



JEFFERSON PARISH

SOQ 24-015 Resolution 144202

Routine Engineering Services for Drainage Projects



June 21
2024



PRESIDENT & CEO
MICHAEL D. CHOPIN, PE



SENIOR VICE PRESIDENTS
RENE A. CHOPIN, III, PE
HENRY M. PICARD, III, PE, PLS

CORPORATE SECRETARY
BRUCE L. BADON, AICP

BURK-KLEINPETER, INC.
ENGINEERING · PLANNING · ENVIRONMENTAL

VICE PRESIDENT
DAVID E. BOYD, PE

2400 VETERANS MEMORIAL BLVD., SUITE 310, KENNER, LA 70062
TELEPHONE (504) 486-5901
WWW.BKIUSA.COM

OVER 100 YEARS OF SERVICE

June 21, 2024

Jefferson Parish Purchasing Department
Mr. Renny Simno, Director
200 Derbigny Street, Suite 4400
Gretna, LA 70053

RE: SOQ 24-015 Resolution 144202 Routine Engineering Services for Drainage Projects

Mr Simno:

In response to your request for qualifications, **Burk-Kleinpeter, Inc., along with BFM Corporation, LLC, Gulf South Engineering and Testing, Inc., and Creative Engineering Group, LLC** is pleased to submit one electronic copy of our qualifications for the above-referenced project.

BKI is a full-service small business consulting firm providing professional planning and engineering services to public and private clients for over 110 years. We are fully capable of providing professional services to Jefferson Parish for projects within the scope of Routine Engineering for Sewer Projects. Our Kenner office will serve as the main project office for this assignment with Henry M. Picard, III, PE, PLS as the professional in charge of the project. As an established firm committed to client satisfaction, we hope to assist the Parish in the successful implementation on assigned projects. We have a history of successfully completing similar scale projects on time for Jefferson Parish, and we hope to have the opportunity to continue that partnership.

We appreciate this opportunity to submit our qualifications and look forward to working for the Parish again in the future.

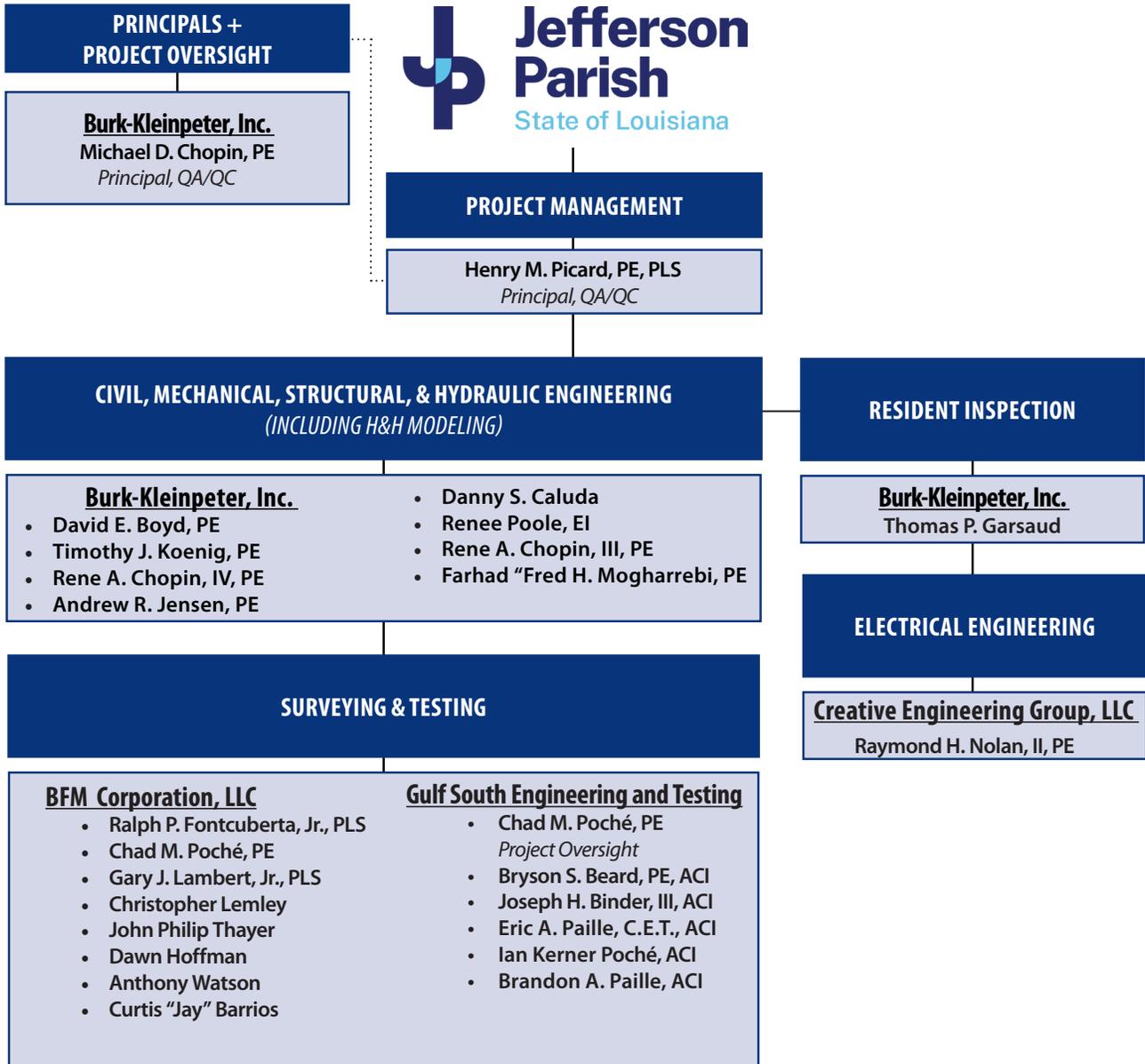
Sincerely,

A handwritten signature in blue ink, appearing to read 'H M Picard III'.

Henry M. Picard, III, PE, PLS
Senior Vice President



ORGANIZATIONAL CHART



Burk-Kleinpeter, Inc.
TEC Questionnaire



TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

SOQ 24-015 Resolution 144202 Routine Engineering Services for Drainage Projects

B. Firm Name & Address:



2400 Veterans Memorial Blvd.
Suite 310
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:

Michael D. Chopin, PE - Principal - (504)343-6254, *mchopin@bkiusa.com*

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

Henry M. Picard, III, PE, PLS - Project Manager - (504)400-0783, *hpicard@bkiusa.com*

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

<u>8</u> Administrative	<u>0</u> Estimators	<u>0</u> Specification Writers
<u>0</u> Architects (Licensed)	<u>0</u> Geologists	<u>3</u> Structural Engineers
<u>0</u> Chemical Engineers	<u>0</u> Geotechnical Engineers	<u>0</u> Graduate Engineers
<u>8</u> Civil Engineers	<u>0</u> Interior Designers	<u>0</u> Project Managers
<u>3</u> Construction Inspectors	<u>0</u> Landscape Architects	<u>0</u> Clerical
<u>0</u> Ecologists	<u>0</u> Land Surveyor	<u>0</u> Grant/Funding Specialist
<u>0</u> Electrical Engineers	<u>0</u> Mechanical Engineers	<u>0</u> Sanitary Engineers
<u>1</u> Engineer Intern	<u>0</u> Environmental Engineers	<u>0</u> Planners
<u>0</u> Professional Land Surveyors	<u>4</u> CADD	<u>2</u> Designers
		<u>29</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. N/A

H. Has the 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. BFM Corporation, LLC 15 Veterans Memorial Blvd, Kenner, LA 70062	Surveying	Yes
2. Gulf South Engineering and Testing, Inc 15 Veterans Memorial Boulevard Kenner LA 70062	Geotechnical / Materials Testing	Yes
2. Creative Engineering Group, LLC 201 Highland Park Plaza, Covington, LA 70433	Electrical Engineering	Yes

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

BKI: 11 BFM: 26 Gulf South: 30 CEG: 5

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Michael D. Chopin, PE <i>Principal / President & CEO</i>
Project Assignment
Principal / QA/QC - LA Registered Professional Engineer (Minimum Qualifications No. 1)
Name of Firm with which associated

Years' experience with this Firm:
33
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 1991 / Civil Engineering
Active registration: Year first registered/discipline
1996 / Professional Engineer State of LA No. 26797
Other experience and qualifications relevant to the proposed project:
<p>Mr. Chopin is Principal/President at BKI in charge of personnel, including schedules, staff, budgets, technical review, and account management. He has over 28 years of professional engineering experience providing professional consulting focused on a wide range of public works projects as Principal, Project Manager, or Project Engineer projects, including pump station design and drainage improvement projects. Projects have included design, construction administration and related supplemental services. As a principal and project manager, Mr. Chopin has a keen awareness of typical funding constraints and has proven successful in producing deliverables which comprehensively benefit both the community and environment. Mr. Chopin is a member of the American Society of Civil Engineers and the Society of American Military Engineers.</p> <p><i>Mr. Chopin's applicable projects are listed on the following page.</i></p>

Mr. Chopin has worked on the following applicable projects:

25th Street Canal - Gretna, LA - Provided project oversight for drainage improvements to the 25th Street Canal Neighborhood. Using a combination of LA Capital Outlay Funds, CDBG Funds, and FEMA Flood Mitigation Grant dollars. BKI performed Hydraulic Analyses with BCAnalyses Construction Documents for green infrastructure, 350 cubic feet per second pump station, 5400 feet of new drainage pipe, 2000 feet of sheet pile wall, 8 flapgates and concrete lining of the 25th Street Canal. Resident inspection and construction administration was performed as well.

Maplewood Area Drainage Improvements - Harvey, LA - QA/QC provided project oversight for drainage improvements in the Maplewood subdivision, which had historically flooded during intense rainfall events. BKI provided preliminary and final engineering design, bidding assistance, construction administration, and resident inspection services.

Avenue D Canal Drainage Improvements - Jefferson Parish, LA - Provided oversight for the design and construction of subsurface drainage improvements in the King's Grant/Avenue "D" Subdivision on the Westbank of Jefferson Parish. The project included the removal of existing storm drain pipe and existing roadway, and the construction of new concrete curb, pavement, and storm drain pipe.

Breaux Ditch Improvements - Jefferson Parish, LA - Provided QA/QC over contract and client management, design oversight, and quality control for the replacement of the existing ditch with a 4'x8' reinforced concrete flume to provide improved maintenance and stability.

Wardline Road Drainage Improvements - Hammond, LA - Provided project oversight for improvements to the system to eliminate backwater flooding from a 10-year design storm. Project encompassed a topographic, drainage structure, and drainage area survey; a hydrologic and hydraulic study; and construction administration services.

City of Gretna Downtown Drainage Improvements - Gretna, LA - Provided project oversight for the design and engineering of a layered green and grey stormwater infrastructure project within the city's downtown area. The project was part of FEMA's LASAFE program, which addresses community resiliency.

Hancock Street Canal Improvements - Gretna, LA - Provided project oversight for design and construction administration services associated with the closure of Hancock Street Canal between Kepler Street and Virgil Street.

Stumpf Boulevard Drainage Improvements - Gretna, LA - Provided project oversight for the installation of a 72-inch drainage pipe in the Stumpf Boulevard Canal. The pipe would provide sufficient capacity to convey storm water while addressing bank erosion. Adjacent travel lanes along Stumpf Boulevard were replaced after the base failed and roadway surface settled or warped.

Bellemeade Area Drainage - Jefferson Parish, LA - Provided project oversight and quality control for the development of construction drawings and specifications for the installation of 6,000 linear feet of stormwater culverts and 14 junction boxes.

Taft Park Drainage Pumping Station - Metairie, LA - Principal provided QA/QC for the design of the new Taft Park Drainage Pumping Station at Taft Park and 35th Street. This HMGP project was designed to drain the low-lying neighborhood. BKI's design included a new 63 CFS pumping station; new gravity collection drains on Taft Park, Belmont Place, and North Turnbull Drive between West Napoleon and the I-10 South Service Road; and a new effluent force main from the new pump station routed to the West Napoleon Canal south of the station. Provisions were installed for connections to a portable generator.

East Jefferson Flood Reduction Study & Master Drainage Plan Update - Jefferson Parish, LA - Project Manager for the hydraulic engineering study of Jefferson Parish's East Bank Flood Reduction Plan. Used UNET hydrologic & computer model to network system of 64 canal segments. Generated results by creating contours for flooding areas based on water surface evaluations for specific modes and generating this information on contour maps in CADD.

Belle Chasse Area Master Drainage Plan - Belle Chasse, LA - Provided project oversight for the preparation of a hydrologic and hydraulic study. The Master Drainage Plan will be the basis for infrastructure programming and guidance for residential and commercial developments.

Louis Armstrong New Orleans International Airport Master Drainage Plan - New Orleans, LA - Performed hydrologic and hydraulic analysis for existing airport site and proposed strategic growth plan improvements, using HYDRA, HEC-1, and UNETsoftware.

St. John the Baptist Master Drainage Plan (PLD) - St. John the Baptist Parish, LA - Provided project oversight for the evaluation of the existing and proposed drainage network for the east bank of St. John the Baptist Parish. The project included hydrologic and hydraulic analyses of an open channel drainage network. Managed the preparation of a Master Drainage Plan for a portion of the eastbank of St. John the Baptist Parish.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Henry M. Picard, III, PE, PLS <i>Senior Vice President</i>
Project Assignment
Principal / Project Manager (Minimum Qualifications No. 2)
Name of Firm with which associated
 ENGINEERING · PLANNING · ENVIRONMENTAL
Years' experience with this Firm:
34
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 1981 / Civil Engineering
Active registration: Year first registered/discipline
1986 / PE Civil, State of LA / No. 22289 1994 / PLS, State of LA / No. 4736 1996 / PE Civil, State of AL / No. 20937
Other experience and qualifications relevant to the proposed project:
<p>Mr. Picard is a Senior Vice President at BKI in charge of project management, hydraulics, and traffic engineering. Additionally he manages schedules, staff, budgets, technical review, and account management. He has 40 years of engineering experience with extensive drainage improvement projects including pump station design and construction oversight of drainage improvement projects. Mr. Picard holds a Bachelor of Science in Civil Engineering; is a Registered Professional Engineer in Louisiana, Alabama, and Florida; and is a Registered Professional Land Surveyor in Louisiana. He is an active member of the American Society of Civil Engineers and the Society of American Military Engineers.</p> <p><i>Mr. Picard's applicable projects are listed on the following page.</i></p>

Mr. Picard has worked on the following applicable projects:

Maplewood Area Drainage Improvements - *Harvey, LA* - Principal provided project supervision and subconsultant coordination for the development of construction drawings and specifications for the installation of 9,100 linear feet of stormwater culverts, 33 junction boxes, 80 catch basins, and 3,500 square yards of paving. FEMA Hazard Mitigation Grant Program funds were awarded to Jefferson Parish after Hurricane Gustav, and the project would improve drainage in the Maplewood subdivision, which had historically flooded during intense rainfall events.

Westbank Master Drainage Plan - *Jefferson Parish, LA* - Performed hydrologic and hydraulic QA/QC of the Jefferson Parish Westbank Drainage Plan modeling and report.

Breaux Ditch Improvements - *Jefferson Parish, LA* - As Principal, provided contract and client management, design oversight, and quality control for the replacement of the existing ditch with a 4'x8' reinforced concrete flume to provide improved maintenance and stability.

Wardline Road Drainage Improvements - *Hammond, LA* - Provided project oversight for improvements to the system to eliminate backwater flooding from a 10-year design storm. The GOHSEP-funded project encompassed a topographic, drainage structure, and drainage area survey; a hydrologic and hydraulic study; and construction administration services.

Westshore Enhancements Hydraulics Project - *St. James Parish, LA* - Principal providing QA/QC for structural design of a floodgate and a 320 CFS pump station at the 310' Blind River Crossing as well as two additional floodgates in separate locations. Included at the Blind River pump station is the design of a 2050 square foot pile support electrical platform that supports auxiliary equipment such as the 1250 KW generator, transformer, generator dock, HVAC systems and scada tower. The platform also supports a 470 Square foot, single story, CMU block electrical and controls room with concrete roof.

Marvin Braud Pump Station Watershed Dredging Evaluation - *Ascension Parish, LA* - Project Manager supervised the analysis of open channel drainage network in Ascension Parish, LA, using HEC-HMS and HEC-RAS unsteady flow model. The model was developed from an existing model prepared by the U.S. Army Corps of Engineers and calibrated to the Hurricane Rita rainfall event. After calibration of the model, the model was utilized to evaluate hydraulic effects of dredging drainage channels in the Marvin Braud Pump Station Basin and the effect on the existing pump station capacity.

Sharp Road Detention Pond - *Mandeville, LA* - Project Manager for the development of a detention pond and drainage improvements for Asbury Drive, Century Oaks Lane, Sharp Road, Marquette Street, and Cypress Lake. Challenges included expansion of channels within the existing drainage servitude widths, coordination with multiple utility conflicts at multiple roadways, and coordination with multiple community and neighborhood groups.

East Jefferson Flood Reduction Study & Master Drainage Plan Update - *Jefferson Parish, LA* - Performed hydraulic engineering study of Jefferson Parish's East Bank Flood Reduction Plan. Used computer model to network system of 64 canal segments. Generated results by creating contours for flooding areas based on water surface evaluations for specific modes and generating this information on contour maps in CADD.

Louis Armstrong New Orleans International Airport Master Drainage Plan - *New Orleans, LA* - Performed hydrologic and hydraulic analysis for existing airport site and proposed strategic growth plan improvements, using HYDRA, HEC-1, and UNETS software.

St. James Master Drainage Plan - *St. James Parish, LA* - Project Manager completed hydrologic/hydraulic modeling and levee alignment analysis for a Master Drainage Plan / Flood Protection Plan to alleviate flooding in the existing subdivisions and agricultural lands through parishes using upgraded outfalls. The study was performed using HEC-HMS and HEC-RAS modeling software.

Belle Chasse Area Master Drainage Plan - *Belle Chasse, LA* - Provided project management and guidance for the preparation of a hydrologic and hydraulic study. The Master Drainage Plan will be the basis for infrastructure programming and guidance for residential and commercial developments.

Bayou Liberty North of Interstate 12 Regional Detention Pond Study - *St. Tammany Parish, LA* - Provided guidance for the preparation of alternative detention pond sizes and locations to reduce stormwater flooding. Twelve alternatives were prepared that consisted of one large and one small detention pond located at different locations within the watershed to maximize the reduction of floodwaters. The alternatives were ranked based upon cost versus flood reduction.

Marvin Braud Drainage Pump Station Expansion - *Ascension Parish, LA* - Provided oversight in the development of preliminary and final plans for adding an additional 2,000 CFS capacity to the existing Marvin Braud Drainage Pump Station near Gonzales, LA, in Ascension Parish. Services included the performance of a complete hydraulic and hydrologic model study using HEC-HMS and HEC-RAS software, a new metal station housing, and relocation of the fuel tanks and silencers.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
René A. Chopin, III, PE Chief Engineer
Project Assignment
Structural Engineer (Minimum Qualifications No. 3)
Name of Firm with which associated

Years' experience with this Firm:
36
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 1988 / Civil Engineering
Active registration: Year first registered/discipline
1993 / Professional Engineer, State of LA / No. 25174
Other experience and qualifications relevant to the proposed project:
<p>Mr. Chopin is a Senior Vice President/Chief Engineer at BKI, in charge of project production, project management, and staff supervision. He has 31 years of professional engineering experience and has provided professional consulting focused on a wide range of highway, roadway, and bridge designs. He has served as Project Manager or Project Engineer on numerous bridge, roadway, dock, wharf, structural, and infrastructure projects. Mr. Chopin's projects have garnered awards and commendations from the American Concrete Institute Louisiana Chapter and the National Partnership for Highway Quality. Mr. Chopin holds a Bachelor of Science in Civil Engineering, and is a Registered Professional Engineer in Louisiana, Mississippi, Florida, Alabama, and Texas. He is also a member of the American Society of Civil Engineers and the American Concrete Institute of which he is Past President of the Louisiana Chapter. Mr. Chopin attended the Traffic Control Supervisor Refresher – LA State Specific training course for the American Traffic Safety Services Association in 2023.</p> <p><i>Mr. Chopin's applicable projects are listed on the following page.</i></p>

Mr. Chopin has worked on the following applicable projects:

25th Street Canal Drainage Improvements Project (Resiliency District) - *Gretna, LA* - Principal provided QA/QC oversight for the design of alternate stormwater runoff routing during high-intensity events. Including existing system analysis, recommended pipe sizes for alternate flow routes when the Heebe Canal stage exceeds water surface elevations, and designing improvements within 25th St. Canal to handle the additional flow to feed the proposed 25th St. drainage pump station. This project included the development of a closed, pump controlled system for the 2 subdivision that will alleviate flooding during high-intensity rainfalls.

Ascension Storm Surge Protection Project - *Ascension Parish, LA* - Chief Engineer provided QA/QC on levee design alignments, cross sections, floodgates, pump station modifications and cost estimates for the project.

Willowridge, Ellington, and Magnolia Ridge Drainage Pumping Stations - *St. Charles Parish, LA* - Provided structural oversight for the design of three new drainage pump stations (a total of 1300 CFS) in the Willowridge Subdivision, the Ellington watershed, and off Magnolia Ridge Road. Pump station design for all three stations included vertical pumps, backup generators, and mechanical bar screen cleaners.

Fourth Street Extension Environmental Assessment and Design SPN 700-26-0247 - *Gretna, LA* - Provided project oversight for an Environmental Assessment for an extension of Fourth Street to provide a more direct connection to the Westbank Expressway. The LA 18 (4th Street Extension) project involved the design and construction of a two-lane, minor arterial roadway within the former Union Pacific Railroad right-of-way.

Jefferson Parish Westbank Street Repair Program Management - *Jefferson Parish, LA* - Project Manager for the development of scopes, budgets, schedules, design oversight, periodic site visits during construction, preparing pay estimates, document change orders, and coordination with FEMA.

Intersection Improvements at Williams & Airline - *Kenner, LA* - Provided QA/QC for the project, which aimed to improve pedestrian access to an intersection. The project followed LADOTD'S standard plan format and met all LADOTD requirements.

Peters Road Bridge and Extension - *Plaquemines and Jefferson Parishes, LA* - Project Manager for construction engineering support including shop drawings, submittal review, answering RFIs, and the preparation of plans and specifications for the design of a new fixed, high level bridge across the intracoastal waterway (AASHTO LRFD Design). Project also includes four miles of new approach roadways and reconfiguring the Peters Road/Engineers Road Interchange. Mentored others in roadway geometric design. Prepared Hammerhead Pier design calculations and details for younger engineers to follow design method.

Mandeville By Pass - *Mandeville, LA* - Provided civil engineering services for the preparation of line and grade studies. Preliminary plans included the preparation of typical sections, plan/profile sheets, existing and design drainage maps, geometric layouts, sequence of construction, and cross sections.

US 167 Widening Dry Prong to Winn Parish - *Grant and Winn Parishes, LA* - Provided project management services for the preparation of plans and specifications for the widening of a 14.5 mile stretch of US 167 from two lanes to four lanes. Project included numerous box culverts and two slab span bridges.

Earhart Expy - Causeway Blvd Interchange - SPN H.002861 - *Jefferson Parish, LA* - Project Manager providing design oversight and mentoring of younger engineers for a new interchange between Earhart Expressway (LA3139) and Causeway Boulevard (LA 3046). The existing bridges widened for the interchange were inspected and rated per the Load Resistance Factor Rating and recommendations for correcting deficiencies for LADOTD's consideration.

I-10 Causeway Interchange - *Jefferson Parish, LA* - Project manager for converting a cloverleaf interchange into a direct and semi-direct connection. Performed the geometric design and layout for the entire interchange. Developed the TS&L for the five elevated ramps. Quality Controlled the bridge design and details. Attended the monthly partnering meetings, supervised shop drawing review and answered RFIs during construction.

I-10 Widening Veterans Blvd. - Clearview Pkwy - *Metairie, LA* - Project Manager for roadway and bridge design for widening approximately 1.5 miles of urban interstate highway. Provided Quality Control of roadway and bridge plans during preliminary and final plans. Attended the monthly partnering meetings and supervised the shop drawing reviews and answered RFIs during construction.

I-610 Interchange - Railroad Underpass Pump Station - *New Orleans, LA* - Project Engineer for the line and grade study and the conceptual plans of the alternatives for the Williams Blvd., Causeway Blvd., I-10/I-610 split and the Metairie Road interchanges.

Westbank Master Drainage Plan - *Jefferson Parish, LA* - Performed overall QA/QC of the Jefferson Parish Westbank Master Drainage Plan modeling and report.

TEC Professional Services Questionnaire

PROFESSIONAL IN CHARGE OF PROJECT:
Name & Title:
David E. Boyd, PE
Project Assignment
Civil / Hydraulic Engineer (Minimum Qualifications No. 3)
Name of Firm with which associated

Years' experience with this Firm:
18
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 2004 /Civil Engineering
Active registration: Year first registered/discipline
2010 / Professional Engineer, State of LA / No. 35510
Other experience and qualifications relevant to the proposed project:
<p>Mr. Boyd is Vice President of the Civil Engineering Division. Since 2006, Mr. Boyd has provided BKI's public and private clients with professional consulting engineering services for hydrology and flood control projects. Mr. Boyd is proficient in Hydrologic and Hydraulic modeling using HEC-HMS and HEC-RAS as well as SWMM software. Projects of note include several master drainage plans for various parishes; these projects involved analyzing existing conditions and future conditions as well as drainage improvements to alleviate flooding.</p> <p><i>Mr. Boyd's applicable projects are listed on the following page.</i></p>

Mr. Boyd has worked on the following applicable projects:

Westbank Master Drainage Plan - *Jefferson Parish, LA* - Project manager and lead hydraulic engineer for the Jefferson Parish Westbank Master Drainage Plan. Coordinated modeling efforts for the East of Harvey Basin, West of Harvey Basin, Avondale Westwego West minister Basin and Cataouatche Basin. Reviewed models prepared by subconsultants.

25th Street Canal Drainage Improvements Project (Resiliency District) - *Gretna, LA* - Project Manager responsible for coordinating overall project design tasks, schedules, and budgets on this project for Gretna to mitigate flooding from the Heebe Canal. Using a combination of state funding, CDBG funds & FEMA Flood Mitigation Grant Dollars Gretna was able to not only lessen runoff and required pumping capacity but also to provide recreational aesthetic amenities for the neighborhood residents.

Maplewood Area Drainage Improvements - *Harvey, LA* - Project Engineer provided project engineering for the development of construction drawings and specifications for the installation of 9,100 linear feet of stormwater culverts, 33 junction boxes, 80 catch basins, and 3,500 square yards of paving. Hazard Mitigation Grant Program funds were awarded to Jefferson Parish after Hurricane Gustav, and the project would improve drainage in the Maplewood subdivision, which had historically flooded during intense rainfall events. Mr. Boyd provided more than 950 hours of service on the project.

Gretna Downtown Drainage Improvements - *Gretna, LA* - Project Manager provided oversight, quality control, client coordination, and civil design oversight for the design and engineering of a layered green and grey stormwater infrastructure project within the downtown area. To alleviate localized stormwater flooding issues, the project used green infrastructure improvements along the public right-of-way to meet multiple demands: stormwater management, continued revitalization in the downtown area, and improved public right-of-way safety and accessibility.

Hancock Street Canal Improvements - *Gretna, LA* - Provided civil engineering services for design and construction administration services associated with the closure of Hancock Street Canal between Kepler Street and Virgil Street.

Breaux Ditch Improvements - *Jefferson Parish, LA* - Project Manager provided contract and client management, design oversight, and quality control for the replacement of the existing ditch with a 4'x8' reinforced concrete flume to provide improved maintenance and stability.

Wardline Road Drainage Improvements - *Hammond, LA* - Civil/Hydraulic Engineer performed the hydrologic and hydraulic study and prepared the report for improvements to the system to eliminate backwater flooding from a 10-year design storm. Project encompassed a topographic, drainage structure, and drainage area survey; a hydrologic and hydraulic study; and construction administration services.

Stumpf Boulevard Drainage Improvements - *Gretna, LA* - City Engineer / City of Gretna liaison for the installation of a 72-inch drainage pipe in the Stumpf Boulevard Canal. The pipe would provide sufficient capacity to convey storm water while addressing bank erosion. Adjacent travel lanes along Stumpf Boulevard were replaced after the base failed and roadway surface settled or warped.

Belle Chasse Area Master Drainage Plan - *Plaquemines Parish, LA* - Provided civil engineering services for the preparation of a hydrologic and hydraulic study. The Master Drainage Plan will be the basis for infrastructure programming and guidance for residential and commercial developments.

Louis Armstrong New Orleans International Airport Master Drainage Plan - *Kenner, LA* - Civil Engineer performed hydrologic and hydraulic analysis of open-closed channel drainage network of the Louis Armstrong New Orleans International Airport, using HEC HMS and HEC RAS unsteady state model, recommended drainage infrastructure improvements with cost estimates and created a master drainage manual for Airport facility managers to meet all Federal Aviation Administration and Jefferson Parish requirements.

Marvin Braud Pump Station Watershed Study - *Ascension Parish, LA* - Performed hydrologic and hydraulic analysis of open channel drainage network in Ascension Parish, LA, using HEC HMS and HEC RAS unsteady state model to evaluate hydraulic effects of dredging drainage channels in the Marvin Braud Pump Station Basin. The study resulted in the addition of 2-1000 cfs pumps to the existing pump station including the super structure for housing the additional pumps and motors.

St. James - Ascension Master Drainage Plan / Flood Protection Project - *St. James and Ascension Parishes, LA* - Civil and Hydraulic Engineer / Hydrologist: Provided civil/hydraulic engineering services for the preparation of the Master Drainage Plan. The study was performed using the HEC-HMS and HEC-RAS modeling software to determine the potential of improving the existing canals or the need for a new outfall.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Timothy J. Koenig, PE <i>Associate Civil Engineer</i>
Project Assignment
Civil Engineer (Minimum Qualifications No. 3)
Name of Firm with which associated

Years' experience with this Firm:
20
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 2004 / Civil Engineering Bachelor of Science / 1998 / Microbiology
Active registration: Year first registered/discipline
2009 / Professional Engineer State of LA / No. 35079
Other experience and qualifications relevant to the proposed project:
<p>Mr. Koenig is an Associate Civil Engineer at BKI with 22 years of experience. He holds a Bachelor of Science in Civil Engineering from the University of New Orleans. Since joining BKI in 2004, Mr. Koenig has provided professional consulting services to public and private clients throughout the Gulf South region. He has provided these services for a wide range of projects, serving as Project Manager or Project Engineer on numerous drainage, roadway, transportation, and rail projects. Most notably, MR. Koenig has been an integral part of Hurricane Katrina recovery at the Port of New Orleans.</p> <p><i>Mr. Koenig's applicable projects are listed on the following page.</i></p>

Mr. Koenig has worked on the following applicable projects:

25th Street Drainage Improvements Project - *Gretna, LA* - Prepared preliminary plans that included site access plans, staging areas, roadway improvements, and canal improvements.

Wardline Road Drainage Improvements - *Hammond, LA* - Civil Engineer provided design and plan preparation services for drainage improvements that aimed to reduce or eliminate flooding in the Wardline Road area from a moderate (10-year frequency) rainfall event. BKI's services included surveys along Wardline Road, a hydraulic and hydrologic study, road design, storm drainage, and construction administration services.

Mandeville By Pass Project - *Mandeville, LA* - Prepared line and grade study, preliminary and final plans for 3.5 miles of a new two-lane roadway connecting LA 1088 and US 190 in St. Tammany Parish. Included design and preparation of typical sections, plan, and profile sheets, geometric layout, drainage design, sequence of construction, and cross sections. Also coordinated with utility companies and right-of-way acquisition. Project included 3.5 miles of roadway, a 10' wide multi-use path, and the design of a roundabout intersection at US 190.

Ascension Storm Surge Protection - *Ascension Parish, LA* - Provided levee design alignments, cross sections, and cost estimates for the project. Assembled plans and specifications as well as performed construction administration and closeout duties for this project.

St. James Parish East Bank Master Drainage Plan, Culvert Analysis, and Design Program - *St. James Parish, LA* - Provided civil engineering services for the preparation of the Master Drainage Plan to alleviate flooding in the existing subdivisions and agricultural lands through development of better outfalls. The study was performed utilizing LADOTD Hydraulic Software (HydrWin 2009) software to determine the potential of improving the existing culverts or the need for new outfalls. The Master Drainage Plan resulted in BKI's participation in an Eastbank-wide culvert analysis and design program partly funded by the LADOTD Statewide Flood Control Program and GOHSEP grants.

St. James - Ascension Master Drainage Plan / Flood Protection Project - *St. James and Ascension Parishes, LA* - Civil Engineer: Provided civil engineering services for St. James and Ascension Parishes flood protection projects which included developing levee alignments, conceptual pump station, floodgate, and pipeline crossing designs, and cost estimates.

St. James Parish Interior Drainage Improvements - *St. James Parish, LA* - Civil Engineer is providing review of design documents for an inventory of existing driveway drainage culverts including their size, type, and condition.

Lake Borgne Basin Levee District Pump Station No. 6 Erosion Control Design - *New Orleans, LA* - Civil Engineer provided plans, specifications, bidding assistance, and construction management for the repairs to Lake Borgne Levee District Pump Station No. 6 Erosion Control.

Marvin Braud Drainage Pump Station - *Ascension Parish, LA* - Civil Engineer: Developed preliminary and final plans, specifications, and cost estimates to retrofit stop logs to the intake bays of the existing Marvin Braud Drainage Pump Station near Gonzales, LA. The stop logs will allow for each bay to be individually dewatered to perform maintenance.

SLFPA-E Floodgate Repairs GIWW, MRGO, OFC & Lakefront - *New Orleans, LA* - Responsible for the design work on this project including drawings and specifications using the same format and procedure for the previous two (2) floodgate design sets completed.

West Shore Levees and Floodwalls - *St. Charles, St. John the Baptist, and St. James Parishes, LA* - Civil Engineer provided preliminary design services for a new multiparish hurricane protection levee project extending from St. Charles to Ascension Parish. A feasibility study evaluated several alternate alignments and pump station locations for the proposed levee system.

West Shore Enhancements Project - *St. Charles, St. John the Baptist, and St. James Parishes, LA* - Provided civil design and preliminary plan and specifications preparation for a 320 CFS pump station at Blind River as well as two floodgate closure structures. The work included design of sheet pile wall and combi-walls for grade separations, rip rap sizing and placement for erosion control, site grading and drainage, and access road layout and design to accommodate a WB-62 design vehicle.

Floodgate Repairs - Orleans Levee Board - *New Orleans, LA* - Prepared construction documents and performed construction administration for a floodgate sandblast, repair and paint project.

LBBLD PS #6 Erosion Control Design - *New Orleans, LA* - Civil Engineer: Provided plans, specifications, bidding assistance, and construction management for the repairs to Lake Borgne Levee District Pump Station #6 Erosion Control.

Mt. Airy/Garyville Road Relocations - *St. John the Baptist Parish, LA* - Designed improvements to and closure of multiple rail crossings in the Mt. Airy/Garyville area. Produced final plan set that included typical sections, quantity table, plan and profile sheets, and cross sections. Also prepared project specification and a project cost estimate.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Rene A. Chopin, IV, PE <i>Civil Engineer</i>
Project Assignment
Civil / Hydraulics Engineer (Minimum Qualifications No. 3)
Name of Firm with which associated

Years' experience with this Firm:
11
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 2013 / Civil Engineering
Active registration: Year first registered/discipline
2018 / Professional Engineer State of LA No. 42349
Other experience and qualifications relevant to the proposed project:
<p>Mr. Chopin is a Registered Professional Civil Engineer in Louisiana with a focus on Hydraulic and Hydrologic Engineering. He joined BKI full time in 2013 after receiving his Bachelor of Science in Civil Engineering and serving as an intern for two years. His experience includes the use of the Department of Transportation and Development HYDR 2009, HEC-HMS and HEC-RAS programs to calculate drainage flows and pipe capacities. He has worked on various projects such as roadway and drainage improvement projects, master drainage plans, levee and stormwater prevention projects, and harbor improvements including dredging. His responsibilities have included performing engineering calculations, site layout, plan and specification preparation, estimating project costs, and construction administration. He is a Member of the American Society of Civil Engineers and the Society of Military Engineers.</p> <p><i>Mr. Chopin's applicable projects are listed on the following page.</i></p>

Mr. Chopin has worked on the following applicable projects:

25th Street Canal Drainage Improvements - *Gretna, LA* - Providing Hydraulic and Hydrologic engineering for alternate routing of stormwater runoff during high-intensity events for the 25th Street Canal subdivisions. This includes analyzing the existing system, providing recommended pipe sizes for alternate flow routes when the Heebe Canal stage exceeds water surface elevations that would close flap gates to be installed on the current outfall pipes, and designing improvements within 25th Street Canal to handle the additional flow to feed the proposed 25th Street drainage pump station. In working with our Mechanical Department, we have developed a closed, pump-controlled system for the 25th Street subdivision that will alleviate flooding during high-intensity rainfalls.

Maplewood Area Drainage Improvements - *Harvey, LA* - Civil Engineer: Performed construction administration duties including verifying quantities, reviewing as-built plans, and reviewing field inspection reports for drainage improvements in the Maplewood subdivision area, which had historically flooded during intense rainfall events.

Wardline Road Drainage Improvements - *Hammond, LA* - Provided nearly 500 hours of civil engineering services for improvements to the system to eliminate backwater flooding from a 10-year design storm. Project encompassed a topographic, drainage structure, and drainage area survey; a hydrologic and hydraulic study; and construction administration services.

LA 23 Widening: Lapalco Blvd-Engineers Rd - *Jefferson/Plaquemines Parishes, LA* - Civil Engineer calculated the additional watershed with the widening of LA 23 and added drainage structures as needed to prevent flooding.

Gabriel Runoff Control Piping Relocation - *New Orleans, LA* - Civil Engineer created construction documents for relocating a trunk line adjacent to the levee.

Oak Park Flood Mitigation Project - *New Orleans, LA* - Provided civil engineering for the preparation of a hydrologic and hydraulic study. The hydrologic analysis evaluated the quantity of rainfall runoff for 10-year and 100-year storm events.

Sharp Road Detention Pond - *Mandeville, LA* - Provided civil engineering services for the development of a detention pond and drainage improvements near Asbury Drive, Century Oaks Lane, Sharp Road, Marquette Street, and Cypress Lake. Existing storm drainage channels and pipe culverts were upgraded from a 10-Year Storm Event capacity to a 25-Year Storm Event capacity. The project included a 15.5 acre-foot detention pond with an overflow weir structure, 342 linear feet of concrete pipe or pipe arch, and 3,000 linear feet of channel widening.

Belle Chasse Area Master Drainage Plan - *Belle Chasse, LA* - Civil Engineer: Designed an intake canal for the proposed Belle Chasse pump station at Walker Road. This included modeling the channel and adjacent roadway in AutoCAD Civil3D. The model was then used to generate construction documents and quantities.

St. James - Ascension Master Drainage Plan / Flood Protection Project - *St. James and Ascension Parishes, LA* - Civil Engineer: Surveyed existing culverts in St. James Parish, analyzed data, and reassessed deficiencies to provide a suitable solution. Assisted in creating plan sheets of analyzed culverts to provide the Parish with a Master List. Created existing and proposed surface models in AutoCAD Civil 3D.

Upper Barataria Risk Reduction Project Phase 1-2019 Tasks - *Lafourche and St. Charles Parishes* - Created an AutoCAD Civil 3D model of the proposed levee system using LiDAR data for preliminary design. This included the creation of the levee baseline as well as a corridor based on slope stability information provided by the geotechnical engineer. He was responsible for the hydraulic design of the closure structure on the Godchaux Canal ensure that proper tidal flow is maintained in the area. He also directly assisted the structural engineering team in the design of the access road bridge that will span Godchaux Canal. His responsibilities for bridge design included setting the bridge low chord elevation based on available water elevation information as well as laying out the General Bridge Plan and Elevation drawings. He also served as the point-of-contact for coordination with the pipeline companies in the area that will be affected by the new levee system.

St. James Interior Drainage (Matherne, David, Woods Canal) - *St. James Parish, LA* - Reviewed and prepared final plans for the improvement of lateral ditches and culverts along LA 3125. Responsibilities included performing Rational Method calculations for sizing culverts and calculating quantities for ditch improvements and outfall armoring. Carried out Construction Administration responsibilities including preparing bid documents, tabulating bids, performing periodic site visits, and generating closeout documents.

West Shore Levees and Floodwalls - *St. Charles, St. John the Baptist, and St. James Parishes, LA* - Civil Intern/Engineer: Calculated quantities for access roads as well as creating levee cross-sections for a new multiparish hurricane protection levee project extending from St. Charles to Ascension Parish. A feasibility study evaluated several alternate alignments and pump station locations for the proposed levee system.

East Bank Floodgate Painting and Repairs EB1 - EB74 - *New Orleans, LA* - As Civil Engineer calculated quantities for sandblasting, painting, replacing seals, and repairing sills. Served as Resident Inspector for the removal and replacement of the floodgates during construction.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Andrew R. Jensen, PE <i>Civil Engineer</i>
Project Assignment
Civil Engineer (Minimum Qualifications No. 3)
Name of Firm with which associated

Years' experience with this Firm:
10
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 2014 / Civil Engineering
Active registration: Year first registered/discipline
2019 / Professional Engineer State of LA / No. 43382
Other experience and qualifications relevant to the proposed project:
<p>Mr. Jensen joined the BKI Team in 2014 after earning his Bachelor of Science in Civil Engineering from the University of New Orleans. He has worked on various projects involving roadway and drainage and flood protection and has experience performing drainage calculations, providing plans and cost estimates, and providing construction administration. Mr. Jensen is proficient in AutoCAD Civil 3D, AutoTurn, and InRoads software.</p> <p><i>Mr. Jensen's applicable projects are listed on the following page.</i></p>

Mr. Jensen has worked on the following applicable projects:

Plum Orchard Group C RR136 (FRC) and Group D RR137 (FRC) - New Orleans, LA - Performed all civil engineering design services for urban street full reconstruction projects involving 11 blocks at a construction cost of about 6 million dollars. Pavement, drainage, water and sewer utilities are being replaced as part of the projects.

RR198: West End Group F - New Orleans, LA - Performed all civil engineering design services for urban street complete reconstruction projects involving 14 blocks at a construction cost of over 10 million dollars. Pavement, water, and sewer utilities are being replaced as part of the projects. The drainage system was analyzed, and improvements were made to relieve drainage issues in the neighborhood.

FEMA Lower Ninth Ward Northwest Group B RR109 (FRC) Reynes Street Improvements - New Orleans, LA- Performed all civil engineering design services for urban full street reconstruction projects involving dozens of blocks at a construction cost of tens of millions of dollars. Pavement, drainage, water and sewer utilities are being replaced as part of the projects.

Causeway Blvd. - Earhart Expressway Interchange - Metairie, LA - Prepared both horizontal and vertical geometric design for elevated direction ramps for a new interchange. Prepared geometric layout, geometric control, curve data, and typical sections plans sheets. Prepared hydraulic calculations for storm drainage system and design drainage maps.

LA 466 / 5th Street Improvements - Gretna, LA - Assisted the lead designer in the development of typical roadway sections and horizontal alignments. The focus of the project is to provide maximum safety and accessibility for bicyclists and pedestrians within the existing right of way through a busy section of 5th Street in Gretna. The design conformed to LADOTD Complete Streets policy.

Reynes Street Improvements - New Orleans, LA - Prepared plans, specifications, and detailed quality estimates for a full roadway reconstruction project including new roadway pavement, sidewalks, ADA ramps, driveways, drainage infrastructure, gravity sewer, and water utilities.

Mandeville Bypass - Mandeville, LA - Assisted with geometric layouts for line and grade studies. Preliminary plans included the preparation of typical sections, plan/profile sheets, existing and design drainage maps, geometric layouts, sequence of construction, and cross sections; and the generation of existing and proposed surface models in AutoCAD Civil 3D.

St. James Parish Master Drainage Plan - St. James Parish, LA - Provided drainage calculations in the preparation of a Master Drainage Plan for the area in St. James Parish bounded by Hope Canal, the Mississippi River, Panama Canal/Bayou Conway, and Lake Maurepas. The goal of the study was to alleviate flooding in subdivisions and agricultural lands through development of improved outfalls. The Master Drainage Plan resulted in BKI's participation in an Eastbank-wide culvert analysis and design program partly funded by GOHSEP grants.

City of Gretna Downtown Drainage Improvements - Gretna, LA - Provided a technical design and constructability review for a layered green and grey stormwater infrastructure project within the city's downtown area. The project was part of FEMA's LASAFE program, which addresses community resiliency.

Lafitte Area Independent Levee District Tidal Levee Protection System - Pallet Basin, -Jefferson Parish, LA- Civil Engineer: Assisting in plans and specifications and cost estimates for a flood protection system for the town of Jean Lafitte. The project includes levees, floodwalls, and pump stations.

St James / Ascension Storm Surge Flood Protection Project -St. James/Ascension Parishes, LA- Civil Engineer: Assisted in the feasibility study and conceptual design of geometric layout of a flood protection system feasibility study including levees T-walls, pump stations. Created existing and proposed surface models in AutoCAD Civil 3D.

Upper Barataria Risk Reduction Project -St. Charles & Lafourche Parishes, LA- Civil Engineer: Assisted in the design, production of deliverables, cost estimating, and civil engineering for a Hurricane & Storm Damage Risk Reduction project protecting six parishes in Louisiana including earthen levees, floodwalls, and pump stations.

St. Charles Parish West Bank Hurricane Protection System - St. Charles Parish, LA - Civil Engineer: performed design tasks and provided construction administration for 5.5 miles of levee construction including two drainage pump stations as part of a project to reduce storm surge on the west bank of the parish.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Renee Poole, PE <i>Civil / Hydraulic Engineer</i>
Project Assignment
Civil / Hydraulic Engineer
Name of Firm with which associated
 The logo for BKI Burk-KleinPeter, Inc. features the letters 'BKI' in a large, bold, blue font. To the right of 'BKI', the company name 'BURK-KLEINPETER, INC.' is written in a smaller, blue, sans-serif font. Below the company name, the words 'ENGINEERING', 'PLANNING', and 'ENVIRONMENTAL' are listed in a very small, blue, sans-serif font, separated by small dots.
Years' experience with this Firm:
5
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 2019 / Civil and Environmental Engineering
Active registration: Year first registered/discipline
2023 / Professional Engineer, State of LA / No. 47869
Other experience and qualifications relevant to the proposed project:
<p>Ms. Poole joined BKI after obtaining a degree in Civil and Environmental Engineering. She is proficient in MicroStation V8, AutoCAD, HEC-RAS, and HYDR-WIN. Her professional experience has focused on hydrologic and hydraulic analyses as well as drainage system improvements. Ms. Poole serves as Director and Recreation Committee Chair of the American Concrete Institute, Louisiana Chapter, and is a member of the American Public Works Association. She served as President of the Society of Women Engineers' student chapter, team facilitator of the senior capstone design project, and conference chair of both the ASCE and ACI student chapter.</p> <p><i>Ms. Poole's applicable projects are listed on the following page.</i></p>

Ms. Poole has worked on the following applicable projects:

Westbank Master Drainage Plan - *Jefferson, LA* - Project included PC SWMM models divided into four major basins. Analyzed the current conditions of the Cataouatche region. Updated the model with past project as-builts. Compared available LiDAR information. Created flood inundation maps for multiple storm events to show problem and flood-prone areas. Obtained and added the RL – SRL properties to said maps. Created individual models and updated each with possible improvements to present to Jefferson Parish. Created cost-benefit ratios for perpetual updates and the report. Currently rating individual culverts from sub-consultant's pipeline assessment and updating the master report.

25th Street Canal Drainage Improvements Project - *Gretna, LA* - Analyzed the existing drainage system throughout the entire neighborhood to determine where to add equalizer pipes, how and where to reroute the flow towards the proposed pump station in a flooding event, and how to overall improve the drainage system. Began preliminary drainage design and completed a conceptual submittal of our preliminary plans for FEMA to review.

Harrison Ave. Urban Ponds - *St. Tammany Parish, LA* - Responsible for the planning and conceptual design and recommendation report identifying available properties as potential urban stormwater pond locations. Components of the conceptual design and report included: a field investigation of existing conditions, LiDAR processing, research on the Parish's tax assessor website, watershed determination, locating multiple areas of potential benefit, locating available lots for potential pond sites, creating maps to show said lots and current Parish-owned properties, and overall project concept. Task 2 will include developing plans and specifications from the conceptual design.

RR136 Plum Orchard Group C (FRC): - *New Orleans, LA* - Completed a full drainage analysis including all necessary calculations, assumptions and reports. Created the roadway profiles to meet city standards and tie-in to the existing locations at multiple intersections and driveways. Created the complete sub-surface network analysis, for water, sewer, and drainage. Worked with the city to determine the final scope of the project. Also, put together the project specifications, cost estimate, and scoping report. Helped to complete the preliminary design.

Breaux Ditch Improvements - *Jefferson Parish, LA* - Updated the cost estimate and answered contractors questions regarding the design and specifications. Handled the small design and spec changes, created all the necessary addenda and contract documents, bidding process, and construction administration including: reviewing inspector reports and documents from the contractor, holding progress meetings, and overall staying on top of the project's progress from the consulting engineer's position.

Mandeville By Pass - *Mandeville, LA* - Providing civil engineering services and drainage calculations for the preparation of line and grade studies. Preliminary plans included the preparation of typical sections, plan/profile sheets, existing and design drainage maps, geometric layouts, sequence of construction, and cross sections.

City of Gretna Downtown Drainage Improvements - *Gretna, LA* - Providing civil design services and drainage calculations for the preparation of line and grade studies. Preliminary plans included the preparation of typical sections, plan/profile sheets, existing and design drainage maps, geometric layouts, sequence of construction, and cross sections.

St. James Parish Master Drainage Plan and Design Program - *St. James Parish, LA* - Reviewed and assisted in preparing final plans for the improvement of lateral ditches and culverts along LA 3125. Assisted in performing Rational Method calculations for sizing culverts and calculating quantities for ditch improvements and outfall armoring. Aided with Construction Administration responsibilities including preparing bid documents, tabulating bids, performing periodic site visits, and generating closeout documents.

Rural Bridge Replacement Initiative projects - *Multiple Parishes, LA* - Completed the hydrologic, hydraulic and scour analyses for this project. Found the drainage area, hydrologic length, slope, and soil classification to calculate the existing channel's flow. Cut cross sections of the channel. Created a HEC-RAS model to analyze the existing structure and channel. Worked with the roadway team to determine a suitable low chord for the proposed bridge. Created a new HEC-RAS model for the proposed bridge and new geometry of the channel. Used the HEC-RAS model to analyze the proposed scour. Completed the criteria and hydraulic reports for this project.

St. James Parish Interior Drainage Improvements - Driveway Culverts - *St. James Parish, LA* - Creating design documents for an inventory of existing driveway drainage culverts including their size, type, and condition. Analyzed existing culverts capacities and made recommendations for improvements.

Reynes Street Improvements - *New Orleans, LA* - Reviewed contractor's project and product submittals and assisted in the preparation of plans, specifications, and detailed quality estimates for a full roadway reconstruction project (Reynes Street from North Claiborne Avenue to Florida Avenue) including new roadway pavement, sidewalks, ADA ramps, driveways, drainage infrastructure, gravity sewer, and water utilities.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Daniel S. Caluda <i>Mechanical Designer</i>
Project Assignment
Mechanical Designer
Name of Firm with which associated

Years' experience with this Firm:
37
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 1981 / Petroleum Engineering
Active registration: Year first registered/discipline
N/A
Other experience and qualifications relevant to the proposed project:
<p>Mr. Caluda is an Associate with major technical responsibility in the Mechanical Engineering Division of BKI. He has over 40 years of experience and holds a Bachelor of Science in Petroleum Engineering from Louisiana State University in Baton Rouge. Mr. Caluda's professional experience includes drainage, water and sewer utilities, HVAC, plumbing, sprinklers, and mechanical/industrial systems. Mr. Caluda has provided mechanical design services for dozens of pump stations in the Greater New Orleans region and has overseen design and construction of two of the largest pump stations in the world. His design and construction experience has also led to providing supervision for pump station operations as well as training of pump station operators.</p> <p><i>Mr. Caluda's applicable projects are listed on the following page.</i></p>

Mr. Caluda has worked on the following applicable projects:

Ascension Storm Surge Protection - *Ascension Parish, LA* - Mechanical Designer provided pump station modification plans, specifications, and cost estimates for increasing the capacity of the Sorrento Pump Station and 5 floodgates along the levee alignment. Also provided construction administration and closeout services for the project.

Sunset Drainage Pumping Station Rehab - *St. Charles Parish, LA* - Performing mechanical design services for the proposed pump station including headloss calculations and horsepower requirements to achieve the required design flows.

Sunset Pump Station Bar Screen - *St. Charles Parish, LA* - Provided Mechanical Design Services for the produce screening and cleaner elements, including the 7 screen bays, to remove intake debris for the 1700 CFS influent Sunset/Crawford Canal drainage pumping stations. Each bay is fitted with Flex Rake type screen cleaner to remove all screened debris and deposit it on a pre-cast standalone bridge deck that spans the entire canal.

25th Street Canal Drainage Improvements Project - *Gretna, LA* - 25th Street Canal Drainage Improvements Project (Resiliency District) - *Gretna, LA* - Completed the mechanical design for the alternate routing of stormwater runoff during high-intensity rain events and mitigate flooding from the Heebe Canal. Using a combination of state funding, CDBG funds & FEMA Flood Mitigation Grant Dollars *Gretna* was able to not only lessen runoff and required pumping capacity but also to provide recreational aesthetic amenities for the neighborhood residents.

Taft Park Drainage Pumping Station - *Metairie, LA* - Provided mechanical design for the drainage pump station, including distribution, controls, and a standby generator. This was a Hazard Mitigation Grant Program funded project.

Marvin Braud Drainage Pump Station - *Ascension Parish, LA* - Mechanical Designer for pump station improvements and additions included a new station with 2,000 CFS of pumping capacity. The new pumping station had a pile-supported intake basin and concrete discharge tubes, a steel-framed superstructure, and two 1,000 CFS pumps with diesel drives and gear reducers.

Cousins Pump Station Complex Floodwalls and P.S. Expansion - *Jefferson Parish, LA* - Mechanical Designer: Mr. Caluda provided mechanical design for a 2,000 CFS addition to the Cousins Pump Station in Jefferson Parish. The station expansion includes two horizontal pumps and concrete discharge tubes.

PCCP Extension of Staff Services - *New Orleans, LA* - Operations Manager / Mechanical Designer: Provided all technical oversight on behalf of the CPRA to review all phases of construction adherence to contract documents for over 70 features of design and construction associated with each of the three pump stations: the 17th Street Canal (12,500 CFS), the Orleans Avenue Canal (2,700 CFS) and the London Avenue Canal (9,000 CFS).

Drainage Pump Station Nos. 6 and 7 Refurbishment - *St. Bernard Parish, LA* - Provided mechanical design for the repair of vertical pumps at Lake Borgne Basin Levee District Pump Station 6 and rehabilitating and recoating the discharge piping at Pump Stations 6 and 7.

St. Charles Parish - Willowridge Pump Station - *St. Charles Parish, LA* - Mechanical design for a new 300 CFS drainage pump station including bar screens, pump station structure, three 100 CFS vertical pumps with electric motors, backup generator and discharge pipes located in the Willowridge Subdivision on the west bank of St. Charles Parish.

Willowridge, Ellington, and Magnolia Ridge Drainage Pumping Stations - *St. Charles Parish, LA* - Mechanical design for the Willowridge DPS, a new 300 CFS station including a pump station structure, three 100 CFS vertical pumps with electric motors, backup generator and mechanical bar screen cleaners. For Ellington and Magnolia Ridge DPS, Mr. Caluda provided technical guidance and review for the development of the drainage pumping station pump suction and discharge models and pump model.

Eastbank Drainage - *St. Charles Parish, LA* - Design of a 500 cfs addition to Destrehan Drainage Pump Station No. 2 and for a 54 cfs addition to Dianne Place Drainage Pump Station on the East Bank of St. Charles Parish.

Harahan Pumping Station (Pump to the River) Design Documentation Report - *Harahan, LA* - Mechanical Design for the proposed 1,200 cfs Harahan Pumping Station that will pump stormwater to the Mississippi River.

Lakewood Area Drainage Improvements - *Boutte, LA* - Design for a 56-cfs addition to Lakewood Drainage Pump Station DW4A and a 41-cfs addition to Lakewood Drainage Pump Station DW4 on the West Bank of St. Charles Parish.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Farhad "Fred" Mogharrebi, PE <i>Structural Engineer</i>
Project Assignment
Structural Engineer
Name of Firm with which associated

Years' experience with this Firm:
3
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 1983 / Civil Engineering
Active registration: Year first registered/discipline
1998 / Professional Engineer, State of LA No. 27984
Other experience and qualifications relevant to the proposed project:
<p>Mr. Mogharrebi is a Structural Engineer with over 27 years of engineering experience with a focus on USACE flood control projects, pumping stations, water works, port and airport projects as well as other civil/structural projects. A registered Professional Engineer in Louisiana since 1998, Mr. Mogharrebi received his Bachelor of Science in Civil Engineering from Louisiana State University in 1983 and is a member of the Louisiana Engineering Society.</p> <p><i>Mr. Mogharrebi's applicable projects are listed on the following page.</i></p>

Mr. Mogharrebi has worked on the following applicable projects:

25th Street Canal Drainage Improvements - Gretna, LA - Provided structural design services for over 2000 feet of sheet pile wall which was installed to secure the bank and allow for flap gate installation. In order to manifold the drainage system and force the runoff to the pump station over 5400 feet of new drainage pipe was installed. Green Infrastructure techniques such as Gabion retaining walls, bioswales and riparian plantings were used along the upstream portions of the 25th Street Canal to not only lessen runoff and required pumping capacity but also to provide recreational aesthetic amenities for the neighborhood residents.

Ascension Storm Surge Protection - Ascension Parish, LA - Provided structural pump station modification plans, specifications, and cost estimates for increasing the capacity of the Sorrento Pump Station. Provided structural design, plans, specifications, and cost estimates for 5 floodgates along the levee alignment. Provided construction administration and closeout services for this project.

Sunset Drainage Pumping Station Rehab - St. Charles Parish, LA - Performing structural design of the pump mounts and other structural elements for the proposed pump station.

Sunset Pump Station Bar Screen - St. Charles Parish - Structural Engineer for the produce screening and cleaner elements, including the 7 screen bays, to remove intake debris for the 1700 CFS influent Sunset/Crawford Canal drainage pumping stations. Each bay is fitted with Flex Rake type screen cleaner to remove all screened debris and deposit it on a pre-cast standalone bridge deck that spans the entire canal.

Slidell Ring Levees Analyses-Phase 3 - Slidell, LA - Provided Visual inspection and Evaluation for 2 existing Pumping Stations: Kingspoint and Oak Harbor from landside to determine condition of each structure: conducted visual inspection of the conditions of the sub and superstructure within accessible limits for both Pumping Stations for any visible damage or deficiencies or potential degrading of members. Recorded, evaluated the findings, and reported results and recommendation to Saint Tammany Parish, Authority in Charge of Operation and Maintenance of these structures for further action.

UBRR Segments 4 & 5 Alternatives Hydraulic Study - Lafourche Parish, LA - Performed structural analysis of the flood control structure. Modified the gate design as required by the HEC-RAS analyses.

Rural Bridge Replacement - Various Parishes, LA - started this project in April-2021 and am responsible for entire structural design and rating of this bridge Sub-&-Superstructure by HL-93 (INV & OPR), and LADV-11.

Nashville Wharf Pile Failure Port of New Orleans - New Orleans, LA - Civil Engineer completed inspections of the Nashville Wharf for damage caused by the failed pile area and adjacent areas upstream/downstream from impacted section of the wharf to assist the port in assess next steps to correct the correct the issues with and caused by the pile failure.

St. Charles Westbank Levee - St. Charles Parish - Structural Engineer on multiple project tasks assigned under this contract such as USACE WBV-74 for decennial dewatering, inspections, and repairs requiring plans and specifications for structural inspections including fracture-critical members (sector gate including control house, needles, and bulkheads; sluice gates including stoplogs; dolphins and guidewalls structures - including timber piles); Cousins Pumping Station swing gate monolith (assisted in FEL effort and related cost estimate of structural portion of the task); and New Bayou Gauche Pumping Station (structural design of new concrete monolith and piling support mechanical barrier screens for trash and debris removal, sheetpile retaining walls, pre-cast concrete access bridge, piling, and approach slabs).

Berth Inspection and Load Rating Services for Violet Berth - Violet, LA - Structural Engineer completed inspections post Hurricane Ida. Confirmed berth is structurally sound and could utilize the previously used facilities for current needs to berth cruise ships and other approved marine vessels.

Lafitte Area independent Levee District Tidal Levee Protection - Lafitte, LA - Lead structural designer of the Lafitte/Paillet Tidal Protection project. Design elements included 5 floodgates, sheet pile bukthead wall and pump station discharge tube extension and supports.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
<p>Thomas P. Garsaud <i>Resident Inspector</i></p>
Project Assignment
<p>Resident Inspector</p>
Name of Firm with which associated

Years' experience with this Firm:
<p>44</p>
Education: Degree(s)/Year/Specialization:
<p>N/A</p>
Active registration: Year first registered/discipline
<p>N/A</p>
Other experience and qualifications relevant to the proposed project:
<p>Mr. Garsaud is a Resident Inspector with BKI. He is responsible for independent record keeping, preparation of daily and weekly reports for inspection testing, interpretation of plans and specifications, and observation of construction activities to check adherence to safety practices and requirements. Since 1980, Mr. Garsaud has provided public and private clients with professional resident inspection and construction administration services for civil, structural and mechanical engineering projects. He is a LADOTD Certified Asphalt Pavement Inspector and an ACI Certified Concrete Technician.</p> <p><i>Mr. Garsaud's applicable projects are listed on the following page.</i></p>

Mr. Garsaud has worked on the following applicable projects:

Caernarvon Drainage Station, P.S. No. 8, Lake Borgne Levee District - *St. Bernard Parish, LA* - Project representative of a new 1,000 CFS storm drainage pumping station. The project included concrete sump and pile supported pump foundation, steel grate trash racks with automatic trash rakes, three diesel driven vertical lift storm water pumps (330 CFS each), pump house superstructure, and construction cofferdams. Followed state specifications and project specifications.

Florissant Levee & Pumping Station, Lake Borgne Levee District - *St. Bernard, LA* - Project Representative of a new 1,000 cfs drainage pumping station. Project included a concrete sump and pile supported pump foundation, steel grate trash racks with automatic trash rakes, three diesel driven vertical lift storm water pumps (330 CFS each), pump house superstructure, emergency power generator, concrete floodwalls and levees, and construction cofferdams.

Guerenger Canal Drainage Improvements, Lake Borgne Basin Levee District - *St. Bernard Parish, LA* - Resident Project Representative. Project consisted of channel excavation (widening) utility adjustments, sheet piling, timber piling and base slabs. Followed state manuals for testing and procedure. Followed state/project specifications.

Southeast Louisiana Submerged Roads Program - *Southeast Louisiana* - Inspector for asphalt overlays, base repairs and concrete walks, and drive repairs for submerged streets in New Orleans following Hurricane Katrina. The \$150 million street reconstruction Phase 1 project also included Jefferson and St. Bernard Parishes

Post Katrina Damage Assessments / Litigation - *New Orleans, LA* - Inspection services associated with preliminary engineering assessments of damage to the Port of New Orleans facilities as a result of Hurricane Katrina and Hurricane Rita. BKI's services included survey of structural, mechanical and electrical systems for over 39 structures, cargo marshalling yards and service areas covering 9 linear miles of wharves and ports for damage, fender pile inspection, preliminary cost estimates and recommendations for repairs to restore the Port to normal operations.

St. Charles Parish West Bank Hurricane Protection System - *St. Charles Parish, LA* - Provided resident inspection for the St. Charles Parish West Bank Hurricane Protection System to reduce damage caused by storm surge. BKI's duties included the preparation of plans and specifications, bidding assistance, construction administration, and permitting.

Stumpf Blvd Improvements - *Gretna, LA* - Project Representative responsible for closing in an open canal with culvert system, waterline relocation, and roadway replacement.

Ridgelake Drive at West Esplanade Intersection Improvements - *Metairie, LA* - Resident inspection for the addition of turning lanes, a new concrete culvert in Canal No. 2, a new signalization system and the upgrading of existing pavement.

Jefferson Parish Linear Park Bike Path (Duncan Canal to St. Charles Parish Line) - *Jefferson Parish, LA* - Resident Project Representative for concrete-lined drainage channel improvements, including u-shaped concrete flume with slope-paved sides.

Permanent Canal Closures and Pump Stations (PCCP) Extension of Staff Services - *Orleans Parish, LA* - Performed periodic construction inspection services on behalf of the CPRA to review all phases of construction adherence to contract documents for over 70 features of design and construction associated with each of the three pump station sites.

Sidell Ring Levee Analyses - *Slidell, LA* - Provided resident inspection for the 4.19 mile Oak Harbor Levee System and the 4.49 mile Kingspoint Levee System. Inspections were also performed on the 240 CFS Oak Harbor Pump Station and the 240 CFS Kingspoint Pump Station. The inspections documented the existing condition of the levees and pump stations, highlighting any deficiencies. Deficiencies were rated from 1 to 5 and repair recommendations were made based on the severity of the defects.

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:	
<p>Jefferson Parish Westbank Master Drainage Plan</p> <p><i>Jefferson Parish, LA</i></p> <p>Ben Lepine</p> <p>Jefferson Parish Government 1221 Elmwood Park Blvd Jefferson, LA 70123 (504)736-6751</p>	<p>BKI was selected by Jefferson Parish to update the existing PCSWMM models with over 20 capital improvement projects that were constructed since 2018 as part of the Corps SELA Project Program. BKI obtained the latest Lidar data available to spot check elevations in the model and updated the model as necessary. BKI then ran the updated existing PCSWMM 10- and 100-year models. After completing these runs, an atlas of 10- and 100-year water surface elevations along all major canals of the Westbank of Jefferson Parish was completed. High water surface elevations were analyzed using the atals and FEMA repetitive – Severe Repetitive Loss Properties. Post analysis, a design criteria list was created to rank improvement projects that would lower water surface elevations and reduce the number of Repetitive – Severe Repetitive Loss properties.</p> <p>BKI then embarked on modeling proposed conveyance improvement projects for task as well as catalogued the type, size and condition of existing outfalls. BKI then began developing a recommendation list of improvements to drainage the basin. In addition, BKI reviewed and recommended pump station capacity increases for the basin to lower water surface elevations. As a supplemental, outfalls were evaluated based upon the matrix of outfall type, size, age and work order history of repairs. Finally, a report consisting of the PCSWMM models, cost estimates and the information listed above will be delivered.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Ongoing	\$846,342	\$846,342(Fee)

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>25th Street Canal Drainage Improvements Project (Resiliency District)</p> <p><i>Gretna, LA</i></p> <p>Amelia Pellegrin</p> <p>City of Gretna 740 2nd Street Grenta, LA 70053 (504)363-1568</p>	<p>The 25th Street Canal Neighborhood in Gretna, Louisiana experiences the worst repetitive flood claims in the State of Louisiana. The neighborhood flooding occurs when the Heebe Canal backflows into the 25th Street Drainage Canal and overtops its banks. Using a combination of La. State Capital Outlay funds, CDBG funds and FEMA Flood Mitigation Grant Dollars, the City of Gretna awarded BKI the Design, Construction Administration and Resident Inspection Services on the project. The estimated construction costs is \$13,970,000. The components of the project consist of both Green Infrastructure and Grey Infrastructure. Currently, the neighborhood is a Gravity Drainage System using both the 25th Street Canal and several outfall pipes into the Heebe Canal. After performing Hydraulic Modeling using the United States Army Corps of Engineers Software (HEC RAS), it was determined that a 350 cubic feet per second pump station would be built at the confluence of the 25trh Street and Heebe Canals.</p> <p>In addition, the gravity drainage system would be manifolded to route all the runoff to the Pump Station by placing flap gates on the existing outfall drainage pipes, reversing drainage pipe grades and installing Green Infrastructure to reduce runoff.. Because the Eastern Bank of the Heebe Canal was failing, Over 2000 feet of sheet pile wall was installed to secure the bank and allow for flap gate installation. In order to manifold the drainage system and force the runoff to the pump station over 5400 feet of new drainage pipe was installed. Green Infrastructure techniques such as Gabion retaining walls, bioswales and riparian plantings were used along the upstream portions of the 25th Street Canal to not only lessen runoff and required pumping capacity but also to provide recreational aesthetic amenities for the neighborhood residents.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
12/2024 (Est)	\$1,336,595	\$1,011,470 (Fee)

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Maplewood Area Drainage Improvements</p> <p><i>Jefferson Parish, LA</i></p> <p>Mark Drewes, PE</p> <p>Jefferson Parish Government 1221 Elmwood Park Blvd Jefferson, LA 70123 (504)736-6494</p>	<p>Burk-Kleinpeter, Inc. was selected by Jefferson Parish, LA, to provide engineering services for drainage improvements in the Maplewood subdivision area, which had historically flooded during intense rainfall events. FEMA Hazard Mitigation Grant Program funds were awarded to Jefferson Parish after Hurricane Gustav.</p> <p>BKI provided preliminary and final engineering design, bidding assistance, construction administration, and resident inspection services. Work included the design and installation of 9,100 linear feet of subsurface culverts, 33 junction boxes, 80 catch basins, and 3,500 square yards of paving. A major part of BKI's effort was performing the design and construction with cost control and performance schedules to maximize the available grant funds.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
08/2018	\$10,070,886	\$201,327 (Fee)
PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Avenue D Canal Drainage Improvements</p> <p><i>Jefferson Parish, LA</i></p> <p>Mark Drewes, PE</p> <p>Jefferson Parish Government 1221 Elmwood Park Blvd Jefferson, LA 70123 (504)736-6494</p>	<p>Burk-Kleinpeter, Inc. was selected by the Jefferson Department of Public Works to oversee the design and construction of subsurface drainage improvements in the King's Grant/Avenue "D" Subdivision on the Westbank of Jefferson Parish. The project included the removal of existing storm drain pipe and existing roadway, and the construction of new concrete curb, pavement, and storm drain pipe.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
12/2017	\$3,000,000	\$227,500 (Fee)

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Bellemeade Area Drainage</p> <p><i>Jefferson Parish, LA</i></p> <p>Mark Drewes, PE</p> <p>Jefferson Parish Government 1221 Elmwood Park Blvd Jefferson, LA 70123 (504)736-6494</p>	<p>Burk-Kleinpeter, Inc. was selected by Jefferson Parish Department of Public Works for the construction of a gravity collection culvert system on Bellemeade Boulevard and Brookmeade Drive between Briargrove Street and the Weyerauch Canal. Our professional services included engineering design, preparation of preliminary and final plans, specs and estimates, bidding assistance, construction administration and resident project representative services. In order to determine the best solution to the drainage problems in the area, BKI incorporated previous studies and modeling efforts that were provided by Jefferson Parish. BKI provided preliminary and final engineering design, bidding assistance, construction administration, and resident inspection services. The project included the design and installation of 2,800 linear feet of subsurface culverts, 14 junction boxes, 10 catch basins, and 6,000 square yards of paving. Coordination with all utilities for potential conflicts and required relocations was required, as well as repaving of all streets damaged or removed to allow construction of subsurface drains and utility relocations.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
04/2012	\$4,000,000	\$338,364 (Fee)
PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>City of Gretna Downtown Drainage Improvements</p> <p><i>Gretna, LA</i></p> <p>Amelia Pellegrin</p> <p>City of Gretna 740 Second Street Gretna, LA 70053 (504) 363-1568</p>	<p>Burk-Kleinpeter, Inc. was selected for the design and engineering of a layered green and grey stormwater infrastructure project within the City of Gretna's downtown area. To alleviate localized stormwater flooding issues, the project uses green infrastructure improvements along the public right-of-way to meet multiple demands: stormwater management; continued revitalization in the downtown area; and improved public right-of-way safety and accessibility. The project incorporated stormwater drainage improvements with green infrastructure elements such as pervious pavement and plantings to reduce runoff and improve water quality.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
09/2018	\$4,200,000	\$94,000 (Fee)

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p align="center">Hancock Street Canal Improvements</p> <p align="center"><i>Gretna, LA</i></p> <p align="center">Matthew Martinec</p> <p align="center">City of Gretna 740 Second Street Gretna, LA 70053 (504) 363-1568</p>	<p>Burk-Kleinpeter, Inc. was selected by the City of Gretna to provide engineering design and construction administration services associated with the closure of the Hancock Street Canal between Kepler Street and Virgil Street in the Gretna, LA. The finished canal consisted of a reinforced concrete arch pipe section 45x73 in the existing earthen canal along with all necessary drainage infrastructure tie-in and utility relocation. Additionally, decorative light fixtures were installed along the newly created boulevard. The design and construction of the project was funded through the State of Louisiana, Division of Administration, Office of Facility Planning and Control, via the Capital Outlay Program.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
04/2014	\$2,200,000	\$296,000(Fee)
PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p align="center">Jefferson Parish Drainage Improvements at Taft, Turnbull & Belmont</p> <p align="center"><i>Jefferson Parish, LA</i></p> <p align="center">Mark Drewes, PE</p> <p align="center">Jefferson Parish Government 1221 Elmwood Park Blvd Jefferson, LA 70123 (504)736-6494</p>	<p>Burk-Kleinpeter, Inc. was selected by Jefferson Parish to design the new Taft Park Drainage Pumping Station project at Taft Park and 35th Street in Metairie, LA. This project was designed to drain the low-lying neighborhood located between West Napoleon Avenue and I-10 from Taft Park to North Turnbull Drive. This area was subjected to numerous flood events due to the low elevation of the natural ground in the area. The pump station was designed to pump the 10-year storm runoff completely out of the area and discharge it into the Suburban Canal north of I-10. The project included a new 63 CFS pumping station; new gravity collection drains on Taft Park, Belmont and North Turnbull Drive between West Napoleon and the I-10 South Service Road; and a new effluent force main from the new pump station routed to the West Napoleon Canal south of the station. The pump station consisted of three 20-inch vertical pumps with a 36-inch effluent force main and a backup power generator for emergency power. The gravity collection system included new drainage catch basins, gravity storm drain pipes varying from 30 inches up to 60 inches in diameter. The streets within the limits of construction were completely reconstructed after drain culverts were installed. Water and sewer relocations were also required. BKI provided all preconstruction engineering services, bidding assistance, construction administration, and resident project representative services throughout the construction period.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
09/2015	\$3,743,560	\$689,713 (Fee)

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Breaux Ditch Improvements</p> <p><i>Jefferson Parish, LA</i></p> <p>Mark Drewes, PE</p> <p>Jefferson Parish Government 1221 Elmwood Park Blvd Jefferson, LA 70123 (504)736-6494</p>	<p>Burk-Kleinpeter, Inc. was selected by Jefferson Parish Department of Public Works to design improvements to the existing Breaux Ditch (approx. 1500 feet) located on the west bank between East Ames Blvd. and Leo Kerner Pkwy. The existing ditch was located in a 35-ft wide right-of-way and was proposed to be replaced with a concrete flume. The existing ditch was shallow with a difference in bank elevation of approximately 2 feet. BKI proposed 8' wide x 4' deep reinforced concrete flume to provide improved maintenance and stability. This project also included relocation/removal of underground utilities or surface features as required. BKI was working on this project and was providing preliminary and final design, bidding services, construction administration, project closeout, and as-built plans.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
01/2022	\$1,400,000	\$221,975 (Fee)
PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Wardline Road Drainage Improvements</p> <p><i>Hammond, LA</i></p> <p>John Dardis</p> <p>Tangipahoa Parish Government PO Box 215 Amite, LA 70422 (985) 748-3211</p>	<p>Burk-Kleinpeter, Inc. was selected by Tangipahoa Parish to improve drainage to reduce localized flooding in the Wardline Road area from a storm with a frequency of 10 years. BKI's first task was to perform a hydrologic and hydraulic study to determine the best method of improvements. BKI also arranged and attended meetings with Parish personnel from Public Works to understand their expectations with regard to the work required and desired. In addition, BKI assisted the Parish in the preparation of GOHSEP application for funding, including attending several meetings and hosting a meeting with GOHSEP personnel. BKI coordinated with the local Drainage District, then designed the drainage improvements and the widening of Wardline Road. BKI submitted 30%, 60%, 90%, and final plans and specifications to both the Parish and to GOHSEP for review. The construction cost of the project is approximated at \$1.2 million.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
04/2018	\$1,200,000	\$208,740 (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. N/A	N/A	N/A
2. N/A	N/A	N/A
3. N/A	N/A	N/A
4. N/A	N/A	N/A

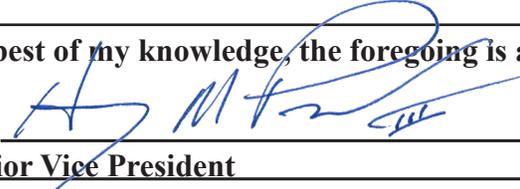
N. Use this space to provide any additional information or description of resources supporting Firm’s qualifications for the proposed project.

BURK-KLEINPETER, INC., (BKI) is pleased to submit our Statement of Qualifications Parish of Jefferson in response to your public notice for **SOQ 24-015 Resolution 144202 Routine Engineering Services for Drainage Projects** As a certified small business with over 100 years of experience, BKI is one of the leading consulting firms in the southeast region providing professional engineering (civil, hydraulic, and structural), mechanical design, planning, and environmental services to public and private clients throughout the southeastern US. The firm’s engineering practice has consistently ranked among the top 20 firms in the southern states. We were recently recognized as part as part of the 2022 UNO25 class which recognizes 25 businesses that are making an impact on the community.

BKI’s stability and depth of experience has provided numerous state and local public works authorities, including Jefferson Parish, with consulting services for the successful completion of a wide range of projects. With a multidisciplinary platform of experience and abilities, BKI integrates the proven best practices from all of our disciplines to meeting clients’ big-picture needs in an ever-changing environment. **BKI, headquartered in Kenner, has provided engineering services to Jefferson Parish for more than 40 years.** BKI, independently and in coordination with subconsultants, has over 50 years of experience performing a variety of engineering services on drainage public works projects including drainage improvements design, construction administration, and resident inspection services.

(See Additional Pages)

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

Signature:  Print Name: Henry M. Picard, III, PE, PLS
 Title: Senior Vice President Date: 06/21/2024

MINIMUM REQUIREMENTS FOR SELECTION

1. The persons or firms under consideration shall have one principal who is a professional engineer who shall be registered as such in Louisiana

- **Michael D. Chopin, PE**, BKI's President, is a principal in the firm and a licensed, registered professional engineer in the State of Louisiana.

2. The persons or firms under consideration shall have a professional in charge of the Project who is a licensed, registered professional engineer in the State of Louisiana with a minimum of five (5) years experience in the disciplines involved (Section K. "PROFESSIONAL IN CHARGE OF PROJECT:" of the Professional Services Questionnaire).

- **Henry M. Picard, III, PE** is the Professional in Charge of Project and a licensed, registered professional engineer in Louisiana with 34 years of experience at BKI and 42 years experience as an engineer.

3. The persons or firms under consideration shall have one employee who is a professional engineer registered as such in Louisiana in the field or fields of expertise required for the project (A sub-consultant may meet the requirement only if the advertised project involves more than one discipline.)

- **Rene A. Chopin, III, PE** is a Civil Engineer and is a licensed, registered professional engineer in Louisiana with 36 years of experience at BKI.
- **David E. Boyd, PE** is a Civil Engineer and is a licensed, registered professional engineer in Louisiana with 18 years of experience at BKI.
- **Timothy J. Koenig, PE** is a Civil Engineer and is a licensed, registered professional engineer in Louisiana with 20 years of experience at BKI.
- **Andrew R. Jensen, PE** is a Civil Engineer and is a licensed, registered professional engineer in Louisiana with 10 years of experience at BKI.
- **Rene A. Chopin, IV, PE** is a Civil Engineer and is a licensed, registered professional engineer in Louisiana with 11 years of experience at BKI.

EVALUATION CRITERIA

1. Professional Training and Experience in Engineering Services for Drainage Projects

BKI has provided **engineering services** on a wide range of **drainage and flood protection projects** including pump station redesigns, Master Drainage Plans, water retention and detention ponds, hydrologic and hydraulic modeling, and Drainage Studies. BKI has nurtured a working relationship with the Jefferson Parish Engineering Department as well as the various heads of the Public Works Department to provide detailed project scopes of work and to develop an engineered solution. If we are selected to provide **Routine Engineering Services for Drainage Projects**, we will use our previous experience and working relationships to provide a successful project from conceptual design through construction.

Key personnel, with their role on this project in italics, include:

Michael D. Chopin, PE - *Principal / QA/QC; LA Registered Professional Engineer*

- **33 years of experience in civil engineering planning, design, and construction of Jefferson Parish projects**
- Wide range of experience includes **drainage and resiliency projects** as Principal, Project Manager, or Project Engineer
- Extensive background related to **Hydrologic and Hydraulic modeling**.

Henry M. Picard, III, PE, PLS - *Project Manager*

• **42 years of experience includes project management of public works projects**

- Wide range of experience as Principal, Project Manager, or Project Engineer includes many drainage projects and Master Drainage Plans.
- Extensive background related to **Hydrologic and Hydraulic modeling**

David E. Boyd, PE - *Professional Engineer*

- **20 years of engineering experience in a variety of project types including drainage design and pump station design**
- Has served as Project Manager or Project Engineer on a wide variety drainage design, and flood protection projects.
- Extensive background related to **Hydrologic and Hydraulic modeling**

2. Capacity for Timely Completion

The BKI Team's current workload and future project schedules are such that we can firmly commit our technical and support staff to meeting the requirements of this contract and fulfilling its assignments. BKI is committed to providing specialized, professional services as required under this contract. Throughout our history we have worked in close coordination with municipal, state, and

federal project staff. We have chosen our team based on proven technical and managerial track records. We are committed to providing timely performance of work to our clients and can afford to give individualized attention to keeping you abreast of each phase of the project. Since BKI is centrally located in **Kenner**, we are highly accessible and can provide support for infrastructure design and construction projects on short notice (24 hours) or within an agreed-upon time frame with engineering staff in emergency situations.

3. Location of the principal office where work will be performed

BKI's Kenner location will be the principal office where work will be performed. All staff selected for work on this project are domiciled in Louisiana and live in the greater New Orleans area.

4. BKI Work which Resulted in Litigation Between Jefferson Parish and BKI

BKI has no previous nor ongoing litigation with Jefferson Parish or any segment of the Parish government.

5. Prior successful completion of projects of the type and nature of the engineering services, as defined, for which the firm has provided verifiable resources

Over the years, BKI has provided engineering and design services for many drainage plans. BKI has successfully worked with numerous clients throughout the southeast, including several districts of the US Army Corps of Engineers on completing similar projects to protect surrounding communities.

The list below highlights BKI's major drainage project experience.

- 4th Street Extension - City of Gretna
- 25th Street Canal - City of Gretna
- Avenue D Canal Area Drainage - Jefferson Parish Department of Public Works
- Washington Ave Canal - Sewerage and Water Board of New Orleans
- Cousins Pump Station Improvements - Harvey Canal, Jefferson Parish Department of Public Works, 2000 CFS
- Drainage Pump Station No. 6 Expansion, Sewerage and Water Board of New Orleans, 3200 CFS
- I-10 / I-610 Interchange - Railroad Underpass Pump Station, Sewerage and Water Board of New Orleans, 850 CFS
- Destrehan Pump Station No. 2 Expansion, St. Charles Parish Department of Public Works, 500 CFS
- Diane Place Pump Station, St. Charles Parish Department of Public Works, 125 CFS
- Schneider Canal Drainage Pumping Station, City of Slidell, 900 CFS
- Tensas-Cocodrie Drainage Pumping Station & Gravity Flow Structure, U.S. Army Corps of Engineers, 4000 CFS
- Marvin Braud Drainage Pump Station Expansion, East Ascension Consolidated Gravity Drainage District 1, 2000 CFS
- New Taft Park Drainage Pump Station, Jefferson Parish Department of Public Works, 63 CFS
- St. Bernard Port Drainage Pump Station Rehabilitation, St. Bernard Port, Harbor & Terminal District, 40 CFS
- Drainage Pumping Station No. 8, Lake Borgne Basin Levee District, 1000 CFS
- Drainage Pumping Stations No. 6 & No. 7, Lake Borgne Basin Levee District, 1000 CFS each
- Florissant Pumping Station, Lake Borgne Basin Levee District, 53 CFS
- Reggio Pumping Station, Lake Borgne Basin Levee District, 106 CFS
- Lakewood Pump Station DW4A, St. Charles Parish Department of Public Works, 56 CFS
- Lakewood Pump Station Expansion DW4, St. Charles Parish Department of Public Works, 41 CFS
- Willowridge Drainage Pumping Station, St. Charles Parish Department of Public Works, 300 CFS
- Ellington Drainage Pumping Station, St. Charles Parish Department of Public Works, 500 CFS

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- Magnolia Drainage Pumping Station, St. Charles Parish Department of Public Works, 500 CFS
- Hero Drainage Pump Station Pumps 4 & 5 Physical Modeling, US Army Corps of Engineers, New Orleans District
- Hancock Street Canal Improvements - City of Gretna
- Stumpf Boulevard Drainage Improvements - City of Gretna
- Gretna Water Line Replacement at Whitney Canal - City of Gretna
- Lower Bayou Conway/Panama Canal Basin Improvements - East Ascension Parish Consolidated Gravity Drainage District
- Stumpf Canal - West Bank Expressway to Franklin - City of Gretna

Additional projects with client references can be found below:

PROJECT	DESCRIPTION	CLIENT REFERENCE
<p><i>Belle Chasse Area Master Drainage Plan</i></p>	<p>Burk-Kleinpeter, Inc. was selected by Plaquemines Parish Government to prepare a Master Drainage Plan for the area bounded by the Mississippi River, Orleans Parish, the Gulf Intercoastal Waterway, and the Walker Road Canal. The study was conducted to provide options to alleviate flooding in the existing subdivisions and agricultural lands through development of better canal networks and a new pumping station. BKI reviewed the existing land use and projected land use to develop HEC-HMS and HEC-RAS models to simulate the existing drainage conditions and future drainage conditions based upon the existing drainage infrastructure. Future condition models were also developed to recommend drainage infrastructure improvements. The study was funded with HMGP dollars and performed utilizing the latest HEC-HMS and HEC-RAS modeling software in conjunction with the latest ArcGIS software and the latest available LIDAR imagery to develop the HEC-HMS and HEC-RAS models of the existing drainage system. From the existing conditions models created, BKI modified the models for future land use and drainage conditions. As part of the Master Drainage Plan, the potential of improving the existing canals or the need for a new outfall pump station will be evaluated, construction cost estimated, and individual projects prioritized. This plan will be the basis for infrastructure programming and guidance for residential and commercial developments.</p>	<p align="center">Ken Dugas Plaquemines Parish Government 333 F. Edward Hebert Blvd. Belle Chasse, LA 70037 (504) 934-6115</p>

PROJECT	DESCRIPTION	CLIENT REFERENCE
<p align="center">25th Street Canal Drainage Improvements Project (Resiliency District)</p>	<p>The 25th Street Canal Neighborhood in Gretna, Louisiana experiences the worst repetitive flood claims in the State of Louisiana. The neighborhood flooding occurs when the Heebe Canal backflows into the 25th Street Drainage Canal and overtops its banks. Using a combination of La. State Capital Outlay funds, CDBG funds and FEMA Flood Mitigation Grant Dollars, the City of Gretna awarded BKI the Design, Construction Administration and Resident Inspection Services on the project. The estimated construction costs is \$13,970,000. The components of the project consist of both Green Infrastructure and Grey Infrastructure. Currently, the neighborhood is a Gravity Drainage System using both the 25th Street Canal and several outfall pipes into the Heebe Canal. After performing Hydraulic Modeling using the United States Army Corps of Engineers Software (HEC RAS), it was determined that a 350 cubic feet per second pump station would be built at the confluence of the 25th Street and Heebe Canals. In addition, the gravity drainage system would be manifolded to route all the runoff to the Pump Station by placing flap gates on the existing outfall drainage pipes, reversing drainage pipe grades and installing Green Infrastructure to reduce runoff. Because the Eastern Bank of the Heebe Canal was failing, Over 2000 feet of sheet pile wall was installed to secure the bank and allow for flap gate installation. In order to manifold the drainage system and force the runoff to the pump station over 5400 feet of new drainage pipe was installed. Green Infrastructure techniques such as Gabion retaining walls, bioswales and riparian plantings were used along the upstream portions of the 25th Street Canal to not only lessen runoff and required pumping capacity but also to provide aesthetic recreational amenities for the neighborhood residents.</p>	<p align="center">Amelia Pellegrin City of Gretna 740 Second Street Gretna, LA 70053 (504) 363-1568</p>
<p align="center">St. Charles Parish Sunset Pump Station Bar Screen - Canal Dredging Hydraulic Study</p>	<p>BKI was selected by St. Charles Parish to analyze the bayou Gauche drainage system. BKI created a HEC-HMS and HEC-RAS model of the drainage basin. Crawford Canal and Canal No.10 are the primary contributors to the Sunset Pump Station. BKI evaluated the existing station and prepared multiple alternatives including pump station and canal improvements. BKI recommended the addition of a 900 CFS pump station capacity and the installation of an automated bar screen with a 1770 CFS capacity for both existing and proposed flows.</p>	<p align="center">Sam Scholle St. Charles Parish 15045 River Road Hahnville, LA 70057 Scholle, St. Charles Parish, (985) 783-5102</p>
<p align="center">Hancock Street Canal Improvements</p>	<p>BKI was selected by the City of Gretna to provide engineering design and construction administration services associated with the closure of the Hancock Street Canal between Kepler Street and Virgil Street in the Gretna, LA. The finished canal consisted of a reinforced concrete arch pipe section 45x73 in the existing earthen canal along with all necessary drainage infrastructure tie-in and utility relocation. Additionally, decorative light fixtures were installed along the newly created boulevard. The design and construction of the project was funded through the State of Louisiana, Division of Administration, Office of Facility Planning and Control, via the Capital Outlay Program.</p>	<p align="center">Amelia Pellegrin City of Gretna 740 Second Street Gretna, LA 70053 (504) 363-1568</p>

6. Firm Size

BKI's company staff consists of 29 full-time employees who work out of our Kenner office who are categorized as follows:

ENGINEER	DESIGNER/DRAFTER	ENGINEERING INTERN	CONSTRUCTION INSPECTOR	ADMINISTRATIVE
<p>Civil: 8; Structural: 3</p>	<p align="center">6</p>	<p align="center">1</p>	<p align="center">3</p>	<p align="center">8</p>

Of these employees, we have identified **11** individuals who will make up the core staff to provide services for this project. *See Section K for their resumes.* In addition, we are able to marshal resources from other experienced staff members in the company.

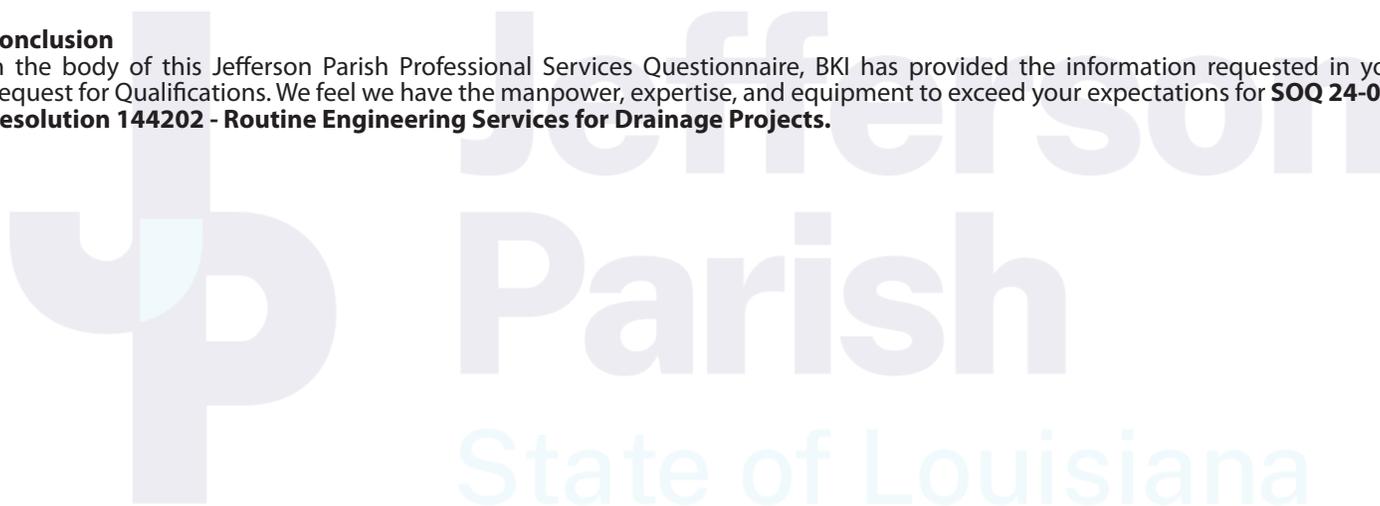
7. Past Performance by person or firm on Parish contracts

In addition to the other projects mentioned, BKI has successfully completed the following drainage projects for Jefferson Parish City Council and Jefferson Parish Department of Public Works:

- Avenue D Canal Drainage • Betz Ditch Jefferson Highway to Hoey's Canal
- Bonnabel Canal Improvements • Breaux Ditch Improvements
- Cain's Ditch Drainage Improvements • Canal Street Canal Drainage Pump Station
- Clearview/Earhart Drainage Study • Drainage Consultant, District 4
- Drainage Pump Station No. 1 - Bonnabel Canal, Jefferson Parish Department of Public Works, 3600 CFS
- Drainage Pump Station No. 2 Expansion- Suburban Canal, Jefferson Parish Department of Public Works, 3200 CFS
- Drainage Pump Station No. 3 - Elmwood Canal, Jefferson Parish Department of Public Works, 3400 CFS
- Drainage Pump Station No. 4 - Duncan Canal, Jefferson Parish Department of Public Works, 4600 CFS
- Parish Line Drainage Pumping Station, Jefferson Parish Department of Public Works, 900 CFS
- Canal Street Canal Drainage Pumping Station, Jefferson Parish Department of Public Works, 200 CFS

Conclusion

In the body of this Jefferson Parish Professional Services Questionnaire, BKI has provided the information requested in your Request for Qualifications. We feel we have the manpower, expertise, and equipment to exceed your expectations for **SOQ 24-015 Resolution 144202 - Routine Engineering Services for Drainage Projects.**



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

Name:

Public Address:

Burk-Kleinpeter, Inc.

2400 Veterans
Memorial Boulevard

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0000124	Active	09/12/1984	09/30/2025	Mr. Rene' Adrian Chopin III # PE.0025174

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

Name:

Public Address:

Burk-Kleinpeter, Inc.

2400 Veterans
Memorial Boulevard

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
VF.0000024	Active	09/12/1984	09/30/2025	Mr. Henry Maurice Picard III # PLS.0004736

Self-Certification demonstrating the status of Burk-Kleinpeter, Inc. as a Small Business

Are you a small business eligible for government contracting?

541330 Engineering Services	Small Business Size Standards \$16,500,000 annual revenue	 YES
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Exception #1 Military and Aerospace Equipment and Military Weapons	Small Business Size Standards \$41,500,000 annual revenue	 YES
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Exception #2 Contracts and Subcontracts for Engineering Services Awarded Under the National Energy Policy Act of 1992	Small Business Size Standards \$41,500,000 annual revenue	 YES
--	---	---

Exception #3 Marine Engineering and Naval Architecture	Small Business Size Standards \$41,500,000 annual revenue	 YES
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Results derived from the "Measure My Business" tool at www.sba.gov/size demonstrating that Burk-Kleinpeter, Inc. is a "small" business according to the SBA standard for our industry (NAISC codes).

TEC Professional Services Questionnaire

 LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Michael David Chopin

License/Certificate Type - Number Expiration Date
PE.0026797 09/30/2024

Status: **Active**

 LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Henry Maurice Picard III

License/Certificate Type - Number Expiration Date
PE.0022289 03/31/2025

Status: **Active**

 LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Henry Maurice Picard III

License/Certificate Type - Number Expiration Date
PLS.0004736 03/31/2025

Status: **Active**

 LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Rene' Adrian Chopin III

License/Certificate Type - Number Expiration Date
PE.0025174 09/30/2025

Status: **Active**

 LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. David Edward Boyd

License/Certificate Type - Number Expiration Date
PE.0035510 09/30/2024

Status: **Active**

 LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Timothy James Koenig

License/Certificate Type - Number Expiration Date
PE.0035079 03/31/2026

Status: **Active**

 LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Rene' Adrian Chopin IV

License/Certificate Type - Number Expiration Date
PE.0042349 09/30/2024

Status: **Active**

 LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Andrew Robert Jensen

License/Certificate Type - Number Expiration Date
PE.0043382 09/30/2025

Status: **Active**

 LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Farhad H. Mogharrebi

License/Certificate Type - Number Expiration Date
PE.0027984 09/30/2024

Status: **Active**

 LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Ms. Renee Poole

License/Certificate Type - Number Expiration Date
PE.0047869 09/30/2025

Status: **Active**

BFM Corporation, LLC
TEC Questionnaire



BKI **BURK-KLEINPETER, INC.**
ENGINEERING • PLANNING • ENVIRONMENTAL

BFM
CORPORATION, LLC
Professional Land & Hydrographic Surveying

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Provision of Routine Engineering Services for
Drainage Projects in Jefferson Parish
 SOQ **24-015** | Resolution No. **144202**

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	_____	Estimators	_____	Specification Writers
_____	Architects (Licensed)	_____	Geologists	_____	Structural Engineers
_____	Chemical Engineers	<u>1</u>	Geotechnical Engineers	_____	Graduate Engineers
_____	Civil Engineers	_____	Interior Designers	<u>2</u>	Project Managers
_____	Construction Inspectors	_____	Landscape Architects	_____	Clerical (<i>see Administrative</i>)
_____	Ecologists	<u>1</u>	Land Surveyor (<i>Apprentice</i>)	_____	Grant/Funding Specialist
_____	Electrical Engineers	_____	Mechanical Engineers	_____	Sanitary Engineers
_____	Engineer Intern	_____	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

<p>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.</p>		
<p>1. N/A</p>		
<p>2.</p>		
<p>H. Has this JOINT-VENTURE previously worked together? Please check: YES _____ NO _____ N/A</p>		
<p>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.</p>		
<p>Name & Address:</p>	<p>Specialty:</p>	<p>Worked with Firm Before (Yes or No):</p>
<p>1. N/A</p>		
<p>2.</p>		
<p>3.</p>		
<p>J. Please specify the total number of support personnel that may assist in the completion of the Project: _____ 26 _____ (all personnel will be available for assignment to the project)</p>		

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:

- Lafitte Drainage Project, Town of Jean Lafitte, Jefferson Parish, LA
- Central Avenue Roadway Drainage & Water Main Improvements, Jefferson Parish, LA
- Orange Lane Drainage Pump Station Project (Drainage Mapping), Grand Isle, Jefferson Parish, LA
- Mounes Street Subsurface Drainage (Phase IV, Dickory Avenue to Elmwood Park Boulevard), Jefferson Parish, LA
- Coventry Drainage Pump Stations, River Ridge, Jefferson Parish, LA
- Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, LA
- Bissonet Plaza Drainage Improvements (Phase 1, Elmwood Parkway and Craig Avenue), Metairie, Jefferson Parish, LA
- North Arnoult Drainage Pump Station Improvements, Jefferson Parish, LA
- Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA
- Westwego Drainage Pump Station No. 1, Jefferson Parish, LA
- Bayou Segnette Drainage Pump Station No. 1 Survey Verification, Jefferson Parish, LA
- West Bank Expressway, Phase I Drainage Map, from Peters Road to Manhattan Boulevard, Jefferson Parish, LA
- Paillet - Maplewood Drainage Improvements, Jefferson Parish, LA
- Jack & Bores Survey (Drainage Project), Waggaman, Jefferson Parish, LA
- Taft Park Pump Station and Drain Line Path, Jefferson Parish, LA
- Mazoue Ditch Improvements, Phase I, Jefferson Parish, LA
- Emergency Generators at 13 Pump Station Sites, Jefferson Parish, LA
- Oakwood/Terrytown Drainage Improvements, Jefferson Parish, LA
- Massachusetts Avenue Drainage Improvements, Jefferson Parish, LA
- Orleans Village Subdivision Drainage Improvements, Jefferson Parish, LA
- Morton & Ingrid Pump Station, Jefferson Parish, LA
- Hoey's Canal Drainage Improvements (Deckbar Ave to Labarre Rd), Jefferson Parish, LA
- Drainage Pump Station, Veterans North & South, Right-of-Way, 17th Street Canal, Jefferson Parish, LA
- Mounes Subsurface Drainage - Phase I, Jefferson Parish, LA
- Marlin Court Drainage Project, Jefferson Parish, LA

TEC Professional Services Questionnaire

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

- Woodland West Drainage Improvements - Phase 2A, Vulcan Dr & Telestar St, Jefferson Parish, LA
- Sub-Basin 3 Proposed Improvements (Meadow St & Myrtle St), Bunche Village, Jefferson Parish, LA
- Avenue D Drainage Improvements, Jefferson Parish, LA
- Oakwood Terrytown Drainage Improvements (HMGP) (Carol Sue Drainage Improvements), Jefferson Parish, LA
- Taft Park Pump Station and Drain Line Path, Jefferson Parish, LA
- Maplewood & Paillet HMGP Project, West Bank Subsurface Drainage Improvement Program Phase II, Jefferson Parish, LA
- Hillings Ditch/Drolla/Suave Road Drainage Improvements, Jefferson Parish, LA
- Route Topographic (including Lift Station/Force Main) Surveying Services, Jefferson Parish, LA
- Paillet Pump Station Access Road and Drainage Improvements, Jefferson Parish, LA
- Westgate Subdivision Subsurface Drainage Improvements, Jefferson Parish, LA
- Canal No. 17 Bank Stabilization Phase II, Jefferson Parish, LA
- Clearview Drainage Pump Station and St. Peter's Ditch, Jefferson Parish, LA
- Johnson Street Drainage Improvements (Phases I & II), Jefferson Parish, LA
- Hero Pump Station, Harvey, Jefferson Parish, LA
- West Bank Subsurface Drainage Improvement Project, Phase II, Bellemeade Boulevard to the Violet Canal Discharge, Jefferson Parish, LA
- Hilling Ditch Drainage Improvements, Jefferson Parish, LA
- Upper Kraak Pump Station, Jefferson Parish, LA
- Mason Ditch Drainage Improvements, Jefferson Parish, LA
- Hurricane Gustav Drainage Canal Repairs, East Bank, Jefferson Parish, LA
- Bannerwood Drainage Improvements, Jefferson Parish, LA
- Improvements to Bayou Segnette Drainage Pump Station No. 1, Jefferson Parish, LA
- Sena Drive Subsurface Drainage Improvements, Jefferson Parish, LA
- Drainage Improvements to the Canal No. 2 Culvert Crossing at California Avenue, Jefferson Parish, LA
- Kawanee Drive Drainage Improvements, Jefferson Parish, LA
- Mazoue Ditch Drainage Improvements Phase IV, Jefferson Parish, LA
- Goose Bayou Drainage Pump Station, Lafitte, Jefferson Parish, LA
- Fulton Street Pump Station, Jefferson Parish, LA
- Parish Line Pump Station (Pump Station No. 5), Jefferson Parish, LA
- Mazoue Ditch Drainage Improvements (Rose Crest Lane to Darby Lane), Jefferson Parish, LA
- Breaux Ditch Improvements, East Ames Boulevard - Leo Kenner Parkway, Jefferson Parish, LA
- Manson Ditch (ICRR Ditch) Survey, Jefferson Parish, LA

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Chad M. Poché, P.E. Executive Vice President / Registered Professional Geotechnical Engineer
Project Assignment:
Engineering Liaison
Name of Firm with which associated:
BFM CORPORATION, LLC Professional Land & Hydrographic Surveying
Years' experience with this Firm:
7 years (became partial owner of BFM in 2017); 31 years total (1993)
<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>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)

Mounes Street Subsurface Drainage (Phase IV, Dickory Avenue to Elmwood Park Boulevard), Jefferson Parish, LA. BFM provided topographic surveying services for Phase IV of the project, part of a multiphase program to improve drainage issues on Mounes Street. Phase IV of the project involved a topographic survey of the project, extending from Dickory Avenue to Elmwood Park Boulevard. Services provided by BFM included establishment of a baseline, setting temporary benchmarks (TBMs), elevation surveys, locating improvements and utilities as well as natural elements, and right-of-way surveying. (\$23,540 (fee); 2017)

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)

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)

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)**

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)

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)

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)

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)

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)

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. Notable past project work has included the New Orleans Museum of Art, Jackson Barracks Restoration, US Highway 11, NASA Michoud Cells 3 & 4, the St. Bernard Lot Next Door Program, and multiple Orleans Parish School Recovery projects (including L.B. Landry, George Washington Carver, and Alice M. Harte schools).

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)

TEC Professional Services Questionnaire

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

Mounes Street Subsurface Drainage (Phase IV, Dickory Avenue to Elmwood Park Boulevard), Jefferson Parish, LA. BFM provided topographic surveying services for Phase IV of the project, part of a multiphase program to improve drainage issues on Mounes Street. Phase IV of the project involved a topographic survey of the project, extending from Dickory Avenue to Elmwood Park Boulevard. Services provided by BFM included establishment of a baseline, setting temporary benchmarks (TBMs), elevation surveys, locating improvements and utilities as well as natural elements, and right-of-way surveying. (\$23,540 (fee); 2017)

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)

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)

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)

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)

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)

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.

Mounes Subsurface Drainage – Phase I, Jefferson Parish, LA. BFM provided all requested topographic surveying services for Phase I of the Mounes Subsurface Drainage project, which extended from Dickory to Elmwood Park Boulevard). (\$26,240 (fee); 2017)

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)

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)

TEC Professional Services Questionnaire

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

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)

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)

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)

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)

Oakwood Terrytown Drainage Improvements (HMGP) (Carol Sue Drainage Improvements), Jefferson Parish, LA. BFM provided topographic surveying services for the project. (JP PW 200-062-DR) (\$23,581 (fee); 2011)

West Bank Subsurface Drainage Improvement Project, Phase II, Bellemeade Boulevard to the Violet Canal Discharge, Jefferson Parish, LA. BFM provided topographic surveying for the project, which encompassed Bellemeade Boulevard from Briargrove to Brookmeade and Brookmeade from Bellemeade to the Violet Canal Discharge. (\$16,108 (fee); 2010)

Sena Drive Subsurface Drainage Improvements, Jefferson Parish, LA. BFM provided topographic surveying services for the Sena Drive Subsurface Drainage Improvements project, which extended along Sena Drive from West Esplanade Avenue (Canal No. 2) to Nero Street. (\$13,364 (fee); 2010)

Massachusetts Avenue Drainage Improvements, Jefferson Parish, LA. BFM provided topographic surveying services for the project, which extended from W Napoleon Avenue to Veterans Memorial Boulevard. (\$28,515 (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>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> <p>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)</p>	

TEC Professional Services Questionnaire

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

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)

Mounes Street Subsurface Drainage (Phase IV, Dickory Avenue to Elmwood Park Boulevard), Jefferson Parish, LA. BFM provided topographic surveying services for Phase IV of the project, part of a multiphase program to improve drainage issues on Mounes Street. Phase IV of the project involved a topographic survey of the project, extending from Dickory Avenue to Elmwood Park Boulevard. Services provided by BFM included establishment of a baseline, setting temporary benchmarks (TBMs), elevation surveys, locating improvements and utilities as well as natural elements, and right-of-way surveying. (\$23,540 (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)

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)

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:	
	
Years' experience with this Firm:	
13 years (joined BFM in 2011); 33 years total (1991)	<i>BFM Corporation, LLC 2011 to present</i> <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>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)</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</p>	

TEC Professional Services Questionnaire

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

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)

Bissonet Plaza Drainage Improvements (Phase 1), Metairie, Jefferson Parish, LA. BFM prepared a Route Topographic Survey for Phase 1 of the project, located at Elmwood Parkway and Craig Avenue. This project built upon work executed by the firm for a previous extensive surveying project involving Bissonet Plaza subdivision; this allowed for BFM to build upon established surveys to save time and expenses. Surveying for each element of the project included services included confirming all controls and benchmarks, topographic features, location of improvements and utilities, location of natural elements as applicable, and notation of right-of-way points. (\$7,980 (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)

Mounes Street Subsurface Drainage (Phase IV, Dickory Avenue to Elmwood Park Boulevard), Jefferson Parish, LA. BFM provided topographic surveying services for Phase IV of the project, part of a multiphase program to improve drainage issues on Mounes Street. Phase IV of the project involved a topographic survey of the project, extending from Dickory Avenue to Elmwood Park Boulevard. Services provided by BFM included establishment of a baseline, setting temporary benchmarks (TBMs), elevation surveys, locating improvements and utilities as well as natural elements, and right-of-way surveying. (\$23,540 (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)

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)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Curtis "Jay" Barrios
Survey Crew Chief

Project Assignment:

Survey Crew Chief

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

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

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

Education: Degree(s)/Year/Specialization:

High School Diploma

Active Registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

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

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)

TEC Professional Services Questionnaire

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

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)

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)

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)

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

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>Lafitte Drainage Project, Town of Jean Lafitte, Jefferson Parish, Louisiana</p> <p>Professional Engineering & Environmental Consultants, Inc. 1065 Muller Pkwy Ste B Westwego LA 70094</p> <p>Jeffrey P. Meyers, P.E., 225-268-6925 jeff@peecinc.com</p>	<p>BFM provided Route Topographic Surveying services for a proposed drainage servitude project which 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.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
July 2022	N/A	\$11,875 (fee)

PROJECT NO. 2

Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Central Avenue Roadway Drainage & Water Main Improvements, Jefferson Parish, Louisiana</p> <p>Jefferson Parish Department of Capital Projects 1221 Elmwood Park Blvd Ste 906 Jefferson LA 70123</p> <p>Neil Schneider, 504-736-6833 nschneider@jeffparish.net</p>	<p>BFM's scope of services 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.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
April 2023	N/A	\$2,850 (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>Mounes Street Subsurface Drainage (Phase IV, Dickory Avenue to Elmwood Park Boulevard), Jefferson Parish, Louisiana</p> <p>APTIM 2424 Edenborn Avenue Suite 450 Metairie LA 70001</p> <p>Gene S. Gillen, P.E., 504-832-4881 info@aptim.com</p>	<p>BFM provided topographic surveying services for Phase IV of the project, part of a multiphase program to improve drainage issues on Mounes Street. Phase IV of the project involved a topographic survey of the project, extending from Dickory Avenue to Elmwood Park Boulevard. Services provided by BFM included establishment of a baseline, setting temporary benchmarks (TBMs), elevation surveys, locating improvements and utilities as well as natural elements, and right-of-way surveying.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
December 2017	N/A	\$23,540 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 5		
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. 4409 Utica Street Suite 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 feet 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. 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-ft. 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. 6		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, Louisiana</p> <p>GEC, Inc. 3445 N Causeway Blvd Ste 401 Metairie LA 70002-3779</p> <p>Jerome Lohmann, 504-207-6926 jlohmann@gecinc.com</p>	<p>BFM 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.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
May 2020	N/A	\$18,350 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Bissonet Plaza Drainage Improvements (Phase 1, Elmwood Parkway and Craig Avenue), Metairie, Jefferson Parish, Louisiana</p> <p>Meyer Engineers Ltd. 4937 Hearst St. Ste. B Metairie LA 70001</p> <p>Ana Theriot, P.E., 504-885-9892</p>	<p>BFM prepared a Route Topographic Survey for Phase 1 of the project, located at Elmwood Parkway and Craig Avenue. This project built upon work executed by the firm for a previous extensive surveying project involving Bissonet Plaza subdivision; this allowed for BFM to build upon established surveys to save time and expenses. Surveying for each element of the project included services included confirming all controls and benchmarks, topographic features, location of improvements and utilities, location of natural elements as applicable, and notation of right-of-way points.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
March 2020	N/A	\$7,980 (fee)

PROJECT NO. 8		
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>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)

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, Louisiana</p> <p>Hartman Engineering, Inc. 16563 Airline Hwy Ste A&B Prairieville LA 70769</p> <p>Jared Monceaux, P.E., 225-313-4617 jmonceaux@harteng.com</p>	<p>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.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
April 2019	N/A	\$12,855 (fee)

PROJECT NO. 10		
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 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.</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

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.	<i>BFM Corporation is not currently, nor has it previously been involved, in litigation with Jefferson Parish.</i>	
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

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

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

Our capabilities include the following and more:

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

TEC Professional Services Questionnaire

N. continued.

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

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

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

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

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

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

CRITERIA 2 | SIZE OF FIRM

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

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

TEC Professional Services Questionnaire

N. continued.

CRITERIA 3 | CAPACITY FOR TIMELY COMPLETION

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

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

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

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

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

CRITERIA 4 | PAST PERFORMANCE ON PARISH CONTRACTS

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

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

CRITERIA 5 | LOCATION OF THE PRINCIPAL OFFICE

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

TEC Professional Services Questionnaire

N. continued.

CRITERIA 6 | LEGAL STATEMENT

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

CRITERIA 7 | PRIOR SUCCESSFUL COMPLETION OF PROJECTS

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

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

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

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

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

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

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

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

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

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

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

Signature: _____

Print Name: Chad M. Poché, P.E.

Title: Executive Vice President

Date: June 6, 2024

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

Name: Public Address:

15 Veterans Memorial Boulevard
Kenner, Louisiana 70062
BFM Corporation, LLC

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
VF.0000008	Active	09/11/1984	09/30/2025	Mr. Ralph P. Fontcuberta Jr. # PLS.0004329



LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Ralph P. Fontcuberta Jr.

License/Certificate Type - Number Expiration Date
PLS.0004329 **09/30/2024**

Status: **Active**



LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Chad Mitchell Poche

License/Certificate Type - Number Expiration Date
PE.0027667 **09/30/2024**

Status: **Active**



LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Gary James Lambert Jr.

License/Certificate Type - Number Expiration Date
PLS.0005259 **03/31/2026**

Status: **Active**



LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. William Mead Farber

License/Certificate Type - Number Expiration Date
EI.0033903 **03/31/2025**

Status: **Active**



Division of Small and Emerging Business Development
SEBD CERTIFICATION

BFM CORPORATION, LLC

is hereby certified as a Small and Emerging Business Enterprise.

This certification is valid beginning 7/19/2019 and supersedes any registration or listing previously issued. At any time there is a change in ownership or control of the firm, notification must be made immediately to the Division of Small and Emerging Business Development.

Issued at Baton Rouge, Louisiana 7/19/2019

This certification expires on: 7/19/2029

Certification No. 9551

John W. Matthews, Jr.,
Executive Director, Entrepreneurial Services



DIVISION OF SMALL BUSINESS SERVICES

This certification acknowledges that

BFM CORPORATION, LLC

is Certified-Active as a Small Entrepreneurship with
Louisiana Economic Development's Hudson Initiative.

This certification is valid from 9/13/2023 to 9/13/2024 .

Certification No. 9551

Stephanie Hartman,
Director, Entrepreneurial Services



City of Kenner

1926 18th Street
Kenner, LA 70062

BFM CORPORATION
15 VETERANS BLVD
KENNER, LA 70062

**** NOTICE ****

This license becomes null & void if ownership, business name or address is changed. Licensee must apply within 10 days of such change for transfer. Fee will apply. All applicable building & zoning regulations pertaining to business location must be followed.

BFM CORPORATION, LLC
15 VETERANS MEMORIAL BLVD
KENNER, LA 70062

2024

Business License ID
407

Type
LIMITED LIABILITY COMPANY
SURVEYING SERVICES

Business License

Number
1595

Issued
01/09/2024

Valid thru
12/31/2024

***** POST THIS LICENSE IN A CONSPICUOUS PLACE *****



Gulf South Engineering and Testing, Inc. TEC Questionnaire



TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Provision of Routine Engineering Services for

Drainage Projects in Jefferson Parish

SOQ 24-015 | Resolution No. 144202

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.

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)

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)

Metairie Lawn and Ridgelake Drive Roadway & Utility Project, Metairie, Jefferson Parish, LA. Geotechnical engineering services for construction of a new roadway paving and below grade drainage pipeline in Metairie, LA. Gulf South's scope includes drilling five (5) auger borings to a depth of 20 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$8,500 (fee); 2021)

Drainage Improvements, Citrus Road & Greg Court, Metairie, Jefferson Parish, LA. Geotechnical investigation for drainage improvements (2000 lf) along Citrus Road & Greg Court (to Jefferson Highway) in Metairie, LA. Gulf South's scope includes pavement coring and drilling five undisturbed soil borings each to 20 feet below ground surface, lab testing, and engineering analyses (including allowable soil bearing values, bedding and backfill recommendations), estimates of settlement, pavement design recommendations, and general construction recommendations. (\$8,500 (fee); 2017)

Drainage Infrastructure Improvements, South Avondale Subdivision, Avondale, Jefferson Parish, LA. Geotechnical investigation for drainage improvements on S. Jamie Boulevard in Avondale, LA. Gulf South's scope includes drilling five undisturbed soil borings to depths of 20 feet, lab testing, and engineering analyses including allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction procedures and recommendations. (\$7,000 (fee); 2018)

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

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

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

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); *Gulf South Engineering and Testing, Inc. | 2022 to present*
3 years total (2021) *TetraTech, Inc. | 2021 to 2022*

Education: Degree(s)/Year/Specialization:

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

Active Registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

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

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

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)

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)

Lee Street Drainage Pump Station Improvements, City of Slidell, LA. Prepared a Geotechnical Exploration Report for the project site located at the junction of Lee Street and Front Street in Slidell, LA. Gulf South's scope includes drilling soil borings to 50 ft. in depth, laboratory testing, engineering analyses (soil bearing values, bedding & backfill, pile capacities, and estimates of settlement) and general construction procedures and recommendations. (\$4,000 (fee); 2022)

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)

Brewster Road/LA 1077 Drainage Improvements, Madisonville, St. Tammany Parish, LA. Geotechnical engineering services for drainage improvements at the existing parish canal off LA-1077 and Galatas Road in Madisonville, St. Tammany Parish, LA. Gulf South's scope includes drilling five undisturbed soil borings to depths of 20 feet (2 locations) and 30 feet (3 locations) below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$20,000 (fee); 2022)

Kinler & Paul Fredrick Street Drainage Improvements, Luling, St. Charles Parish, LA. Geotechnical investigation for paved and/or reconstruction of Kinler and Paul Frederick Streets in Luling. Scope included drilling a total of 10 undisturbed soil borings for the project (five borings within each roadway to a depth of 10 feet below the pavement surface). Geotechnical laboratory testing was performed on selected samples collected during the exploration in accordance with appropriate ASTM standards; this included strength tests (unconfined and/or triaxial) and classification tests (Atterberg Limits and/or particle size). Following the collection of the field and laboratory data, a geotechnical engineer performed the evaluations necessary to characterize the subsoil conditions of the site and develop the engineering recommendations and analyses. This included current pavement materials and thicknesses, flexible pavement design recommendations, and general construction procedures and recommendations. (\$7,500 (fee); 2022)

Chateau Transfer Station Upgrade, City of Kenner, LA. Geotechnical engineering services for the upgrades of an existing below grade sewer lift station (Chateau Transfer Station) in Kenner, LA. Gulf South's scope of services includes drilling two undisturbed soil borings to depths of 70 and 30 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$7,500 (fee); 2022)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
<p>Joseph H. "Trey" Binder, III, ACI Laboratory Manager</p>	
Project Assignment:	
Laboratory Manager; Laboratory Technician	
Name of Firm with which associated:	
 ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants	
Years' experience with this Firm:	
<p>13 years (joined Gulf South in 2011); 13 years total (2011)</p>	<p><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></p>
Education: Degree(s)/Year/Specialization:	
A.D., General Studies (2006; Nunez Community College)	
Active Registration: Year first registered/discipline:	
<p>HAZMAT Awareness HAZMAT Operations Training ACI Aggregate Base Testing Technician ACI Concrete Strength Testing Technician</p>	
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. 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)

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)

N. Sibley Pump Station Improvements, Metairie, Jefferson Parish, LA. Provided construction materials testing for the project, located at the corner of N. Sibley Street and West Napoleon Avenue. 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)

Citrus Road and Greg Court Subsurface Drainage Improvements, 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. (\$20,000 (fee); 2019)

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)

Trudeau Drive at Canal No. 5 Drainage Improvements, Metairie, 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. (\$10,000 (fee); 2019)

Parish Line Drainage Pump Station Improvements – Phase I, City of Kenner, Jefferson Parish, LA. Gulf South performed field and laboratory testing during construction of a new pump station in Jefferson Parish, Louisiana. Scope of services consisted of vibration monitoring, timber pile inspection at the site and during installation, performance of a pile load test, earthwork, and concrete testing & inspection. (\$10,000 (fee); 2018)

Drainage Improvements, Citrus Road & Greg Court, Metairie, Jefferson Parish, LA. Geotechnical investigation for drainage improvements (2000 lf) along Citrus Road & Greg Court (to Jefferson Highway) in Metairie, LA. Gulf South's scope includes pavement coring and drilling five undisturbed soil borings each to 20 feet below ground surface, lab testing, and engineering analyses (including allowable soil bearing values, bedding and backfill recommendations), estimates of settlement, pavement design recommendations, and general construction recommendations. (\$8,500 (fee); 2017)

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>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)</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</p>	

TEC Professional Services Questionnaire

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

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)

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

FEMA Submerged Roads Program (CMT): Phase 3, Metairie, Jefferson Parish, LA. Perform asphalt and roadway testing and inspection as requested. 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. Gulf South also provided asphalt batch plant inspection. (\$10,000 (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)

Waggaman Subsurface Drainage Improvements, Waggaman, Jefferson Parish, LA. Project consisted of the construction of new below grade drainage features and piping for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Our scope of services included performing pile plant inspection, pile monitoring during installation, vibration monitoring, concrete testing and inspection, earthwork testing and inspection including soil sampling and field density tests, and steel inspection. (\$7,000 (fee); 2016)

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)

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)

Drainage Improvement to North Sibley Drive at West Napoleon Avenue, Metairie, Jefferson Parish, LA. Gulf South executed a geotechnical investigation for new below grade wet well, approx. 15 - 20 feet deep. Drilled one boring to 80 feet at site and provide laboratory testing and geotechnical engineering analyses (soil bearing values, bedding, and backfill, pile capacities, settlement, construction recommendations, etc.). (\$4,500 (fee); 2012)

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); Gulf South Engineering and Testing, Inc. 2017 to present 7 years total (2017)	
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)

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

Wastewater Treatment Plant Improvements, Eden Isle Subdivision, Slidell, St. Tammany Parish, LA. Geotechnical engineering services for the construction of a new elevated storage building housing six blower units and slab-on-grade supported water storage, concrete tank within the wastewater treatment plant off Lakeview Drive in Slidell, LA. Gulf South's scope includes drilling two undisturbed soil borings to depths of 40 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$7,500 (fee); 2022)

Kinler & Paul Fredrick Street Drainage Improvements, Luling, St. Charles Parish, LA. Geotechnical investigation for paved and/or reconstruction of Kinler and Paul Frederick Streets in Luling in St. Charles Parish, LA. Scope included drilling a total of 10 undisturbed soil borings for the project (five borings within each roadway to a depth of 10 feet below the pavement surface). Geotechnical laboratory testing was performed on selected samples collected during the exploration in accordance with appropriate ASTM standards; this included strength tests (unconfined and/or triaxial) and classification tests (Atterberg Limits and/ or particle size). Following the collection of the field and laboratory data, a geotechnical engineer performed the evaluations necessary to characterize the subsoil conditions of the site and develop the engineering recommendations and analyses. This included current pavement materials and thicknesses, flexible pavement design recommendations, and general construction procedures and recommendations. (\$7,500 (fee); 2022)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Brandon A. Paille, ACI

Construction Materials Testing (CMT) Supervisor/Project Manager

Project Assignment:

Construction Materials Testing (CMT) Supervisor/Project Manager

Name of Firm with which associated:


ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants

Years' experience with this Firm:

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

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

Education: Degree(s)/Year/Specialization:

High School Diploma

Active Registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

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

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)

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

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

Submerged Roads Program: District 5, Project 1, Jefferson Parish, LA. Gulf South performed asphalt testing and inspection as instructed by the client. (\$12,000 (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)

New North Terminal – New Pump Station, Louis Armstrong New Orleans International Airport, LA. Gulf South performed field and laboratory testing during construction of a new Pump Station at the New North Terminal at the Louis Armstrong New Orleans International Airport in Kenner, Louisiana. Gulf South provided QA oversight of the contractor for the owner for this \$1.2 billion project which consists of the construction of a new terminal facility including a new 800,000 sf building, vehicle ramps, parking, etc. QA inspection consists of pile monitoring, concrete inspection and testing, earthwork testing and inspection, and steel inspection. (\$100,000 (fee); 2019)

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)

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

St. James Road Program 2023 (Nicole Street), Paulina, St. James Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes soil density tests and asphalt inspection. (\$7,220 (fee); 2023)

Kenner Discovery School, Kenner, LA. Gulf South provided construction materials testing and inspection during construction of the project located at 201 Vintage Drive in Kenner. Gulf South's scope of work includes concrete testing and steel inspection. (\$1,028 (fee); 2022)

New North Terminal – Roads, Louis Armstrong New Orleans International Airport, LA. Gulf South performed field and laboratory testing during construction of various roads at the New North Terminal at the Louis Armstrong New Orleans International Airport in Kenner, Louisiana. Gulf South provided QA oversight of the contractor for the owner for this \$1.2 billion project which consists of the construction of a new terminal facility including a new 800,000 sf building, vehicle ramps, parking, etc. QA inspection consists of pile monitoring, concrete inspection and testing, earthwork testing and inspection, and steel inspection. (\$250,000 (fee); 2019)

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 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.</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>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@bkusa.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 (pile capacities & settlement) 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. 3		
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 Parkway Suite 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. 4		
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

PROJECT NO. 5		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Metairie Lawn and Ridgelake Drive Roadway & Utility Project, Metairie, Jefferson Parish, Louisiana</p> <p>Ardurra Group, Inc. 3012 26th Street Metairie LA 70002</p> <p>Joe Becker, P.E., 504-454-3866 jbecker@ardurra.com</p>	<p>Geotechnical engineering services for construction of a new roadway paving and below grade drainage pipeline in Metairie, LA. Gulf South's scope includes drilling five (5) auger borings to a depth of 20 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:
January 2021	N/A	\$8,500 (fee)

PROJECT NO. 6		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Lake Cataouatche Drainage Pump Station, Avondale, Jefferson Parish, Louisiana</p> <p>Jefferson Parish 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. 7		
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>André C. Monnot, P.E., 985-624-5001 andre@pi.aec.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. 8		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Verrett Canal Slope Instability Project, West Bank Drainage Department, Harvey, Jefferson Parish, Louisiana</p> <p>Jefferson Parish Engineering Department 1221 Elmwood Park Blvd Ste 802 Jefferson LA 70123</p> <p>Clinton Hotard, 504-736-6500 chotard@jeffparish.net</p>	<p>Geotechnical engineering services for the potential solution (i.e. retaining wall, etc.) for the surface movement at the top slope of Verrett Canal located at 89 Natchez Trace in Harvey, LA. Gulf South's scope includes drilling a single undisturbed soil boring (depth of 60 ft. bgs), 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:
July 2020	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>Drainage Infrastructure Improvements, South Avondale Subdivision, Avondale, Jefferson Parish, Louisiana</p> <p>Phoenix Global Construction 2901 Independence St Ste 103 Metairie LA 70006</p> <p>Jack Lo, 504-883-9021 phoenixglobal@bellsouth.net</p>	<p>Geotechnical investigation for drainage improvements on S. Jamie Boulevard in Avondale, LA. Gulf South's scope includes drilling five undisturbed soil borings to depths of 20 feet, lab testing, and engineering analyses including allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction procedures and recommendations.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
January 2018	N/A	\$7,000 (fee)

PROJECT NO. 10		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Drainage Improvements, Citrus Road & Greg Court, Metairie, Jefferson Parish, Louisiana</p> <p>Buchart Horn 18163 E Petroleum Drive, Suite A Baton Rouge LA 70809</p> <p>Alan Krouse, P.E., 225-308-2009 akrouse@bucharthorn.com</p>	<p>Geotechnical investigation for drainage improvements (2000 lf) along Citrus Road & Greg Court (to Jefferson Highway) in Metairie, LA. Gulf South's scope includes pavement coring and drilling five undisturbed soil borings each to 20 feet below ground surface, lab testing, and engineering analyses (including allowable soil bearing values, bedding and backfill recommendations), estimates of settlement, pavement design recommendations, and general construction recommendations.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
May 2017	N/A	\$8,500 (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.	<i>Gulf South Engineering and Testing, Inc. is not currently, nor has it previously been involved, in litigation with Jefferson Parish.</i>	
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.

Geotechnical Engineering Services

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

TEC Professional Services Questionnaire

N. continued.

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

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

Field Investigation Services

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

Laboratory Testing Services

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

Construction Materials Testing & Inspection

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

- Fill and base compaction and density testing
- Vibration monitoring

TEC Professional Services Questionnaire

N. continued.

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

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

CRITERIA 2 | SIZE OF FIRM

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

CRITERIA 3 | CAPACITY FOR TIMELY COMPLETION

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

CRITERIA 4 | PAST PERFORMANCE ON PARISH CONTRACTS

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

CRITERIA 5 | LOCATION OF THE PRINCIPAL OFFICE

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

TEC Professional Services Questionnaire

N. continued.

CRITERIA 6 | LEGAL STATEMENT

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

CRITERIA 7 | PRIOR SUCCESSFUL COMPLETION OF PROJECTS

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

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

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

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

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

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

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

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

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

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

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

Signature: _____

Print Name: Chad M. Poché, P.E.

Title: Executive Vice President

Date: June 6, 2024

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

Name:

Gulf South Engineering and Testing, Inc.

Public Address:

Mr. Chad Poche, PE15 Veterans Memorial Boulevard
Kenner, Louisiana 70062

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0004626	Active	07/27/2010	03/31/2025	Mr. Chad Mitchell Poche# PE.0027667



LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Chad Mitchell Poche

License/Certificate Type - Number

PE.0027667

Expiration Date

09/30/2024

Status: **Active**



LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Ralph P. Fontcuberta Jr.

License/Certificate Type - Number

PLS.0004329

Expiration Date

09/30/2024

Status: **Active**



DIVISION OF SMALL BUSINESS SERVICES

This certification acknowledges that

Gulf South Engineering and Testing, Inc.

is Certified-Active as a Small Entrepreneurship with
Louisiana Economic Development's Hudson Initiative.

This certification is valid from 12/27/2023 to 12/27/2024 .

Certification No. 11011

Stephanie Hartman,
Director, Entrepreneurial Services



**USACE CERTIFICATE
OF
LABORATORY VALIDATION**



Gulf South Engineering and Testing

15 Veterans Memorial Blvd
Kenner, LA, United States
Trey Binder
(504) 305-4401

has demonstrated, by abbreviated audit of its AASHTO accreditation, or by inspection of required records, equipment, procedures, facilities, and/or final reports, its proficiency to perform testing of construction materials, as established by the quality standards of AASHTO R 18 guidance and the requirements of the applicable ASTM standards.

THIS USACE CERTIFICATE OF LABORATORY VALIDATION IS ACCURATE AS OF ITS DATE AND TIME OF GENERATION:

06 MAY 2024 AT 14:40 HOURS

ALL METHODS LISTED ON THIS CERTIFICATE OF VALIDATION WILL EXPIRE ON 05/03/2026

PLEASE CONFIRM THE CURRENT VALIDATION STATUS OF THIS LABORATORY USING THE SEARCH FEATURE ON OUR PUBLIC WEBSITE: <https://mtc.erdcdren.mil>

Chad A. Gartrell, PE, Director
USACE Materials Testing Center
Vicksburg, Mississippi, USA

AGGREGATE

- Aggregate - C 128 - Specific Gravity & Absorption in Fine Aggregate
- Aggregate - C 566 - Total Moisture Content
- Aggregate - C 702 - Reducing Samples to Testing Size

CONCRETE

- Concrete - C 31 - Making and Curing Test Specimens in the Field
- Concrete - C 39 - Compressive Strength of Cylindrical Specimens
- Concrete - C 138 - Unit Weight and Air Content by Gravimetric
- Concrete - C 143 - Slump
- Concrete - C 172 - Sampling
- Concrete - C 231 - Air Content by Pressure ***required if C173 not performed***
- Concrete - C 511 - Moist Cabinets, Moist Rooms, Water Storage Tanks
- Concrete - C 1064 - Temperature of Concrete
- Concrete - C 1077 - Concrete and Concrete Aggregate Testing Standards (Quality Standards)
- Concrete - C 1231 - Unbonded Caps

SOILS

- Soils - E 329 - Standard Specification for Agencies Engaged in Construction Inspection, Testing, or Special Inspection
- Soils - D 421 - Dry Preparation for Particle Size Distribution & Soil Constants
- Soils - D 422 - Particle Size Analysis (Sieve and Hydrometer)
- Soils - D 698 - Compaction Characteristics by Standard Effort
- Soils - D 1140 - Material Finer than 75 μ m (No. 200) Sieve
- Soils - D 1556 - Density & Unit Weight by Sand Cone
- Soils - D 1557 - Compaction Characteristics by Modified Effort
- Soils - D 2166 - Unconfined Compressive Strength
- Soils - D 2216 - Water Content
- Soils - D 2487 - Classification of Soils
- Soils - D 2488 - Description & Identification of Soils (Visual-Manual Procedure)
- Soils - D 2974 - Moisture, Ash, & Organic Matter of Peat & Other Organic Soils
- Soils - D 4318 - Liquid & Plastic Limits & Plasticity Index
- Soils - D 4643 - Determination of Water Content of Soil by Microwave Oven
- Soils - D 6938 - Density and Water Content by Shallow Depth Nuclear Method



CERTIFICATE OF ACCREDITATION



Gulf South Engineering and Testing, Inc.

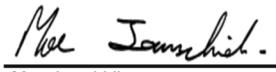
in

Kenner, Louisiana, USA

has demonstrated proficiency for the testing of construction materials and has conformed to the requirements established in AASHTO R 18 and the AASHTO Accreditation policies established by the AASHTO Committee on Materials and Pavements.

The scope of accreditation can be viewed on the Directory of AASHTO Accredited Laboratories (aashtoresource.org).


Jim Tymon,
AASHTO Executive Director


Moe Jamshidi,
AASHTO COMP Chair

This certificate was generated on 04/11/2024 at 12:54 PM Eastern Time. Please confirm the current accreditation status of this laboratory at aashtoresource.org/aap/accreditation-directory

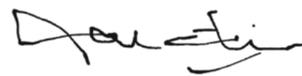


THIS CERTIFICATE IS PROUDLY PRESENTED TO

Gulf South Engineering and Testing, Inc.

8/15/2023

DATE



SIGNATURE



Creative Engineering Group, LLC
TEC Questionnaire



BKI BURK-KLEINPETER, INC.
ENGINEERING • PLANNING • ENVIRONMENTAL

CEG
CREATIVE ENGINEERING GROUP

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

SOQ No. 24-015 Routine Engineering Services for Drainage Projects - Resolution No. 144202

B. Firm Name & Address:



201 Highland Park Plaza
Covington, LA 70433

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:

Raymond H. Nolan, II, PE - Owner/Senior Engineer, (985) 249-5706, rnolan@ceg-itl.com

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

Raymond H. Nolan, II, PE - Owner/Senior Engineer, (985) 249-5706, rnolan@ceg-itl.com

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

<u>1</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> </u> Geotechnical Engineers	<u> </u> Graduate Engineers
<u> </u> Civil Engineers	<u> </u> Interior Designers	<u> </u> Project Managers
<u> </u> Construction Inspectors	<u> </u> Landscape Architects	<u> </u> Clerical
<u> </u> Ecologists	<u> </u> Land Surveyor	<u> </u> Grant/Funding Specialist
<u>1</u> Electrical Engineers	<u> </u> Mechanical Engineers	<u> </u> Sanitary Engineers
<u>1</u> Engineer Intern	<u> </u> Environmental Engineers	<u> </u> Planners
<u> </u> Professional Land Surveyors	<u>2</u> CADD	<u> </u> Designers
		<u>5</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. N/A

H. Has the 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. N/A		
2. N/A		
3. N/A		

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

5

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:

Raymond H. Nolan, II, PE
Owner / Senior Engineer

Project Assignment

Electrical Engineering Support

Name of Firm with which associated



Years' experience with this Firm:

>18

Education: Degree(s)/Year/Specialization:

Bachelor of Science / 1991 / Electrical Engineering
Master of Science / 1994 / Electrical Engineering

Active registration: Year first registered/discipline

1997 / PE Electrical, State of LA / No. 27697

Other experience and qualifications relevant to the proposed project:

Mr. Nolan is the Owner and Senior Engineer at CEG, LLC. He has over 30 years experience in electrical engineering, including power distribution, emergency generators, lighting and controls, fire alarm systems, telephone and data infrastructure, intercom and security systems.

Mr. Nolan's applicable projects are listed on the following page.

TEC Professional Services Questionnaire

Mr. Nolan has worked on the following sewer projects:

25th Street Canal Drainage Improvements Project (Resiliency District) – *Gretna, LA* – Provided electrical engineering services on the design for a new pump station with 350 CFS capacity to provide the 25th Street Subdivision residential area drainage in Jefferson Parish.

Cheniere Water Tank Storage – *Grand Isle, LA* - Provided electrical, lighting, and controls design for a new potable water pump station. Pump station design included powering pumps, powering mechanical equipment, sizing 50 Kw backup generator, and coordinating valve and pump controls, SCADA interface.

Midway and Soniat Lift Station Generator - *River Ridge, LA* - Provided electrical engineering services to replace existing generator and motor control center at sewer/drainage pump station. New generator was sized to power (1) sewer pump and (1) drainage pump. Designed new electrical service from utility and coordinated scope with sewer pump station contractor.

New Bayou Gauche Canal Bar Screen - *Des Allemands, LA / St. Charles Parish* - Provided electrical design services included new electrical service and generator for warehouse building and screen cleaners. Equipment was sized for future pump station rehabilitation.

Jefferson Parish District Attorney's Second Floor Buildout – *Jefferson Parish, LA* - Provided electrical engineering services. Created designs for the power and lighting systems as well as special systems required for government and law enforcement offices.

Orleans Levee District Police Station – *Orleans Parish, LA* – Provided electrical engineering services. Created designs for the power and lighting systems, special systems required for government and law enforcement offices as well as the electrical engineer overseeing the installation of the emergency generator.

Orleans Levee District – 6920 Franklin Ave. – *Orleans Parish, LA* - Electrical engineer for power and lighting systems as well as special systems required for government offices. Also oversaw the replacement of the existing 1750 kW generator with (2) 800 kW generators in parallel.

Recreation District 1 - *Kentwood, LA* – Electrical engineer for the design of electrical service as well as the ball field and parking lot lighting.

Hurricane Katrina Damage Repairs, McDermott Hanger - *New Orleans, LA* - Provided damage assessment services, cost estimates for the scope of work on the electrical and specialty systems to identify damages as well as assess the necessary repairs, and coordinated completion of the FEMA Project Worksheet for damage verification. CEG also provided the construction documents and construction administration services for the repair work.

Repairs to C.F. Rowley School - *Chalmette, LA* - Following Hurricane Katrina, provided damage assessment services, cost estimates for the scope of work on the electrical and specialty systems to identify damages as well as assess the necessary repairs, and coordinated completion of the FEMA Project Worksheet for damage verification. CEG also provided the construction documents and construction administration services for the repair work.

Nunez Community College Building B Hurricane Katrina Repairs - *Chalmette, LA* - Completed research and additional evaluation of the water damaged electrical equipment. Presented the NEMA documentation demonstrating the need for the additional repair items on the Project Worksheet and was successful in getting the items covered for repair. Reviewed scope and costs to ensure they were aligned with FEMA. CEG then completed the additional construction documents and provided construction administration services.

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:	
<p>Hurricane Katrina Damage Repairs - McDermott Hanger <i>New Orleans, LA</i></p> <p>RCL Architecture 900 W. Causeway Approach Mandeville, LA 70471, (985) 727-4440</p>	<p>Creative Engineering Group, LLC performed electrical and special systems damage assessment of site following Hurricane Katrina. Coordinated with FEMA Project Worksheet to verify all damages were included for repairs. CEG provided cost estimates to the Architect for repair scope of work.</p> <p>Once scope and costs were aligned with FEMA, CEG completed electrical construction documents for the repair work. Construction Administration included regular site visits to monitor the electrical installation.</p>	
Completion Date (Actual or estimated): 03/2009 (Est.)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
	\$2,500,000 (Est.)	\$200,000 (Est.)
PROJECT NO. 2		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Repairs to C.F. Rowley School St. Bernard Parish School Board <i>Chalmette, LA</i></p> <p>Lachin Architects 5190 Canal Blvd. Ste. 201 New Orleans, LA 70124 (504) 835-8013</p>	<p>Creative Engineering Group, LLC performed electrical and special systems damage assessment of site following Hurricane Katrina. Coordinated with FEMA Project Worksheet to verify all damages were included for repairs. CEG provided cost estimates to the Architect for repair scope of work. Due to the flood waters all electrical below the ceiling on the first floor was replaced with new. Light fixtures on the first floor were also replaced. First floor circuitry at the ceiling and second floor electrical remained for re-use. FEMA allowed second floor light fixtures to be re-lamped. Life safety systems (ie fire alarm) were replaced and re-located to the second floor. Construction Administration included regular site visits to monitor the electrical installation.</p>	
Completion Date (Actual or estimated): 10/2007 (Est.)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
	\$6,500,000 (Est.)	\$1,300,000 (Est.)

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Nunez Community College Building B Hurricane Katrina Repairs <i>Chalmette, LA</i> Lachin Architects 5190 Canal Blvd. Ste. 201 New Orleans, LA 70124 (504) 835-8013	Creative Engineering Group, LLC performed electrical and special systems damage assessment of site following Hurricane Katrina. Coordinated with FEMA Project Worksheet to verify all damages were included for repairs. Initially, FEMA had allowed a complete replacement of the electrical and special systems due to the heavy damage. At the Design Development stage of the project a new FEMA team came in and provided a revised Project Worksheet which only allowed for repairs to flood damaged items. This did not include all electrical equipment and feeders which had exposure to flood waters. CEG researched and presented NEMA documentation for evaluating water damaged electrical equipment, and was successful in getting additional items covered. Once scope and costs were aligned with FEMA, CEG completed electrical construction documents for the repair work. Construction Administration included regular site visits to monitor the electrical installation.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
	09/2008	\$8,900,000 \$323,000
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

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. N/A		
2. N/A		
3. N/A		
4. N/A		

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

 Creative Engineering Group, LLC is a professional engineering firm based in St. Tammany Parish. Our firm is licensed in the State of Louisiana and Mississippi, and offers a full range of electrical engineering services, including conceptual planning, preparation of construction documents and construction administration, with a highly skilled professional team. Our staff currently consist of five people dedicated to electrical engineering, including a licensed electrical engineer with over 30 years of experience, an electrical engineer intern with over 18 years of experience, two draftsmen and administration. We have extensive experience serving architects, contractors on design build projects, and building owners. Our purpose is to provide the highest quality service and design solutions for our clients.

Creative Engineering Group has experience in evaluating older electrical systems and has performed electrical evaluation assessment reports for clients who are seeking to upgrade electrical systems due to age or code changes. In addition, Creative Engineering Group has performed many damage assessments over the years to help clients evaluate damages to electrical systems due to hurricanes, fire, and flooding.

Our experience give us the ability to trouble shoot electrical issues and spot potential problems early in the design process. We utilize the latest computer aided drafting software, Autocad and Revit. We are dedicated to providing cost effective solutions with an emphasis on energy efficiency and creativity. Our dedication, from the early stages of the project until completion, has resulted in many satisfied clients who have become repeat customers.

(See Additional Pages)

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

Signature:  Print Name: Raymond H. Nolan, II, PE

Title: Owner/Senior Engineer Date: June 21,2024

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

Name:

Creative Engineering Group,
LLC

Public Address:

201 Highland Park
Plaza

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0003373	Active	12/06/2005	03/31/2026	Mr. Raymond Henry Nolan II # PE.0027697



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 9/15/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Raymond Henry Nolan II
201 Highland Park Plaza
Covington, Louisiana 70433

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com
Mr. Raymond Henry Nolan II	
License/Certificate Type - Number	Expiration Date
PE.0027697	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>	

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.