant to the proposed Project:	<p>Manish Mardia is a registered professional civil and environmental engineer and is the President of MSMM Engineering, LLC. He is an experienced engineering manager and principal with over thirty years of experience in managing and designing public works projects. His experience includes environmental assessments, NEPA documentation, planning, design, and construction management for water, wastewater, and solid waste systems for industry and government, design, construction and management of industrial and municipal wastewater treatment facilities, landfill gas collection and control systems, study and management of infiltration and inflow of stormwater into public wastewater collection systems.</p> <p>Mr. Mardia has worked <i>on more than 200 projects for various departments of Jefferson Parish</i>. These projects were successfully completed on time and schedule. Project types include water line replacement design, Environmental Permitting; Hydraulic Modeling; Infiltration and Inflow; Water Treatment and Collection; Wastewater Collection, Distribution, and Treatment; Street and Roadways design; and Landfill Design and Permitting.</p> <p>For a representation of projects completed by Mr. Mardia, please see below:</p> <p><u>Jefferson Parish, East Bank Drainage Master Plan</u> MSMM is performing electrical and instrumentation services for this Jefferson Parish East Bank Drainage Master Plan. The scope of work for these services includes updating existing conditions and analysis of high water conditions. MSMM is furnishing drawings, specifications, and schedules for the project.</p>

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Manish Mardia, P.E.

President

To update the existing conditions, MSMM is conducting data assembly and field reconnaissance. This involves reviewing GIS and record drawings, leveling loop to correlate datums, and verification of horizontal coordinate and invert. For the model update, MSMM is identifying and documenting all existing nodes and pipes, as well as documenting updated pipes and node coordinates. Work will then include comparing results to storm results, adjusting model parameters, and re-running the model. For the LiDAR update, MSMM is developing a survey scope, coordinating with the surveyor, comparing data, and making recommendations to the Parish.

For High Water Elevation Analysis, MSMM is first establishing the definition of high water and identifying canal segments of high water. Work will then involve reviewing impacts and developing ranking criteria, which will include comparing canal WSE to adjacent area LiDAR data (25 sites evaluated) and developing ranking criteria with Jefferson Parish.

Role: Mr. Mardia provided QA/QC services for the project as well as interfaced with the client.

Woodlake Drainage Pump Station with Green Infrastructure Design, Kenner, LA

The existing drainage system at Woodland Estates and Seton Park consisted of an enclosed gravity storm sewer system that outlet at various locations in the canals. This drainage system was creating a backflow water condition, causing repeated flooding in the area. MSMM completed a drainage evaluation report that evaluated options for removing backflow conditions in the area.

MSMM is currently in the process of designing a 120 CFS pump station located in Seton Park as well as a below ground retention feature within Seton Park to capture peak flows. The retention area within the park will consist of a below ground HDPE piping network covering a roughly 75x300 ft. area fed by an overflow junction box. The pump station will be fed from a 60” drain pipe on St. Elizabeth Drive. The two 60” diameter pipes crossing Platt Street and Joe Yenni Blvd to discharge into Canal 7 and 17 will be interconnected to feed the intake of the pump station. Both 60” pipes will be fitted with flapper type gates so that low flows or flows exceeding the pump station capacity could bypass into the canal. The pump station will utilize three pumps and a single 48” force main to discharge the storm water over the West Return Wall. The force main will be approximately 1,200 linear feet and discharge the storm water over the West Return Canal Levee Wall and into the West Return Canal (part of the Lake Pontchartrain drainage system).

Role: Mr. Mardia is providing QA/QC during the internal and USACE review process.

New Orleans International Airport (MSY) Drainage Pump Station, Kenner, LA

MSMM completed design and EDC services for a 600 cfs stormwater drainage pump station and for all landside drainage as part of constructing a new airport terminal. The project involved working under an extremely compressed schedule, while successfully delivering a true multi-disciplinary effort spanning civil, structural, electrical, mechanical, and environmental engineering, hydraulic modeling, architectural services, cost estimating, environmental permitting, drafting, and agency coordination.

Role: Mr. Mardia oversaw the delivery of the project and provided QA/QC during the internal review process.

TEC Professional Services Questionnaire

KEY PERSON:

Name & Title:

Scott Chehardy, P.E.

Project Assignment:

Civil Engineer

Name of Firm with which associated:

MSMM
ENGINEERING, LLC

Years' experience with this Firm:

9 (2015)

Education: Degree(s)/Year/Specialization:

B.S. in Civil Engineering, 1994, University of Southwestern LA

Active registration: Year first registered/discipline:

Year First Registered: 1998

Discipline: Civil State: Louisiana License No.: 28532

Also registered in Indiana (11700829)

Other experiences and qualifications relevant to the proposed Project:

Mr. Chehardy has nearly three decades of civil design and hydraulic evaluation experience in Louisiana's coastal Parishes. He has successfully designed levees and floodwalls, pump stations and force mains, and canals and box culverts. His design and assessment experience spans levee and floodwall, roadway, water, sewer and drainage infrastructure elements. He has been an integral part of the study and design of the new 600 cfs drainage pump station in New Orleans International Airport, drainage study of Canal No. 17, Canal No. 7, and Parish Line Pump Station in Jefferson Parish, East Bank Subsurface Drainage Improvement Program in Jefferson Parish, Sewerage & Water Board of New Orleans' SELA Urban Flood Control Projects (Claiborne Avenue Manifold Canal and South Claiborne Avenue Canal II), Hurricane Katrina Related Water Restoration Projects for S&WBNO, etc. Mr. Chehardy's levee design work included West Bank & Vicinity, Lake Cataouatche Pumping Station to Segnette State Park, Phase 2, First Lift. of a 20,250 linear foot segment of the hurricane protection system (\$41.3 M), West Bank & Vicinity, Algiers Canal Levee West, Algiers Lock to Hwy. 23, Orleans & Plaquemines Parish (EAR \$230M to \$425M), and West Bank & Vicinity, Phase 2 Hurricane Protection, Algiers Canal (East), Hero Levee to Highway 23, WBV-49.2, Plaquemines Parish, LA (EAR \$474M to \$558M). Mr. Chehardy's responsibilities have included project management, design, permitting, and quality control.

Cow Bayou Drainage Pump Station Complex, Orange, TX

Project features being designed by MSMM include dolphin structures, a pump station safe house, a fuel farm, and access roads. MSMM designed the project in MicroStation 3D and Civil 3D, also utilizing Revit BIM 3D modeling and CIM modeling for the facilities. MSMM engineers also designed permanent project structures associated with the pump station, including the horizontal and vertical pump intake and discharge structures, engine and pump support slabs, fuel tank foundation/containment, water tank foundation, west access bridge,

KEY PERSON:

Name & Title:

Scott Chehardy, P.E.

and exterior semi-gantry and overhead bridge crane supports. The pump station and two-story safe house were designed utilizing STAAD software. MSMM’s civil engineers provided the wastewater treatment facility design, layout of the entry roadways and parking lots, and the site grading and utility layout in compliance with UFC-201-01. Project Management included preparing a detailed communication plan which outlined procedures for coordination of activities and addressed scheduling, communication distribution structure, information collection and filing procedures, and a flow chart of personnel and project progression.

Role: Mr. Chehardy managed the Civil, Structural, and Architectural aspects of the project, while USACE led the Electrical and Mechanical aspects. He developed the civil/site work design, developed the utility documentation, prepared the detailed plans and specifications, and coordinated the development of the DDR.

Clearview Drainage Pump Station, St. Peter’s Ditch Improvements, Jefferson Parish, LA

MSMM Engineering staff completed design services for a 220 cfs drainage pump station located within the DOTD Right-of-Way of the Clearview Parkway/Earhart Expressway interchange. The project required multiple disciplines including civil, structural, electrical, and mechanical engineering as well as cost estimating and drafting (CAD). The pump station structure contained three 75 cfs vertical lift pumps with 250 HP motors and several hundred feet of 36” discharge piping.

Role: Civil Design, Engineer of Record. Mr. Chehardy was also involved in reviewing and approving RFI’s for the project.

Sabine Pass to Galveston Bay, Orange County Coastal Storm Management – Early Contractor Involvement Developmental Design, Orange County, TX

As part of the Stantec-Jacobs JV team, MSMM was tasked with designing various site civil features for the Cow Bayou Drainage Pump Station including ten (10) 15’ wide by 22’ vertical lift gates, access road, access ramps, elevated fuel farm structure, transition T-walls and other site development features. Additionally, the scope included design of 1,700 and 800 CFS drainage pump stations and all associated features. The current task order is for a 15% level design of the aforementioned features and design development report (DDR).

Role: Mr. Chehardy serves as the project manager for MSMM on this project coordinating with the JV and overseeing the design of the various engineering disciplines for this project.

TEC Professional Services Questionnaire

KEY PERSON:

Name & Title:

Jim Wilson, P.E., LEED® AP
Vice-President

Project Assignment:

Civil Engineer/Engineering Manager

Name of Firm with which associated:

MSMM
ENGINEERING, LLC

Years' experience with this Firm:

10 (2014)

Education: Degree(s)/Year/Specialization:

B.S. in Civil Engineering, 1988, Michigan Technological University

Active registration: Year first registered/discipline:

Year First Registered: 1993
Discipline: Civil State: Louisiana License No.: 35456
Also registered in Michigan (38800), Texas (128376), and Florida (85114)

Other experiences and qualifications relevant to the proposed Project:

Mr. Wilson is a senior civil/drainage engineer with over 25 years of experience in the public sector, successfully designing and managing drainage, sewerage, roadway, waterlines, and site development projects in multiple jurisdictions of Louisiana and Michigan. Mr. Wilson is the civil engineering manager at MSMM, where he is responsible for the direct design and oversight of civil design, under such specialties as drainage, pump station design, water line design and water meter replacement design across South Louisiana.

New Orleans International Airport (MSY) Drainage Pump Station, Kenner, LA

MSMM completed design and EDC services for a 600 cfs stormwater drainage pump station and for all landside drainage as part of constructing a new airport terminal. The project involved working under an extremely compressed schedule while successfully delivering a truly multi-disciplinary effort spanning civil, structural, electrical, mechanical, and environmental engineering, hydraulic modeling, architectural services, cost estimating, environmental permitting, drafting, and agency coordination.

Role: Mr. Wilson was the lead civil engineer and designer of record for the project. He designed all the civil site work, provided engineering support during the advertisement (EDA) and construction (EDC), and provided periodic inspection reports of the construction progress.

Aubry Street CDBG 10-Year Storm Drainage Improvement Roadway Construction, New Orleans, LA.

For this full reconstruction project, MSMM performed civil design engineering services for the roadway, sidewalks, driveway aprons, and sewer. MSMM was also tasked with developing the H&H model (using HYDRWIN) to calculate drainage characteristics within the project area. This information was compared with the capacity of existing drainage infrastructure to develop recommendations for upgrades to the drainage in the neighborhood. MSMM also performed utility research to identify conflicts and found that a 50-inch water line

KEY PERSON:

Name & Title:

Jim Wilson, P.E., LEED® AP
Vice-President

crossed the project area with below-average cover (3 ft.). The waterline relocation was approved for the project scope and approved in a new location through a mapping and drafting effort. MSMM completed the plans and specifications, provided bidding phase services and construction management services, and performed the Resident Inspection for the project.

Role: Mr. Wilson was the designer of record for the project.

River Road Aquatic Ecosystem Restoration, San Antonio, TX

MSMM was contracted by USACE/San Antonio River Authority to provide 100% Design-Bid-Build for this large-scale project, which focuses on recreational usability and ecosystem restoration. MSMM’s responsibilities include H&H analysis, stream restoration, landscape architecture, civil and structural design, cost estimating, and value engineering.

Role: Mr. Wilson is the project manager on this project.

Statewide Flood Control Program Grant Drainage Improvements Kenner, LA

LDOTD’s Statewide Flood Control Program grant funding was utilized to undertake stormwater drainage system improvements to two neighborhoods (University City and Audubon Place Subdivisions) in the city. The estimated project cost was \$4.57 million, with a grant amount of \$2.7 million. The project was conducted from beginning to conclusion, which included preparing the grant pre-application package, coordinating with the City and LDOTD staff, conducting hydraulic and hydrologic analyses (HYDRWIN and SWMM), communicating with LDOTD experts on the project’s feasibility and technical merit, conducting multiple site visits with LDOTD experts and project staff to clarify project features and existing drainage infrastructure, and facilitating continuous communication with the City’s elected representatives about the status of grant process.

In the course of this project, an excellent working relationship was forged with LDOTD’s SWFCP staff and experts. Significant coordination was required with LDOTD staff due to the unique drainage conditions in the New Orleans area and due to the SWMM models of the city’s previous drainage master plan work required to be re-analyzed with LDOTD’s HYDRWIN software. The project involved (i) the installation of new subsurface drainage pipes and inlets along three city streets and (ii) the upgrading of existing drainage features with larger subsurface pipes, inlets, and outfall pipes along three other city streets. The subsurface pipes ranged in size from small 18-inch diameter circular pipes to large 54”x88” arch pipes. Adjustment of sanitary sewer house connections, and numerous pavement restoration tasks were included in this project as well. This project required continuous coordination with the DPW staff during this project. Most of the drainage improvements under this project were derived from the previously completed Master Drainage Plan, while the new improvements were compared with the Master Drainage Plan as well to ensure that no conflicts arose.

Role: Mr. Wilson is the lead civil engineer on this project.

TEC Professional Services Questionnaire

SPECIALIST:

Name & Title:

Marty Tittlebaum, Ph.D., P.E.
Project Engineer, QA/QC

Project Assignment:

Environmental Engineer

Name of Firm with which associated:

MSMM
ENGINEERING, LLC

Years' experience with this Firm:

9 (2013)

Education: Degree(s)/Year/Specialization:

Ph.D. in Environmental Engineering, 1979, University of Louisville
ME in Environmental Engineering, 1972, University of Louisville
BE in Civil Engineering, 1971, University of Louisville

Active registration: Year first registered/discipline:

Year First Registered: 1980
Discipline: Civil & Environmental State: Louisiana License No.: 18997
Also registered in Kentucky (9563)

Other experiences and qualifications relevant to the proposed Project:

Marty E. Tittlebaum, the past Edward G. Schlieder Chair for Urban Waste Management and Research and Professor of Civil and Environmental Engineering, possesses expertise in the areas of hazardous and industrial waste remediation, environmental permitting and environmental engineering research and project management, water and wastewater treatment and reuse, resource recovery, and hazardous waste management. Dr. Tittlebaum has received over \$8 million in state, national and international research funding, written over 75 refereed technical journal articles and been an invited lecturer of over 100 papers. Dr. Tittlebaum has served on several technical advisory panels, including the U.S Corps of Engineers hazardous waste evaluation program.

At MSMM, Mr. Tittlebaum serves as our Principal Quality Control Engineer, and he reviews all design products. He is also responsible for leading all of our environmental permitting activities and has an excellent working relationship with all of the permitting agencies.

New Orleans International Airport (MSY) Drainage Pump Station, Kenner, LA

MSMM completed design and EDC services for a 600 cfs stormwater drainage pump station and for all landside drainage as part of constructing a new airport terminal. The project involved working under an extremely compressed schedule, while successfully delivering a true multi-disciplinary effort spanning various engineering disciplines, hydraulic modeling, architectural services, cost estimating, environmental permitting, drafting, and agency coordination.

Role: Dr. Tittlebaum provided the quality control design for the project. He reviewed all design submittals for

SPECIALIST:

Name & Title:

Marty Tittlebaum, Ph.D., P.E.
Project Engineer, QA/QC

accuracy/consistency and provided design comments to our engineering team prior to design submissions to the airport and the FAA.

Cow Bayou Drainage Pump Station Complex, Orange, TX

The preliminary design phase was a joint engineering effort between USACE New Orleans District, Galveston District, and MSMM. MSMM's design responsibilities included structural design, architectural design, civil site work, geotechnical evaluation and design, cost estimating, CAD drafting, and project management. MSMM was an integrated design team with New Orleans District, who provided mechanical and electrical design, while MSMM coordinated this mechanical and electrical design with the civil, structural, and geotechnical engineering design.

Project features being designed by MSMM include dolphin structures, a pump station safe house, a fuel farm, and access roads. MSMM designed the project in MicroStation 3D and Civil 3D, also utilizing Revit BIM 3D modeling and CIM modeling for the facilities. MSMM engineers also designed permanent project structures associated with the pump station, including the horizontal and vertical pump intake and discharge structures, engine and pump support slabs, fuel tank foundation/containment, water tank foundation, west access bridge, and exterior semi-gantry and overhead bridge crane supports. The pump station and two-story safe house were designed utilizing STAAD software. MSMM's civil engineers provided the wastewater treatment facility design, layout of the entry roadways and parking lots, and the site grading and utility layout in compliance with UFC-201-01. Project Management included preparing a detailed communication plan which outlined procedures for coordination of activities and addressed scheduling, communication distribution structure, information collection and filing procedures, and a flow chart of personnel and project progression.

Role: Dr. Tittlebaum is providing quality control design for the project. He is tasked with reviewing all design products before they are submitted to USACE.

Sankofa Silver Jackets- New Orleans, LA

MSMM was contracted by USACE New Orleans district to develop a SWMM model for the Sankofa Wetland Park. During the Phase I modeling effort of the Sankofa Wetland Park, it was discovered that the water levels in the Sankofa wetland pond are directly tied to the neighboring St. Bernard Parish storm drainage canal system. Phase II of the modeling effort involves connecting the St Bernard Parish model with the Lower Ninth Ward/Sankofa Wetlands Model. Additionally required is the analysis of the rain records versus the water-body stage-record data for the most recent rain data as well as incorporating proposed control structure and pumping operation parameters into the SWMM model to provide predictive outcomes of proposed action items.

Role: Dr. Tittlebaum will provide the water quality analysis for the project.

TEC Professional Services Questionnaire

SPECIALIST:

Name & Title:

Eric M. Curson
Design Manager

Project Assignment:

GIS Specialist
GIS/CADD

Name of Firm with which associated:

MSMM
ENGINEERING, LLC

Years' experience with this Firm:

9 (2015)

Education: Degree(s)/Year/Specialization:

Associates: Southeastern College of Technology
Some Classes: Purdue University

Active registration: Year first registered/discipline:

N/A

Other experiences and qualifications relevant to the proposed Project:

Eric Curson is a GIS Specialist, geospatial, and CAD manager at MSMM, where his project experience encompasses a variety of geospatial and software initiatives within the Federal and local market in southeast Louisiana. Mr. Curson has worked extensively on projects that require the use of ESRI ArcGIS and Microsoft SQL Server for Federal clients including the USACE New Orleans District. He has been instrumental in leading the GIS database creation and management for several MSMM projects including the Jefferson Parish I&I project, and the Chitimacha and Ascension Parish GIS planning tool initiatives. With a background in both CAD and GIS, Mr. Curson understands the similarities and differences between the two systems and has played an important role in working through any conversion issues that have arisen through the digitization and database creation process. As the lead drafter at MSMM, Mr. Curson has been instrumental in the development of project plans, working in conjunction with the engineering staff to finalize all submittals.

Woodlake Estates/Seton Park Subdivision Drainage Pump Station, Jefferson Parish, LA

MSMM was tasked by the Jefferson Parish Council to evaluate drainage pump station alternatives to solve the issue of long-term flooding within the Woodlake and Seton Park neighborhoods within the City of Kenner. In 2018, MSMM completed a feasibility study that developed multiple drainage pump station alternatives that bypass the capacity limitations of the canals and alleviate stormwater flooding in the area. At the completion of the feasibility report, the following alternatives were identified:

- A new drainage pump station at the corner of Canal 17 and Canal 7 (west end of Joe Yenni Blvd.), a discharge forcemain westwards, with a discharge basin in the West Return Canal.
- A new drainage pump station at the northeast corner of Vintage Drive and Platt Street on Canal 17, a discharge forcemain westwards, with a discharge basin in the West Return Canal.

SPECIALIST:

Name & Title:

Eric M. Curson

Design Manager

- A new inline drainage pump station at or near the corner of Canal 17 and Canal 7 with discharge into the canals and also with a discharge forcemain westwards to a discharge basin in the West Return Canal

Role: Mr. Curson worked with the civil and hydraulic engineering staff to develop GIS shapefiles for inclusion in the model. He also mobilized to the field to identify catch basins, inlets, manholes, and other drainage features, for which he grabbed coordinates and uploaded them into the model. Finally, Mr. Curson developed project alternatives in GIS and provided conceptual-level design in CAD.

Clearview Drainage Pump Station, St. Peter's Ditch Improvements – Phase 4, Jefferson Parish, LA.

MSMM engineering staff provided complete design services for a 220 cfs drainage pump station located within the DOTD Right-of-Way of the Clearview Parkway/Earhart Expressway interchange. The goal of this pump station was to pump stormwater runoff from the existing detention pond network, over Cross Canal, and discharge directly into the improved St. Peter's Ditch (box culvert). The project required multiple disciplines including civil, structural, electrical and mechanical engineering, as well as, cost estimating and drafting (CAD). The pump station structure contained three 75 cfs vertical lift pumps with 250 HP motors and several hundred feet of 36" discharge piping. Additional features of the project included a pile supported reinforced concrete structure, sheetpile intake area, trash rake with conveyor, conditioned control building, generator, traffic detour plan, discharge pipe aerial canal crossing, utility relocations, and other related improvements.

Role: Mr. Curson was the lead CAD designer for the project. He worked with civil, structural, electrical and mechanical engineers to develop the project design and supply of all drawings.

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. 01

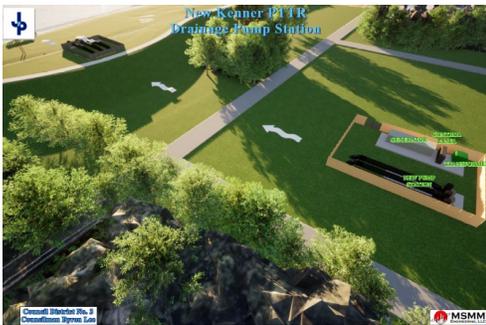
Project Name, Location and Owner's contact information:

Nature of Firm's Responsibility:

Woodlake Drainage Pump Station, Hydraulic Modeling and Preliminary Design, Kenner, LA

Jefferson Parish Drainage Department

**Mitch Theriot, PE – Drainage Director
(504) 736-6751**



The Woodlake Estates & Seton Park subdivision areas are located at the confluence of Canal 7 and Canal 17 in Kenner. The current drainage system consists of an enclosed gravity storm sewer system that outlets at various locations in the canals. The distance the stormwater within the canal must travel before it is pumped is excessive (nearly 2 miles to the Duncan Canal Pump Station and 2.25 miles to the Parish Line Pump Station). Due to the excessive distance, the water within the canal typically backs up, creating an increased head situation where the gravity drainage pipes are unable to discharge as intended. This generates a backwater flow condition, which causes repeated flooding in the area. Because of the existing conditions in the area, MSMM completed a drainage evaluation report that evaluated options for removing the backflow condition in this area.

MSMM is currently in the process of designing this project to the 65% stage as follows: a 120 CFS pump station located in Seton Park as well as a below ground retention feature within Seton Park to capture peak flows. The retention area within the park will consist of a below ground HDPE piping network covering a roughly 75x300 ft. area fed by an overflow junction box. The pump station will be fed from a 60" drain pipe on St. Elizabeth Drive. The two 60" diameter pipes crossing Platt Street and Joe Yenni Blvd to discharge into Canal 7 and 17 would be interconnected to feed the intake of the pump station. Both 60" pipes would be fitted with flapper type gates so that low flows or flows exceeding the pump station capacity could bypass into the canal. The pump station would utilize three pumps and a single 48" force main to discharge the storm water over the West Return Wall. The force main would be approximately 1,200 linear feet and discharge the storm water over the West Return Canal Levee Wall and into the West Return Canal (part of the Lake Pontchartrain drainage system).

The subsurface drainage was modeled using the US EPA Storm Water Management Model (SWMM), and the canals and pump station utilized the River Analysis System (HEC-RAS) software. The HEC-RAS model conducted existing conditions and other simulations under design storms of 10-year, 50-year, and 100-year

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. 01

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
	<p>intensities. The resulting conditions were utilized for comparison purposes. The alternate iterations result in varying degrees of water surface lowering and flooding reduction. Extents of improvement projects, associated cost opinions, and required ancillary items such as right-of-way acquisitions, etc., were considered to select the most optimum combination which will provide the most flooding reduction. The modeling process indicated that both the subsurface drainage system and high-water elevations in the canal during a 10-year storm event are contributing to flooding issues in the project area. The recommendation was made to construct an in-line 120 cfs drainage pump station directly benefiting the two neighborhoods, as the pump station will be the new outlet, therefore no longer relying on the canal system. This alternative will indirectly benefit the entire area by removing the runoff created from these subdivisions from entering the canal system, therefore freeing up canal capacity from other areas.</p>	
Completion Date (actual or estimated):	Estimated Cost (in thousands):	
	Entire Project	Work for which Firm was Responsible:
2025	\$671	\$506

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. 02

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:
<p>Southeast Louisiana Drainage Program – Harahan Drainage Pump to the River Jefferson Parish, LA</p> <p>USACE New Orleans District</p> <p>Soheila Holley, Project Manager 504-736-6780</p>  	<p>In March 2004 USACE completed a 533(d) report and environmental assessment for the Harahan Drainage Pump to the River project, thus paving the way for USACE and Jefferson Parish (non-Federal cost share sponsor) to move forward with implementation of an important federally funded SELA project. Whereas previous pumps took the 7-mile path north through various drainage canals to the Lake Ponchartrain pump stations, this new station would pump stormwater into the nearby Mississippi River, making it the first of its kind in the area. The urgency of the drainage situation meant that the project was fully funded by the Parish as a way to fast-track effective drainage protection in the area.</p> <p>The overarching purpose of this environmental infrastructure project was to eliminate the “backwater” phenomenon created by the stormwater runoff having to flow from the south end of the parish to the north end. MSMM’s goal was to create a strategically placed drainage system that would effectively rid the parish of this problem, thus improving the overall safety and quality of life of those in the community.</p> <p>The project was split into six design packages and two DDR’s. CDM Smith completed the design packages for the intake canal, pump station and 1st segment of the discharge piping, along with one of the DDR’s. Our engineers completed the other DDR and the full design package for the three sections of discharge piping, the levee crossing, a Mississippi River shift, and the discharge basin.</p> <p>The first step was preparation of the Detailed Design Report (DDR) which addressed the 700-foot-long suction canal, 9,000-feet of three side by side 84-inch discharge pipes, Mississippi River levee pipe crossing, pile supported concrete discharge basin, and a 60-foot flood side shift of the Mississippi river levee.</p> <p>Several of MSMM’s current employees were the primary team members (including the designer of record) for completion of the non-pump station DDR as well as complete design for two of the piping phases and the final phase at the river. In all, the three phases designed by MSMM employees included the following constructed features: approximately 21,000-feet of buried 84” steel discharge piping; a 60-foot flood side shift of the Mississippi River levee; an above ground levee crossing for the three parallel 84” steel pipes supported on</p>

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. 02

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
	<p>concrete bents with spread footings; and a 62-foot wide by 53-foot-long pile supported discharge basin located at the water's edge of the Mississippi River. Additional design features included a combination of relocated and new subsurface drainage and ditches; approximately 4,500-feet of relocated waterline; two submersible pump stations strategically placed at low points to allow all of the 84" piping to be drained when not in use; removal and replacement of multiple concrete and asphalt roadways; development of a three phase traffic control plan for the open cut pipe crossing of the 4-lane Jefferson Highway (LA Highway 48); and cathodic protection design for the buried steel pipes.</p> <p>In addition to the services described above, our engineering team developed the real estate right-of-way drawings, ran pile group analysis, produced specifications, produced cost estimates in MCACES (MII), and provided engineering support during advertisement (EDA) and engineering support during construction (EDC) for the project. These responsibilities included attending the pre-construction conference, responding to the contractor's requests for information and clarifications, reviewing submittals from the construction contractor; and our engineering team conducted bi-weekly site visits.</p> <p>The coordination effort was immense on this project and covered numerous agencies, organizations, and property owners. LDOTD: Much of the piping was to be in the median and beneath the future Dickory Avenue Extension. Additionally, an open cut installation of LA Highway 48 for installation of the discharge pipes required a complex 3-phase traffic control plan to be coordinated and implemented during construction. Entergy: Most of the pipes' planned route was obstructed by multiple Entergy electrical distribution lines as well as a major transmission line that connected the east and west bank. The relocation of the towers and transmission line was a multiyear effort. Coordination was also required with USACE, Jefferson Parish, City of Harahan, local property owners, LA Department of Health, and the US Coast Guard.</p>	
Completion Date (actual or estimated):	Estimated Cost (in millions):	
	Entire Project	Work for which Firm was Responsible:
2018	\$1.8	\$1.8

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. 03

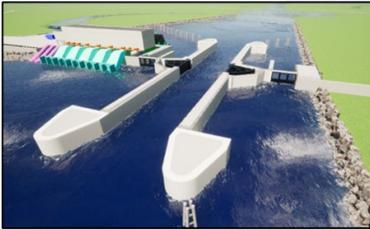
Project Name, Location and Owner's contact information:

Nature of Firm's Responsibility:

Cow Bayou Drainage Pump Station Complex

USACE New Orleans District

**Charlie Brandstetter,
Design Manager
(504) 862-2501**



Our team completed 35% design of the 8,190 CFS pump station as part of the Sabine to Galveston Cow Bayou Complex project. This project includes levee tie-ins, floodwalls, sluice gate structures and a sector gate for navigational traffic. The pump station consists of five 1,365 CFS horizontal, vacuum primed pumps with 126-inch suction side and 115-inch discharge side formed concrete intakes; and three 455 CFS vertical self-priming pumps with 84-inch discharge piping.

The preliminary design phase was a joint engineering effort between USACE New Orleans District, Galveston District and our team in which we operate as one integrated design team. Our design responsibilities included structural design, architectural design, civil site work, geotechnical evaluation and design, cost estimating, CAD drafting and project management. A unique feature of this project design is that we are an integrated design team with the New Orleans District who is providing the mechanical and electrical design while we are responsible for coordinating the mechanical and electrical design with the civil, structural, and geotechnical engineering design. Other project features being designed by our team include dolphin structures to protect the facility from possible boat impact, a pump station safe house, a fuel farm, and access roads. We designed the project in Microstation 3D and Civil 3D, also utilizing Revit BIM 3D modeling and CIM modeling for the facilities. Preliminary investigations consisted of extensive geotechnical testing to determine soil suitability, preliminary estimates of dredging based on navigational traffic loads in the Cow Bayou area, and structural calculations for the T-walls, and navigational structures. Preliminary architectural work was also completed to design the safe house which includes all facilities and workspaces for the pump station operators.

The pump station reinforced concrete structure is 250 FT by 128 FT, with 8 pump bays and is supported by 100 FT long steel H-pile. The vertical pumps, engines, generators, gear boxes, vacuum pumps and electrical equipment are all housed within the pump station building. The structural steel building located above the concrete pump station structure is 43 FT tall and utilizes 8 IN thick precast concrete tilt up wall panels. Our structural engineers, following USACE EM's, designed permanent project structures associated with the pump station including the horizontal and vertical pump intake and discharge structures, engine and pump support

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. 03

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
	<p>slabs, pump station building, pump station safe house, fuel tank foundation/containment, water tank foundation, west access bridge, exterior semi-gantry and overhead bridge crane supports, and protective dolphins. The pump station and safe house were designed utilizing STAAD software. The pump station safe house is a two-story structure 36 FT by 22 FT. The building is supported by cast-in place concrete beams and columns. The safe house is a separate structure but abuts the pump station building, houses four to six emergency personnel required during a hurricane and is designed for tornado force winds. It required a 1,000 gallon per day onsite wastewater treatment facility due to the lack of facilities in the project area. Our civil engineering team provided the wastewater treatment facility design, layout of the entry roadways and parking lots, and provided the site grading and utility layout in compliance with UFC-201-01.</p> <p>The team provided recommendations regarding site preparation and drainage, estimates of allowable pile load capacity for support of pump station components and the fuel platform, and estimates of settlement. The geotechnical analysis included performing deep seated stability analyses of the pump station, determining the unbalanced force, designing seepage cutoff beneath the pump station, performing analyses to evaluate potential uplift of the pump station during and after construction, determining lateral earth pressures for the wall design, and providing a preliminary design for temporary retaining structures (TRS). Analyses were also performed for the design of the dolphins to protect the pump station and gates. As part of our PM responsibilities, we prepared a detailed communication plan for our design team and the USACE M/E team which outlined procedures for coordination of activities and the transfer of information. The plan addressed scheduling, communication distribution structure, information collection and filing procedures, and a flow chart of personnel and project progression. Following receipt of the 35% design package, SWD engaged CERL/ERDC to complete additional hydrologic and hydraulic modeling and changed the acquisition strategy to Design-Build.</p>	
Completion Date (actual or estimated):	Estimated Cost (in millions):	
	Entire Project	Work for which Firm was Responsible:
2024	\$1.3	\$1.3

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. 04

<p>Project Name, Location and Owner's contact information:</p>	<p align="center">Nature of Firm's Responsibility:</p>	
<p>Clearview Drainage Pump Station, St. Peter's Ditch Improvements</p> <p>Jefferson Parish Department of Public Works</p> <p>Mitch Theriot, P.E. Department of Drainage Director (504) 736-6751</p>	<p>MSMM Engineering staff completed design services for a 220 cfs drainage pump station located within the DOTD Right-of-Way of the Clearview Parkway/Earhart Expressway interchange. The goal of this pump station was to pump stormwater runoff from the existing detention pond network, over Cross Canal, and discharge directly into the improved St. Peter's Ditch (box culvert). The project required multiple disciplines including civil, structural, electrical, and mechanical engineering as well as cost estimating and drafting (CAD). The pump station structure contained three 75 cfs vertical lift pumps with 250 HP motors and several hundred feet of 36" discharge piping.</p> <p>Additional features of the project included a pile supported reinforced concrete structure, sheetpile intake area, trash rake with conveyor, conditioned control building, generator, traffic detour plan, discharge pipe aerial canal crossing, utility relocations, and other related improvements.</p> <p>MSMM civil engineering staff completed all civil design for this project and Mr. Scott Chehardy is the designer of record. Mr. Chehardy was also involved in reviewing and approving RFI's for the project.</p> <div style="display: flex; justify-content: space-around;">   </div>	
<p>Completion Date (actual or estimated):</p>	<p align="center">Estimated Cost (in millions):</p>	
<p align="center">2018</p>	<p align="center">Entire Project</p> <p align="center">\$6.4</p>	<p align="center">Work for which Firm was Responsible:</p> <p align="center">\$6.4</p>

TEC Professional Services Questionnaire

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PROJECT NO. 05

<p>Project Name, Location and Owner's contact information:</p>	<p align="center">Nature of Firm's Responsibility:</p>					
<p>New Orleans International Airport Drainage Pump Station, Kenner, LA</p> <p>New Orleans Aviation Board</p> <p>Chris Spann, Program Manager (913) 940-1301</p>  	<p>MSMM recently completed full investigation, analysis and design for a new 600 cfs stormwater drainage pump station (four 150 cfs pumps, each 44" w/ 800 HP Driver) and for all landside drainage as part of constructing a new terminal at the New Orleans International Airport. MSMM is the sole entity to envision, assess and design this important addition to the region's flood protection abilities. The \$45 million of drainage mitigation designed by MSMM included civil, structural, electrical, mechanical and environmental design, hydraulic modeling (HEC-HMS and HEC-RAS), architectural design, cost estimating, environmental permitting, CAD drafting, and extensive FAA coordination.</p> <p>The project involved discharging stormwater over a hurricane protection flood wall, through the construction of 4,000 ft. of 60" steel discharge pipes; requiring detailed structural design of sheet pile cutoff walls, steel sheet pile temporary retaining structure (TRS), buttress, pipe bents, cofferdam and walers, intake channel and reinforced concrete box culvert, pipe supports, pipe sleeves in floodwall, and a discharge basin. The MSMM design required excavation of a new airport canal and connecting the canal to the existing Butler Canal. The new canal serves as the pumping basin and required extensive stability analyses and erosion control measures (rock) the design of reinforced embankments and coordination with the FAA due to the proximity to an active runway. MSMM performed 100% of the design services for the project. MSMM performed all of the civil/structural site work design inclusive of earthwork and site layout, performed engineering design support during construction inclusive of coordination with the construction contractor, performed the hydrologic and hydraulic modeling (UNET, SWMM), and developed all plans and specs. The project was successfully constructed in 2018. MSMM performed 100% of the design services for this project.</p>					
<p>Completion Date (actual or estimated):</p>	<p align="center">Estimated Cost (in millions):</p> <table border="1"> <tr> <td align="center">Entire Project</td> <td align="center">Work for which Firm was Responsible:</td> </tr> <tr> <td align="center">\$2.7</td> <td align="center">\$2.7</td> </tr> </table>		Entire Project	Work for which Firm was Responsible:	\$2.7	\$2.7
Entire Project	Work for which Firm was Responsible:					
\$2.7	\$2.7					
<p align="center">2018</p>	<p align="center">\$2.7</p>	<p align="center">\$2.7</p>				

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. 06

Project Name, Location and Owner's contact information:

Nature of Firm's Responsibility:

South Kenner Pump to the River Feasibility Study, Kenner, LA

Jefferson Parish Drainage Department

**Mitch Theriot, PE, Director
(504) 736-6751**



For this project, MSMM provided key modeling and coordination roles for developing the South Kenner Pump to the River Feasibility Study. Examining the feasibility of the project gave our engineering staff the opportunity to assist Parish leadership in advancing a concept which has been considered a “no-go” strategy in previous studies. Utilizing a knowledge base of the storm drain system and the canal-pump station system that has been developed through years of working with Kenner and the Parish on drainage problems in the area, MSMM was able to leverage their knowledge base and analytical skills to develop a plan that resurrected the Pump to the River (PTR) concept as a viable strategy for decreasing flood stages over a broad area of Kenner and unincorporated Jefferson Parish.

The modeling effort for this study involved analysis of the South Kenner EPA SWMM model and performing hydrology and hydraulic analyses utilizing the HEC-HMS and HEC-RAS models approved by FEMA and the Army Corps of Engineers. These models were used to identify runoff volume and storm flood stages expected in the watershed of the Duncan Canal and Soniat Canal. The Harahan Pump-to-the-River system was added to the HEC-RAS “Jefferson East Bank HSDRRS Project Model” so the model would reflect the projected pump conditions that would exist when the Kenner PTR system would be brought online. Rigorous modeling efforts culminated in the finding that a significant area of flooding could be reduced by extending the conveyance system to the larger reach of the Duncan Canal. In terms of value as measured by the cost of canal and pump station per of volume of water removed from the system, the PTR system was found to provide significant economies because of the short distance of conveyance to the river when compared to the long distance and multiple constrictions involved in conveyance to Lake Ponchartrain.

Completion Date (actual or estimated):

Estimated Cost (in thousands):

Entire Project

Work for which Firm was Responsible:

2014

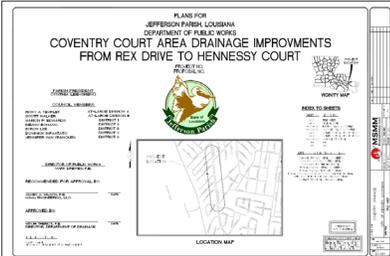
\$150

\$150

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.

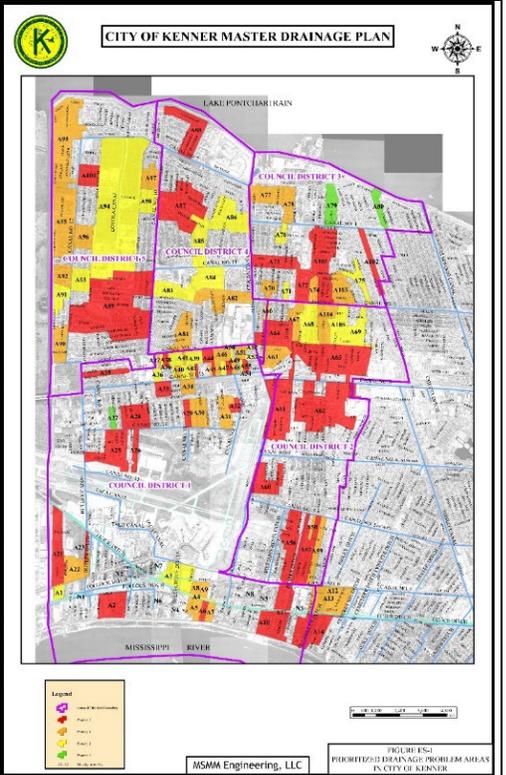
PROJECT NO. 07

<p>Project Name, Location and Owner's contact information:</p>	<p>Nature of Firm's Responsibility:</p>					
<p>Coventry Court Drainage Pump Station Feasibility Study and Design River Ridge, LA</p> <p>Jefferson Parish Drainage Department</p> <p>Mitch Theriot, PE – Drainage Director (504) 736-6751</p>  	<p>In early 2017 and following repetitive street flooding in the Coventry Court area of River Ridge, MSMM Engineering worked with the Jefferson Parish District 2 office to propose a solution to the flooding issues in the area. The MSMM engineering team identified several potential options that could be evaluated, and in 2018 the Jefferson Parish Council tasked our staff with developing a multi-phase feasibility report to evaluate several drainage solutions in the area. As part of the Coventry Court evaluation, the Jefferson Parish drainage department requested that MSMM investigate and determine the feasibility of providing improved drainage.</p> <p>The final report was completed in less than 6 months, and the final recommendation was to design a new drainage pump station on a vacant parcel owned by the parish between Coventry Court and Lee Court, westerly of Jefferson Highway. This 90 cfs (120 cfs ultimate) pump station with a 48' open cut discharge forcemain placed down Colonial Heights Road and over the Mississippi River levee. Other project features consist of a discharge dolphin in the Mississippi River and upsizing of the Jefferson Highway drainage crossings and downstream conveyance.</p> <p>Upon completion of the feasibility study for the Coventry Court area of River Ridge, MSMM provided professional services for the design of subsurface drainage improvements along Jefferson Highway to convey storm water to a new drainage pump station (designed by others). MSMM was responsible for upsizing the subsurface drainage from Rex Drive to Hennessey Court and rerouting the drainage to a new drainage pump station to be placed on a vacant parcel between Coventry Court and Lee Court. The drainage improvements included 48" RCPA, 54" RCP, 54" RCPA, 72" RCP, Drainage Manhole Tees, three Outlet Control Structures, water line offsets, and miscellaneous pavement improvements.</p> <p>MSMM's scope included engineering design, bidding, resident inspection, and construction administration. As the prime consultant, MSMM provided full engineering design which included preliminary phase and final design phase.</p>					
<p>Completion Date (actual or estimated):</p>	<p align="center">Estimated Cost (in thousands):</p> <table border="1"> <tr> <td align="center">Entire Project</td> <td align="center">Work for which Firm was Responsible:</td> </tr> <tr> <td align="center">\$299</td> <td align="center">\$299</td> </tr> </table>		Entire Project	Work for which Firm was Responsible:	\$299	\$299
Entire Project	Work for which Firm was Responsible:					
\$299	\$299					
<p align="center">2018</p>	<p>\$299</p>	<p>\$299</p>				

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. 08

<p>Project Name, Location and Owner's contact information:</p>	<p align="center">Nature of Firm's Responsibility:</p>	
<p>Drainage Master Plan Development, Kenner, LA</p> <p>City of Kenner Department of Public Works</p> <p>Tom Schreiner, Director (504) 468-7515</p>	<p>MSMM's principals created the GIS system for the entire City of Kenner subsurface drainage infrastructure that included 304 miles of pipes and culverts, 14,511 individual pipe/culvert segments, and 13,000 drain inlets and catch basins, and managed the database for quick retrieval. As part of developing this information for the Kenner Master Drainage plan project, our staff also characterized the drainage system via field inspections and Hydraulic Modeling utilizing the EPA SWWM. MSMM personnel were previously involved in developing drainage planning documents, inclusive of the City of Kenner Drainage Master Plan completed in April of 2010. Several of the projects identified in that plan were subsequently constructed. However, several drainage projects remained so this report was developed</p>  <p>to prioritize recommended subsurface drainage improvement projects on a Council District based by identifying ten (10) highest priority project in each Council District.</p> <p>At the completion of this analysis, the City of Kenner received a compiled report that identified the highest priority projects, along with cost estimates, maps, and recommended drainage piping information. The recommended pipe sizing was based on a ten (10) year storm design standard. The Hydraulic Modeling for this Master Plan update was completed in a similar format to recent Hydraulic Modeling changes performed by Jefferson Parish. The end result was a list of drainage projects that will compete for available funding.</p>	
<p>Completion Date (actual or estimated):</p>	<p align="center">Estimated Cost (in thousands):</p>	
<p align="center">2018</p>	<p align="center">Entire Project</p> <p align="center">\$120</p>	<p align="center">Work for which Firm was Responsible:</p> <p align="center">\$120</p>

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. 09

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p align="center"> Sauvé Road Drainage Improvements Jefferson, LA </p> <p align="center"> Jefferson Parish Department of Public Works </p> <p align="center"> Neil Schneider (504) 736-6833 </p> 	<p>MSMM Engineering performed 100% of the planning, engineering phase services and construction phase services for the construction of a drainage pump station in the Sauvé Road neighborhood of Jefferson Parish, LA. Through a collaboration between the USACE New Orleans District and Jefferson Parish, the project resulted in the design and construction of a 60 cfs (27,000 gpm) drainage pumping station, 2600 linear feet of 30" and 36" discharge forcemains and 60" gravity drainage. The project included the relocation and re-design of the bike path on top of the Mississippi River Levee, including a temporary bike path during design. At the time of construction, the project was considered a major accomplishment for the neighborhood, as the area was heavily flooded following Hurricane Katrina and subsequent storm events. To this date, this project has been viewed as one of the most successful post Katrina storm risk reduction measures constructed in Jefferson Parish, as the flooding impact on the neighborhood has been greatly diminished.</p> <p>MSMM engineering staff were responsible for all design aspects of the project, including preliminary, final and engineering during construction. MSMM personnel also participated in extensive agency coordination for receiving the approvals to cross the Mississippi River Levee and discharge into the Mississippi River. Our staff worked closely with the Jefferson Parish Engineering Department to develop sufficient design features that would result in the least amount of long-term maintenance while providing adequate capacity to reduce the need for future expansion. Finally, MSMM personnel managed the construction management of the project and worked closely with all constituents to make sure the project was a success. The project included extensive permitting and coordination for the Mississippi River levee crossing and discharge into the river, including the U.S. Army Corps of Engineers, Coastal Protection & Restoration of Louisiana (CPRA), DEQ, LA-DNR, Office of Coastal Management, U.S. Coast Guard and the East Jefferson Levee District.</p>	
<p align="center">Completion Date (actual or estimated):</p> <p align="center">2014</p>	Estimated Cost (in thousands):	
	<p align="center">Entire Project</p>	<p align="center">Work for which Firm was Responsible:</p>
	<p align="center">\$</p>	<p align="center">\$</p>

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.

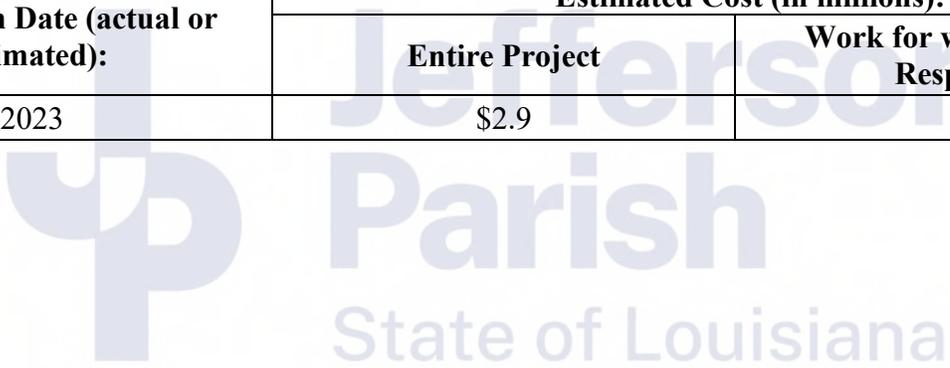
PROJECT NO. 10

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:
<p>277K Levee Raise and Slope Flattening, and Delta Pump Station, Dallas, TX</p> <p>USACE Fort Worth District</p> <p>Donna Jones / Sarwenaj Ashraf (817) 886-1056 / (817) 791-1447</p>  	<p>MSMM was tasked with developing two stand-alone 35% Design-Build (DB) RFPs for the USACE Fort Worth District as part of the Dallas Floodway System. The two DB RFP packages included Plans, Technical Specs, a DDR explaining the requirements of the Design-Build firm, a Summary of Work further explaining the project requirements and an MII construction cost estimate.</p> <p>The Delta Pump Station replacement project consists of a stormwater pump station replacement of the high-flow pumps and pump house, as well as the reuse of the structural chamber. Two pumps and associated bearing lubrication equipment, valves, trash rack, and gates will be housed in the new building. A new electrical room has been incorporated into the building design to house the upgraded equipment, SCADA system, and controls. The new Delta Pump House roof is designed to provide access panels for pump maintenance egress and ingress. The civil design accommodates a new debris collection area for small loaders and dump trucks. The trash rack on the high-flow culvert will be replaced with a trash rack to dump in the new collection area. The low-flow pump stairs will be removed and replaced. Site circulation was designed to provide access to the low-flow stairs from the new collection area. Our team worked with the City of Dallas and Oncor to identify electrical equipment added on-site to upgrade the electrical service. The site security fencing and gates will be replaced to secure the site, as well as lighting and security cameras. All existing facilities and structures will be demolished. Communication and electrical conduits, transformers, and conductors will be installed or reconnected for service and coordinated with the City of Dallas. The access road from the pump house to the Canada Drive intersection will be replaced with a 25-foot concrete curb and gutter road. The concrete road is designed to drain to the swale south of the new road through curb openings connected to flume/outfall structures and slope protection. Erosion protection measures were added at the pump station's outfall. This is comprised of a concrete apron and rock riprap.</p> <p>MSMM's team provided an independent value engineering study via a Virtual Platform. The workshop resulted in the development of Design Alternatives (some mutually inclusive) that were selected for incorporation into the design. There were also Design Suggestions that</p>

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. 10

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
	offered measures to simplify construction, provide various means for reducing costs (in these cases, these savings are hard to quantify), improve the operational requirements for the facility, and reduce the construction duration. In total, 80 alternatives were developed for the two projects, identifying roughly \$11M in cost savings. Following a review of the alternatives, \$200K in cost avoidance was realized, including changing the Delta Pump Station project from a rehabilitation project to a replacement project.	
Completion Date (actual or estimated):	Estimated Cost (in millions):	
	Entire Project	Work for which Firm was Responsible:
2023	\$2.9	\$2.9



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:	
Not Applicable	Not Applicable	Not Applicable

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

MSMM Engineering, LLC (MSMM) is one of the fastest-growing small businesses in the greater New Orleans area. Specializing in drainage infrastructure assessment and design, MSMM offers experienced personnel with an extremely diverse skill set. MSMM engineers total over 150 years of design experience and, combined, have designed over 250 projects for Jefferson Parish. The principals of MSMM alone have designed over two hundred Jefferson Parish projects. We are extremely proficient in providing feasibility/drainage phase, design phase, and construction phase services for drainage infrastructure projects.

1. Professional Training and Experience in Relation to the Type of Work Required for the Engineering Services:

We are one of the most knowledgeable firms about subsurface drainage in general, and Jefferson Parish drainage in particular. Since the beginning of the SELA program, MSMM’s Principal Mr. Manish Mardia has been involved with large scale canal improvement and pump station projects in Jefferson Parish (Harahan Pump to the River, and Soniat Canal improvements). MSMM has modeled, designed, and provided construction inspection and management on several subsurface drainage improvement projects in Kenner (Jefferson Parish), analyzed the entire drainage system of the New Orleans International airport in Jefferson Parish, and conducted complete design of the 600 cfs airport drainage pump station that was recently constructed. The airport drainage work required MSMM to conduct hydraulic modeling, which included the entire east bank of Jefferson Parish, and included recent SELA improvements as well. MSMM’s principals also analyzed the entire subsurface drainage system of a prominent Jefferson Parish community (Kenner) through the Woodlake and Seton Park drainage evaluation. We have developed a feasibility study for the community, conducted hydraulic modeling, and applied for a state grant to implement the drainage improvements. Furthermore, Mr. Mardia managed several phases of the Harahan Pump to the River project, and Mr. Chehardy was the designer of record of multiple phases of the project. Mr. Wilson was the designer of record for the Sauv e Road drainage pump station and the new drainage pump station at the airport.

Given the qualifications listed above, our engineering staff are extremely familiar with the region’s drainage infrastructure in general, Jefferson Parish’s drainage infrastructure, and the soil characteristics that impact design decisions, pose constructability issues, and factor into permitting.

2. Size of Firm, considering number of Professional and Support Personnel Required to Perform the type of Engineering Tasks:

MSMM has a total of fifteen personnel that will be available to work on this project. Though labeled as a small DBE firm, our modeling and engineering qualifications rival those of larger firms in the region. We were

selected by the USACE Ft. Worth and New Orleans Districts for Prime small business contracts to perform A-E Design and Project and Program Management on Federal projects. We have also received a prime engineering design contract by the RTA of New Orleans. Our small business firm has provided hydraulic modeling services and full engineering design for various drainage projects in Jefferson Parish, which have been widely successful and have been reviewed and approved by top Parish officials.

When beginning any new job, MSMM launches a QA/QC template that assigns personnel based on experience, location, and availability. This plan is developed by the Project Manager and reviewed by the Program Manager before any tasks are executed on the project. MSMM employs a QA/QC manager who not only reviews the quality of the design but engages in forecasting available resources based on the current workload at the company. The QA/QC manager works in unison with the project manager to guarantee that MSMM is providing quality work products and ample capacity to add resources to the job should the scope change during design.

3. Capacity for Timely Completion of Newly Assigned Work:

MSMM prides itself in completing projects on time and under budget. Since the inception of MSMM, our staff engineers have completed over one hundred design projects, including multiple drainage pump stations (as detailed above). Our engineering staff have designed/worked on more than *two hundred projects for various Jefferson Parish departments*. These projects were successfully completed within the identified schedule and met the quality standard Jefferson Parish expects in design performance. The Jefferson Parish references identified in the response to question #7 can attest to the quality standard and timely completion of Parish projects by MSMM and our personnel. Please reach out to them to better understand our firm abilities/accomplishments.

MSMM's current project load allows ample flexibility in our staffing arrangements to ensure that completion of the work associated with this project is completed on time and within budget. We recently wrapped up four of our largest design jobs, one being the large drainage pump station at the New Orleans International Airport, and the other three were large design task orders for USACE Ft. Worth where we designed an office building, a roadway and bridge project and a large recreational project. These four jobs encompassed most of our engineering resources over the last 2 years. With these jobs now finished, we have started to allocate our engineering resources to smaller jobs, and they have ample availability in their current schedules for a new project. In addition, the other large design jobs we currently have ongoing for USACE (Cow Bayou Drainage Complex, Ascension Parish Wastewater Treatment Plant, and design for a new floodwall in Texas City, TX) have moved past the preliminary design phase and final design will be completed before the end of the year. Additionally, the larger Jefferson Parish Watershed report has been finalized and provided to the Parish and USACE, so our staff also has ample availability currently.

4. Past Performance by Person or Firm on Similar Contracts:

Our engineering staff have been the designer of record for seven (7) recent drainage pump stations in Jefferson Parish and Texas. Of the recent pump stations completed in Jefferson Parish, our engineering staff were the designer of record for 5 (five of those stations). Mr. Jim Wilson was the designer of record for the recent six hundred cfs drainage pump station at the New Orleans International Airport, as well as the Sauvé Road Drainage Pump Station that was also constructed in River Ridge. Mr. Scott Chehardy was the designer of record for the Clearview Drainage Pump station and for multiple packages of the Harahan Pump to the River

project. Mr. Chehardy and Mr. Manish Mardia were also heavily involved in recent updates to the Parish Line Pump Station. As you can see, MSMM is highly qualified to perform the required services for this project and has recent similar project experience that proves our capability to successfully complete this project.

Project types designed by MSMM engineering staff include drainage evaluation/pump stations, roads and bridges, stormwater and wastewater system assessment, funding and construction administration, environmental site assessments, permitting and NEPA documentation, and hurricane hazard mitigation design for drainage and sewerage facilities. MSMM's Principals have worked on Jefferson Parish contracts for the past 20 years and have a history of successful project execution starting from grant applications, through environmental permitting and design, to construction administration and grant management. At no point during the 20+ year career of producing project plans and specifications has any member of MSMM been involved in projects involving design inadequacies, cost over-runs or assertions of fault. This statement can be verified by checking with the references listed in the response to Question #7.

A listing of other (not previously covered in this RFQ response) Jefferson Parish projects completed by MSMM engineering staff:

- Utility (Sewer) Relocations – Huey P. Long Bridge Widening
- 31st Street Bridge Replacement
- Hilltop to Quitman Bridge Replacement
- Manhattan Boulevard Rehabilitation from Lapalco to Harvey
- Lapalco Boulevard Widening
- Hickory Avenue (LA-48 to Mounes)
- Soniat Canal Drainage Improvements (USACE/SELA project)
- Storm Water Demonstration Project, Force Main & East Bank Wastewater Treatment Plant Expansion, Jefferson Parish, LA.
- Sena Drive Drainage Improvements
- Canal 7 Drainage Improvements at Chateau Boulevard and Joe Yenni Boulevard
- East Bank Subsurface Drainage Improvement Program Phases I and II
- Drainage Evaluation of Canal Nos. 17 and 7, and Parish Line Pump Station
- Environmental Review for Hurricanes Gustav and Ike CDBG Disaster Recovery grant projects
- Infiltration/Inflow Hydraulic Modeling, Jefferson Parish, LA
- Chetta Drive Gravity Sewer System, Jefferson Parish, LA
- East Bank Water Treatment Plant Expansion, Jefferson Parish, LA
- Wastewater Treatment Plant Modifications, including Sewer Force Main (Tribune to East Bank WWTP), Jefferson Parish, LA
- Sewerage Improvements to the Crown Point Area, Jefferson Parish, LA
- Drainage Design Services for the Long-Term Airport Development, New Orleans International Airport, Kenner, LA

5. Location of Principal Office Where Work Will be Performed:

All work associated with this project will take place out of the MSMM office located at 4508 Clearview Parkway, Metairie, LA 70006.

6. Adversarial Legal Proceedings between the Parish and the Person or Firm Performing Professional

Services, in which the Parish prevailed, or any ongoing Proceedings between Parish and the Person or Firm:

MSMM is proud to state that **neither the firm nor our staff have been involved in any litigation activity with Jefferson Parish** or any other client.

7. Prior Successful Completion of Projects of the Type and Nature of the Engineering Services, as Defined, for which firm has Provided Verifiable References:

We offer the following references that can attest to our previous work history regarding hydraulic modeling utilizing SWMM and HEC-RAS modeling, along with the appropriate fieldwork it will require to supply accurate data to the model.

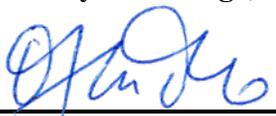
For recent Jefferson Parish drainage projects completed by MSMM inclusive of: Jefferson Parish Watershed Master Planning, Coventry Court Drainage Evaluation, Sauv  Road Drainage Pump Station Design, Woodlake/Seton Park Drainage Evaluation, New Orleans International Airport Drainage Pump Station Design, Kenner Statewide Flood Control Drainage Improvements, Harahan Pump to the River, Clearview Drainage Pump Station, Soniat Canal Drainage Improvements (USACE/SELA project), and Sena Drive Drainage Improvements, we offer the following references:

- **Mitch Theriot, P.E., Director of Drainage Department • Jefferson Parish • 1221 Elmwood Park Blvd., Ste. 907, Jefferson, LA. 70123 • 504-736-6751**
- **Michelle Gonzales, CFM Director of Ecosystem and Coastal Management • Jefferson Parish • 1221 Elmwood Park Blvd., Ste. 310, Jefferson, LA. 70123 • 504-736-6653**
- **Neil Schneider, CCM, P.E., Director of Capital Projects • Jefferson Parish • 1221 Elmwood Park Blvd., Ste. 906, Jefferson, LA. 70123 • 504-736-6833**
- **Walter Krygowski, Deputy Director, and Chief Operations Officer • New Orleans International Airport • 504-303-7551**

For recent projects we have designed that have involved detailed hydraulic modeling, permitting with DOTD, CPRA, the Coast Guard and levee lifts/re-design and bike path/utilities relocation for the USACE New Orleans District:

- **Durund Elzey, Deputy District Engineer for Programs and Project Management (DPM) • US Army Corps of Engineers, New Orleans District • 504-862-1674**

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

Signature:  _____

Print Name: Manish Mardia, PE

Title: President

Date: August 29, 2024

Louisiana Professional Engineering
and
Land Surveying Board

Hereby Certifies that

MSMM Engineering, Inc.

*has complied with the regulation of this Board and is authorized
to provide or to offer to provide engineering services in the State of
Louisiana contingent upon payment of the annual renewal fee.*

Baton Rouge, Louisiana · 08/15/2011



License Number 4896

Ali Mustafa

Chairman

[Signature]

Secretary

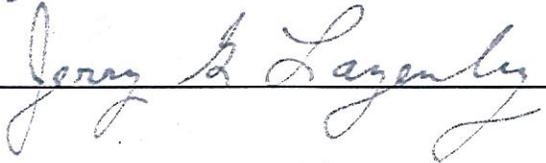
The Louisiana State Board of Registration
for
Professional Engineers and Land Surveyors

Hereby Certifies that
Manish Mardia

has qualified before this Board in accordance with law and his name
has been inscribed upon the list of registered Professional Engineers. He
is thereby entitled to practice in the State of Louisiana the profession of
Environmental Engineering
contingent upon payment of the annual license fee provided by law.



Baton Rouge, La. July 13, 1999


Chairman

Secretary

Registration No. 28482



LOUISIANA UNIFIED CERTIFICATION PROGRAM

Disadvantaged Business Enterprise Program

This is to certify that under Title 49, Part 26 of the Code of Federal Regulations
& Under the State of Louisiana United Certification Program (LAUCP)

MSMM Engineering, LLC

Is a Certified Disadvantaged Business Enterprise (DBE) in the following specialties:

541690, 541620, 541618, 541611, 541490, 541350, 541340, 541330

NOTE: There may be other approved NAICS Codes. The online DBE Directory includes a complete list of approved codes.

Certificate Eligibility: January 13, 2024- January 13, 2025

This certificate is valid through the above date provided. This firm meets the on-going programmatic standard and fulfills the annual update requirement to remain in good standing as a DBE. This certification is subject to annual verification and suspension or revocation based upon reasonable cause to believe that the firm is ineligible.

Keziah L. Cawthorne, DBE Program Administrator II
Regional Transit Authority



**IMC Consulting Engineers,
Inc.**

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

B. Firm Name & Address:

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:

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.

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

- | | | |
|--|---|---|
| <input type="checkbox"/> Administrative | <input type="checkbox"/> Estimators | <input type="checkbox"/> Specification Writers |
| <input type="checkbox"/> Architects (Licensed) | <input type="checkbox"/> Geologists | <input type="checkbox"/> Structural Engineers |
| <input type="checkbox"/> Chemical Engineers | <input type="checkbox"/> Geotechnical Engineers | <input type="checkbox"/> Graduate Engineers |
| <input type="checkbox"/> Civil Engineers | <input type="checkbox"/> Interior Designers | <input type="checkbox"/> Project Managers |
| <input type="checkbox"/> Construction Inspectors | <input type="checkbox"/> Landscape Architects | <input type="checkbox"/> Clerical |
| <input type="checkbox"/> Ecologists | <input type="checkbox"/> Land Surveyor | <input type="checkbox"/> Grant/Funding Specialist |
| <input type="checkbox"/> Electrical Engineers | <input type="checkbox"/> Mechanical Engineers | <input type="checkbox"/> Sanitary Engineers |
| <input type="checkbox"/> Engineer Intern | <input type="checkbox"/> Environmental Engineers | |
| <input type="checkbox"/> Professional Land Surveyors | <input checked="" type="checkbox"/> CAD Operators | <input type="checkbox"/> TOTAL |

**All of our Engineers are Specification Writers.*

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.

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:

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:

Project Assignment:

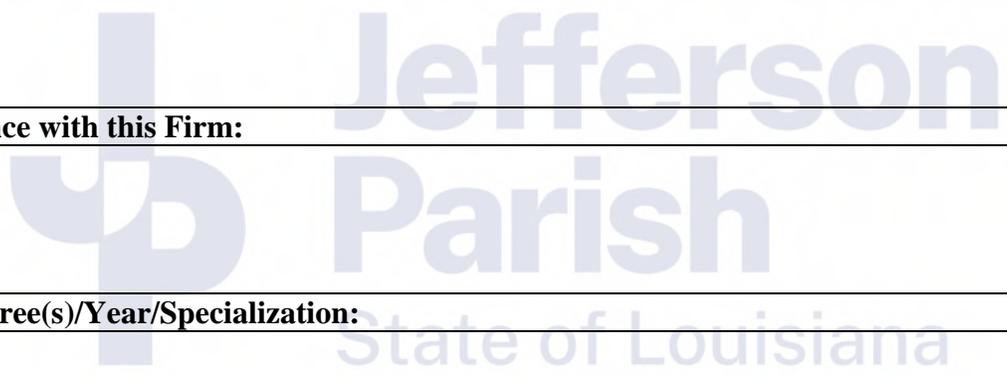
Name of Firm with which associated:

Years' experience with this Firm:

Education: Degree(s)/Year/Specialization:

Active registration: Year first registered/discipline:

Other experience and qualifications relevant to the proposed Project:



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

City of Kenner – Woodlake Estates Drainage Pumping Station

Currently designing the electrical and controls / instrumentation associated with a new booster pumping station consisting of four (4) 250 HP, electric-motor driven, submersible pumps. Design will include standby generator backup and full automated controls with SCADA interface.

Estelle 1 Pump Station Modifications

Designed and specified electrical and SCADA systems for the replacement of three 200 HP drainage pump motors. Design included power, lighting, controls, instrumentation, and SCADA communications design.

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 implemented 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.

Veterans Boulevard Pumps

Designed and specified electrical power, control, and SCADA systems for drainage booster pumping stations (3 total stations – 2 at Veterans and 1 at West Esplanade) to be located near the 17th St. Canal at Veterans Blvd. and West Esplanade Ave. Each station consists of (2) electric motor-driven pumps ranging from 125 HP to 250 HP each. Design included primary and full standby power systems for each station, PLC pump controls, instrumentation, and SCADA system.

Jefferson Parish Dept of Drainage-Hero Pump Station-Standby Power Automation

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 is the Prime Consultant for this project, and Paul will be serving as the Project Manager during construction.

Parish Line Pumping Station

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.

Ascension Parish – Marvin Braud Pump Station - Enhanced Flood Protection

Designed and specified electrical modifications to the station to incorporate the addition of sluice gates at pump discharge tubes for prevention of water backflow into the suction basin from the discharge basin. Project also included electrical relocations North of the station to accommodate a new flood wall.

Fronting Protection - Bonnabel and Suburban Pump Stations

Designed and specified power, lighting, and PLC-based controls associated with the addition of electrically-actuated sluice gates at the end of the discharge tubes for the horizontal pumps at PLC system for remote control of closure gates from the Pump Station or the Bonnabel and Suburban Pumping Stations. Design included interface with existing Allen-Bradley Safe House.

USACE Orleans Stormproofing (Several Projects)

IMC provided mechanical & electrical improvements at the S&WBNO's main power generation plant, (2) raw water pumping stations necessary for plant power production, and 17 drainage pumping stations located throughout New Orleans. All improvements were associated with stormproofing measures. Stormproofing design consisted of elevating existing equipment where feasible, sealing conduits to equipment that could not be easily elevated, adding sump pumps, adding both "house" generators and major station generators to operate drainage pumps (3000 & 4000 kw generators), and retrofitting / adding ventilation louvers capable of handling 150 mph wind loading.

At several stations, design included standby power generation to operate large (1500HP – 2500HP) electric motors for drainage pumps, and at Pump Station 5, a completely new 600 CFS pumping station was designed. Design for this station also included medium voltage pump controls, power factor correction capacitors, and digital relaying for protection of medium voltage switchgear, pump motors, and generator.



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 6/14/2024 the Louisiana Professional Engineering and Land Surveying Board (LPELS) has the following information on file:

Mr. Paul Schurb Vlosich
2120 Colombo Drive
Harvey, Louisiana 70058-3045

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LPELS)	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
Mr. Paul Schurb Vlosich		
License/Certificate Type - Number	Expiration Date	
PE.0031006	03/31/2026	
Status: Active		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

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Disclaimer

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TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Project Assignment:
Name of Firm with which associated:
Years' experience with this Firm:
Education: Degree(s)/Year/Specialization:
Active registration: Year first registered/discipline:
Other experience and qualifications relevant to the proposed Project:

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

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.

Freshwater Bayou Lock Electrical Renovation, Vermillion Parish

Designed total renovation of this COE Lock in south Louisiana. Included electrical service, distribution system, lighting, controls, navigation lighting, generation, etc.

Catfish Point Sector Gate Renovation, Cameron Parish

Designed total renovation of this COE freshwater/storm water control structure. Included electrical service, distribution system, lighting, controls, navigation lighting, generation, etc.

Drainage Pumping Station No. 6, Orleans Parish

Design of electrical modifications at Drainage Pumping Station No. 6, which included 14 sluice gates (motors & controls), lighting, and miscellaneous power.

Drainage Pumping Station No. 6 - Add Two 3750 KW Generators, Orleans Parish

Electrical design of the installation of two new 3750 KW generators for this major S&WB Drainage Pumping Station. The design included tying the new generators into the existing electrical system at Pumping Station #6. It also included 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.

LADOTD Renovation of the Mechanical & Electrical System Associated with the Houma Tunnel, Terrebonne Parish

Under this work statement IMC 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.

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.

Mini-System Improvements Sewerage System, Jefferson Parish

Electrical design of numerous sewerage lift and booster stations for Jefferson Parish. Approximately 30 - 40 stations, duplex and triplex, submersible, wet/dry well and above ground facilities.



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 6/14/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Richard Earl Nichols
1054 Whitetail Drive
Mandeville, Louisiana 70448

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com
Mr. Richard Earl Nichols	
License/Certificate Type - Number	Expiration Date
PE.0025896	09/30/2024
Status: Active	
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>	

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Disclaimer

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TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Project Assignment:
Name of Firm with which associated:
Years' experience with this Firm:
Education: Degree(s)/Year/Specialization:
Active registration: Year first registered/discipline:
Other experience and qualifications relevant to the proposed Project:

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

Elmwood Drainage Pump Station

Supervised and acted as the Professional of Record for the mechanical system design. This multi-year project consisted of replacing eight (8) existing diesel engines, remote radiators and mufflers that drive the eight (8) vertical turbine drainage pumps at the Elmwood Pump Station. As part of the mechanical design, the existing diesel driven engines, their remotely mounted radiators and mufflers are being replaced. The design included replacement, or modifications, to the fuel, compressed air and cooling water piping systems associated with the new engines, refurbishment of the existing right angle gear reducers and new drive shafts to connect the engines to the gear reducers. The project was designed in phases to replace two units at a time so as not to drastically reduce the pumping capacity of the station.

USACE Levee Inspections

Chip provided 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.

Orleans Parish Storm Proofing

Supervised and acted as the Professional of Record for the mechanical system design. After Hurricane Katrina, the United States 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, IMC 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 included 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, and 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.

17th Street Canal, London Avenue Canal and Orleans Avenue Canal Closure Structures, Orleans Parish

Supervised and acted as the Professional of Record for the mechanical system design. The design consisted of mechanical systems to support the diesel driven pumps, including 40,000 gallons of above ground diesel fuel storage and transfer systems, and the design of domestic water and sanitary systems associated with the personnel offices to serve the remainder of the building loads.

Parish Line Pumping Station, Jefferson Parish

Supervised and acted as the Professional of Record for the design of the mechanical systems associated with an addition to the existing drainage station. The project consisted of a new structure adjacent to the existing station for the purpose of housing a single, diesel-engine driven vertical pump. Design included provisions for expanding the new structure to include three future pumps, for a total of four pumps in the station addition. Mechanical design included additions and modifications to the existing

Chip Higbee, P.E.
Principal

fuel storage and transfer system, a new fuel polishing system, a compressed air system for diesel engine starting and discharge tube valve actuation, domestic water service modifications, an emergency raw-water system, gear oil cooler piping, and bearing water piping. Design also included piping to and from keel coolers submersed in the suction basin for engine cooling and exhaust piping from the diesel engine to the silencer mounted on the exterior of the station.

Fronting Protection for Ollie Pumping Station, Plaquemines Parish

Supervised and acted as the Professional of Record for all mechanical system designs. The design included specified modifications to the existing compressed air piping and design of new compressed air piping system. It also included modifications to the cooling water piping that served keel coolers for existing engines.



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 6/14/2024 the Louisiana Professional Engineering and Land Surveying Board (LPELS) has the following information on file:

Mr. Eugene Fallis Higbee III
2714 Independence Street
Metairie, Louisiana 70006

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LPELS)	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
Mr. Eugene Fallis Higbee III		
License/Certificate Type - Number	Expiration Date	
PE.0026162	09/30/2024	
Status: Active		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

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TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Matthew Wender, P.E. Principal and Mechanical Department Head
Project Assignment:
Mechanical Engineer
Name of Firm with which associated:
IMC Consulting Engineers, Inc. 2714 Independence Street Metairie, LA 70006
Years' experience with this Firm:
17
Education: Degree(s)/Year/Specialization:
Bachelor of Science 2004 (Mississippi State University) Mechanical Engineering
Active registration: Year first registered/discipline:
2009, Louisiana #34365 / Mechanical Engineering
Other experience and qualifications relevant to the proposed Project:
<p>Matt Wender is responsible for the design of commercial HVAC, pumping, plumbing, and fire protection systems, including load calculations, specifications, system layout, and completion of construction documents. His HVAC design experience includes a wide range of mechanical systems spanning from direct expansion (D/X) systems to four-pipe, variable-air volume, water-cooled systems with energy recovery. Direct Digital Control (DDC) system design and installation supervision are special areas of concentration. The plumbing systems he has designed include high-efficiency condensing-type water heaters with hot water recirculation and water conserving type fixtures. Matt's fire protection designs include wet-pipe systems, both with and without fire pumps, and dry-pipe pre-action and anti-freeze systems.</p> <p>Please see attached resume for additional experience and qualifications.</p>

Matthew Wender, P.E.
Principal / Mechanical Department Head

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

Sylvia Estates Pump Station, St. Bernard Parish

Provided drainage pump station HVAC and plumbing design to accommodate the facility's diesel engine-driven drainage pumps, 200kW generator, and operator workroom. On-site aboveground diesel fuel storage consists of two 10,000-gallon double wall cylindrical storage tanks meeting UL142 and STI Fireguard specifications. Interior pump & generator day tanks are supplied fuel via redundant submersible turbine transfer pumps with all fuel controls/alarms monitored within the operator workroom. HVAC designs account for conditioning the operator workroom as well as the pump & generator ventilation louvers and insulated engine mufflers.

Charenton Flood Gate Replacement, St. Mary Parish

Provided mechanical design for control house ventilation for new USACE sector gate in Charenton, Louisiana.

WBV-16.2 Bayou Segnette to Westwego #2 - Sector Gate - New Orleans District

Designed Hurricane-resistant HVAC fans and louvers for sector gate control houses.

USACE - WBV-74 - New Sector Gate at Sellers Canal - New Orleans District

Designed Hurricane-resistant HVAC fans and louvers for sector gate control houses.



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 8/21/2024 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Matthew David Wender
2714 Independence Street
Metairie, Louisiana 70006

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
Mr. Matthew David Wender		
License/Certificate Type - Number	Expiration Date	
PE.0034365	03/31/2025	
Status: Active		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

Fold Here

Cut Here

Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

Disclaimer

All information provided by LAPELS on this web page, and on its other web pages and internet sites, is made available to provide immediate access for the convenience of interested persons. While LAPELS believes the information to be reliable, human or mechanical error remains a possibility, as does delay in the posting or updating of information. Therefore, LAPELS makes no guarantee as to the accuracy, completeness, timeliness, currency, or correct sequencing of the information. Neither LAPELS, nor any of the sources of the information, shall be responsible for any errors or omissions, or for the use or results obtained from the use of this information. Other specific cautionary notices may be included on other web pages maintained by LAPELS.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Project Assignment:
Name of Firm with which associated:
Years' experience with this Firm:
Education: Degree(s)/Year/Specialization:
Active registration: Year first registered/discipline:
Other experience and qualifications relevant to the proposed Project:

Other Experience and Qualifications Relevant to the Proposed Project (*continued*) 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 Elmwood Drainage Pump Station

This project consisted of replacing eight existing diesel engines, remote radiators and mufflers that drive the eight vertical turbine drainage pumps at the Elmwood Pump Station. As part of the mechanical design; the existing diesel driven engines and their remotely mounted radiators and mufflers are being replaced. The design included replacement or modifications to the fuel-compressed air and cooling water piping systems associated with the new engines, refurbishment of the existing right angle gear reducers and new drive shafts to connect the engines to the gear reducers. The project has been designed in phases to replace two units at a time so as not to drastically reduce the pumping capacity of the station.

New Orleans Sewerage & Water Board Drainage Pump Station No. 5

After Hurricane Katrina, the United State Army Corps of Engineers (USACE) undertook a project to build a new drainage pump station to augment the existing pump station that was on the site. As part of the mechanical design, we designed and specified the fuel storage and distribution system, compressed air system, cooling water system that served the large diesel driven standby generators that were part of the new pump station. The design included installation of a 15,000-gallon aboveground fuel tank, a 3,000 gallon day tank and associated piping, pumps and controls for the diesel fuel oil supply to the generator. The design also included 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. Remote air-cooled radiators were provided to cool the generator’s diesel engine along with aftercooler and jacket water piping. New potable water system was designed using a variable frequency driven booster pump to maintain required water pressure at the station. Exhaust piping was designed to serve the generator’s diesel engine. Upgrades were designed for the existing drainage pump station providing sump pumps to help “stormproof” the building and a new domestic water booster pump to serve the existing station’s water needs.

Bayou Segnette Pumping Station

This was an addition to the existing drainage pumping station. The plumbing design included all mechanical systems for the support of the diesel engine driven drainage pumps. Systems included a compressed air system for starting the main diesel engines that operate the drainage pumps, engine and gear cooling water systems, domestic water and sanitary systems, instrument air systems, vacuum pump priming system, pump bearing lubrication water system, a 30,000 gallon above ground diesel fuel storage and transfer system, waste oil system, and sump pumps to serve the station’s basement. The design also included the air distribution system required for the suction basin and discharge basin water level manometers and discharge tube vacuum breaker system.

Westminster Pumping Station Generator Building

The design included compressed air, fuel storage and distribution systems to support the 2.5 mega watt

Louis Pastor, CIPE/CPD
Plumbing Designer

generator. The design consisted of compressed air for engine starting, a 40,000-gallon fuel oil storage system with transfer pumps and distribution piping, engine exhaust piping, engine cooling system, instrument air, domestic water and well water (750 ft. well), and sewerage piping.

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:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

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 a prime and sub-consultant, including mechanical and electrical designs for Drainage Pumping Stations within the Parish.

We hope the responses in the SOQ demonstrate IMC's recent and extensive experience providing mechanical and electrical engineering services for Drainage Pumping Stations. Many of the highlighted projects have been with, or directly for, Jefferson Parish. Some examples of recent Drainage projects within Jefferson Parish include electrical improvements at Hero Pump Station, the addition to Parish Line Pumping Station, engine replacements at Elmwood Pumping Station, and new booster pumping stations along Veterans Blvd. near the 17th St. Canal (not yet constructed). Outside of Jefferson Parish, IMC has designed mechanical and/or electrical systems for drainage projects at Marvin Braud Pumping Station in Ascension Parish, Ollie Pumping Station in Plaquemines Parish, and DPS-5 in Orleans Parish, to name a few.

We look forward to continuing to serve Jefferson Parish in this capacity.

Please see next page for additional information.

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:** 8/21/2024

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 – DRAINAGE

IMC has performed mechanical and electrical designs and construction administration at Jefferson Parish Drainage Pump Stations for over 30 years.

While we hope that our responses demonstrate IMC's experience in the design of electrical and mechanical systems for drainage pump stations, as well as our experience providing professional services to Jefferson Parish, we also want to highlight our experience communicating with the Parish's preferred vendors, including PLC-based Pump Control and SCADA System provider, Prime Controls, whose PLC equipment we are familiar with, and Fluid Process and Pumps, whose equipment and controls we are also familiar with. IMC has a great working relationship with both vendors.

Our 35+ years of experience in designing drainage structures and pumping stations has afforded us the unique opportunity to speak with multiple station operators and gain knowledge on multiple drainage pumping approaches. Through our exposure to different station types and conversations with station operators we have learned a great deal of information that contributes to our ability to design mechanical and electrical systems that are easier to maintain and that are fault-tolerant.

IMC Consulting Engineer's experience 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:

- Daniel Walker (30+ years of experience)
- Garrett Fried (12+ years of experience)

IMC's experienced Mechanical staff includes Principals Eugene "Chip" Higbee, P.E. (30+ years of experience) and Matthew Wender, P.E. (15 years of experience). IMC also employs two additional registered Professional Mechanical Engineers, and two Mechanical Designers:

- Joseph Garon, P.E. (9+ years of experience)
- Matthew Garon, P.E. (9+ years of experience)
- Russell Troncoso (7+ years of experience)
- Quynh Nguyen (2+ years of experience)

Louis Pastor, CIPE/CPD (40+ years of experience) continues to provide IMC with design assistance on selected projects on a part-time basis. Louis specializes in plumbing engineering and is certified in that area. Louis has specialized experience in the design of compressed air systems and fuel storage and distribution systems.

All of IMC Engineers and Designers provide field observation and 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.

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

2. SIZE OF FIRM

IMC is an 18-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.

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. IMC utilizes MS Word processing software for specifications and general correspondence and utilizes Microsoft Excel electronic spreadsheet for efficient calculations and tabulation of data.

3. CAPACITY FOR TIMELY COMPLETION OF NEWLY ASSIGNED WORK

Based upon our experience with past, similar 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 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 prompt manner. 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.

4. PAST PERFORMANCE BY FIRM ON PROJECTS OF SIMILAR SIZE, SCOPE, AND SCALE

IMC has worked on numerous projects for Jefferson Parish in the past. In addition to those already mentioned, some examples of these projects include mechanical, electrical, plumbing design and construction administration services for the Kenner WWTP Generator Banking Project, Yenni Building Standby Generator Project, the Veterans Boulevard Decorative Lighting project, and the Causeway and West Esplanade Sewer Lift Station project, just to name a few. Our mechanical, electrical, and plumbing design experience for Jefferson Parish includes not only Drainage Pumping Stations, but also Sewer Lift Stations, Office Buildings, Courthouses, equipment replacements (mechanical and electrical), and other facilities/projects.

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. Ben Lepine (Drainage Dept.), Mr. Ryan Babcock (Director of General Services), and Mr. Mark Drewes (Director of Public Works).

We have enjoyed our relationship with Jefferson Parish more than 35 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.

5. LOCATION OF PRINCIPAL OFFICE

IMC's only office is located in Jefferson Parish at 2714 Independence Street in Metairie 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. **Of special note, the project site referenced in this RFQ is located less than two miles from IMC's office.**

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

6. ADVERSARIAL LEGAL PROCEEDINGS WITH JEFFERSON PARISH

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

7. PRIOR SUCCESSFUL COMPLETION OF PROJECTS OF THE TYPE AND NATURE OF SERVICES

IMC has successfully completed numerous projects of this type and nature for Jefferson Parish in the 35+ 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, Drainage Stations, Sewer Lift 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 West Bank Government Complex. Specific to the projects of the type anticipated for this contract, IMC has recently and successfully designed, and/or administered the construction for, the mechanical and/or electrical systems for following recent Drainage Projects:

- New Booster Drainage Pump Station for Woodlake Estates subdivision (in design)
- Addition to Parish Line Pump Station (construction complete)
- Electrical Improvement at Hero Pump Station (construction complete)
- New Booster Drainage Pump Stations along Veterans, near 17th St. Canal (in construction)
- Engine Replacements at Elmwood Pumping Station (construction complete)
- Electrical Improvements and Bonnabel and Duncan Pump Stations (design complete)

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

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name:

IMC Consulting
Engineers, Inc.

Public Address:

2714 Independence Street
Metairie, Louisiana 70006

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0001470	Active	11/17/1988	03/31/2025	Mr. Eugene Fallis Higbee III # PE.0026162 ; Mr. Richard Earl Nichols # PE.0025896



**Gulf South Engineering and
Testing, Inc.**

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Independence Park Drainage Pump Station
SOQ 24-029 | Resolution No. 144443

B. Firm Name & Address:



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:

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



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.

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 Pump Station, Avondale, Jefferson Parish, LA. Geotechnical engineering services for the construction of a replacement Lake Cataouatche drainage pump station in Avondale, LA. Gulf South's scope includes drilling a single undisturbed soil boring (depth of 100 ft bgs), laboratory testing, engineering analyses and general construction procedures and recommendations. (\$12,500 (fee); 2019)

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)

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)

Morton & Ingrid Pump Station Rehabilitation, Jefferson Parish, LA. Geotechnical investigation for below grade pump station replacement. Gulf South drilled 1 boring to 30 feet below the ground surface, provide laboratory testing and geotechnical engineering analyses consisting of allowable soil bearing values, bedding, and backfill recommendations, estimates of settlement, and general construction recommendations. (\$3,900 (fee); 2012)

New Pump/Lift Station, Airline Park Boulevard at West Metairie Avenue, Jefferson Parish, LA. Geotechnical investigation for a new pump/lift station for Jefferson Parish near the intersection of Airline Park Blvd. and W. Metairie Avenue. Scope of work consisted of performing one soil boring to 50 feet, laboratory testing, and geotechnical engineering analyses consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction recommendations. (\$5,000 (fee); 2013)

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:	
 ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants	
Years' experience with this Firm:	
13 years (joined Gulf South in 2011); 35 years total (1989)	<i>Gulf South Engineering and Testing, Inc. 2011 to present</i> <i>Ardaman and Associates, Inc. 2007 to 2011</i> <i>Soil Testing Engineers, Inc. 1988 to 2007</i>
Education: Degree(s)/Year/Specialization:	
<i>High School Diploma</i>	
Active Registration: Year first registered/discipline:	
<i>ACI-I Field Technician (since 1991; No. 929012)</i> <i>Certified Engineering Technician (since 1992)</i> <i>Nuclear Gauge Safety Training (since 1994; No. 061321)</i> <i>Pile Driving Analyzer/CAPWAP, OSHA 40 HAZWOPER</i>	
Other experience and qualifications relevant to the proposed Project:	
<p>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.</p> <p>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)</p> <p>Replacement of Sewer Pump Station (SPS) 8, Sewerage & Water Board of New Orleans, LA. This \$15 million project consisted of the replacement of a sewer pump station for the Sewerage &</p>	

TEC Professional Services Questionnaire

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

Water Board of New Orleans. Gulf South provided field and laboratory inspection and testing of materials during construction (CMT). Our 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 field density tests, and steel inspection. (\$103,411 (fee); 2019)

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)

Westwego Pump Station #1, Jefferson Parish, LA. Gulf South performed field and laboratory testing during pump station #1 installation. Scope of services included field density tests, concrete testing and inspection, laboratory testing, and vibration monitoring. (\$10,000 (fee); 2016)

Airline Park Blvd. Rehabilitation and Drainage Upgrade (W. Napoleon to Camphor), Jefferson Parish, LA. Geotechnical investigation for pavement rehabilitation, new drain lines, and a new pump station from W. Napoleon to Camphor. Scope of work included drilling four soil borings (depths of 15 & 50 ft), laboratory testing (strength and classification), and geotechnical engineering analysis consisting of allowable soil bearing values, allowable pile load capacities, estimates of settlement, pavement recommendations, bedding and backfill recommendations, and general construction recommendations. (\$8,500 (fee); 2015)

Pump Station A Investigation (St. Ann St. & Essence Way), Sewerage & Water Board of New Orleans, LA. Geotechnical investigation for determining existing pile foundation conditions for Pump Station A in the Treme-Lafitte neighborhood of New Orleans, LA. Gulf South's scope includes drilling three soil borings each to a depth of 120 feet, laboratory testing (strength and classification), and geotechnical engineering analysis consisting of allowable pile load capacities and general construction recommendations for repair of the damaged areas. (\$24,325 (fee); 2015)

Violet Pump Stations (3 Sites), St. Bernard Parish, LA. Geotechnical investigation for St. Bernard Parish at three proposed pump/lift station sites. Gulf South's scope of work included performing three soil borings each to a depth of 120 feet, lab testing, and geotechnical engineering analysis consisting of allowable soil bearing values, allowable pile load capacities, bedding and backfill recommendations, uplift pressures, estimates of settlement, and general construction recommendations. (\$15,000 (fee); 2014)

New Pump/Lift Station, Airline Park Boulevard at West Metairie Avenue, Jefferson Parish, LA. Geotechnical investigation for a new pump/lift station for Jefferson Parish near the intersection of Airline Park Blvd. and W. Metairie Avenue. Scope of work consisted of performing one soil boring to 50 feet, laboratory testing, and geotechnical engineering analyses consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction recommendations. (\$5,000 (fee); 2013)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
<p>Brandon A. Paille, ACI Construction Materials Testing (CMT) Supervisor/Project Manager</p>	
Project Assignment:	
Construction Materials Testing (CMT) Supervisor/Project Manager	
Name of Firm with which associated:	
	
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:	
<p>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.</p> <p>New Sewer Lift Station (Butler Drive & Grambling Street) E-10-1, Waggaman, 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; backfill compaction testing; soil density tests; earthwork inspection and testing, and; vibration monitoring. (\$30,000 (fee); ongoing)</p> <p>New Pump/Lift Station, Airline Park Boulevard at West Metairie Avenue, Jefferson Parish, LA. Geotechnical investigation for a new pump/lift station for Jefferson Parish near the intersection of Airline Park Blvd. and W. Metairie Avenue. Scope of work consisted of performing one soil boring to 50 feet, laboratory testing, and geotechnical engineering analyses consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction recommendations. (\$5,000 (fee); 2013)</p>	

TEC Professional Services Questionnaire

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

Metairie Lawn Drainage Improvements, 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; earthwork inspection and testing, and; soil density tests. (\$5,000 (fee); ongoing)

East Bank Transit Operations Facility, 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; earthwork inspection and testing; pile inspection and modeling; vibration monitoring; asphalt inspection; backfill compaction testing, and; static pile load testing. (\$16,000 (fee); 2024)

Northbound Manhattan Boulevard Widening, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes asphalt inspection; concrete testing; backfill compaction testing; soil density tests; earthwork inspection and testing, and; vibration monitoring. (\$11,000 (fee); 2023)

Bonanza Pump Station Flood Protection, Houma, Terrebonne Parish, LA. Geotechnical investigation for replacement of an existing bulkhead at Terrebonne Parish's Bonanza Pump Station in Houma, LA. Gulf South's scope of work included performing a soil boring to a depth of 80 feet, laboratory testing, and geotechnical engineering analyses consisting of bulkhead design parameters (tip depth, bending moment, anchor force, etc.), and general construction recommendations. (\$4,500 (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)

Drainage System Engineering Analysis – CCTV Drain Line Inspections, City of New Orleans, LA. Project management and oversight of cleaning/flushing and inspection of sewer drainage pipelines in New Orleans, LA. Gulf South oversaw field operations and coordinated project phases with subcontractors. Subcontractor's inspection methods will utilize CCTV camera equipment to record drain line data. During post processing phase, all data was compiled and consolidated to create a digital database of the drain line information. (\$20,000 (fee); 2014)

Casing Installation - 40 Arpent Canal Floodwall, Chalmette, St. Bernard Parish, LA. Geotechnical investigation for casing installations at 40 Arpent Canal floodwall in Chalmette, LA. Casings installed to perform sonic tests to determine sheet pile lengths. Casings installed to depths of 40 to 60 feet below the ground surface and within 15 feet of the existing sheet pile. (\$18,900 (fee); 2014)

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)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
<p>James Tiner, ACI Laboratory Manager/Field Supervisor</p>	
Project Assignment:	
Laboratory Manager/Field Supervisor	
Name of Firm with which associated:	
 ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants	
Years' experience with this Firm:	
<p>11 years (2013 to present); 27 years total (1997)</p>	<p><i>Gulf South Engineering & Testing, Inc. 2013 - present</i> <i>Ardaman & Associates, Inc. 2007 - 2013</i> <i>Soil Testing Engineers, Inc. 1997 - 2007</i></p>
Education: Degree(s)/Year/Specialization:	
<i>High School Diploma</i>	
Active Registration: Year first registered/discipline:	
American Concrete Institute (ACI) Grade 1 Certification	
Other experience and qualifications relevant to the proposed Project:	
<p>James Tiner, ACI, has a quarter-century of experience in both field and laboratory testing & inspection. His field work includes soil inspection and testing consisting of nuclear density testing and soil boring logging, steel inspection, augercast pile inspection, vibration monitoring, drilled shaft inspection, static and dynamic pile load tests, pile inspection, concrete testing and inspection, asphalt testing and inspection, and pavement coring.</p> <p>In the laboratory, Mr. Tiner 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.</p> <p>Westwego Pump Station #1, Jefferson Parish, LA. Gulf South performed field and laboratory testing during pump station #1 installation. Scope of services included field density tests, concrete testing and inspection, laboratory testing, and vibration monitoring. (\$10,000 (fee); 2016)</p> <p>Bissonet Drainage Outfall Improvements, Metairie, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes backfill compaction testing; concrete testing; soil density tests; earthwork inspection and testing, and; vibration monitoring. (\$20,000 (fee); ongoing)</p>	

TEC Professional Services Questionnaire

Other experience and qualifications: **James Tiner, ACI (continued)**

Metairie Lawn Drainage Improvements, 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; earthwork inspection and testing, and; soil density tests. (\$5,000 (fee); ongoing)

East Bank Transit Operations Facility, 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; earthwork inspection and testing; pile inspection and modeling; vibration monitoring; asphalt inspection; backfill compaction testing, and; static pile load testing. (\$16,000 (fee); 2024)

New Pump/Lift Station, Airline Park Boulevard at West Metairie Avenue, Jefferson Parish, LA. Geotechnical investigation for a new pump/lift station for Jefferson Parish near the intersection of Airline Park Blvd. and W. Metairie Avenue. Scope of work consisted of performing one soil boring to 50 feet, laboratory testing, and geotechnical engineering analyses consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction recommendations. (\$5,000 (fee); 2013)

Wastewater Treatment Plant (WWTP) No. 3 Expansion, City of Kenner, LA. Geotechnical investigation for expansion of the City of Kenner's WWTP. Expansion consists of new clarifiers, buildings, above and below grade piping, and pump stations. Services consist of drilling 11 soil borings to depths of 20 to 110 feet below ground surface, laboratory testing, and geotechnical engineering analyses consisting of allowable soil bearing values, allowable pile load capacities, bedding and backfill recommendations, seismic classification, earth pressures, estimates of settlement, and general paving design recommendations. (\$39,000 (fee); 2012)

Replacement of Sewer Pump Station (SPS) 8, Sewerage & Water Board of New Orleans, LA. This \$15 million project consisted of the replacement of a sewer pump station for the Sewerage & Water Board of New Orleans. Gulf South provided field and laboratory inspection and testing of materials during construction (CMT). Our 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 field density tests, and steel inspection. (\$103,411 (fee); 2019)

Bonanza Pump Station Flood Protection, Houma, Terrebonne Parish, LA. Geotechnical investigation for replacement of an existing bulkhead at Terrebonne Parish's Bonanza Pump Station in Houma, LA. Gulf South's scope of work included performing a soil boring to a depth of 80 feet, laboratory testing, and geotechnical engineering analyses consisting of bulkhead design parameters (tip depth, bending moment, anchor force, etc.), and general construction recommendations. (\$4,500 (fee); 2013)

Bonanza Pump Station Flood Protection, Houma, Terrebonne Parish, LA. Geotechnical investigation for replacement of an existing bulkhead at Terrebonne Parish's Bonanza Pump Station in Houma, LA. Gulf South's scope of work included performing a soil boring to a depth of 80 feet, laboratory testing, and geotechnical engineering analyses consisting of bulkhead design parameters (tip depth, bending moment, anchor force, etc.), and general construction recommendations. (\$4,500 (fee); 2013)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
<p>Bryson S. Beard, P.E., ACI Associate Geotechnical Engineer/Field Engineer</p>	
Project Assignment:	
Associate Geotechnical Engineer/Field Engineer	
Name of Firm with which associated:	
	
Years' experience with this Firm:	
2 years (joined Gulf South in 2022); 3 years total (2021)	<i>Gulf South Engineering and Testing, Inc. 2022 to present</i> <i>TetraTech, Inc. 2021 to 2022</i>
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:	
<p>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.</p> <p>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.</p> <p>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)</p>	

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)

Sewer Lift Station No. F6-2 (W. Napoleon Blvd.), Metairie, Jefferson Parish, LA. Gulf South provided geotechnical engineering services for upgrading an existing below grade sewer lift station (No. F6-2) off West Napoleon Boulevard in Metairie, LA. Gulf South's scope includes drilling a single boring to a depth of 60 feet below the ground surface, laboratory testing, engineering analyses (soil bearing values, bedding & backfill, pile capacities, and estimates of settlement) and general construction procedures and recommendations. (\$5,000 (fee); 2022)

Geotechnical Exploration Report for Multiple Sewer Lift Station Sites, Assumption Parish, LA. The Geotechnical Exploration Report's scope included drilling five undisturbed soil borings (each to a depth of 50 ft b.g.s.) and the performance of soil mechanics laboratory tests to evaluate the soil's physical characteristics. Engineering analyses were made and based on the field and laboratory test data to develop recommendations for the project. Soil mechanics laboratory tests consisted of classification tests (moisture, unit weight, Atterberg's, etc.) and unconfined/triaxial compression strength testing. Engineering analyses included soil classification, allowable pile load capacities, probe piles & pile load tests, vibration monitoring, etc.), and general construction procedures and recommendations. (\$20,000 (fee); 2024)

Lift Station Upgrade (24th St. and Delaware Ave.), City of Kenner, LA. Geotechnical engineering services for construction of a new generator pad and wet well located at 24th Street and Delaware Avenue in Kenner, LA. Gulf South's scope of services includes drilling two borings to a depths of 70 feet (1 boring for wet well) and 50 feet (1 boring for generator pad) below the ground surface, laboratory testing, engineering analyses (soil bearing values, pile capacities, bedding & backfill, and estimates of settlement) and general construction procedures and recommendations. (\$7,500 (fee); 2022)

Lift Station No. 4330 Upgrade (New Wet Well), City of Kenner, LA. Geotechnical investigation related to the upgrades (below grade wet well and valve vault structures) of the existing below-grade Sewer Lift Station No. 4330 at 131 W. Esplanade Ave. in Kenner, LA. Scope involved drilling two undisturbed soil borings to depths of 70 feet (1 boring for wet well) and 15 feet (1 boring for valve pit) below the existing ground surface. Geotechnical laboratory testing was performed in accordance with the appropriate ASTM standards, this included strength tests (unconfined and/or triaxial) and classification tests (Atterberg Limits and/or particle size). Geotechnical evaluations (necessary to characterize the subsoil conditions of the site and develop engineering recommendations and analyses) included allowable pile load capacities, estimates of settlement, below-grade foundations (as appropriate), bedding and backfill recommendations, and general construction procedures and recommendations. (\$8,500 (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:	
 ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants	
Years' experience with this Firm:	
13 years (joined Gulf South in 2011); 13 years total (2011)	<i>Gulf South Engineering and Testing, Inc. 2011 to present</i> <i>Ardaman and Associates, Inc. 2007 to 2011</i> <i>Soil Testing Engineers, Inc. 2006 to 2007</i>
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:	
<p>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.</p> <p>Mississippi River Discharge Pump Station, River Ridge, Jefferson Parish, LA. Gulf South provided geotechnical engineering services for the construction of a new pump station and force main discharge pipeline between Coventry Court and Lee Court in River Ridge. Scope includes drilling four undisturbed soil borings (one at 100 ft., one at 80 ft., and two at 30 ft.; all below ground surface), laboratory testing, engineering analyses (soil bearing values, pile load capacities, settlement estimates, retaining structure recommendations, slope stability analyses) and general construction procedures and recommendations. Pump station was located on flood side of the Mississippi River levee with discharge pipes crossing the levee to the protected side. (\$35,000 (fee); 2022)</p>	

TEC Professional Services Questionnaire

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

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)

Morton & Ingrid Pump Station Rehabilitation, Jefferson Parish, LA. Geotechnical investigation for below grade pump station replacement. Gulf South drilled 1 boring to 30 feet below the ground surface, provide laboratory testing and geotechnical engineering analyses consisting of allowable soil bearing values, bedding, and backfill recommendations, estimates of settlement, and general construction recommendations. (\$3,900 (fee); 2012)

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)

Lake Cataouatche Pump Station, Avondale, Jefferson Parish, LA. Geotechnical engineering services for the construction of a replacement Lake Cataouatche drainage pump station in Avondale, LA. Gulf South's scope includes drilling a single undisturbed soil boring (depth of 100 ft bgs), laboratory testing, engineering analyses and general construction procedures and recommendations. (\$12,500 (fee); 2019)

N. Sibley Pump Station Improvements, Metairie, Jefferson Parish, LA. Gulf South provided construction materials testing for the project. 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)

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)

New Pump/Lift Station, Airline Park Boulevard at West Metairie Avenue, Jefferson Parish, LA. Geotechnical investigation for a new pump/lift station for Jefferson Parish near the intersection of Airline Park Blvd. and W. Metairie Avenue. Scope of work consisted of performing one soil boring to 50 feet, laboratory testing, and geotechnical engineering analyses consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction recommendations. (\$5,000 (fee); 2013)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
<p>Tyler W. Pregeant, ACI Engineering Technician; CMT/Laboratory Technician</p>	
Project Assignment:	
<p>Engineering Technician; CMT/Laboratory Technician</p>	
Name of Firm with which associated:	
	
Years' experience with this Firm:	
<p>5 years (joined Gulf South in 2019); Gulf South Engineering and Testing, Inc. 2019 to present 7 years total (2017)</p>	
Education: Degree(s)/Year/Specialization:	
<p>High School Diploma Currently attending UNO in Civil Engineering Program</p>	
Active Registration: Year first registered/discipline:	
<p>ACI Concrete Field Testing Technician - Grade I (02206931)</p>	
Other experience and qualifications relevant to the proposed Project:	
<p>Tyler Pregeant, ACI, serves as an engineering technician with the soil boring drill crew, within the soils' laboratory, and on construction projects as needed. His duties and responsibilities have included leading a drill crew, staking boring sites, supervising clearing contractors, data entry, testing soil for engineering properties of strength and classification, soil boring logging, vibration monitoring, and concrete testing and inspection. Laboratory tests performed include unconfined shear tests, moisture content tests, density tests, Atterberg limits tests, grain size sieve analyses, organic content tests and concrete strength breaks.</p> <p>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)</p> <p>Bissonet Drainage Outfall Improvements, Metairie, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes backfill compaction testing; concrete testing; soil density tests; earthwork inspection and testing, and; vibration monitoring. (\$20,000 (fee); ongoing)</p>	

TEC Professional Services Questionnaire

Other experience and qualifications: **Tyler W. Pregeant, ACI (continued)**

New Sewer Lift Station (Butler Drive & Grambling Street) E-10-1, Waggaman, 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; backfill compaction testing; soil density tests; earthwork inspection and testing, and; vibration monitoring. (\$30,000 (fee); ongoing)

Geotechnical Exploration Report for Kennedy Heights Lift Station Generator, Avondale, Jefferson Parish, LA. Gulf South prepared a Geotechnical Exploration Report for the project. The study included drilling soil borings and lab testing to determine subsoil conditions and groundwater/moisture content. Deep foundation recommendations included allowable pile load capacities, pile driving recommendations, probe piles and pile load tests, vibration monitoring recommendations, drag load/group effect, estimated settlement for pile foundations, and recommendations for site preparation, fill placement, compaction, and materials. (\$6,500 (fee); 2024)

Geotechnical Exploration Report for Lift Station Generators (4 Sites - F6-1, F6-11, F6-13, G6-4), Metairie, Jefferson Parish, LA. Gulf South prepared a Geotechnical Exploration Report for the project. The study included drilling soil borings and lab testing to determine subsoil conditions and groundwater/moisture content. Deep foundation recommendations included allowable pile load capacities, pile driving recommendations, probe piles and pile load tests, vibration monitoring recommendations, drag load/group effect, estimated settlement for pile foundations, and recommendations for site preparation, fill placement, compaction, and materials. (\$24,000 (fee); 2024)

Geotechnical Exploration Report for Sewer Lift Station (Hillcrest Drive), Marrero, Jefferson Parish, LA. Gulf South prepared a Geotechnical Exploration Report for the project. The study included drilling soil borings and lab testing to determine subsoil conditions and groundwater/moisture content. Deep foundation recommendations included allowable pile load capacities, pile driving recommendations, probe piles and pile load tests, vibration monitoring recommendations, drag load/group effect, estimated settlement for pile foundations, and fill materials & fill placement and compaction. Recommendations for inspection and protection of the bearing surface and uplift pressures were also noted. (\$8,500 (fee); 2024)

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. (\$6,000; ongoing)

East Bank Transit Operations Facility, 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; earthwork inspection and testing; pile inspection and modeling; vibration monitoring; asphalt inspection; backfill compaction testing, and; static pile load testing. (\$16,000 (fee); 2024)

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)	<i>Gulf South Engineering and Testing, Inc. 2017 to present</i>
Education: Degree(s)/Year/Specialization:	
<i>High School Diploma</i>	
Active Registration: Year first registered/discipline:	
<i>ACI Concrete Field Testing Technician - Grade 1 (exp 2028 03)</i> <i>ACI Aggregate Testing Technician - Level 1 (exp 2029 02 27)</i>	
Other experience and qualifications relevant to the proposed Project:	
<p>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.</p> <p>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)</p> <p>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)</p>	

TEC Professional Services Questionnaire

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

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)

Bissonet Drainage Outfall Improvements, Metairie, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes backfill compaction testing; concrete testing; soil density tests; earthwork inspection and testing, and; vibration monitoring. (\$20,000 (fee); ongoing)

Metairie Lawn Drainage Improvements, 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; earthwork inspection and testing, and; soil density tests. (\$5,000 (fee); ongoing)

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)

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)

Lift Station Upgrade (24th St. and Delaware Ave.), City of Kenner, LA. Geotechnical engineering services for construction of a new generator pad and wet well located at 24th Street and Delaware Avenue in Kenner, LA. Gulf South's scope of services includes drilling two borings to a depths of 70 feet (1 boring for wet well) and 50 feet (1 boring for generator pad) below the ground surface, laboratory testing, engineering analyses (soil bearing values, pile capacities, bedding & backfill, and estimates of settlement) and general construction procedures and recommendations. (\$7,500 (fee); 2022)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Walter Jones Technician/Inspector	
Project Assignment:	
Technician/Inspector	
Name of Firm with which associated:	
 ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants	
Years' experience with this Firm:	
7 years (joined Gulf South in 2017); 19 years total (2005)	<i>Gulf South Engineering and Testing, Inc. 2017 to present</i> <i>Little Debbie Ind. Distributors 2013 to 2017</i> <i>Applied Business Concepts 2006 to 2013</i> <i>Royal Guard Corporation 2005 to 2006 & 2013</i>
Education: Degree(s)/Year/Specialization:	
High School Diploma	
Active Registration: Year first registered/discipline:	
American Portable Nuclear Gauge Assn. (APNGA) Certification OSHA Training	
Other experience and qualifications relevant to the proposed Project:	
<p>Walter Jones serves as a Technician/Inspector for Gulf South Engineering and Testing, Inc. He has provided services for a multitude of projects throughout the region since joining the firm in 2017.</p> <p>New Sewer Lift Station (Butler Drive & Grambling Street) E-10-1, Waggaman, 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; backfill compaction testing; soil density tests; earthwork inspection and testing, and; vibration monitoring. (\$30,000 (fee); ongoing)</p> <p>Bissonet Drainage Outfall Improvements, Metairie, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes backfill compaction testing; concrete testing; soil density tests; earthwork inspection and testing, and; vibration monitoring. (\$20,000 (fee); ongoing)</p> <p>Metairie Lawn Drainage Improvements, 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; earthwork inspection and testing, and; soil density tests. (\$5,000 (fee); ongoing)</p>	

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:	
<p>Woodlake Drainage Pump Station - Geotechnical Exploration Report, Kenner, Jefferson Parish, Louisiana</p> <p>MSMM Engineering, LLC 7640 S. Carrollton Ave Ste 220 New Orleans LA 70119</p> <p>Scott G. Chehardy, P.E., 985-233-9763 schehardy@msmmeng.com</p>	<p>Prepared a Geotechnical Exploration Report for the project which consisted of a new drainage pump station. 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.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
March 2024	N/A	\$48,000 (fee)

PROJECT NO. 2

Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Lake Cataouatche Drainage Pump Station Replacement, Avondale, Jefferson Parish, Louisiana</p> <p>Jefferson Parish Department of Engineering 1221 Elmwood Park Blvd Ste 907 Jefferson LA 70123</p> <p>Mitch Theriot, P.E., 504-736-6742 mtheriot@jeffparish.net</p>	<p>Geotechnical engineering services for the construction of a replacement for the Lake Cataouatche drainage pump station in Avondale, LA. Gulf South's scope includes drilling a single undisturbed soil boring (depth of 100 ft bgs), 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.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
October 2019	N/A	\$12,500 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Lake Cataouatche Drainage Pump Station Replacement (Chighizola Lane), Grand Isle, Jefferson Parish, Louisiana</p> <p>Principal Engineering, Inc. 1011 N Causeway Blvd Ste 19 Mandeville LA 70471</p> <p>Andre Monnot, P.E., 985-624-5001 andre@principal-engineering.com</p>	<p>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.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
May 2020	N/A	\$7,500 (fee)

PROJECT NO. 4		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Midway at Soniat Canal Pump Station Elevator Generator Platform (Silver Oak Lane), Harahan, Jefferson Parish, Louisiana</p> <p>Burk-Kleinpeter, Inc. 4176 Canal Street New Orleans LA 70119</p> <p>Henry M. Picard, III, P.E., 504-486-5901 hpicard@bkiusa.com</p>	<p>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.</p>	
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. 5		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Mississippi River Discharge Pump Station, River Ridge, Jefferson Parish, Louisiana</p> <p>ECM Consultants, Inc. 1301 Clearview Pkwy Ste 200 Metairie LA 70001</p> <p>Susina Shrestha, P.E., 504-885-4080 sshrestha@ecmconsultants.com</p>	<p>Gulf South provided geotechnical engineering services for the construction of a new pump station and force main discharge pipeline between Coventry Court and Lee Court in River Ridge. Scope includes drilling four undisturbed soil borings (one at 100 ft., one at 80 ft., and two at 30 ft.; all below ground surface), laboratory testing, engineering analyses (soil bearing values, pile load capacities, settlement estimates, retaining structure recommendations, slope stability analyses) and general construction procedures and recommendations. Pump station was located on flood side of the Mississippi River levee with discharge pipes crossing the levee to the protected side.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
December 2022	N/A	\$35,000 (fee)

PROJECT NO. 6		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Trudeau Drive Drainage Improvements at West Metairie Canal, Metairie, Jefferson Parish, Louisiana</p> <p>Hatch Mott MacDonald 650 Poydras Street, Suite 2025 New Orleans LA 70130</p> <p>Many Heymann, P.E., 504-799-0437 many.heyman@hatchmott.com</p>	<p>Geotechnical investigation for new drainage improvements along Trudeau Drive at W. Metairie Blvd. in Metairie, LA. The improvements will consist of replacing existing box culverts within W. Metairie Canal with double barrel 7 ft. x 11 ft. culverts, approximately 300 linear feet. Gulf South's scope includes drilling two soil borings each to a depth of 50 feet, lab testing, and geotechnical engineering analysis consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, slope stability analysis, rigid and/or flexible pavement design recommendations, and general construction recommendations.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
October 2015	N/A	\$8,000 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Morton & Ingrid Pump Station Rehabilitation, Jefferson Parish, Louisiana</p> <p>Principal Engineering, Inc. 1011 N Causeway Blvd Ste 19 Mandeville LA 70471</p> <p>Andre Monnot, P.E., 985-624-5001 andre@principal-engineering.com</p>	<p>Geotechnical investigation for below grade pump station replacement. Gulf South drilled 1 boring to 30 feet below the ground surface, provide laboratory testing and geotechnical engineering analyses consisting of allowable soil bearing values, bedding, and backfill recommendations, estimates of settlement, and general construction recommendations.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
March 2012	N/A	\$3,900 (fee)

PROJECT NO. 8		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>New Pump/Lift Station, Airline Park Boulevard at West Metairie Avenue, Jefferson Parish, Louisiana</p> <p>Principal Engineering, Inc. 1011 N Causeway Blvd Ste 19 Mandeville LA 70471</p> <p>Andre Monnot, P.E., 985-624-5001 andre@principal-engineering.com</p>	<p>Geotechnical investigation for a new pump/lift station for Jefferson Parish near the intersection of Airline Park Blvd. and W. Metairie Avenue. Scope of work consisted of performing one soil boring to 50 feet, laboratory testing, and geotechnical engineering analyses consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction recommendations.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
August 2013	N/A	\$5,000 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>St. Peter's Ditch - Phase IV (Pump Station at Clearview), Metairie, Jefferson Parish, Louisiana</p> <p>Jefferson Parish Public Works Department 1221 Elmwood Park Blvd Ste 904 Jefferson LA 70123</p> <p>Reda Youssef, P.E., 504-736-6783 JPPW@jeffparish.net</p>	<p>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.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
October 2016	N/A	\$110,000 (fee)

PROJECT NO. 10		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>N. Sibley Pump Station Improvements, Metairie, Jefferson Parish, Louisiana</p> <p>Digital Engineering 527 W Esplanade Ave Ste 200 Kenner LA 70065</p> <p>Frank T. Liang, P.E., 504-468-6129 fliang@deii.net</p>	<p>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.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
March 2021	N/A	\$20,000 (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.	<div style="border: 1px solid black; padding: 5px;"> <p><i>Gulf South Engineering and Testing, Inc. is not currently, nor has it previously been involved, in litigation with Jefferson Parish.</i></p> </div>	
2.		
3.		
4.		

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



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.

Please refer to our projects noted in our personnel listings in Item K as well as the representative projects shown in Item L for specific project examples and an overview of our surveying experience with Jefferson Parish.

TEC Professional Services Questionnaire

N. continued.

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.

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

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.**

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.

TEC Professional Services Questionnaire

N. continued.

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
- 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 & oversight for projects as small as 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 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

Gulf South has the manpower and equipment to expeditiously complete any task order assigned under this contract. The tasks which would be assigned under this contract are the types of projects we perform and complete each day. Gulf South is thoroughly familiar with the specialized and unique CMT needs required for the projects that may be issued under this contract.

The contract and contractual issues will be overseen by Chad M. Poché, P.E. The technical aspects of tasks assigned to the contract will be managed by Eric A. Paille, C.E.T., ACI, with support and oversight as needed from Brandon A. Paille, ACI; James Tiner, ACI; Joseph H. "Trey" Binder, III, ACI; and Gulf South's various department managers, technicians, and administrative support staff.

TEC Professional Services Questionnaire

N. continued.

As a task or project is awarded to the Gulf South Team, a file number is assigned to the project and all pertinent information is gathered (name, location, contacts, etc.). Brandon A. Paille, ACI will manage the project and assign appropriate personnel to accomplish the task. All field tests and reports are reviewed by Mr. Poché/Mr. Beard and Mr. Paille prior to being sent to the client.

Elements of our task work can include:

- meet with client to discuss project parameters and required tests/inspection
- collect any samples for testing for Proctor tests or pre approval to be used
- visit site as needed and requested to perform tests/inspections
- provide daily reports of findings and results

All field tests and reports are reviewed by Mr. Poché/Mr. Beard and Mr. Paille prior to being sent to the client.

All laboratory tests are reviewed by Gulf South's laboratory manager. Daily Field Reports are prepared and distributed by Gulf South's administrative personnel.

The Gulf South Team will provide all services in a safe and timely manner. We will coordinate with the Port's Project Manager(s) on a regular basis to keep them informed and to coordinate our schedule, work, and deliverables. We guarantee that every project or task assigned to this contract will be given high priority, be done efficiently, and completed accurately, on time, and within budget.

CRITERIA 4 | PAST PERFORMANCE

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.

Please refer to our projects noted in our personnel listings in Item K as well as the representative projects shown in Item L for specific project examples and an overview of our specialized experience and service.

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)

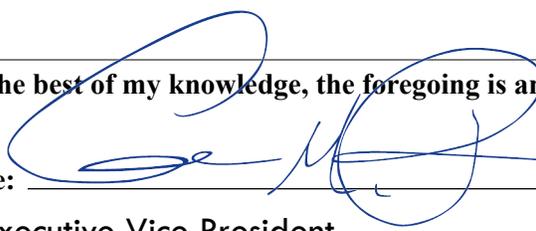
Mark R. Drewes, P.E., Director, Public Works Department, Jefferson Parish
(504-736-6783 | JPPW@jeffparish.net)

Michael B. Cooper, Parish President, St. Tammany Parish
(985-898-2362 | president@stp.gov.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: August 22, 2024



BFM Corporation, LLC.

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Independence Park Drainage Pump Station

SOQ 24-029 | Resolution No. 144443

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:

<u>4</u> Administrative	<u> </u> Estimators	<u> </u> Specification Writers
<u> </u> Architects (Licensed)	<u> </u> Geologists	<u> </u> Structural Engineers
<u> </u> Chemical Engineers	<u>1</u> Geotechnical Engineers	<u> </u> Graduate Engineers
<u> </u> Civil Engineers	<u> </u> Interior Designers	<u>2</u> Project Managers
<u> </u> Construction Inspectors	<u> </u> Landscape Architects	<u> </u> Clerical (<i>see Administrative</i>)
<u> </u> Ecologists	<u>1</u> Land Surveyor (<i>Apprentice</i>)	<u> </u> Grant/Funding Specialist
<u> </u> Electrical Engineers	<u> </u> Mechanical Engineers	<u> </u> Sanitary Engineers
<u> </u> Engineer Intern	<u> </u> Environmental Engineers	<u>1</u> <i>Researcher/Archivist</i>
<u>2</u> Professional Land Surveyors		<u>3</u> <i>CADD Technicians</i>
		<u>6</u> <i>Survey Crew Chief</i>
		<u>6</u> <i>Survey Crew Instrumentman</i>
		<u>26</u> 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: <u>26</u> (all personnel will be available for assignment to the project)		

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:

- Coventry Drainage Pump Station Cross Section Survey Update, River Ridge, Jefferson Parish, LA
- Levee Intake Pump Station Cell Inspection at the New East Bank Water Treatment Plant, Jefferson Parish, LA
- Veterans Boulevard Pump Station, Metairie, Jefferson Parish, LA
- Timberview Lane Sewer Pump Station, Harvey, Jefferson Parish, LA
- Orange Lane Drainage Pump Station Project (Drainage Mapping), Grand Isle, Jefferson Parish, LA
- Bayou Segnette Drainage Pump Station No. 1 Survey Verification, Jefferson Parish, LA
- Coventry Drainage Pump Stations, River Ridge, Jefferson Parish, LA
- North Arnoult Drainage Pump Station Improvements, Jefferson Parish, LA
- Fisher School Phase 2 Levee, Lafitte, Jefferson Parish, LA
- Paillet Basin Tidal Protection Levee, Town of Jean Lafitte, Jefferson Parish, LA
- Westwego Drainage Pump Station No. 1, Jefferson Parish, LA
- Parish Line Pump Station No. 5, Kenner, Jefferson Parish, LA
- Hero Pump Station, Harvey, Jefferson Parish, LA
- Fulton Street Pump Station, Jefferson Parish, LA
- Improvements to Bayou Segnette Drainage Pump Station No. 1, Jefferson Parish, LA
- Goose Bayou Drainage Pump Station, Lafitte, Jefferson Parish, LA
- Drainage Pump Station, Veterans North & South, Right-of-Way, 17th Street Canal, Jefferson Parish, LA
- Drainage Pump Station, West Esplanade and 17th Street Canals, Jefferson Parish, LA
- Ames Boulevard Drainage Pump Station Warehouse, Jefferson Parish, LA
- Bayou Segnette Fronting Protection/New Pump Station, Westwego, Jefferson Parish, LA
- Emergency Generators for Sewer Lift Stations and Helios and West Napoleon Pump Stations, Jefferson Parish, LA
- Morton & Ingrid Pump Station, Jefferson Parish, LA
- Estelle Bridge Crossing at Canal G (Estelle Pump Station No. 2), Jefferson Parish, LA
- Storm Proofing, Ames & Duncan Drainage Pump Stations, Jefferson Parish, LA
- Upper Kraak Pump Station, Jefferson Parish, LA
- Taft Park Pump Station and Drain Line Path, Jefferson Parish, LA
- Clearview Drainage Pump Station and St. Peter's Ditch, Jefferson Parish, LA

TEC Professional Services Questionnaire

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

- Effluent Pump Station & Structures at Harvey Wastewater Treatment Plant, Jefferson Parish, LA
- Paillet Pump Station Access Road and Drainage Improvements, Jefferson Parish, LA
- Taft Park Pump Station and Drain Line Path, Jefferson Parish, LA
- Parish Line Pump Station (Pump Station No. 5), Jefferson Parish, LA
- Estelle Pump Station Survey Update, Jefferson Parish, LA
- Westwego Pump Station No. 2, Jefferson Parish, LA
- Canal "D" Drainage Improvements, Westwego Pump Station Nos. 1 & 2, Jefferson Parish, LA
- Parish-Wide Safe House Program: Planters Pump Station Safe House, Jefferson Parish, LA
- Estelle Pump Station No. 2, Jefferson Parish, LA
- Lake Cataouatche Pump Station, Jefferson Parish, LA
- Estelle Pump Station Boundary Survey, Jefferson Parish, LA
- Harahan Pump-to-the-River, Jefferson Parish, LA
- Emergency Generators at 13 Pump Station Sites, Jefferson Parish, LA
- Parish-Wide Safe House Program: West Bank Water Treatment Plant Safe House, Jefferson Parish, LA
- Parish-Wide Safe House Program: East Bank Water Plant Safe House, Jefferson Parish, LA
- Parish-Wide Safe House Program: Waverly Street Pump Station Safe House, Jefferson Parish, LA
- Parish-Wide Safe House Program: Whitney-Barataria Pump Station Safe House, Jefferson Parish, LA
- Parish-Wide Safe House Program: Westwego No. 1 Pump Station Safe House, Jefferson Parish, LA
- Parish-Wide Safe House Program: Lake Cataouatche II Pump Station Safe House, Jefferson Parish, LA
- Parish-Wide Safe House Program: Canal Street Pump Station Safe House, Jefferson Parish, LA
- Parish-Wide Safe House Program: Bonnabel Pump Station Safe House, Jefferson Parish, LA
- Parish-Wide Safe House Program: Parish Line Pump Station Safe House, Jefferson Parish, LA
- Parish-Wide Safe House Program: Westminster-Lincolnshire PS Safe House, Jefferson Parish, LA
- Parish-Wide Safe House Program: Bayou Segnette Pump Station Safe House, Jefferson Parish, LA
- Parish-Wide Safe House Program: Estelle Pump Station No. 2 Safe House, Jefferson Parish, LA
- Parish-Wide Safe House Program: Cousins Pump Station Safe House, Jefferson Parish, LA
- Parish-Wide Safe House Program: Duncan Pump Station Safe House, Jefferson Parish, LA
- Parish-Wide Safe House Program: Suburban Pump Station Safe House, Jefferson Parish, LA
- Parish-Wide Safe House Program: Elmwood Pump Station Safe House, Jefferson Parish, LA
- Parish-Wide Safe House Program: Hero Pump Station Safe House, Jefferson Parish, LA
- Lift Stations F6-11 & G6-4, Jefferson Parish, LA
- Rehabilitation of Sewer Lift Station F7-13 at Veterans Blvd & Neyrey Dr, Metairie, Jefferson Parish, LA
- Rehabilitation of Sewer Lift Station D4-7A at Sauve Rd & Generes Dr, Harahan, Jefferson Parish, LA
- Sewer Lift Station at Midway Drive & Soniat Canal, Harahan, Jefferson Parish, LA
- Proposed Sewer Lift Station Near Ehret Road & Broas Drive, Jefferson Parish, LA
- Sewer Lift Station D4-5 (S. Laurel Street & Mistletoe Street), Metairie, Jefferson Parish, LA

TEC Professional Services Questionnaire

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

- 2700 Destrehan Sewer Lift Station Servitude Survey, Harvey, Jefferson Parish, LA
- Sewer Lift Station Sites (G8-1, G8-3, & H8-4B) & Sewer Force Main Construction Survey, Jefferson Parish, LA
- Sewer Lift Station L-11-1, Saddler Road at West Bank Expressway, Marrero, Jefferson Parish, LA
- Sewer Lift Station F8-3, W. Esplanade Avenue at Houma Boulevard, Metairie, Jefferson Parish, LA
- Sewer Lift Station (Coventry Court & Jefferson Highway), River Ridge, Jefferson Parish, LA
- Sewer Lift Station K-11-1, Marrero, Jefferson Parish, LA
- Lift Station F8-3, Metairie, Jefferson Parish, LA
- Destrehan Lift Station Upgrades, Jefferson Parish, LA
- Destrehan Lift Station Upgrades, Harvey, Jefferson Parish, LA
- Sewer Lift Station L-13-6, Ehret Road, Marrero, Jefferson Parish, LA
- Sewer Lift Station Upgrades (5th Avenue and 9th Street), Harvey, Jefferson Parish, LA
- Lift Station E3-2 (Elmwood & Citrus), Metairie, Jefferson Parish, LA
- Saddler Street Sewer Lift Station, Marrero, Jefferson Parish, LA
- Lift Station No. 6 Improvements, City of Harahan, Jefferson Parish, LA
- Lift Station K-11-3, Marrero, Jefferson Parish, LA
- Lift Station F7-12 (Grace King and Rockford), Metairie, Jefferson Parish, LA
- Lift Station F7-13B (SCIP Project No. D55102), Jefferson Parish, LA
- Lift Station E5-4, Jefferson Parish, LA
- Lift Station F1-1, Elmwood Industrial Park Subdivision, Jefferson Parish, LA
- Sewer Lift Station Generator Installation (L-11-2, West Bank Expressway & Eiseman, SCIP D2532), Marrero, Jefferson Parish, LA
- Lift Station G4-2B Sewer Lift Station Rehabilitation (Scott St at Causeway Blvd), Jefferson Parish, LA
- Lift Station C4-1A (N. Sibley and Boone), Metairie, Jefferson Parish, LA
- Lift Station F1-1, Elmwood Industrial Park Subdivision, Jefferson Parish, LA
- Kennedy Heights Sewer Lift Station C9-2 (Live Oak Boulevard), Westwego, Jefferson Parish, LA
- N-12-1 (41st & Gardere Canal) Lift Station, Jefferson Parish, LA
- Cleary Avenue & West Napoleon Lift Station & Force Main, Jefferson Parish, LA
- Rehabilitation of D8-3 Lift Station (Purdue Drive & 37th Street), Metairie, Jefferson Parish, LA
- N-12-1 (41st & Gardere Canal) Lift Station, Jefferson Parish, LA
- Route Topographic (including Lift Station/Force Main) Surveying Services, Jefferson Parish, LA
- Lift Station D4-2 and Proposed D4-2B Surveying Services, Metairie, Jefferson Parish, LA
- Lakeside Mall Lift Station Servitude, Jefferson Parish, LA
- Elizabeth & Utica Sewerage Lift Station, 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:

Years' experience with this Firm:
7 years (became partial owner of BFM in 2017); 31 years total (1993)
<i>BFM Corporation, LLC 2017 to present</i> <i>Gulf South Engineering and Testing, Inc. 2011 to present</i> <i>Ardaman and Associates, Inc. 2007 to 2011</i> <i>Soil Testing Engineers, Inc. 2001 to 2007</i> <i>Eustis Engineering 1996 to 2001</i> <i>Soil Testing Engineers, Inc. 1993 to 1996</i>
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:
<p>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.</p> <p>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.</p>

TEC Professional Services Questionnaire

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

Coventry Drainage Pump Stations, River Ridge, Jefferson Parish, LA. BFM Corporation provided a Route Topographic Survey with Hydrographic Survey for the project, located in River Ridge, Louisiana. The levee and hydrographic survey area was noted as 400 feet wide (200 ft. in either direction of the extended centerline of Colonial Heights Road). The hydrographic survey extended 500 feet into the river from the water's edge. The full scope of the project also included research of public land records; location of property corners; establishing a baseline along the rear property line and; establishing Temporary Benchmarks. Existing improvements were located, as well as visible above ground utilities and those underground utilities with visible surface evidence. The survey further determined the depth, size, and type of pipes within surface observable drainage, sewerage, and water structures as established above. Trees were also located. Spot elevations were taken at 50-foot intervals within the Limits of Survey. (\$89,780 (fee); 2020)

Orange Lane Pump Station Project, Grand Isle, Jefferson Parish, LA. The project consists of a new storm water pumping station on the intersection of Orange Lane at Orleans Avenue in Grand Isle, Louisiana. The scope of services includes obtaining topographical survey information and the preparation of a drainage map for the project. Phase 1 of the project involved the topographic and right of way surveying services; BFM conducted a site topographic survey at the proposed lift station site and provided boundary surveying to determine rights of way. Phase 2 of the project established the Drainage Map. BFM located all drainage structures within the Limits of Survey; this included ditches, culverts, drain inlets, and catch basins. A drone survey was executed to gather a 25 ft elevation grid throughout the project area. (\$32,280 (fee); 2020)

Fulton Street Pump Station, Jefferson Parish, LA. BFM Corporation provided boundary with topographic survey for the Fulton Street Pump Station project. The scope of services included establishing horizontal control, setting Temporary Benchmarks, and plotting the location of improvements & topographic elements (man-made and natural). BFM also determined the depth, size, and type of pipes within surface observable drainage, sewerage, and water structures as established. For the topographic survey, spot elevations did not exceed a 25-foot grid within the Limits of Survey and included bottom of canal elevations along adjacent wall. (\$11,890 (fee); 2017)

North Arnoult Drainage Pump Station Improvements, Jefferson Parish, LA. Project involved a boundary with topographic survey, establishing a baseline parallel to the right-of-way. Points of intersection set were referenced by 3-point ties to topographic features in the area. Two temporary benchmarks were established. Existing improvements were located, including utilities, piping, and natural elements. Building corners within the limits of survey were also located, as were property corners in order to determine the rights-of-way and property boundary limits. (\$6,870 (fee); 2019)

Hero Pump Station, Harvey, Jefferson Parish, LA. BFM provided topographic surveying services for the project. (\$16,380 (fee); 2018)

Westwego Drainage Pump Station No. 1, Jefferson Parish, LA. BFM Corporation provided services for a Limited Topographic Survey at the project site, Westwego Drainage Pump No. 1. The scope of services first re-established Site Horizontal and Vertical control, as these were established as part of a previous BFM project (BFM No. 9730). Services next included locating existing improvements within the designated Limits of Survey, taking elevations and cross sections, and verification of piping and utilities. (\$4,725 (fee); 2018)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
<p>Gary J. Lambert, Jr., PLS Vice President / Registered Professional Land Surveyor</p>	
Project Assignment:	
Project Manager/Drafting Supervisor	
Name of Firm with which associated:	
	
Years' experience with this Firm:	
6 years (joined BFM in 2018); 13 years total (2011)	<i>BFM Corporation, LLC 2018 to present</i> <i>Riverlands Surveying 2016 to 2018</i> <i>Bertucci Contracting 2011 to 2016</i>
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:	
<p>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.</p> <p>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.</p> <p>Mr. Lambert has completed Basic OSHA Training and holds license with the Gulf Coast Safety Council (08SSV, ID429523).</p>	

TEC Professional Services Questionnaire

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

North Arnoult Drainage Pump Station Improvements, Jefferson Parish, LA. Project involved a boundary with topographic survey, establishing a baseline parallel to the right-of-way. Points of intersection set were referenced by 3-point ties to topographic features in the area. Two temporary benchmarks were established. Existing improvements were located, including utilities, piping, and natural elements. Building corners within the limits of survey were also located, as were property corners in order to determine the rights-of-way and property boundary limits. (\$6,870 (fee); 2019)

Coventry Drainage Pump Stations, River Ridge, Jefferson Parish, LA. BFM Corporation provided a Route Topographic Survey with Hydrographic Survey for the project, located in River Ridge, Louisiana. The levee and hydrographic survey area was noted as 400 feet wide (200 ft. in either direction of the extended centerline of Colonial Heights Road). The hydrographic survey extended 500 feet into the river from the water's edge. The full scope of the project also included research of public land records; location of property corners; establishing a baseline along the rear property line and; establishing Temporary Benchmarks. Existing improvements were located, as well as visible above ground utilities and those underground utilities with visible surface evidence. The survey further determined the depth, size, and type of pipes within surface observable drainage, sewerage, and water structures as established above. Trees were also located. Spot elevations were taken at 50-foot intervals within the Limits of Survey. (\$89,780 (fee); 2020)

Orange Lane Pump Station Project, Grand Isle, Jefferson Parish, LA. The project consists of a new storm water pumping station on the intersection of Orange Lane at Orleans Avenue in Grand Isle, Louisiana. The scope of services includes obtaining topographical survey information and the preparation of a drainage map for the project. Phase 1 of the project involved the topographic and right of way surveying services; BFM conducted a site topographic survey at the proposed lift station site and provided boundary surveying to determine rights of way. Phase 2 of the project established the Drainage Map. BFM located all drainage structures within the Limits of Survey; this included ditches, culverts, drain inlets, and catch basins. A drone survey was executed to gather a 25 ft elevation grid throughout the project area. (\$32,280 (fee); 2020)

Bayou Segnette Drainage Pump Station No. 1 Survey Verification, Jefferson Parish, LA. BFM Corporation provided surveying services to verify horizontal and vertical control for the project site; an extension of a previous BFM project (#9303) where the firm provided topographic surveying services. Full documentation for the horizontal and vertical values of the control points established was provided. (\$550 (fee); 2020)

Veterans Boulevard Pump Station, Metairie, Jefferson Parish, LA. BFM executed a Survey Control Verification for the project; scope included locating and verifying the horizontal and vertical control points from a previous BFM surveying project (No. 8244; 2013/2014); a minimum of 2 horizontal and 1 vertical control points were to be provided per site. Project deliverables included a detailed indelible print with an aerial background image clearly showing point location, Northing, Easting, elevation, and description, and a high-resolution PDF of the document. (\$2,975 (fee); 2023)

Coventry Drainage Pump Station Cross Section Survey Update, River Ridge, Jefferson Parish, LA. BFM Corporation provided a single cross section for the project which then updated a previous BFM Survey Project (No. 101214) in order to include the information obtained under this scope of work. (\$6,775 (fee); 2023)

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); *BFM Corporation, LLC | 2014 to present*
18 years total (2006) *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.

Goose Bayou Drainage Pump Station, Lafitte, Jefferson Parish, LA. BFM provided boundary and topographic surveying services; this included obtaining available title data, supplemented with courthouse research. Located property corners to establish rights-of-way, setting a closed traverse around the site, establishing Temporary Benchmarks, taking elevations, and plotting the location of improvements & topographic features, both natural and man-made. Also included producing cross sections and plotting spot elevations on paving or other hard surfaces. (\$11,905 (fee); 2016)

Fulton Street Pump Station, Jefferson Parish, LA. BFM provided boundary with topographic survey for the project. The scope included establishing horizontal control, setting Temporary Benchmarks, and plotting the location of improvements & topographic elements (man-made and natural). BFM also determined the depth, size, and type of pipes within surface observable drainage, sewerage, and water structures as established. For the topographic survey, spot elevations did not exceed a 25-foot grid within the Limits of Survey and included bottom of canal elevations along adjacent wall. (\$11,890 (fee); 2017)

TEC Professional Services Questionnaire

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

Westwego Drainage Pump Station No. 1, Jefferson Parish, LA. BFM Corporation provided services for a Limited Topographic Survey at the project site, Westwego Drainage Pump No. 1. The scope of services first re-established Site Horizontal and Vertical control, as these were established as part of a previous BFM project (BFM No. 9730). Services next included locating existing improvements within the designated Limits of Survey, taking elevations and cross sections, and verification of piping and utilities. (\$4,725 (fee); 2018)

North Arnoult Drainage Pump Station Improvements, Jefferson Parish, LA. Project involved a boundary with topographic survey, establishing a baseline parallel to the right-of-way. Points of intersection set were referenced by 3-point ties to topographic features in the area. Two temporary benchmarks were established. Existing improvements were located, including utilities, piping, and natural elements. Building corners within the limits of survey were also located, as were property corners in order to determine the rights-of-way and property boundary limits. (\$6,870 (fee); 2019)

Coventry Drainage Pump Stations, River Ridge, Jefferson Parish, LA. BFM Corporation provided a Route Topographic Survey with Hydrographic Survey for the project, located in River Ridge, Louisiana. The levee and hydrographic survey area was noted as 400 feet wide (200 ft. in either direction of the extended centerline of Colonial Heights Road). The hydrographic survey extended 500 feet into the river from the water's edge. The full scope of the project also included research of public land records; location of property corners; establishing a baseline along the rear property line and; establishing Temporary Benchmarks. Existing improvements were located, as well as visible above ground utilities and those underground utilities with visible surface evidence. The survey further determined the depth, size, and type of pipes within surface observable drainage, sewerage, and water structures as established above. Trees were also located. Spot elevations were taken at 50-foot intervals within the Limits of Survey. (\$89,780 (fee); 2020)

Bayou Segnette Drainage Pump Station No. 1 Survey Verification, Jefferson Parish, LA. BFM Corporation provided surveying services to verify horizontal and vertical control for the project site; an extension of a previous BFM project (#9303) where the firm provided topographic surveying services. Full documentation for the horizontal and vertical values of the control points established was provided. (\$550 (fee); 2020)

Levee Intake Pump Station Cell Inspection at the New East Bank Water Treatment Plant, Jefferson Parish, LA. BFM was selected by Jefferson Parish to provide a cell inspection survey for the project. Diving services were subcontracted to Specialty Diving of Louisiana, with BFM personnel supervising all data collection and resultant underwater 3D scanning (Teledyne BlueView BV5000, 3D Mechanical Scanning Sonar). (\$8,175 (fee); 2023)

Orange Lane Pump Station Project, Grand Isle, Jefferson Parish, LA. The project consists of a new storm water pumping station on the intersection of Orange Lane at Orleans Avenue in Grand Isle, Louisiana. The scope of services includes obtaining topographical survey information and the preparation of a drainage map for the project. Phase 1 of the project involved the topographic and right of way surveying services; BFM conducted a site topographic survey at the proposed lift station site and provided boundary surveying to determine rights of way. Phase 2 of the project established the Drainage Map. BFM located all drainage structures within the Limits of Survey; this included ditches, culverts, drain inlets, and catch basins. A drone survey was executed to gather a 25 ft elevation grid throughout the project area. (\$32,280 (fee); 2020)

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); *BFM Corporation, LLC | 2008 to present*
17 years total (2007) *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.

Westwego Drainage Pump Station No. 1, Jefferson Parish, LA. BFM provided services for a Limited Topographic Survey at the project site. The scope first re-established Site Horizontal and Vertical control, as these were established as part of a previous BFM project (No. 9730). Services next included locating existing improvements within the designated Limits of Survey, taking elevations and cross sections, and verification of piping and utilities. (\$4,725 (fee); 2018)

Hero Pump Station, Harvey, Jefferson Parish, LA. BFM provided topographic surveying services for the project. (\$16,380 (fee); 2018)

Fulton Street Pump Station, Jefferson Parish, LA. BFM provided boundary with topographic survey for the project. The scope included establishing horizontal control, setting Temporary Benchmarks, and plotting the location of improvements & topographic elements (man-made and natural). BFM also determined the depth, size, and type of pipes within surface observable drainage, sewerage, and water structures as established. For the topographic survey, spot elevations did not exceed a 25-foot grid within the Limits of Survey and included bottom of canal elevations along adjacent wall. (\$11,890 (fee); 2017)

TEC Professional Services Questionnaire

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

Improvements to Bayou Segnette Drainage Pump Station No. 1, Jefferson Parish, LA. BFM provided topographic surveying services for the project. (\$13,650 (fee); 2016)

Goose Bayou Drainage Pump Station, Lafitte, Jefferson Parish, LA. BFM Corporation provided boundary and topographic surveying services for the project. The scope of services included obtaining available title data, supplemented with courthouse research. BFM located property corners to establish rights-of-way, setting a closed traverse around the site, establishing Temporary Benchmarks (TBM), taking elevations, and plotting the location of improvements and topographic features, both natural and man-made. The scope of services included producing cross sections and plotting spot elevations on paving or other hard surfaces. (\$11,905 (fee); 2016)

Drainage Pump Station, West Esplanade and 17th Street Canals, Jefferson Parish, LA. Topographic survey with right of way and underground utilities for proposed pump stations. (\$5,976 (fee); 2014)

Drainage Pump Station, Veterans North & South, Right-of-Way, 17th Street Canal, Jefferson Parish, LA. BFM prepared a topographic survey (with right of way & underground utilities locations) for this proposed pump station project. (\$26,540 (fee); 2014)

Emergency Generators for Sewer Lift Stations and Helios and West Napoleon Pump Stations, Jefferson Parish, LA. BFM prepared topographic surveys at the Helios PS and at the West Napoleon PS for the placement of emergency generators. (\$5,888 (fee); 2012)

Harahan Pump-to-the-River, Jefferson Parish, LA. Starting in the mid 00s, BFM Corporation has been providing various surveying services to the Pump To The River project located in Harahan, Louisiana. Project work has involved setting offsite control; this included tying in to the baseline with station/offset (with northing and easting). BFM also surveyed the route for the pipeline and pump station site, starting at Mazoue Ditch/Soniat Canal intersection, and over to land adjacent to the existing Sewer treatment plant (parallel with Hickory Avenue to the Mississippi River). For the next element, BFM took soundings in the River; two lines 75 ft. apart and 200 ft. out into the river every 25 ft. BFM created legals for permanent and temporary servitudes, and provided additional topographic surveying necessary for a west-ward shift. BFM later provided updates to the overall topographic survey and provided surveying for the right-of-way and DOTD boundary. The most recent element involved writing legals for permanent and temporary servitudes for the outfall portion of the project. (2005 thru 2012)

Upper Kraak Pump Station, Jefferson Parish, LA. BFM provided topographic surveying services for the project. (\$14,895 (fee); 2010)

Paillet Pump Station Access Road and Drainage Improvements, Jefferson Parish, LA. BFM provided topographic surveying services for the project. (\$19,637 (fee); 2009)

Effluent Pump Station & Structures at Harvey Wastewater Treatment Plant, Jefferson Parish, LA. BFM provided surveying services to locate the effluent pump station and all structures for a section of the Harvey WWTP in Jefferson Parish. The project also included all necessary topographic surveying services. (\$2,418 (fee); 2009)

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)	<i>BFM Corporation, LLC 2009 to present</i> <i>Fluor Corporation 2007 to 2009</i> <i>Geographic Computer Technologies, LLC 2000 to 2007</i>
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:	
<p>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.</p> <p>Goose Bayou Drainage Pump Station, Lafitte, Jefferson Parish, LA. BFM Corporation provided boundary and topographic surveying services for the project. The scope of services included obtaining available title data, supplemented with courthouse research. BFM located property corners to establish rights-of-way, setting a closed traverse around the site, establishing Temporary Benchmarks (TBM), taking elevations, and plotting the location of improvements and topographic features, both natural and man-made. The scope of services included producing cross sections and plotting spot elevations on paving or other hard surfaces. (\$11,905 (fee); 2016)</p> <p>Fulton Street Pump Station, Jefferson Parish, LA. BFM Corporation provided boundary with topographic survey for the Fulton Street Pump Station project. The scope of services included establishing horizontal control, setting Temporary Benchmarks, and plotting the location of improvements & topographic elements (man-made and natural). BFM also determined the depth, size, and type of pipes within surface observable drainage, sewerage, and water structures as established. For the topographic survey, spot elevations did not exceed a 25-foot grid within the Limits of Survey and included bottom of canal elevations along adjacent wall. (\$11,890 (fee); 2017)</p>	

TEC Professional Services Questionnaire

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

Westwego Drainage Pump Station No. 1, Jefferson Parish, LA. BFM Corporation provided services for a Limited Topographic Survey at the project site, Westwego Drainage Pump No. 1. The scope of services first re-established Site Horizontal and Vertical control, as these were established as part of a previous BFM project (BFM No. 9730). Services next included locating existing improvements within the designated Limits of Survey, taking elevations and cross sections, and verification of piping and utilities. (\$4,725 (fee); 2018)

North Arnoult Drainage Pump Station Improvements, Jefferson Parish, LA. Project involved a boundary with topographic survey, establishing a baseline parallel to the right-of-way. Points of intersection set were referenced by 3-point ties to topographic features in the area. Two temporary benchmarks were established. Existing improvements were located, including utilities, piping, and natural elements. Building corners within the limits of survey were also located, as were property corners in order to determine the rights-of-way and property boundary limits. (\$6,870 (fee); 2019)

Coventry Drainage Pump Stations, River Ridge, Jefferson Parish, LA. BFM Corporation provided a Route Topographic Survey with Hydrographic Survey for the project, located in River Ridge, Louisiana. The levee and hydrographic survey area was noted as 400 feet wide (200 ft. in either direction of the extended centerline of Colonial Heights Road). The hydrographic survey extended 500 feet into the river from the water's edge. The full scope of the project also included research of public land records; location of property corners; establishing a baseline along the rear property line and; establishing Temporary Benchmarks. Existing improvements were located, as well as visible above ground utilities and those underground utilities with visible surface evidence. The survey further determined the depth, size, and type of pipes within surface observable drainage, sewerage, and water structures as established above. Trees were also located. Spot elevations were taken at 50-foot intervals within the Limits of Survey. (\$89,780 (fee); 2020)

Orange Lane Pump Station Project, Grand Isle, Jefferson Parish, LA. The project consists of a new storm water pumping station on the intersection of Orange Lane at Orleans Avenue in Grand Isle, Louisiana. The scope of services includes obtaining topographical survey information and the preparation of a drainage map for the project. Phase 1 of the project involved the topographic and right of way surveying services; BFM conducted a site topographic survey at the proposed lift station site and provided boundary surveying to determine rights of way. Phase 2 of the project established the Drainage Map. BFM located all drainage structures within the Limits of Survey; this included ditches, culverts, drain inlets, and catch basins. A drone survey was executed to gather a 25 ft elevation grid throughout the project area. (\$32,280 (fee); 2020)

Bayou Segnette Drainage Pump Station No. 1 Survey Verification, Jefferson Parish, LA. BFM Corporation provided surveying services to verify horizontal and vertical control for the project site; an extension of a previous BFM project (#9303) where the firm provided topographic surveying services. Full documentation for the horizontal and vertical values of the control points established was provided. (\$550 (fee); 2020)

Coventry Drainage Pump Station Cross Section Survey Update, River Ridge, Jefferson Parish, LA. BFM Corporation provided a single cross section for the project which then updated a previous BFM Survey Project (No. 101214) in order to include the information obtained under this scope of work. (\$6,775 (fee); 2023)

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); <i>BFM Corporation, LLC 2011 to present</i> 33 years total (1991) <i>Krebs LaSalle Lemieux / GEC 2008 to 2011</i> <i>Doug Connally and Associates Land Surveying (Dallas, TX) 1995-2008</i> <i>Electrician 1991 to 1995</i> <i>City of Plano TX (Part-Time Drafting Services) 1991</i>
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:
<p>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.</p> <p>Orange Lane Pump Station Project, Grand Isle, Jefferson Parish, LA. The project consists of a new storm water pumping station on the intersection of Orange Lane at Orleans Avenue in Grand Isle, Louisiana. The scope of services includes obtaining topographical survey information and the preparation of a drainage map for the project. Phase 1 of the project involved the topographic and right of way surveying services; BFM conducted a site topographic survey at the proposed lift station site and provided boundary surveying to determine rights of way. Phase 2 of the project established the Drainage Map. BFM located all drainage structures within the Limits of Survey; this included ditches, culverts, drain inlets, and catch basins. A drone survey was executed to gather a 25 ft elevation grid throughout the project area. (\$32,280 (fee); 2020)</p> <p>Coventry Drainage Pump Stations, River Ridge, Jefferson Parish, LA. BFM Corporation provided a Route Topographic Survey with Hydrographic Survey for the project, located in River Ridge, Louisiana. The levee and hydrographic survey area was noted as 400 feet wide (200 ft. in either</p>

TEC Professional Services Questionnaire

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

direction of the extended centerline of Colonial Heights Road). The hydrographic survey extended 500 feet into the river from the water's edge. The full scope of the project also included research of public land records; location of property corners; establishing a baseline along the rear property line and; establishing Temporary Benchmarks. Existing improvements were located, as well as visible above ground utilities and those underground utilities with visible surface evidence. The survey further determined the depth, size, and type of pipes within surface observable drainage, sewerage, and water structures as established above. Trees were also located. Spot elevations were taken at 50-foot intervals within the Limits of Survey. (\$89,780 (fee); 2020)

Goose Bayou Drainage Pump Station, Lafitte, Jefferson Parish, LA. BFM Corporation provided boundary and topographic surveying services for the project. The scope of services included obtaining available title data, supplemented with courthouse research. BFM located property corners to establish rights-of-way, setting a closed traverse around the site, establishing Temporary Benchmarks (TBM), taking elevations, and plotting the location of improvements and topographic features, both natural and man-made. The scope of services included producing cross sections and plotting spot elevations on paving or other hard surfaces. (\$11,905 (fee); 2016)

Parish Line Pump Station No. 5, Kenner, Jefferson Parish, LA. BFM's surveying services included setting control points (recover existing control references) and verification of existing control (horizontal & vertical values on new control points). (\$2,175 (fee), 2018)

Hero Pump Station, Harvey, Jefferson Parish, LA. BFM Corporation provided topographic surveying services for the project. (\$16,380 (fee); 2018)

Improvements to Bayou Segnette Drainage Pump Station No. 1, Jefferson Parish, LA. BFM provided topographic surveying services for the project. (\$13,650 (fee); 2016)

Drainage Pump Station, Veterans North & South, Right-of-Way, 17th Street Canal, Jefferson Parish, LA. BFM prepared a topographic survey (with right of way & underground utilities locations) for this proposed pump station project. (\$26,540 (fee); 2014)

Drainage Pump Station, West Esplanade and 17th Street Canals, Jefferson Parish, LA. Topographic survey with right of way and underground utilities for proposed pump stations. (\$5,976 (fee); 2014)

Ames Boulevard Drainage Pump Station Warehouse, Jefferson Parish, LA. BFM provided topographic surveying services for a new warehouse building at the Ames Boulevard Pumping Station. (2014)

Bayou Segnette Fronting Protection/New Pump Station, Westwego, Jefferson Parish, LA. BFM's surveying services included establishment of vertical control for a new pump station. Total Station services were utilized for the project. (\$3,435 (fee); 2012)

Morton & Ingrid Pump Station, Jefferson Parish, LA. BFM executed a topographic survey, beginning at the Morton & Ingrid Pump Station, with said survey running along Morton Street to Elizabeth Street then continuing along Elizabeth Street towards West Napoleon Avenue and ending at the Elizabeth Street Pump Station. (\$27,500 (fee); 2012)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Kevin A. Roberts CADD Technician (AutoCADD Drafting Services)	
Project Assignment:	
CADD Technician (AutoCADD Drafting Services)	
Name of Firm with which associated:	
	
Years' experience with this Firm:	
6 years (joined BFM in 2018); 39 years total (1985)	<i>BFM Corporation, LLC 2018 to present</i> <i>J.V. Burkes and Associates 2017 to 2018</i> <i>Evans-Graves Engineers 2003 to 2017</i> <i>J. Ray McDermott 2002 to 2003</i> <i>MECO (Drafting Dept) 2002 to 2003</i> <i>Advanced Commercial Contracting (Drafting Dept) 1999 to 2002</i> <i>SOTEC (Drafting Dept) 1999</i> <i>UNO Purchasing & Physical Plant Depts. 1985 to 1997</i>
Education: Degree(s)/Year/Specialization:	
A.D., 1999, Drafting & Design, Louisiana Technical College Coursework, 1994-1997, Nunez Community College Coursework, 1984-1988, Delgado Community College Coursework, 1982-1983, University of New Orleans	
Active Registration: Year first registered/discipline:	
N/A	
Other experience and qualifications relevant to the proposed Project:	
<p>Kevin Roberts has direct drafting experience with civil engineering, offshore engineering, water purification systems, and general architectural and construction design & terminology. He joined BFM in 2018 and provides drafting services to the firm.</p> <p>Coventry Drainage Pump Stations, River Ridge, Jefferson Parish, LA. BFM Corporation provided a Route Topographic Survey with Hydrographic Survey for the project, located in River Ridge, Louisiana. The levee and hydrographic survey area was noted as 400 feet wide (200 ft. in either direction of the extended centerline of Colonial Heights Road). The hydrographic survey extended 500 feet into the river from the water's edge. The full scope of the project also included research of public land records; location of property corners; establishing a baseline along the rear property line and; establishing Temporary Benchmarks. Existing improvements were located, as well as visible above ground utilities and those underground utilities with visible surface evidence. The survey further determined the depth, size, and type of pipes within surface observable drainage, sewerage, and water structures as established above. Trees were also located. Spot elevations were taken at 50-foot intervals within the Limits of Survey. (\$89,780 (fee); 2020)</p>	

TEC Professional Services Questionnaire

Other experience and qualifications: **Kevin A. Roberts (continued)**

North Arnoult Drainage Pump Station Improvements, Jefferson Parish, LA. Project involved a boundary with topographic survey, establishing a baseline parallel to the right-of-way. Points of intersection set were referenced by 3-point ties to topographic features in the area. Two temporary benchmarks were established. Existing improvements were located, including utilities, piping, and natural elements. Building corners within the limits of survey were also located, as were property corners in order to determine the rights-of-way and property boundary limits. (\$6,870 (fee); 2019)

Fisher School Phase 2 Levee, Lafitte, Jefferson Parish, LA. For this project, BFM established a Temporary Benchmark (TBM) on both ends of the proposed Fisher School Phase 2 Levee project in order to establish site elevations for the project's engineer. BFM further confirmed the Top of Wall elevation near the end of the Phase 1 project location, which was at Fleming Park Road. Per engineer request, a second TBM was set near the project site's pump station. (\$950 (fee); 2019)

Coventry Drainage Pump Station Cross Section Survey Update, River Ridge, Jefferson Parish, LA. BFM Corporation provided a single cross section for the project which then updated a previous BFM Survey Project (No. 101214) in order to include the information obtained under this scope of work. (\$6,775 (fee); 2023)

Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA. BFM Corporation executed a Route Topographic Survey for the Allo Street project area, which extended from 4th Street to 6th Street. A baseline was established along the centerline of Allo Street, with Temporary Benchmarks at each intersection along the route. Cross sections taken on a 25 ft. grid. Existing improvements were located within the designated Limits of Survey, as were visible above-ground and underground utilities, piping, and natural features including trees and shrubbery. (\$12,855 (fee); 2019)

Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, LA. BFM Corporation provided Route Topographic Surveying for this Drainage Evaluation Project (PW 2018-024-DR) in Jefferson Parish. The scope of services included a full Route Topographic Survey (includes all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work) from gutter line to gutter line along Metairie Road from the westerly apparent right-of-way (ROW) of Causeway Boulevard to easterly apparent R/W of Focis Street. The project encompassed approximately 10,400 linear feet, with cross-sections and elevations surveyed included as part of the scope. (\$18,350 (fee); 2020)

Lafitte Drainage Project, Town of Jean Lafitte, Jefferson Parish, LA. BFM Corporation provided Route Topographic Surveying services for a proposed drainage servitude project in the Town of Jean Lafitte in Jefferson Parish, LA. The project built on a previous BFM project (No. 10309). The project also included provision of boundary surveying in order to provide a servitude plat with legal description. The topographic survey element included establishing a baseline along the route, location of existing improvements, location of drainage, sewerage, and water structures, locating trees and drip lines, and taking spot elevations. For the Servitude Survey, BFM located property corners on the affected properties, and adjacent lots, to verify the boundary. Deliverables included a detailed indelible prints and high-resolution PDFs, cross sections & Three-Point TIE worksheet, a metes-and-bounds legal description of the servitude, and AutoCAD drawing files in DWG format. (\$11,875 (fee); 2022)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Will Farber, E.I. Land Surveyor Apprentice/Drafting Services	
Project Assignment:	
Land Surveyor Apprentice/Drafting Services	
Name of Firm with which associated:	
 Professional Land & Hydrographic Surveying	
Years' experience with this Firm:	
2 years (joined BFM in 2022); 12 years total (2012)	<i>BFM Corporation, LLC 2022 to present</i> <i>Statewide Land Surveying 2022</i> <i>AKS Engineering & Forestry 2020 to 2022</i> <i>Bridge Diagnostics Inc. 2018 to 2020</i>
Education: Degree(s)/Year/Specialization:	
B.S., 2018, Civil Engineering (minor in Surveying), LSU	
Active Registration: Year first registered/discipline:	
2018, Engineer Intern (Louisiana, No. 33903)	
Other experience and qualifications relevant to the proposed Project:	
<p>Will Farber, E.I., serves as a Land Surveyor Apprentice; his work with BFM includes survey field services and CADD drafting services (including Civil 3D). His experience also includes working with Leica Infinity, Carlson, InfraWorks, and ReCap, and has worked with Total Station for land surveying, bathometry, and photogrammetry. Will's past experience includes providing services as an NDE Field Engineer for numerous projects with several types of field inspection testing & monitoring methods; this included Photogrammetry, ultraseismic testing, ground penetrating radar (GPR), and infrared thermography, among others. This project work has included bridge dams, culverts, telecommunication structures, pavements, and other civil infrastructures.</p> <p>Veterans Boulevard Pump Station, Metairie, Jefferson Parish, LA. BFM executed a Survey Control Verification for the project; scope included locating and verifying the horizontal and vertical control points from a previous BFM surveying project (No. 8244; 2013/2014); a minimum of 2 horizontal and 1 vertical control points were to be provided per site. Project deliverables included a detailed indelible print with an aerial background image clearly showing point location, Northing, Easting, elevation, and description, and a high-resolution PDF of the document. (\$2,975 (fee); 2023)</p> <p>Coventry Drainage Pump Station Cross Section Survey Update, River Ridge, Jefferson Parish, LA. BFM Corporation provided a single cross section for the project which then updated a previous BFM Survey Project (No. 101214) in order to include the information obtained under this scope of work. (\$6,775 (fee); 2023)</p>	

TEC Professional Services Questionnaire

Other experience and qualifications: **Will Farber, E.I. (continued)**

Levee Intake Pump Station Cell Inspection at the New East Bank Water Treatment Plant, Jefferson Parish, LA. BFM Corporation was selected by Jefferson Parish to provide a cell inspection survey for the project. Diving services were subcontracted to Specialty Diving of Louisiana, with BFM personnel supervising all data collection and resultant underwater 3D scanning (Teledyne BlueView BV5000, 3D Mechanical Scanning Sonar). (\$8,175 (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)

Rehabilitation of Sewer Lift Station D4-7A at Sauve Road and Generes Drive, Harahan, Jefferson Parish, LA. BFM was contracted to prepare a Topographic Survey of an existing sewer lift station in Harahan. The project involved establishing a baseline as well as a Construction Benchmark and Temporary Benchmark. The survey further located improvements, utilities, and applicable trees. Spot elevations were taken at 25 foot intervals. (\$6,830 (fee); 2022)

Rehabilitation of Sewer Lift Station F7-13 at Veterans Boulevard and Neyrey Drive, Metairie, Jefferson Parish, LA. BFM was contracted to prepare a Topographic Survey of an existing sewer lift station in Metairie. The project involved establishing a baseline as well as a Construction Benchmark and Temporary Benchmark. The survey further located improvements, utilities, and applicable trees. Spot elevations were taken at 50-foot intervals. Property corners were located to establish the rights-of-way, with the final survey showing the ROW and adjacent boundary information. (\$11,570 (fee); 2022)

Sewer Lift Station at Midway Drive & Soniat Canal, Harahan, Jefferson Parish, LA. BFM Corporation executed a Topographic Surveying of the Sewer Lift Station at Midway Drive & Soniat Canal in Harahan, LA. The project included establishing a baseline and setting a Construction Benchmark, located improvements, utilities, and applicable trees, with spot elevations taken at 25 foot intervals. Apparent right-of-ways were shown on the final survey. Deliverables included detailed indelible prints, a Three-Point Tie Worksheet, and Construction Benchmark Certificate. (\$6,560 (fee); 2022)

Bonnabel Canal, from W. Esplanade Avenue to Veterans Boulevard, Metairie, Jefferson Parish, LA. The project, being executed for the Jefferson Parish Department of Capital Projects, involves establishing a baseline and setting Temporary Benchmarks. Scope includes location of improvements, utilities, and applicable trees. Spot elevations are included. The project is utilizing established Jefferson Parish GIS to show the apparent rights-of-way. The project involves 4100 lf of topographic survey along the Bonnabel Canal, from West Esplanade Avenue to Veterans Memorial Boulevard. (\$63,000 (fee); 2022)

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)	<i>BFM Corporation, LLC 1990 to present</i> <i>Benson Mercedes Benz 1989 to 1990</i> <i>SECO Electric 1987</i> <i>Frishhertz Electric 1986 to 1987</i> <i>Plain Construction 1985 to 1986</i>
Education: Degree(s)/Year/Specialization:	
<i>High School Diploma</i>	
Active Registration: Year first registered/discipline:	
<i>American Traffic Safety Service Assn. – Traffic Flagger</i> <i>Basic OSHA Training Class Completion</i> <i>Transportation Work Identification Card (TWIC)</i>	
Other experience and qualifications relevant to the proposed Project:	
<p>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).</p> <p>North Arnoult Drainage Pump Station Improvements, Jefferson Parish, LA. Project involved a boundary with topographic survey, establishing a baseline parallel to the right-of-way. Points of intersection set were referenced by 3-point ties to topographic features in the area. Two temporary benchmarks were established. Existing improvements were located, including utilities, piping, and natural elements. Building corners within the limits of survey were also located, as were property corners in order to determine the rights-of-way and property boundary limits. (\$6,870 (fee); 2019)</p> <p>Veterans Boulevard Pump Station, Metairie, Jefferson Parish, LA. BFM executed a Survey Control Verification for the project; scope included locating and verifying the horizontal and vertical control points from a previous BFM surveying project (No. 8244; 2013/2014); a minimum of 2 horizontal and 1 vertical control points were to be provided per site. Project deliverables</p>	

TEC Professional Services Questionnaire

Other experience and qualifications: **Curtis "Jay" Barrios (continued)**

included a detailed indelible print with an aerial background image clearly showing point location, Northing, Easting, elevation, and description, and a high-resolution PDF of the document. (\$2,975 (fee); 2023)

Fulton Street Pump Station, Jefferson Parish, LA. BFM Corporation provided boundary with topographic survey for the Fulton Street Pump Station project. The scope of services included establishing horizontal control, setting Temporary Benchmarks, and plotting the location of improvements & topographic elements (man-made and natural). BFM also determined the depth, size, and type of pipes within surface observable drainage, sewerage, and water structures as established. For the topographic survey, spot elevations did not exceed a 25-foot grid within the Limits of Survey and included bottom of canal elevations along adjacent wall. (\$11,890 (fee); 2017)

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)

Lafitte Drainage Project, Town of Jean Lafitte, Jefferson Parish, LA. BFM Corporation provided Route Topographic Surveying services for a proposed drainage servitude project in the Town of Jean Lafitte in Jefferson Parish, LA. The project built on a previous BFM project (No. 10309). The project also included provision of boundary surveying in order to provide a servitude plat with legal description. The topographic survey element included establishing a baseline along the route, location of existing improvements, location of drainage, sewerage, and water structures, locating trees and drip lines, and taking spot elevations. For the Servitude Survey, BFM located property corners on the affected properties, and adjacent lots, to verify the boundary. Deliverables included a detailed indelible prints and high-resolution PDFs, cross sections & Three-Point TIE worksheet, a metes-and-bounds legal description of the servitude, and AutoCAD drawing files in DWG format. (\$11,875 (fee); 2022)

Taft Park Pump Station and Drain Line Path, Jefferson Parish, LA. BFM executed Topographic Surveying services involving location & elevations of the drainage structures for monitoring of the Taft Park Pump Station. The survey encompassed the area extending from 33rd Street (Vernon Street) to West Napoleon Avenue. The scope included establishing a project baseline that could be recovered for construction; elevations & spot elevations, and; cross sections. The survey also plotted the location of improvements within the designated limits of survey. (\$23,531 (fee); 2009)

Parish-Wide Safe House Program, Jefferson Parish, LA. BFM provided surveying services associated with elevated safe houses at multiple locations throughout Jefferson Parish; this was part of a Parish-wide project to establish safe houses for pumping stations at multiple locations which will allow pump operators to safely remain at their station, ensuring the pumps continue to operate, during a hurricane event. (\$112,490 (fee); 2005 - 2007)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Eric Gladney II
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:

10 years (joined BFM in 2014);
23 years total (2001)

BFM Corporation, LLC | 2014 to present
Seatech Industries | 2010 to 2012
Richmond W. Krebs & Associates, LLC | 2008 to 2010
Krebbs, LaSalle, LeMieux Consultants Inc. | 2003 to 2008

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
Norfolk Southern Roadway Worker Protection Contractor Safety Certificate
Transportation Work Identification Card (TWIC)

Other experience and qualifications relevant to the proposed Project:

Coventry Drainage Pump Stations, River Ridge, Jefferson Parish, LA. BFM Corporation provided a Route Topographic Survey with Hydrographic Survey for the project, located in River Ridge, Louisiana. The levee and hydrographic survey area was noted as 400 feet wide (200 ft. in either direction of the extended centerline of Colonial Heights Road). The hydrographic survey extended 500 feet into the river from the water's edge. The full scope of the project also included research of public land records; location of property corners; establishing a baseline along the rear property line and; establishing Temporary Benchmarks. Existing improvements were located, as well as visible above ground utilities and those underground utilities with visible surface evidence. The survey further determined the depth, size, and type of pipes within surface observable drainage, sewerage, and water structures as established above. Trees were also located. Spot elevations were taken at 50-foot intervals within the Limits of Survey. (\$89,780 (fee); 2020)

Coventry Drainage Pump Station Cross Section Survey Update, River Ridge, Jefferson Parish, LA. BFM Corporation provided a single cross section for the project which then updated a previous BFM Survey Project (No. 101214) in order to include the information obtained under this scope of work. (\$6,775 (fee); 2023)

TEC Professional Services Questionnaire

Other experience and qualifications: **Eric Gladney II (continued)**

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)

The Westshore Enhancements Storm Surge Protection Project (Phase 1 & 2), Ascension Parish, LA. BFM provided Boundary and Route Topographic and Hydrographic Surveying for the project in Ascension Parish, LA; as established, the project was executed in two phases. For both phases, BFM established a baseline along the route with the beginning, end, and points of intersection referenced by three-point ties to topographic features in the area. Existing improvements within the designated Limits of Survey were located; as were above ground and underground utilities. The survey also determined the depth, size, and type of pipes within surface observable drainage, sewerage, and water structures. Deliverables for both phases included detailed prints, a Three-Point Tie Worksheet, and a high-resolution PDF and AutoCAD DWG files. (\$477,340 (fee); 2023)

Proposed Sewer Lift Station Near Ehret Road & Broas Drive, Jefferson Parish, LA. BFM Corporation provided boundary with topographic surveying services for the proposed Sewer Lift Station project located near Ehret Road and Broad Drive. The survey was incorporated into BFM previous project #10009 (Sewer Lift Station L-13-6; February 2019). Project included establishing a baseline, taking spot elevations, locating improvements & utilities, and preparing a Construction Benchmark. The scope also involved property acquisition surveys, including setting property corners. (\$9,760 (fee); 2022)

Proposed Baton Rouge Ground Storage Tank, East Baton Rouge Parish, City of Baton Rouge, LA. For the project, BFM Corporation provided boundary and topographic surveying services, including establishing a baseline and setting both a Construction Benchmark (CBM) and Temporary Benchmark (TBM). The survey further located improvements, utilities, property corners, edge of wooded areas, geotechnical bore holes, and swale (minor swales/ditches & existing sewer manholes) for sewer trunkline. Spot elevations were also taken, as were finished floor elevations (FFE). (\$46,210 (fee); 2021)

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 has provided surveying on multiple Waterline Projects as part of a larger overall Waterline Improvements Program for Jefferson Parish. (\$67,740 (fee); 2023)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Zachary D. Pittman
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:

1 year (joined BFM in 2023);
27 years total (1997)

BFM Corporation, LLC | 2023 to present
Atwell Oil and Gas | 2020 to 2023
Universal Pegasus-Hill | 2017 to 2020
Altura Land Consultants (CO) | 2017 to 2017
NOLA Construction | 2016 to 2017
Gandolfo Kuhn | 2014 to 2016
Cavada Surveyors (CO) | 2013 to 2014
McClone Construction (CO) | 2013 to 2013
GEC Engineering (fm Krebs Lasalle Lemeiux Eng) | 2010 to 2013
Jerry Rugg PLS | 2007 to 2010
Mike Duty PLS | 2006 to 2007
Sage Alliance Co Engineers (AZ) | 2006 to 2006
Tommy Semmes Jr. Surveying | 2005 to 2005
Mike Duty PLS | 2004 to 2005
Cross Country Surveyors | 2002 to 2003
Falcon Surveying (CO) | 2002 to 2002
Charlie Peterson PLS (FL) | 2002 to 2002
Maroney Engineering | 2001 to 2002
Eastside Glass and Sealants (WA) | 2000 to 2000
Jerry Rugg PLS | 1999 to 2000
Mike Duty PLS | 1997 to 1999

Education: Degree(s)/Year/Specialization:

High School Diploma
Bachelor of Arts Coursework (2 years), University of Louisiana at Monroe

Active Registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Zachary Pittman has worked in the industry since 1997 and has vast experience in surveying services, including a multitude of project types and thousands of projects throughout the region, having served as both Survey Crew Chief and Instrumentman/Rodman. As a field layout engineer, he was in charge of layout and quality control for a large concrete construction company and

TEC Professional Services Questionnaire

Other experience and qualifications: **Zachary D. Pittman (continued)**

further served as a part-time foreman for oversight of foundation, wall, and caisson crews. Mr. Pittman's project experience includes topographic and hydrographic surveying tasks, including ALTA, boundary, elevation certificates, land planning, lot stakeouts, construction layout, and civil engineering projects. Projects have included cell towers, large and small pipeline construction programs, a large light rail project, sports complex buildings, bridge layouts, gas compressor station as-built and natural gas projects, meter stations and main line replacements, and industrial/gas plants and mines.

Mr. Pittman has Multiple Operator Qualifications for all aspects of pipeline locating and surveying, and is experienced with all instrumentation and various other aspects of surveying involved. This includes Static and RTK GPS; Leica, TDS, Trimble, and Topcon operating systems; Robotic Total Station, and Leica, Trimble, and FARO scanning systems. He also is knowledgeable with JSA, job task, and quality control documents as well as Bluebeam Construction Software, Trimble Business Center, Captivate, and CAD.

Lift Stations F6-11 & G6-4, Jefferson Parish, LA. BFM provided Topographic & Right-of-Way Surveying; scope included establishing a baseline, taking spot elevations (25 ft intervals), location of existing improvements and natural elements as well as utilities (above- and below-ground) and piping (drainage, sewerage, and water structures). BFM also located property corners to establish the rights-of-way and property ownership for the two sites. Project deliverables included prints, high-resolution PDF, Three-Point Tie Worksheet, and AutoCAD drawing files. A Construction Benchmark Certificate was provided for each site. (\$17,860 (fee); 2024)

Bonnabel Canal Right-Of-Way Survey, Jefferson Parish, LA. BFM was selected to provide Right-of-Way Surveying services for the project area along a portion of the Bonnabel Canal; the survey established the easterly & westerly right-of-way for Bonnabel Canal in relation to the properties along the east of the canal (Bonnabel Place Subdivision) and the westerly side of the canal (Beverly Garden Extension). Scope included providing an abstract to trace the chain of title (including any known or recorded servitudes), and locating property corners and the top of bank along the east and west of Bonnabel Canal to show it in relation to the rights-of-way/servitude. Project deliverables included a Signed & Sealed Survey Plat and high-resolution PDF. (\$47,680 (fee); 2024)

West Esplanade Avenue U-Turn at Bonnabel Canal, Metairie, Jefferson Parish, LA. BFM provided topographic and right-of-way (R/W) surveying services for the project located in Metairie. The scope of services included establishing a baseline, two Temporary Benchmarks (TBM), and spot elevations. BFM also located property corners to establish the rights-of-way and property ownership. The survey located existing improvements, utilities, and pipes (drainage, water, sewerage). Project deliverables included physical & digital files as well as a Three-Point Tie Worksheet. (\$11,310 (fee); 2024)

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:	
<p>Coventry Drainage Pump Stations, River Ridge, Jefferson Parish, Louisiana</p> <p>ECM Consultants, Inc. 1301 Clearview Pkwy Ste 200 Metairie LA 70006</p> <p>Sunina Shrestha, P.E., 504-885-4080 sshrestha@ecmconsultants.com</p>	<p>BFM provided a Route Topographic Survey with Hydrographic Survey; the levee and hydrographic survey area was noted as 400 ft. wide (200 ft. in either direction of the extended centerline of Colonial Heights Rd.). The hydrographic survey extended 500 ft. into the river from the water's edge. Project scope also included research of public land records; location of property corners; establishing a baseline along the rear property line, and; establishing Temporary Benchmarks. Existing improvements were located, as well as above & below-ground. The survey further determined the depth, size, and type of pipes within surface observable drainage, sewerage, and water structures as established above. Trees were also located. Spot elevations were taken at 50-foot intervals within the Limits of Survey.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
June 2020	N/A	\$89,780 (fee)

PROJECT NO. 2

Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Fulton Street Pump Station, Jefferson Parish, Louisiana</p> <p>Burk-Kleinpeter, Inc. 4176 Canal Street New Orleans LA 70119</p> <p>Tony Moschella, 504-486-5901 tmaschella@bkiusa.com</p>	<p>BFM provided boundary with topographic survey for the project. The scope of services included establishing horizontal control, setting Temporary Benchmarks, and plotting the location of improvements & topographic elements (man-made and natural). BFM also determined the depth, size, and type of pipes within surface observable drainage, sewerage, and water structures as established. For the topographic survey, spot elevations did not exceed a 25-foot grid within the Limits of Survey and included bottom of canal elevations along adjacent wall.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
December 2017	N/A	\$11,890 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Orange Lane Drainage Pump Station Project (Drainage Mapping), Grand Isle, Jefferson Parish, Louisiana</p> <p>AIMS Group, Inc. 4421 Zenith Street Metairie LA 70001</p> <p>Lowell Pitré, P.E., 504-887-7045 ljp@aimsgroupinc.com</p>	<p>The project consists of a new storm water pumping station on the intersection of Orange Lane at Orleans Avenue in Grand Isle, Louisiana. The scope of services includes obtaining topographical survey information and the preparation of a drainage map for the project. Phase 1 of the project involved the topographic and right of way surveying services; BFM conducted a site topographic survey at the proposed lift station site and provided boundary surveying to determine rights of way. Phase 2 of the project established the Drainage Map. BFM located all drainage structures within the Limits of Survey; this included ditches, culverts, drain inlets, and catch basins. A drone survey was executed to gather a 25 ft elevation grid throughout the project area.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
August 2020	N/A	\$32,280 (fee)

PROJECT NO. 4		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Westwego Drainage Pump Station No. 1, Jefferson Parish, Louisiana</p> <p>Jefferson Parish Department of Drainage 1221 Elmwood Park Blvd Ste 907 Harahan LA 70123</p> <p>Ben Lepine, 504-736-6759 blepine@jeffparish.net</p>	<p>BFM provided services for a Limited Topographic Survey at the project site, Westwego Drainage Pump No. 1. The scope of services first re-established Site Horizontal and Vertical control, as these were established as part of a previous BFM project (BFM No. 9730). Services next included locating existing improvements within the designated Limits of Survey, taking elevations and cross sections, and verification of piping and utilities.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
May 2018	N/A	\$4,725 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>North Arnoult Drainage Pump Station Improvements, Jefferson Parish, Louisiana</p> <p>Hartman Engineering, Inc. 527 W. Esplanade Ave Suite 300 Kenner LA 70065</p> <p>Rolland A. Mura, 504-466-5667 rmura@harteng.com</p>	<p>The project involved a boundary with topographic survey, establishing a baseline parallel to the right-of-way. Points of intersection set were referenced by 3-point ties to topographic features in the area. Two temporary benchmarks were established. Existing improvements were located, including utilities, piping, and natural elements. Building corners within the limits of survey were also located, as were property corners in order to determine the rights-of-way and property boundary limits.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
May 2019	N/A	\$6,870 (fee)

PROJECT NO. 6		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Timberview Lane Pump Station, Harvey, Jefferson Parish, Louisiana</p> <p>H. Davis Cole & Associates, Inc. 1340 Poydras Street Suite 1850 New Orleans LA 70112</p> <p>H. Davis Cole, P.E., 504-836-2020 hdcole@hdaviscole.com</p>	<p>BFM was selected to provide topographic surveying services for the project, which involved establishing a baseline and construction benchmark, locating improvements and above & below ground utilities (for each utility, BFM located the upstream/downstream structures), and taking spot elevations at 10 ft. intervals.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
September 2022	N/A	\$4,530 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Veterans Boulevard Pump Station, Metairie, Jefferson Parish, Louisiana</p> <p>Jefferson Parish Department of Engineering 1221 Elmwood Pk Blvd Ste 802 Jefferson LA 70123</p> <p>Matthew Zeringue, 504-736-6500 meringue@jeffparish.net</p>	<p>BFM executed a Survey Control Verification for the project; scope included locating and verifying the horizontal and vertical control points from a previous BFM surveying project (No. 8244; 2013/2014); a minimum of 2 horizontal and 1 vertical control points were to be provided per site. Project deliverables included a detailed indelible print with an aerial background image clearly showing point location, Northing, Easting, elevation, and description, and a high-resolution PDF of the document.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
January 2023	N/A	\$2,975 (fee)

PROJECT NO. 8		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Coventry Drainage Pump Station Cross Section Survey Update, River Ridge, Jefferson Parish, Louisiana</p> <p>ECM Consultants, Inc. 1301 Clearview Pkwy Ste 200 Metairie LA 70006</p> <p>Sunina Shrestha, P.E., 504-885-4080 sshrestha@ecmconsultants.com</p>	<p>BFM Corporation provided a single cross section for the project which then updated a previous BFM Survey Project (No. 101214) in order to include the information obtained under this scope of work.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
April 2023	N/A	\$6,775 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Bayou Segnette Drainage Pump Station No. 1 Survey Verification, Jefferson Parish, Louisiana</p> <p>Jefferson Parish Department of Drainage 1221 Elmwood Park Blvd Ste 907 Harahan LA 70123</p> <p>Ben Lepine, 504-736-6759 blepine@jeffparish.net</p>	<p>BFM Corporation provided surveying services to verify horizontal and vertical control for the project site; an extension of a previous BFM project (#9303) where the firm provided topographic surveying services. Full documentation for the horizontal and vertical values of the control points established was provided.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
July 2020	N/A	\$550 (fee)

PROJECT NO. 10		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Goose Bayou Drainage Pump Station, Lafitte, Jefferson Parish, Louisiana</p> <p>CB&I Coastal, Inc. 2424 Edenborn Ave Ste 450 Metairie LA 70001-6463</p> <p>Gene S. Gillen, P.E., 504-832-4878 gene.gillen@CBI.com</p>	<p>BFM provided boundary and topographic surveying services for the project. The scope of services included obtaining available title data, supplemented with courthouse research. BFM located property corners to establish rights-of-way, setting a closed traverse around the site, establishing Temporary Benchmarks (TBM), taking elevations, and plotting the location of improvements and topographic features, both natural and man-made. The scope of services included producing cross sections and plotting spot elevations on paving or other hard surfaces.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
March 2016	N/A	\$11,905 (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.	<p><i>BFM Corporation is not currently, nor has it previously been involved, in litigation with Jefferson Parish.</i></p>	
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.

Please refer to our projects noted in our personnel listings in Item K as well as the representative projects shown in Item L for specific project examples and an overview of our surveying experience with Jefferson Parish.

BFM’s capabilities include the following and more:

- Topographic Surveying
- Drone Surveying / Photogrammic and LiDAR

TEC Professional Services Questionnaire

N. continued.

- Bathymetric / Hydrographic Surveys
- Property, Boundary, and Right-of-Way Surveys
- Maps, Cross-Sections, and Data Sets
- 3D Laser Scanning
- Benchmarks
- Construction-Related Surveying
- 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 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). Crews are outfitted with Leica TS series robotic total stations, simplifying and expediting projects. Furthermore, BFM has photogrammetry included into our GPS Receivers that allow our technicians to capture and utilize point cloud data in the field. The tilt functionality built into the GPS receivers allows for shooting without leveling the rod; this greatly increases speed of fieldwork while keeping accuracy and precision intact. BFM's crews are trained to use this equipment to its full potential to maximize efficiency and accuracy in the field.

BFM's Drone Surveying features a DJI Matrice drone; this allows 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, BFM is 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. The firm uses Hypack Software to process collected data. Further, BFM can execute multi-beam scans, side scans and magnetometer surveys upon request.

TEC Professional Services Questionnaire

N. continued.

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 over 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**.

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.

Our workload will allow for quick assignment of key personnel to any project assigned under this task. Our 40+ year history with the Parish is evidence of our responsiveness and our commitment to the Parish, its Departments, and its citizens.

TEC Professional Services Questionnaire

N. continued.

CRITERIA 4 | PAST PERFORMANCE

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.**

Please refer to our projects noted in our personnel listings in Item K as well as the representative projects shown in Item L for specific project examples and an overview of our surveying experience with Jefferson Parish.

CRITERIA 5 | LOCATION OF THE PRINCIPAL OFFICE

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

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 | REFERENCES

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).** We invite you to discuss our project work with the references noted for each project.

BFM Corporation 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)

TEC Professional Services Questionnaire

N. continued.

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)

Ben Lapine, Acting Director, Department of Drainage, Jefferson Parish

(504-736-6661 | JPSewerage@jeffparish.net)

Michael B. Cooper, Parish President, St. Tammany Parish

(985-898-2362 | president@stpgov.org)

José A. Gonzales, CAO, City of Kenner

(504-468-4090 | jgonzalez@kenner.la.us)

Khalid L. Saleh, PhD, Capital Program Administrator, New Orleans Public Works Dept.

(504-658-8000 | khsaleh@nola.gov)

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: August 22, 2024