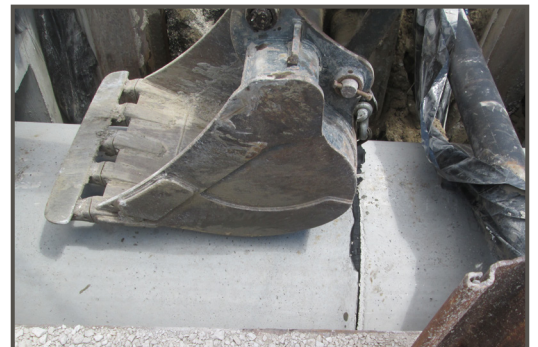


**JEFFERSON PARISH**  
SOQ 22-011 Resolution 138811  
Routine Engineering Services for Drainage Projects



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

**in association with:**

Gulf South Engineering and Testing, Inc  
BFM Corporation, LLC  
Creative Engineering Group, LLC

March 31  
2022

CHAIRMAN OF THE BOARD  
J. W. "BILL" GIARDINA, JR., PE

CORPORATE SECRETARY  
BRUCE L. BADON, AICP



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

3240 SOUTH I-10 SERVICE ROAD WEST, ROOM 300  
METAIRIE, LA 70001  
TELEPHONE (504) 483-6266  
[WWW.BKIUSA.COM](http://WWW.BKIUSA.COM)

OVER 100 YEARS OF SERVICE

PRESIDENT & CEO  
MICHAEL D. CHOPIN, PE

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

VICE PRESIDENTS  
DAVID E. BOYD, PE  
ELLEN WILMER SOLL, AICP

Jefferson Parish Purchasing Department  
Mr. Renny Simno, Director  
Joseph S. Yenni Building  
1221 Elmwood Park Blvd., Suite 404  
Jefferson, LA 70123

RE: SOQ 22-011 Resolution 138811  
Routine Engineering Services for Drainage Projects

Mr. Simno:

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

BKI is a full-service consulting firm providing professional planning and engineering services to public and private clients for over 100 years, with offices in Louisiana and Alabama. We are fully capable of providing all routine engineering services for drainage projects. Our Metairie office will serve as the main project office for this assignment with David Boyd, PE, Vice President serving as project manager. We are committed to client satisfaction, and we hope to provide assistance to the Parish in the successful implementation of future projects. We have a long and successful history of completing similar scale projects on time, and we hope to have the opportunity to extend that history.

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

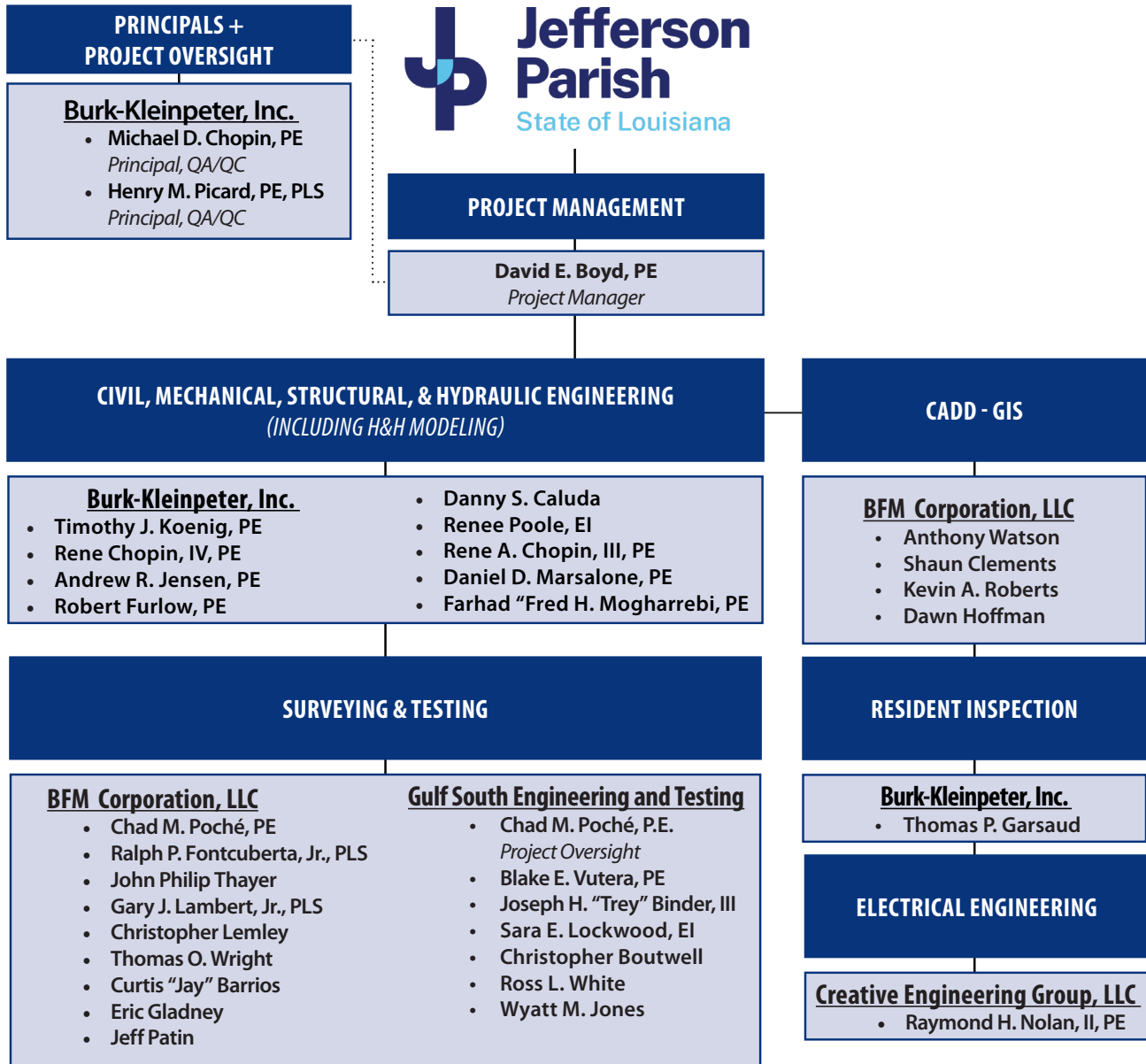
Sincerely,

A handwritten signature in blue ink, appearing to read "H M Picard III", is written over a faint, larger blue ink signature that appears to read "Henry M. Picard, III".

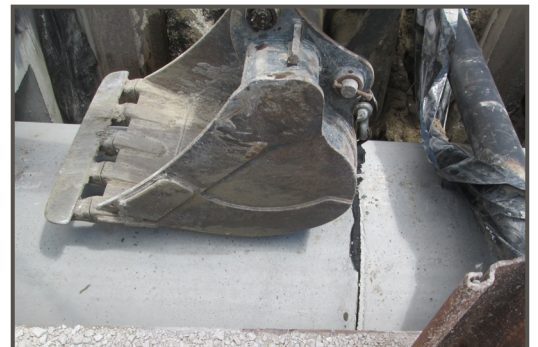
Henry M. Picard, III, PE, PLS  
Senior Vice President



# ORGANIZATIONAL CHART



Burk-Kleinpeter, Inc.  
TEC Questionnaire



**A. Project Name and Advertisement Resolution Number:**

**SOQ 22-011 Resolution 138811**  
**Routine Engineering Services for Drainage Projects**

**B. Firm Name & Address:**



3240 South I-10 Service Road West  
 Room 300  
 Metairie, LA 70001

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

**Michael D. Chopin, PE** - Principal - CEO- Civil Engineer - (504)343-6254, [mchopin@bkiusa.com](mailto: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.**

**David E. Boyd, PE** - Project Manager - (504)975-7735, [dboyd@bkiusa.com](mailto:dboyd@bkiusa.com)  
**Rene A Chopin, IV, PE** - Civil Engineer - (504)275-9463, [rhopin4@bkiusa.com](mailto:rhopin4@bkiusa.com)  
**Timothy J. Koenig, PE** - Civil Engineer - (504)717-6072, [tkoenig@bkiusa.com](mailto:tkoenig@bkiusa.com)

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

<u>14</u> Administrative	<u>0</u> Estimators	<u>0</u> Specification Writers
<u>0</u> Architects (Licensed)	<u>0</u> Geologists	<u>4</u> Structural Engineers
<u>0</u> Chemical Engineers	<u>0</u> Geotechnical Engineers	<u>0</u> Graduate Engineers
<u>12</u> Civil Engineers	<u>0</u> Interior Designers	<u>1</u> Project Managers
<u>9</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>1</u> Mechanical Engineers	<u>0</u> Sanitary Engineers
<u>4</u> Engineer Intern	<u>0</u> Environmental Engineers	<u>3</u> Planners
<u>0</u> Professional Land Surveyors	<u>7</u> CADD/GIS	<u>1</u> Designers
		<b><u>56</u> TOTAL</b>

**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.  <b>BFM Corporation, LLC</b> 15 Veterans Memorial Blvd, Kenner, LA 70062	Surveying	Yes
2.  <b>Gulf South Engineering and Testing, Inc</b> 15 Veterans Memorial Boulevard Kenner LA 70062	Geotechnical / Materials Testing	Yes
2.  <b>Creative Engineering Group, LLC</b> 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: 13**

**Total Team: 34**

- Gulf South: 7
- BFM: 13
- CEG: 1

# TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Michael D. Chopin, PE (Minimum Qualifications - 1)</b> <i>Principal/CEO</i>
<b>Project Assignment</b>
Principal / QA/QC
<b>Name of Firm with which associated</b>
 <div style="display: flex; justify-content: space-around; font-weight: bold; font-size: small;"> <span>ENGINEERING</span> <span>PLANNING</span> <span>ENVIRONMENTAL</span> </div>
<b>Years' experience with this Firm:</b>
30
<b>Education: Degree(s)/Year/Specialization:</b>
Bachelor of Science / 1991 / Civil Engineering
<b>Active registration: Year first registered/discipline</b>
1996 / Professional Engineer State of LA No. 26797
<b>Other experience and qualifications relevant to the proposed project:</b>
<p>Mr. Chopin is Principal/President at BKI in charge of personnel, including schedules, staff, budgets, technical review, and account management. He has over 26 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:**

**Causeway Blvd. Widening** - *Metairie, LA* - Oversaw traffic engineering, drainage design, and drainage plans for the project. BKI's responsibilities include a traffic study, signal plans, construction sequencing, and drainage design for widening Causeway Boulevard.

**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.

**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.

**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.

**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.

**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.

**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.

**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 UNET software.

**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.


**St James Parish Eastbank Master Drainage Plan** - *St. James Parish, LA* - Provided project oversight for the preparation of a Master Drainage Plan to alleviate flooding in the existing subdivisions and agricultural lands through development of upgraded outfalls. This phase of the study determined existing drainage conditions, created an existing conditions model and identified drainage and flooding problem areas. The Master Drainage Plan resulted in BKI's participation in an Eastbank-wide culvert analysis and design program partly funded by GOHSEP grants



## LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/06/2018, the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Michael David Chopin  
4921 Henican Place  
Metairie, LA 70003-1156

	<b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LAPELS)</b>	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
<b>Mr. Michael David Chopin</b>		
License/Certificate Type - Number	Expiration Date	
<b>PE.0026797</b>	<b>09/30/2022</b>	
<b>Status: Active</b>		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

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## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Henry M. Picard, III, PE, PLS (Minimum Qualifications - 3)</b> <i>Senior Vice President</i>
<b>Project Assignment</b>
Principal / QA/QC
<b>Name of Firm with which associated</b>
 <div style="display: flex; justify-content: space-around; font-size: small; margin-top: 5px;"> <span>ENGINEERING</span> <span>PLANNING</span> <span>ENVIRONMENTAL</span> </div>
<b>Years' experience with this Firm:</b>
32
<b>Education: Degree(s)/Year/Specialization:</b>
Bachelor of Science / 1981 / Civil Engineering
<b>Active registration: Year first registered/discipline</b>
1986 / Professional Engineer, State of LA No. 22289 1996 / Professional Engineer, State of AL No. 20937 2000 / Professional Engineer, State of FL No. 56552 1994 / Professional Land Surveyor, State of LA No. 4736
<b>Other experience and qualifications relevant to the proposed project:</b>
<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:**

**Causeway Boulevard Widening - Metairie, LA** - Responsible for quality control of the drainage design and drainage plans. BKL's responsibilities included a traffic study, signal plans, construction sequencing, and drainage design for widening Causeway Boulevard.

**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.

**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.

**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.

**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 UNET 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.



## LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/06/2018, the Louisiana Professional Engineering and Land Surveying Board (LPELS) has the following information on file:

Mr. Henry Maurice Picard  
1230 Rue Beauvais  
Mandeville, LA 70471-123

	<b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LPELS)</b>	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 <a href="http://www.lapels.com">www.lapels.com</a>	
<b>Mr. Henry Maurice Picard III</b>		
License/Certificate Type - Number	Expiration Date	
<b>PE.0022289</b>	<b>03/31/2023</b>	
<b>Status: Active</b>		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

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### Disclaimer

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# *Louisiana Professional Engineering and Land Surveying Board*

## License Information

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

<b>Name:</b>	<b>Address:</b>
Mr. Henry Maurice Picard III	1230 Rue Beauvais Mandeville, LA 70471-1233

### License/Certificate Information

License	Status	First Issuance Date	Expiration Date	Listed Discipline(s)
PLS.0004736	Active	06/16/1994	03/31/2023	

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Online Contact Info Update (<https://renewals.lapels.com/Activities/Listing.aspx?ID=40>)

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9643 Brookline Avenue | Suite 121 | Baton Rouge, LA 70809-1433  
225-925-6291 | Fax 225-925-6292

# TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Rene A. Chopin, III, PE (Minimum Qualifications -3 )</b>
<i>Supervisor - Structural Engineer</i>
<b>Project Assignment</b>
Supervisor - Structural Engineer
<b>Name of Firm with which associated</b>
 <div style="display: flex; justify-content: space-between; font-size: small; margin-top: 5px;"> <span>ENGINEERING</span> <span>PLANNING</span> <span>ENVIRONMENTAL</span> </div>
<b>Years' experience with this Firm:</b>
33
<b>Education: Degree(s)/Year/Specialization:</b>
Bachelor of Science / 1988 / Civil Engineering
<b>Active registration: Year first registered/discipline</b>
1993 / Professional Engineer, State of LA No. 25174
2005 / Certified Structural Engineer, State of LA No. 1774-1105
<b>Other experience and qualifications relevant to the proposed project:</b>
<p>Mr. Chopin is a Senior Vice President/Chief Engineer at BKI, in charge of project production, project management, and staff supervision. He has 29 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 drainage structures, pump stations, 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 2019.</p>

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

**Mr. Chopin has worked on the following applicable projects:**

**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.

**Causeway Boulevard Widening** - *Metairie, LA* - Project Manager is providing traffic engineering and drainage design for the widening of Causeway Boulevard from Airline Drive to West Napoleon Avenue. The project includes widening an existing four-lane divided roadway to a six-lane divided roadway, traffic signal upgrades, and drainage improvements along a one mile urban arterial. Drainage design and drainage plan sheets will be developed by BKL. Drainage improvements are subsurface with tie-ins at the existing West Napoleon Avenue box culverts.

**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.

**Clearview Pkwy Improvements, Mounes to Airline** - *Jefferson Parish, LA* - Supervised planning and environmental engineering study to upgrade traffic capacity for future widening of Huey P. Long Bridge.

**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.



## LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 10/5/2021 the Louisiana Professional Engineering and Land Surveying Board (LPELS) has the following information on file:

Mr. Rene Adrian Chopin III  
4728 Green Acres Court  
Metairie, Louisiana 700031104

	<b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LPELS)</b>	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 <a href="http://www.lapels.com">www.lapels.com</a>	
<b>Mr. Rene Adrian Chopin III</b>		
License/Certificate Type - Number	Expiration Date	
<b>PE.0025174</b>	<b>09/30/2023</b>	
<b>Status: Active</b>		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

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**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:**

**David E. Boyd, PE (Minimum Qualifications - 2)**

**Project Assignment**

Project Manager

**Name of Firm with which associated**



**Years' experience with this Firm:**

16

**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:**

Mr. Boyd is a Vice President in BKI's Civil Engineering Division. Since 2006, Mr. Boyd has provided BKI's public and private clients with professional consulting engineering services for drainage and flood control projects. Mr. Boyd is proficient in drainage improvement design utilizing Hydrologic and Hydraulic modeling using HEC-HMS and HEC-RAS as well as SWMM software.

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

**Mr. Boyd has worked on the following applicable projects:**

**Causeway Boulevard Widening** - *Metairie, LA* - Project Manager responsible for project oversight of drainage design and drainage plans. BKL's responsibilities included a traffic study, signal plans, construction sequencing, and drainage design for widening Causeway Boulevard.

**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.

**Oak Park Flood Mitigation Project** - *New Orleans, LA* - Provided civil engineering for the preparation of a hydrologic and hydraulic study. The hydraulic analysis included traditional storm drain culvert size improvements and green infrastructure stormwater techniques including water garden detentions. The New Orleans Redevelopment Authority (NORA) had obtained multiple lots within the Oak Park Subdivision that were abandoned after the Hurricane Katrina flooding event. NORA had placed the lots back into commerce or had developed them into greenspace or water gardens.

**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.

**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.

**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.

**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.

**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.



## LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/06/2018, the Louisiana Professional Engineering and Land Surveying Board (LPELS) has the following information on file:

Mr. David Edward Boyd  
7222 Sardonyx Street  
New Orleans, LA 70124

	<b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LPELS)</b>	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 <a href="http://www.lapels.com">www.lapels.com</a>	
<b>Mr. David Edward Boyd</b>		
License/Certificate Type - Number	Expiration Date	
<b>PE.0035510</b>	<b>09/30/2022</b>	
<b>Status: Active</b>		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

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## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Timothy J. Koenig, PE (Minimum Qualifications - 3)</b> <i>Associate Civil Engineer</i>
<b>Project Assignment</b>
Civil Engineer
<b>Name of Firm with which associated</b>
 <b>BURK-KLEINPETER, INC.</b> <small>ENGINEERING · PLANNING · ENVIRONMENTAL</small>
<b>Years' experience with this Firm:</b>
18
<b>Education: Degree(s)/Year/Specialization:</b>
Bachelor of Science / 2004 / Civil Engineering Bachelor of Science / 1998 / Microbiology
<b>Active registration: Year first registered/discipline</b>
2009 / Professional Engineer State of LA No. 35079
<b>Other experience and qualifications relevant to the proposed project:</b>
<p>Mr. Koenig is an Associate Civil Engineer at BKI with 18 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:**

**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.

**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.



## LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/06/2018, the Louisiana Professional Engineering and Land Surveying Board (LPELS) has the following information on file:

Mr. Timothy James Koenig  
4176 Canal Street  
New Orleans, LA 70119



**LOUISIANA PROFESSIONAL  
ENGINEERING & LAND SURVEYING BOARD  
(LPELS)**

9643 Brookline Avenue, Suite 121  
Baton Rouge, LA 70809  
Phone (225) 925-6291  
[www.lapels.com](http://www.lapels.com)

**Mr. Timothy James Koenig**

License/Certificate Type - Number	Expiration Date
<b>PE.0035079</b>	<b>03/31/2022</b>
Status: <b>Active</b>	

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# TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Rene A. Chopin, IV, PE (Minimum Qualifications - 3)</b> <i>Civil Engineer</i>
<b>Project Assignment</b>
Civil Engineer / Hydraulics Engineer
<b>Name of Firm with which associated</b>
 <b>BURK-KLEINPETER, INC.</b> <small>ENGINEERING · PLANNING · ENVIRONMENTAL</small>
<b>Years' experience with this Firm:</b>
8
<b>Education: Degree(s)/Year/Specialization:</b>
Bachelor of Science / 2013 / Civil Engineering
<b>Active registration: Year first registered/discipline</b>
2009 / Professional Engineer State of LA No. 42349
<b>Other experience and qualifications relevant to the proposed project:</b>
<p>Mr. Chopin joined BKI full time in 2013 after serving as an intern for two years. He graduated from the University of New Orleans with a Bachelor of Science in Civil Engineering and is a Registered Professional Engineer in Louisiana. Mr. Chopin works in the Civil Department with a focus on drainage design, Hydraulic and Hydrologic Engineering. His experience includes HEC-HMS, HEC-RAS, HEC-GIS, PLSWMM, PondPac, and HydrWin software. He has worked on various projects such as roadway and drainage improvement projects, master drainage plans, and harbor improvements including dredging. His responsibilities have included performing engineering calculations, site layout, plan and specification preparation, estimating project costs, and construction administration.</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:**

**Causeway Boulevard Widening** - *Metairie, LA* - Provided engineering design for drainage design layout and drainage plans. BKI's responsibilities will include a traffic study, signal plans, construction sequencing, and drainage design for widening Causeway Boulevard.

**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.

**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.

**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.

**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.

**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.


**Drainage Pump Station Certification for USACE and FEMA** - *Orleans and St. Charles Parishes, LA* - Civil Engineer: Provided civil engineering calculations and quantities of floodwall designs for the certification of pump stations. BKI performed condition assessments for 22 pump stations and one power plant in Orleans Parish and pump station building assessments and analysis only for 19 pump stations in St. Charles Parish.



## LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/06/2018, the Louisiana Professional Engineering and Land Surveying Board (LPELS) has the following information on file:

Mr. Rene Adrian Chopin IV  
5005 Green Acres Court  
Metairie, LA 70003

	<b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LPELS)</b>	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 <a href="http://www.lapels.com">www.lapels.com</a>	
<b>Mr. Rene Adrian Chopin IV</b>		
License/Certificate Type - Number	Expiration Date	
<b>PE.0042349</b>	<b>09/30/2022</b>	
<b>Status: Active</b>		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

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TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Andrew R. Jensen, PE (Minimum Qualifications -3 )</b> <i>Civil Engineer</i>
<b>Project Assignment</b>
Civil Engineer
<b>Name of Firm with which associated</b>
 The logo for BKI Burk-KleinPeter, Inc. features the letters 'BKI' in a large, bold, blue sans-serif font. To the right of 'BKI' is the company name 'BURK-KLEINPETER, INC.' in a smaller, blue, all-caps sans-serif font. Below the company name, the words 'ENGINEERING', 'PLANNING', and 'ENVIRONMENTAL' are listed in a small, blue, all-caps sans-serif font, separated by small blue dots.
<b>Years' experience with this Firm:</b>
8
<b>Education: Degree(s)/Year/Specialization:</b>
Bachelor of Science / 2014 / Civil Engineering
<b>Active registration: Year first registered/discipline</b>
2009 / Professional Engineer State of LA No. 43382
<b>Other experience and qualifications relevant to the proposed project:</b>
<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:**

**RR136: Plum Orchard Group C (FRC)** - 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.

**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.

**Causeway Boulevard Widening** - *Metairie, LA* - Collected data for a detailed traffic study of the Causeway corridor and performed drainage calculations for the preliminary drainage report for the widening of Causeway Boulevard from Airline Drive to West Napoleon Avenue.

**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.


**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.



## LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 10/5/2021 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Andrew Robert Jensen  
10 37th Street  
Kenner, Louisiana 70065

	<b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LAPELS)</b>	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 <a href="http://www.lapels.com">www.lapels.com</a>	
<b>Mr. Andrew Robert Jensen</b>		
License/Certificate Type - Number	Expiration Date	
<b>PE.0043382</b>	<b>09/30/2023</b>	
<b>Status: Active</b>		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

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# TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Renee Poole, EI</b> <i>Civil Engineer Intern</i>
<b>Project Assignment</b>
Civil Engineer Intern
<b>Name of Firm with which associated</b>

<b>Years' experience with this Firm:</b>
2
<b>Education: Degree(s)/Year/Specialization:</b>
Bachelor of Science / 2019 / Civil and Environmental Engineering
<b>Active registration: Year first registered/discipline</b>
2019 / Engineering Intern, State of LA No. 34097
<b>Other experience and qualifications relevant to the proposed project:</b>
<p>Ms. Poole is a Civil and Environmental Engineering graduate of the University of New Orleans (UNO). Ms. Poole's firm experience includes both hydrologic and hydraulic analyses, drainage design, and construction oversight. Her previous experience includes work as an engineering tutor to UNO students and as an engineering intern at BLD Services in Kenner, where she worked for three years assisting project managers and engineers on several city drainage, sewer, water maintenance, and capital improvement projects. She serves on the Board of Directors of the American Concrete Institute, Louisiana Chapter, and is a member of the American Public Works Association.</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:**

**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.

**Upper Barataria Risk Reduction Project Phase 1** - *Various Parishes* - Performed calculations to determine the required riprap design weight, depth and layout for the proposed discharge basin.

**St. Charles Westbank Levee** - *St. Charles Parish, LA* - Performed hydraulic calculations to determine the size of the weir in the proposed channel improvements for the Magnolia Ridge Levee.

**Wolf Bay Bridge Final Design** - *Orange Beach, AL* - Responsible for supporting the design of the bridge's main span and approaches for a project connecting SR-161 across Wolf Bay to CR-95. Reviewing storm surge assessment and creating the bridge and bay model in HEC-RAS to determine the bridge scour. The project will extend approximately 4.8 miles, with the bridge approximately 4,800 linear feet in length and surface streets approximately 3.9 miles long.


**Jefferson Parish Maintenance Contract (Prior to Graduation)** - *Jefferson Parish, LA* - Worked with the city engineer and project manager to create a priority schedule for drainage, water, and sewer lines. Ms. Poole also helped determine the necessity and cost effectiveness of repairs.



## LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

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Ms. Renee Poole  
4176 Canal St  
New Orleans, Louisiana 70119

	<b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LAPELS)</b>	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 <a href="http://www.lapels.com">www.lapels.com</a>	
<b>Ms. Renee Poole</b>		
License/Certificate Type - Number	Expiration Date	
<b>EI.0034097</b>	<b>09/30/2023</b>	
<b>Status: Active</b>		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

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# TEC Professional Services Questionnaire

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

<b>Years' experience with this Firm:</b>
34
<b>Education: Degree(s)/Year/Specialization:</b>
Bachelor of Science / 1981 / Petroleum Engineering
<b>Active registration: Year first registered/discipline</b>
N/A
<b>Other experience and qualifications relevant to the proposed project:</b>
<p>Mr. Caluda is an Associate with major technical responsibility in the Mechanical Engineering Division of BKI. He has 39 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:**

**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.

**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.

**West Shore Levees and Floodwalls** - *St. Charles, St. John the Baptist, and St. James Parishes, LA* - Mechanical Designer: Assisted in preliminary plans for a new 1,800 CFS drainage pump station located in the Reach I levee limits of the West Shore Levee Project adjacent to the I-10/I-55 interchange in St. John the Baptist Parish, Louisiana.

**80 Arpent Pump Station Expansion** – *St. Charles Parish, LA* - Designed a 150-cfs addition to Eighty Arpent Drainage Pumping Station on the west bank of St. Charles Parish, consisting of two 48" vertical pumps with natural gas-powered engines and right- angle gear units driving each pump.

**Drainage Pump Stations No. 13, 14 & 16 Trash Rack Screen Replacement** – *New Orleans, LA* - Design for replacement of existing trash screen cleaners.

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Robert P. Furlow, PE</b> <i>Mechanical Engineer</i>
<b>Project Assignment</b>
Mechanical Engineer
<b>Name of Firm with which associated</b>
 <b>BURK-KLEINPETER, INC.</b> ENGINEERING • PLANNING • ENVIRONMENTAL
<b>Years' experience with this Firm:</b>
1
<b>Education: Degree(s)/Year/Specialization:</b>
Bachelor of Science / 1981 / Petroleum Engineering
<b>Active registration: Year first registered/discipline</b>
2011 / Professional Engineer, State of LA No. 35966
<b>Other experience and qualifications relevant to the proposed project:</b>
Mr. Furlow was hired by BKI in 2021 and has 11 years prior experience as a Professional Mechanical and Hydraulic Engineer with work experience in the oil, gas and petrochemical industries as well as extensive experience in piping and facility design which includes pipe stress analysis and hydraulics, pipeline engineering, and project management. Mr. Furlow's experience also includes developing piping, equipment & construction specifications, P&ID development, pump and compressor sizing, equipment selection and procurement, pressure vessel analysis, process balancing; fire protection and drafting & design. He is experienced with industry standards ASME B31.3, B31.4 & B31.8.
<b><u>Mr Furlow's skills and knowledge include:</u></b>
<ul style="list-style-type: none"> <li>• CAESAR II</li> <li>• ASME, API, NFPA Codes &amp; Standards</li> <li>• PVElite</li> <li>• PIPE-FLO</li> <li>• AutoCAD</li> <li>• Pipe Flow Expert</li> <li>• Pipeline Toolbox</li> <li>• NozzlePRO</li> <li>• Pipephase</li> </ul>
<i>Mr. Furlow's applicable projects are listed on the following page.</i>

**Mr. Furlow has worked on the following applicable projects:**

**25th Street Canal Drainage Improvements Project (Resiliency District)** - *Gretna, LA* - Mechanical engineering and design for new pump station with capacity of 350 cfs to provide drainage of residential area in Jefferson Parish.

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

**Cheniere Water Storage Tank** - *Grand Isle, LA* - Mechanical engineer for a 1,000,000 gallon ground storage tank and duplex pump station at the water department's Cheniere facility in Grand Isle.

**Pre-BKI Experience**

**Senior Mechanical Engineer, Keystone Engineering – Covington, LA Oct. 2018 – March. 2020**

Lead design mechanical engineer for multiple systems on large offshore oil & gas platform including Flowline, Heat Media, Seawater Cooling Media, and Gas Sales. Involvement included P&ID development, hydraulic analysis and equipment RFQ management. Lead pipe stress engineer for offshore oil & gas platform.

**Senior Pipeline Engineer/Project Manager, T. Baker Smith – Covington, LA April 2016 – Sep. 2018**

Led effort in developing engineering consulting group for oil & gas clientele. Performed engineering design and project management for pipeline systems and facilities such as terminals, pipelines, compressor/pump, pigging and meter stations.


**Chevron Pipeline Company (CPL) – Covington, LA June 2014 – April 2016** - As Field Engineer/Project Manager provided technical support to operations. Responsibilities included calculations, documentation and recommendations such as relief valve settings, field connection, MOP studies, hydraulic analysis, pipeline capacity evaluations, design and installation of new connections, and technical input to Operations Manual as requested. Functioned as a technical consultant for field teams regarding interpretation of various codes, laws and regulations. In addition, provided technical consultation and project development services to the Business Development team for business opportunities. Provided facility and pipeline project management services for CPL operated systems on projects typically less than \$5MM. This included project scoping, cost estimating, evaluation of alternatives, hydraulic analysis, procurement, environmental and permit coordination, contracting and construction management and ensuring that vital records were kept current. Projects included producing water/Methanol handling at Chevron crude oil terminal. Terminal did not have a means to handle off spec crude from offshore facilities; increasing flow of y-grade through CPL pipelines (included tying 2 existing pipelines, de-bottlenecking and modification of the pump station; and the Marine Vapor Recovery Unit upgrade at CPL Crude oil terminal.



## LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/06/2018, the Louisiana Professional Engineering and Land Surveying Board (LPELS) has the following information on file:

Mr. Robert P. Furlow  
134 Tchefuncte Parc Drive  
Madisonville, LA 70447

	<b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LPELS)</b>	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 <a href="http://www.lapels.com">www.lapels.com</a>	
<b>Mr. Robert P. Furlow</b>		
License/Certificate Type - Number	Expiration Date	
<b>PE.0035966</b>	<b>03/31/2023</b>	
<b>Status: Active</b>		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

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<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Daniel D. Marsalone, PE, PTOE</b> <i>Sr. Structural Engineer</i>
<b>Project Assignment</b>
Structural Engineer
<b>Name of Firm with which associated</b>

<b>Years' experience with this Firm:</b>
2
<b>Education: Degree(s)/Year/Specialization:</b>
Bachelor of Science / 1994 / Civil Engineering
<b>Active registration: Year first registered/discipline</b>
1999 / Professional Engineer, State of LA No. 28554
<b>Other experience and qualifications relevant to the proposed project:</b>
<p>Mr. Marsalone is a Senior Structural Engineer with Burk-Kleinpeter, Inc. He received his Bachelor of Science in Civil Engineering and is a Registered Professional Engineer in Louisiana, Mississippi, Texas, Arizona, and New Mexico. He has 23 years of experience in project management on structural concrete design projects, with project types including site drainage design, bridges (design and rating), water and wastewater, flood protection, street and highway, and traffic engineering. His software capabilities include AASHTOWare Bridge Rating (Virtis), ConSpan, ConBox, RC-Pier, L-Pile, STAAD.Pro, PCA Column, MicroStation/InRoads, AutoCad, Merlin-Dash, HEC-RAS, WSPRO, and EPANET.</p> <p><i>Mr. Marsalone's applicable projects are listed on the following page.</i></p>

**Mr. Marsalone has worked on the following applicable projects:**

**Causeway (LA3046) / Earhart Blvd (LA 3139) Interchange (H.002861)** - *Jefferson Parish, LA* - Responsible for the design of two elevated ramp superstructures in the interchange and responsible for supervision of substructure and foundation design. Superstructure types included AASHTO prestressed concrete girder spans and curved steel girder spans. Also responsible for LRFR bridge rating calculations.

**Rural Bridge Replacement Initiative, Phase 1** - *Various Parishes, LA* - Responsible for the design of replacement bridges for 33 on-system and off-system bridges in Districts 03, 07, 61, and 62. Design responsibilities included structural design of the bridges, as well as hydraulic and scour analysis for the bridge sites and supervision of roadway design.

**Rosethorne Sewage Treatment Plant** - *Jefferson Parish, LA* - Responsible for construction engineering services and modifications of structural items of the project including the wastewater clarifier catwalk support structure, and review of modifications required to the scrapper arm assembly due to wastewater clarifier geometry.

**St. Charles Westbank Levee** - *St. Charles Parish* - Responsible for the design of floodwalls and flood gates as well as the preparation of plans and specifications and construction administration.

**West Shore Levee Improvements** - *St. Charles, St. John the Baptist, & St. James Parishes, LA* - Responsible for the review of design reports, structural plans, specifications and design calculations for the hurricane and storm damage risk reduction project. The project included drainage pump stations, drainage structures and floodwalls.

**Pointe a la Hache Ferry Landing Ramp Repair** - *Plaquemines Parish, LA* - structural designer for emergency repairs of the EPALH Ferry Landing. Including redesign of existing timber abutment and ramp bent, modifications of corroded steel-flanges, specs, cost estimate, and plan preparation.

**Jack Warner Parkway Extension to Martin Luther King, Jr. Boulevard** - *Tuscaloosa, AL* - Responsible for the substructure design of two railroad bridges, KCS's Warrior Mainline and Goodrich Spur in Tuscaloosa, AL. The substructure consisted of reinforced concrete piers and abutments founded on drilled shaft foundations. Unique to the project was the requirement that the design allow for both lines to remain in service during the project with only miniscule windows where the rail could be out of service.


**Rosethorne Sewage Treatment Plant** - *Jefferson Parish, LA* - Responsible for construction engineering services and modifications of structural items of the project including the wastewater clarifier catwalk support structure, and review of modifications required to the scrapper arm assembly due to wastewater clarifier geometry.



## LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 10/5/2021 the Louisiana Professional Engineering and Land Surveying Board (LPELS) has the following information on file:

Mr. Daniel David Marsalone  
1901 Highway 190, Apt. 1925  
Mandeville, Louisiana 70448

	<b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LPELS)</b>	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
<b>Mr. Daniel David Marsalone</b>		
License/Certificate Type - Number	Expiration Date	
<b>PE.0028554</b>	<b>09/30/2023</b>	
<b>Status: Active</b>		
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<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Farhad "Fred" Mogharrebi, PE</b> <i>Structural Engineer</i>
<b>Project Assignment</b>
Structural Engineer
<b>Name of Firm with which associated</b>
 <b>BURK-KLEINPETER, INC.</b> ENGINEERING • PLANNING • ENVIRONMENTAL
<b>Years' experience with this Firm:</b>
1
<b>Education: Degree(s)/Year/Specialization:</b>
Bachelor of Science / 1983 / Civil Engineering
<b>Active registration: Year first registered/discipline</b>
1998 / Professional Engineer, State of LA No. 27984
<b>Other experience and qualifications relevant to the proposed project:</b>
<p>Mr. Mogharrebi is a Structural Engineer with over 24 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.

**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 bulkhead wall and pump station discharge tube extension and supports.



## LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/06/2018, the Louisiana Professional Engineering and Land Surveying Board (LPELS) has the following information on file:

Mr. Farhad H. Mogharrebi  
6563 Double Tree Drive  
Baton Rouge, LA 70817

	<b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LPELS)</b>	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 <a href="http://www.lapels.com">www.lapels.com</a>	
<b>Mr. Farhad H. Mogharrebi</b>		
License/Certificate Type - Number	Expiration Date	
<b>PE.0027984</b>	<b>09/30/2022</b>	
<b>Status: Active</b>		
<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 LPELS 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 LPELS believes the information to be reliable, human or mechanical error remains a possibility, as does delay in the posting or updating of information. Therefore, LPELS makes no guarantee as to the accuracy, completeness, timeliness, currency, or correct sequencing of the information. Neither LPELS, 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 LPELS.

**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:****Name & Title:****Thomas P. Garsaud***Resident Inspector***Project Assignment**

Resident Inspector

**Name of Firm with which associated**
**BURK-KLEINPETER, INC.**  
 ENGINEERING • PLANNING • ENVIRONMENTAL
**Years' experience with this Firm:**

41

**Education: Degree(s)/Year/Specialization:****Active registration: Year first registered/discipline****Other experience and qualifications relevant to the proposed project:**

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.

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

**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.

**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:	
<b>Maplewood Area Drainage Improvements</b>  <i>Jefferson Parish, LA</i>  Mark Drewes  Jefferson Parish Government 1221 Elmwood Park Blvd Jefferson, LA 70123 (504)736-6494	<p><b>Burk-Kleinpeter, Inc.</b> 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:
<b>08/2018</b>	<b>\$10,070,886</b>	<b>\$201,327 (Fee)</b>
PROJECT NO. 2		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<b>Avenue D Canal Drainage Improvements</b>  <i>Jefferson Parish, LA</i>  Mark Drewes  Jefferson Parish Government 1221 Elmwood Park Blvd Jefferson, LA 70123 (504)736-6494	<p><b>Burk-Kleinpeter, Inc.</b> 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:
<b>12/2017</b>	<b>\$3,000,000</b>	<b>\$227,500 (Fee)</b>

**TEC Professional Services Questionnaire**

<b>PROJECT NO. 3</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Bellemeade Area Drainage</b>  <i>Jefferson Parish, LA</i>  Mark Drewes  Jefferson Parish Government 1221 Elmwood Park Blvd Jefferson, LA 70123 (504)736-6494	<b>Burk-Kleinpeter, Inc.</b> 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, BKL incorporated previous studies and modeling efforts that were provided by Jefferson Parish. BKL 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.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
<b>04/2012</b>	<b>\$4,000,000</b>	<b>\$338,364 (Fee)</b>
<b>PROJECT NO. 4</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>City of Gretna Downtown Drainage Improvements</b>  <i>Gretna, LA</i>  Amelia Pellegrin  City of Gretna 740 Second Street Gretna, LA 70053 (504) 363-1568	<b>Burk-Kleinpeter, Inc.</b> 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.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
<b>09/2018</b>	<b>\$4,200,000</b>	<b>\$94,000 (Fee)</b>

TEC Professional Services Questionnaire

PROJECT NO. 5		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Hancock Street Canal Improvements</b>  <i>Gretna, LA</i>  Amelia Pellegrin  City of Gretna 740 Second Street Gretna, LA 70053	<b>Burk-Kleinpeter, Inc.</b> 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.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
<b>04/2014</b>	<b>\$2,200,000</b>	<b>\$296,000(Fee)</b>
PROJECT NO. 6		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Jefferson Parish Drainage Improvements at Taft, Turnbull &amp; Belmont</b>  <i>Jefferson Parish, LA</i>  Mark Drewes  Jefferson Parish Government 1221 Elmwood Park Blvd Jefferson, LA 70123 (504)736-6494	<b>Burk-Kleinpeter, Inc.</b> 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. BKL provided all preconstruction engineering services, bidding assistance, construction administration, and resident project representative services throughout the construction period.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
<b>09/2015</b>	<b>\$3,743,560</b>	<b>\$689,713 (Fee)</b>

TEC Professional Services Questionnaire

PROJECT NO. 7		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Breaux Ditch Improvements</b>  <i>Jefferson Parish, LA</i>  Mark Drewes  Jefferson Parish Government 1221 Elmwood Park Blvd Jefferson, LA 70123 (504)736-6494	<b>Burk-Kleinpeter, Inc.</b> 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.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
<b>01/2022</b>	<b>\$1,400,000</b>	<b>\$221,975 (Fee)</b>
PROJECT NO. 8		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Jefferson Parish Parishwide Drainage Ponding</b>  <i>Jefferson Parish, LA</i>  Mark Drewes  Jefferson Parish Government 1221 Elmwood Park Blvd Jefferson, LA 70123 (504)736-6494	<b>Burk-Kleinpeter, Inc.</b> was selected by the Jefferson Parish Department of Public Works to develop a master plan for potential reuse of public spaces for stormwater detention throughout Jefferson Parish. Several dozen potential sites including public playgrounds, major highway interchanges and other large undeveloped tracts of land were identified as potential sites. An estimate of storage volumes was calculated and a means of conveying storm water from nearby drainage canals to each detention pond was also investigated. After the hydraulic calculations determined the volume of potential storage, cost estimates were developed for each potential pond site. Finally, a priority list was developed based on the cost and potential storage volume of each site was developed to assist the Parish Public Works Department in implementing the beneficial reuse of these public spaces.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
<b>03/2007</b>	<b>\$140,000</b>	<b>\$79,100 (Fee)</b>

TEC Professional Services Questionnaire

PROJECT NO. 9		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Stumpf Blvd Drainage Improvements</b>  <i>Gretna, LA</i>  Ron Johnson  City of Gretna 740 Second Street Gretna, LA 70053  (504) 363-1540	<b>Burk-Kleinpeter, Inc.</b> was selected by the City of Gretna to assess and prepare alternative solutions to address failing banks of the Stumpf Boulevard Canal between Friedrichs Street and the West Bank Expressway. BKL developed a permanent solution which involved the installation of a 72-inch drainage pipe in the canal which would be of sufficient capacity to convey storm water while solving the bank erosion issue. The project also involved the replacement of adjacent travel lanes along Stumpf Boulevard in both the north and south directions which have experienced base failure and roadway surface settlement/warping due to the bank erosion issue. BKL provided permitting in order to obtain a Louisiana Department of Transportation and Development project permit because the project is adjacent to the West Bank Expressway, a state route. BKL prepared plans and specifications for advertisement, construction administration, and resident inspection.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
<b>01/2028</b>	<b>\$583,940</b>	<b>\$75,059 (Fee)</b>
PROJECT NO. 10		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Wardline Road Drainage Improvements</b>  <i>Hammond, LA</i>  John Dardis Tangipahoa Parish Government PO Box 215 Amite, LA 70422 (985) 748-3211	<b>Burk-Kleinpeter, Inc.</b> 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. BKL's first task was to perform a hydrologic and hydraulic study to determine the best method of improvements. BKL 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, BKL assisted the Parish in the preparation of GOHSEP application for funding, including attending several meetings and hosting a meeting with GOHSEP personnel. BKL coordinated with the local Drainage District, then designed the drainage improvements and the widening of Wardline Road. BKL submitted 30%, 60%, 90%, and final plans and specifications to both the Parish and to GOHSEP for review. BKL performed Construction Administration and Resident Inspection for the project. The construction cost of the project is approximated at \$3.9 million.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
<b>04/2018</b>	<b>3,924,702</b>	<b>\$208,740 (Fee)</b>

# TEC Professional Services Questionnaire

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

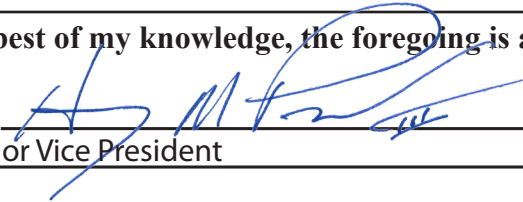
Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1. N/A	N/A	N/A
2. N/A	N/A	N/A
3. N/A	N/A	N/A
4. N/A	N/A	N/A

**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 22-011 Resolution 138811 Routine Engineering Services for Drainage Projects**. Founded in 1910, BKI has become one of the leading consulting firms in the southeast region providing professional engineering (civil, structural, and mechanical) 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 and is included regularly in the Top 500 Design Firms in the nation by *Engineering News Record*. BKI's stability and depth of experience has provided numerous state and local public works authorities 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 with a keen eye toward meeting clients' big-picture needs in an ever-changing environment. **BKI has provided engineering services to Jefferson Parish for more than 70 years.** BKI, independently and in coordination with subconsultants, has over 50 years of experience performing a variety of engineering services for 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: 03/31/2022

**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**, BKL'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).**

- **David Boyd, PE** is the Professional in Charge of Project and a licensed, registered professional engineer in Louisiana with 16 years of experience at BKL.

**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 33 years of experience at BKL.
- **Henry M. Picard, III, PE** is the regional manager and is a licensed, registered professional engineer in Louisiana with 31 years of experience at BKL and 40 years experience as an engineer.
- **Timothy J. Koenig, PE** is a Civil Engineer and is a licensed, registered professional engineer in Louisiana with 18 years of experience at BKL.
- **Andrew R. Jensen, PE** is a Civil Engineer and is a licensed, registered professional engineer in Louisiana with 8 years of experience at BKL.
- **Rene A. Chopin, IV, PE** is a Civil Engineer and is a licensed, registered professional engineer in Louisiana with 8 years of experience at BKL.

**EVALUATION CRITERIA**

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

BKL 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. BKL 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*

- **30 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** - *QA/QC; LA Registered Professional Engineer*

- **40 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, Project Management*

- **16 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.

**2. Capacity for Timely Completion**

The BKL 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. BKL 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 with a branch office in **Metairie**, 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**

Burk-Kleinpeter, Inc's **Metairie** office 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. Additional staff can be pulled from our other offices in Louisiana and Alabama should the need arise.

**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

- 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
<b>Belle Chasse Area Master Drainage Plan</b>	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.	Ken Dugas <b>Plaquemines Parish Government</b> 333 F. Edward Hebert Blvd. Belle Chasse, LA 70037 (504) 934-6115

PROJECT	DESCRIPTION	CLIENT REFERENCE
<b>25th Street Canal Drainage Improvements Project (Resiliency District)</b>	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.	Amelia Pellegrin <b>City of Gretna</b> 740 Second Street Gretna, LA 70053 (504) 363-1568
<b>St. Charles Parish Sunset Pump Station Bar Screen - Canal Dredging Hydraulic Study</b>	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.	Sam Scholle <b>St. Charles Parish</b> 15045 River Road Hahnville, LA 70057 Scholle, St. Charles Parish, (985) 783-5102
<b>Hancock Street Canal Improvements</b>	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.	Amelia Pellegrin <b>City of Gretna</b> 740 Second Street Gretna, LA 70053 (504) 363-1568

**6. Firm Size**

**BKI's entire company staff (including branch offices) consists of 56 full-time employees.**

ENGINEER	PLANNER	DESIGNER/ DRAFTER	ENGINEERING INTERN	CONSTRUCTION INSPECTOR	ADMINISTRATIVE	PROJECT MANAGER
<b>Civil: 12 ; Mechanical: 1 Structural: 4</b>	3	8	4	9	14	1

Of these employees, we have identified **13** 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**

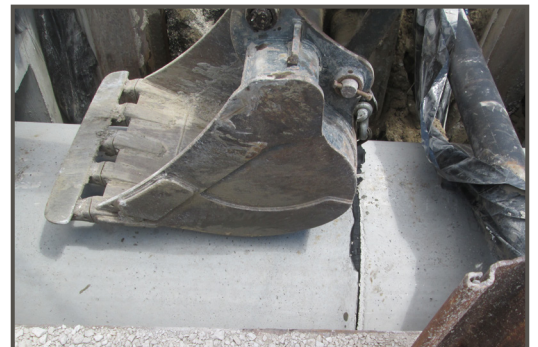
In addition to the other projects mentioned, BKL has successfully completed the following drainage projects for Jefferson Parish Council and Jefferson Parish Department of Public Works:

- 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, BKL 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 22-011 Resolution 138811 - Routine Engineering Services for Drainage Projects**

**BFM Corporation, LLC  
TEC Questionnaire**



220331, LA, JP 22-011, RES Drainage Projects, BFM • 2022 March 13 (Sunday) @ 2:58:26 PM

## TEC Professional Services Questionnaire

**A. Project Name and Advertisement Resolution Number:**

### **Routine Engineering Services for Drainage Projects**

SOQ 22-011 | Resolution No. 138811

**B. Firm Name & Address:**



**BFM**  
CORPORATION, LLC  
Professional Land & Hydrographic Surveying

**BFM Corporation, LLC**

15 Veterans Memorial Boulevard  
Kenner LA 70062

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

**Chad M. Poché, P.E., Executive Vice President**

504-468-8800 • 504-460-5239 cell • cpoche@bfmcorporation.com

Registered Professional Civil Engineer, Louisiana No. 27667 (since 1998)

**D. Name, title, & 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., Executive Vice President • LA License No. 4329 (1974)**

504-468-8800 • 504-451-7500 cell • ralph@bfmcorporation.com

Registered Professional Land Surveyor, Louisiana No. 4329 (since 1974)

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

4	Administrative	-	Estimators	-	Specification Writers
-	Architects (Licensed)	-	Geologists	-	Structural Engineers
-	Chemical Engineers	1	Geotechnical Engineers	-	Graduate Engineers
-	Civil Engineers	-	Interior Designers	2*	Project Managers
-	Construction Inspectors	-	Landscape Architects	-	Clerical ( <i>see Administrative</i> )
-	Ecologists	-	Land Surveyor ( <i>see PLS</i> )	-	Grant/Funding Specialist
-	Electrical Engineers	-	Mechanical Engineers	-	Sanitary Engineers
-	Engineer Intern	-	Environmental Engineers	1	Principals
2	Professional Land Surveyors			1	Researcher/Archivist
				3	Drafting/AutoCADD
				5	Survey Crew Chiefs
				6	Instrument Men
				24	TOTAL

\* Project Manager also noted in Professional Land Surveyor, but overall employee count is correct.

**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 a 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 Prime Before (Yes or No):
1. <b>N/A</b>		
2.		
3.		

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

24 (all personnel, primary and support, will be available on all assigned projects)

## 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 of the Firm's key persons that may assist in the completion of this Project. Please attach additional pages if necessary.**

### **PROFESSIONAL IN CHARGE OF PROJECT:**

**Name & Title:**

**Ralph P. Fontcuberta, Jr., PLS**  
Executive Vice President

**Project Assignment:**

Registered Professional Land Surveyor

**Name of Firm with which associated:**

**BFM CORPORATION, LLC**  
Professional Land & Hydrographic Surveying

**Years experience with this Firm:**

40 years (Founding Principal of BFM in 1982); 55 years total (1967)

**Education: Degree(s)/Year/Specialization:**

*Coursework, Building, Delgado College, New Orleans*  
*Coursework, Math, University of New Orleans*

**Active registration: Year first registered/discipline:**

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

**Other experience and qualifications relevant to the proposed Project:**

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

Since the beginning of his career, his work has entailed computations, drafting, and field work for various industrial, commercial, municipal, and private clients. Project work has included topographic surveying needed for a wide variety of engineering, architectural, and related endeavors.

## TEC Professional Services Questionnaire

### Other experience and qualifications relevant to the proposed Project:

*Ralph P. Fontcuberta, Jr., PLS (continued)*

Mr. Fontcuberta's **surveying experience with Jefferson Parish can be traced back to BFM's inception in 1982**, and before 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:

- *Bissonet Plaza Drainage Improvements (Phase 1, Elmwood Parkway and Craig Avenue), Metairie, Jefferson Parish, LA*
- *Lapalco Boulevard Bridge at Harvey Canal, (PW 2017-046-RBP; DOTD H.004396), 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*
- *West Bank Expressway, Phase I Drainage Map, from Peters Road to Manhattan Boulevard, Jefferson Parish, LA*
- *West Bank Subsurface Drainage Improvement Project, Phase II, Bellemeade Boulevard to the Violet Canal Discharge, Jefferson Parish, LA*
- *Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA*
- *Coventry Drainage Pump Stations, Jefferson Parish, LA*
- *Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, LA*
- *Mounes Subsurface Drainage – Phase I, Jefferson Parish, LA*
- *Jack & Bores Survey (Drainage Project), Waggaman, Jefferson Parish, LA*
- *Oakwood Terrytown Drainage Improvements (HMGP) (Carol Sue Drainage Improvements), Jefferson Parish, LA*
- *Drainage Improvements, Metairie Lawn to Labarre Drive, Jefferson Parish, LA*
- *Mary Ridge Court, Jefferson Parish, LA*
- *Bannerwood Drainage Improvements (Mt. Laurel Bridge & Oakwood Canal), Jefferson Parish, LA*
- *Orleans Village Subdivision Drainage Improvements, Jefferson Parish, LA*
- *Westgate Subdivision Subsurface Drainage Improvements, Jefferson Parish, LA*
- *Kawanee Drive Drainage Improvements, Jefferson Parish, LA*
- *Paillet – Maplewood Drainage Improvements, Jefferson Parish, LA*
- *Hoey's Canal Drainage Improvements (Deckbar Ave to Labarre Rd), Jefferson Parish, LA*
- *25th Street & Adjacent Canal, Gretna, Jefferson Parish, LA*
- *Mason Ditch Drainage Improvements, Jefferson Parish, LA*
- *Breaux Ditch Improvements, East Ames Boulevard – Leo Kenner Parkway, Jefferson Parish, LA*
- *Drainage Improvements to the Canal No. 11 Culvert Crossing West of Duncan Canal, Jefferson Parish, LA*
- *Mazoue Ditch Drainage Improvements (Rose Crest Lane to Darby Lane), Jefferson Parish, LA*
- *Ames Boulevard Drainage Pump Station Warehouse, Jefferson Parish, LA*
- *Improvements to Bayou Segnette Drainage Pump Station No. 1, Jefferson Parish, LA*
- *Cleary Avenue & West Napoleon Lift Station & Force Main, Jefferson Parish, LA*
- *Westwego Drainage Pump Station No. 1, Jefferson Parish, LA*
- *Parish Line Pump Station No. 5, Kenner, Jefferson Parish, LA*
- *Hero Pump Station, Harvey, Jefferson Parish, LA*
- *Fulton Street Pump Station, Jefferson Parish, LA*
- *Westwego Drainage Pump Station 1, Westwego, Jefferson Parish, LA*
- *Goose Bayou Drainage Pump Station, Lafitte, Jefferson Parish, LA*
- *Taft Park Drainage Pump Station, Jefferson Parish, LA*
- *Drainage Pump Station, Veterans North & South, Right-of-Way, 17th Street Canal, Jefferson Parish, LA*
- *Drainage Pump Station, West Esplanade and 17th Street Canals, Jefferson Parish, LA*
- *Bayou Segnette Fronting Protection/New Pump Station, Westwego, Jefferson Parish, LA*
- *Morton & Ingrid Pump Station, Jefferson Parish, LA*

## TEC Professional Services Questionnaire

### KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

**Name & Title:**

**Chad M. Poché, P.E.**  
Executive Vice President

**Project Assignment:**

Engineering Liaison

**Name of Firm with which associated:**

**BFM CORPORATION, LLC**  
Professional Land & Hydrographic Surveying

**Years experience with this Firm:**

5 years (became partial owner of BFM in 2017); 29 years total (1993)

**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:**

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

**Other experience and qualifications relevant to the proposed Project:**

Mr. Poché 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 more than 20 years in South Louisiana, working on traditional and unique geotechnical engineering projects (shallow and deep foundation design, slope stability, pavement design, etc.). Mr. Poché has also provided construction oversight for waste facilities and virtually every type of earthwork related project. He 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 expert witness testimony. 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.

BFM Corporation projects overseen by Mr. Poché would include:

## TEC Professional Services Questionnaire

### Other experience and qualifications relevant to the proposed Project:

*Chad M. Poché, P.E. (continued)*

**Lapalco Boulevard Bridge at Harvey Canal, (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, LA.** BFM Corporation provided extensive surveying services for a topographic survey and right-of-way (R/W) determination for the project. Project elements included setting GPS Static Control (5 permanent control points), traversing a proposed survey line, and land topography surveying. Additional phases include hydrographic topography/bathymetric surveying of the project area, the right-of-way determination, and subsurface utility engineering (SUE). Drone Surveying was utilized throughout the project. A Route Topographic Survey was also included as part of the scope, as was Subsurface Utility Engineering (SUE). (\$478,744 (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)


**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 provided surveying services for this Drainage Evaluation Project (PW 2018-024-DR). 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 (R/W) of Causeway Boulevard to easterly apparent ROW 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 executed a Route Topographic Survey for the project; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The project area (Allo Street) extended from 4th Street to 6th Street. (\$12,855 (fee); 2019)

**Holly Drive Drainage Project, Lewisburg Estates Subdivision, Mandeville, St. Tammany Parish, LA.** BFM provided boundary with topographic surveying of the project site (multiple lots) in the Lewisburg Estates Subdivision for the drainage project. (\$13,392 (fee); 2019)

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>John Philip Thayer</b> Field Operations Supervisor
<b>Project Assignment:</b>
Field Operations Supervisor
<b>Name of Firm with which associated:</b>
 Professional Land & Hydrographic Surveying
<b>Years experience with this Firm:</b>
14 years (joined BFM in 2008); 15 years total (2007)
<b>Education: Degree(s)/Year/Specialization:</b>
B.S., 2007, Physical Education, Trevecca Nazarene University
<b>Active registration: Year first registered/discipline:</b>
<i>Professional Land Surveyor Registration in process, State of Louisiana</i>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Thayer is a Field Operations Supervisor with considerable experience in field surveying services, including ALTA/as-built surveying, construction layout, boundary, topographic, cross-sections, GPS use, and numerous other surveying types.</p> <p><b>West Bank Subsurface Drainage Improvement Project, Phase II, Bellemeade Boulevard to the Violet Canal Discharge, Jefferson Parish, LA.</b> 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)</p> <p><b>Mounes Street Subsurface Drainage (Phase IV, Dickory Avenue to Elmwood Park Boulevard), Jefferson Parish, LA.</b> 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)</p> <p><b>Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA.</b> BFM executed a Route Topographic Survey for the project; the full scope plan &amp; profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The project area (Allo Street) extended from 4th Street to 6th Street. (\$12,855 (fee); 2019)</p>

## TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

*John Philip Thayer (continued)*

**Lapalco Boulevard Bridge at Harvey Canal, (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, LA.** BFM Corporation provided extensive surveying services for a topographic survey and right-of-way (R/W) determination for the project. Project elements included setting GPS Static Control (5 permanent control points), traversing a proposed survey line, and land topography surveying. Additional phases include hydrographic topography/bathymetric surveying of the project area, the right-of-way determination, and subsurface utility engineering (SUE). Drone Surveying was utilized throughout the project. A Route Topographic Survey was also included as part of the scope, as was Subsurface Utility Engineering (SUE). (\$478,744 (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)

**Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, LA.** BFM provided surveying services for this Drainage Evaluation Project (PW 2018-024-DR). 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 (R/W) of Causeway Boulevard to easterly apparent ROW 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)

**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)

**Louisiana Statewide Flood Control Program (Package 1 & 2 Control and Package 3), City of Kenner, LA.** BFM provided topographic surveying services for the project. Typical surveying elements included records research, establishment of baseline, Temporary Benchmarks, and shooting of elevations. BFM provided surveying for the location of improvements and utilities (sewer, water, drainage, storm, etc.), as well as natural elements in the project area. The Louisiana Statewide Flood Control Program uses state funds in the construction of flood control infrastructure to reduce (or eliminate) the incidence of flooding or damages in a specific area. (\$17,688 (fee); 2016)

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Gary J. Lambert, Jr., PLS</b> Registered Professional Land Surveyor
<b>Project Assignment:</b>
Registered Professional Land Surveyor; Project Manager/Drafting Supervisor
<b>Name of Firm with which associated:</b>
 Professional Land & Hydrographic Surveying
<b>Years experience with this Firm:</b>
4 years (joined BFM in 2018); 11 years total
<b>Education: Degree(s)/Year/Specialization:</b>
B.S., 2018, Geomatics, Nicholls State University B.S., 2014, Construction Management, Louisiana State University
<b>Active registration: Year first registered/discipline:</b>
2021, Professional Land Surveyor (Louisiana Lic. No. 5929)
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Lambert provides Project Management and Drafting Oversight for the firm. He has also provided Survey Crew Chief Services since joining BFM and offers a well-rounded experience overview for any project. Mr. Lambert has completed Basic OSHA Training and holds license with the Gulf Coast Safety Council (08SSV, ID429523).</p> <p><b>Lapalco Boulevard Bridge at Harvey Canal, (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, LA.</b> BFM Corporation provided extensive surveying services for a topographic survey and right-of-way (R/W) determination for the project. Project elements included setting GPS Static Control (5 permanent control points), traversing a proposed survey line, and land topography surveying. Additional phases include hydrographic topography/bathymetric surveying of the project area, the right-of-way determination, and subsurface utility engineering (SUE). Drone Surveying was utilized throughout the project. A Route Topographic Survey was also included as part of the scope, as was Subsurface Utility Engineering (SUE). (\$478,744 (fee); 2020)</p> <p><b>Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA.</b> BFM executed a Route Topographic Survey for the project; the full scope plan &amp; profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The project area (Allo Street) extended from 4th Street to 6th Street. (\$12,855 (fee); 2019)</p>

## TEC Professional Services Questionnaire

### Other experience and qualifications relevant to the proposed Project:

*Gary J. Lambert, Jr., PLS (continued)*

**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)


**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 provided surveying services for this Drainage Evaluation Project (PW 2018-024-DR). 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 (R/W) of Causeway Boulevard to easterly apparent ROW 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)

**West Causeway Approach Bike Path Drainage Study, City of Mandeville, St. Tammany Parish, LA.** BFM executed a Route Topographic Survey for the project area. Scope included establishing a baseline parallel to the street; establishing temporary benchmarks (TBMs) along the project baseline; locating existing improvements with the designated Limits of Survey; locating existing above-ground and underground utilities. BFM also researched available location data from controlling agencies. Cross sections were taken on a 100 ft. grid within the Limits of Survey. BFM also provided surveying services to provide a Drainage Area Map for the project. The scope of services included establishing Vertical Control and the location of existing drainage structures. (\$16,720 (fee); 2018)

**Revere Road W-3 Drainage Survey, St. Tammany Parish, LA.** BFM provided surveying services to the St. Tammany Parish Government (Survey Services Contract No. 16-104) for this Drainage Survey project on Revere Road. The scope of services included a boundary survey with notation of improvements. Extensive records research was a precursor to the execution of the field survey. BFM also provided cross sections of Bayou De Zaire and of the drainage feature with notation of natural ground features, improvements, encroachments, and easements/servitudes. Upon completion, BFM provided AutoCAD maps and parcel property descriptions to the Parish. (\$18,960 (fee); 2020)

## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
<b>Name &amp; Title:</b>
<p><b>Christopher Lemley</b> Quality Control Supervisor</p>
<b>Project Assignment:</b>
<p>Quality Control Supervisor</p>
<b>Name of Firm with which associated:</b>

<b>Years experience with this Firm:</b>
<p>8 years (joined BFM in 2014); 16 years total (2006)</p>
<b>Education: Degree(s)/Year/Specialization:</b>
<p><i>High School Diploma</i></p>
<b>Active registration: Year first registered/discipline:</b>
<p>N/A</p>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Lemley serves as BFM's Quality Control Supervisor, overseeing all work and activity by the firm's personnel to be sure all is kept up to our exacting standards. 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.</p> <p><b>Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, LA.</b> BFM provided surveying services for this Drainage Evaluation Project (PW 2018-024-DR). 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 (R/W) of Causeway Boulevard to easterly apparent ROW 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)</p> <p><b>Drainage Improvements, Metairie Lawn to Labarre Drive, Jefferson Parish, LA.</b> BFM provided Surveying Services for this project located in Bayou Metairie Park. (\$9,740 (fee); 2016)</p> <p><b>Mounes Subsurface Drainage – Phase I, Jefferson Parish, LA.</b> BFM provided topographic surveying services for Phase I of the project, which extended from Dickory to Elmwood Park Boulevard). (\$26,240 (fee); 2017)</p>

## TEC Professional Services Questionnaire

### KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

**Name & Title:**

**Thomas O. Wright**  
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:**

14 years (joined BFM in 2008); 45 years total (1977)

**Education: Degree(s)/Year/Specialization:**

*High School Diploma*

**Active registration: Year first registered/discipline:**

*American Traffic Safety Service Assn. – Traffic Flagger/Control Technician/Control Supervisor  
Basic OSHA Training - Completed  
Transportation Work Identification Card (TWIC)*

**Other experience and qualifications relevant to the proposed Project:**

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

**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. 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)

**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)

**Coventry Drainage Pump Stations, Jefferson Parish, LA.** BFM provided a Route Topographic Survey with Hydrographic Survey for the project. The limits of survey extended from r/w to r/w along Jefferson Highway. 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). Drone Surveying was a key element of the project. The hydrographic survey extended 500 feet into the river from the water's edge. (\$89,780 (fee); 2020)

## 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:**

32 years (joined BFM in 1990); 32 years total (1990)

**Education: Degree(s)/Year/Specialization:**

*High School Diploma*

**Active registration: Year first registered/discipline:**

*American Traffic Safety Service Assn. – Traffic Flagger  
Transportation Work Identification Card (TWIC)*

**Other experience and qualifications relevant to the proposed Project:**

Mr. Barrios' surveying experience includes boundary, hydrographic, and topographic. He has worked on location and performed topographic surveys for a number of major projects.


**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)


**Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA.** BFM executed a Route Topographic Survey for the project; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The project area (Allo Street) extended from 4th Street to 6th Street. (\$12,855 (fee); 2019)

**Woodland West Subdivision Drainage Improvements, Marrero, LA.** BFM provided a topographic survey for the design of drainage improvement. (\$8,900 (fee); 2006)


## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Eric Gladney</b> Survey Crew Chief
<b>Project Assignment:</b>
Survey Crew Chief
<b>Name of Firm with which associated:</b>
 Professional Land & Hydrographic Surveying
<b>Years experience with this Firm:</b>
8 years (joined BFM in 2014); 21 years total (2001)
<b>Education: Degree(s)/Year/Specialization:</b>
<i>High School Diploma</i>
<b>Active registration: Year first registered/discipline:</b>
<i>American Traffic Safety Service Assn. – Traffic Flagger</i> <i>Norfolk Southern Roadway Worker Protection Contractor Safety Cert.</i> <i>Transportation Work Identification Card (TWIC)</i>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p><b>Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA.</b> BFM executed a Route Topographic Survey for the project; the full scope plan &amp; profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The project area (Allo Street) extended from 4th Street to 6th Street. (\$12,855 (fee); 2019)</p> <p><b>Mounes Street Subsurface Drainage (Phase IV, Dickory Avenue to Elmwood Park Boulevard), Jefferson Parish, LA.</b> 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)</p> <p><b>Drainage Improvements, Metairie Lawn to Labarre Drive, Jefferson Parish, LA.</b> BFM provided Surveying Services for this project located in Bayou Metairie Park. (\$9,740 (fee); 2016)</p> <p><b>25th Street &amp; Adjacent Canal, Gretna, Jefferson Parish, LA.</b> BFM provided cross section surveying and a limited drainage survey for the project. (\$2,925 (fee); 2017)</p>

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<p><b>Jeff Patin</b> Survey Crew Chief</p>
<b>Project Assignment:</b>
<p>Survey Crew Chief</p>
<b>Name of Firm with which associated:</b>

<b>Years experience with this Firm:</b>
<p>3 years (joined BFM in 2019); 23 years total (1999)</p>
<b>Education: Degree(s)/Year/Specialization:</b>
<p><i>High School Diploma</i></p>
<b>Active registration: Year first registered/discipline:</b>
<p><i>Transportation Work Identification Card (TWIC)</i></p>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Patin has worked as a Survey Crew Chief and Instrumentman for 20 years for a number of southeastern Louisiana surveying firms on projects throughout the region. His work history includes supervision of field crew personnel, operation of various survey equipment (Topcon GPT, Leica GPS, Total Station, etc.), calculations, information collection, and any &amp; all work required to execute the survey and obtain the information needed. Mr. Patin has worked on projects for various public &amp; private clients, and has performed field work under the direction of the Corps of Engineers.</p> <p><b>Coventry Drainage Pump Stations, Jefferson Parish, LA.</b> BFM provided a Route Topographic Survey with Hydrographic Survey for the project, located in River Ridge, Louisiana. The limits of survey extended from r/w to r/w along Jefferson Highway. 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). Drone Surveying was a key element of the project. The hydrographic survey extended 500 feet into the river from the water's edge. (\$89,780 (fee); 2020)</p> <p><b>Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, LA.</b> BFM provided surveying services for this Drainage Evaluation Project (PW 2018-024-DR). 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 (R/W) of Causeway Boulevard to easterly apparent ROW 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)</p>

## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
<b>Name &amp; Title:</b>
<p><b>Anthony Watson</b> CADD Technician</p>
<b>Project Assignment:</b>
<p>CADD Technician</p>
<b>Name of Firm with which associated:</b>

<b>Years experience with this Firm:</b>
<p>11 years (joined BFM in 2011); 31 years total (1992)</p>
<b>Education: Degree(s)/Year/Specialization:</b>
<p><i>Coursework - CAD, Avatech Solutions, Los Colinas, TX</i></p>
<b>Active registration: Year first registered/discipline:</b>
<p>NA</p>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Watson has experience as a draftsman/CADD technician, having started his career as an intern with the Surveying Department of the City of Plano, TX. 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 &amp; profile, etc.) in both drafting and field environments.</p> <p><b>Mounes Street Subsurface Drainage (Phase IV, Dickory Avenue to Elmwood Park Boulevard), Jefferson Parish, LA.</b> 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)</p> <p><b>Bissonet Plaza Drainage Improvements (Phase 1), Metairie, Jefferson Parish, LA.</b> 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)</p>

## TEC Professional Services Questionnaire

### KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

**Name & Title:**

**Shaun Clements**  
CADD Technician

**Project Assignment:**

CADD Technician

**Name of Firm with which associated:**

**BFM CORPORATION, LLC**  
Professional Land & Hydrographic Surveying

**Years experience with this Firm:**

4 years (joined BFM in 2018); 7 years total (2015)

**Education: Degree(s)/Year/Specialization:**

Associates of Applied Sciences, 2015, Computer Drafting and Design (ITT)

**Active registration: Year first registered/discipline:**

NA


**Other experience and qualifications relevant to the proposed Project:**

**Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, LA.** BFM provided surveying services for this Drainage Evaluation Project (PW 2018-024-DR). 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 (R/W) of Causeway Boulevard to easterly apparent ROW 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 executed a Route Topographic Survey for the project; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The project area (Allo Street) extended from 4th Street to 6th Street. (\$12,855 (fee); 2019)

**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)

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Kevin A. Roberts</b> CADD Technician
<b>Project Assignment:</b>
CADD Technician
<b>Name of Firm with which associated:</b>
 Professional Land & Hydrographic Surveying
<b>Years experience with this Firm:</b>
4 years (joined BFM in 2018); 37 years total (1985)
<b>Education: Degree(s)/Year/Specialization:</b>
A.D., 1999, Drafting & Design, Louisiana Technical College <i>Coursework, 1994-1997, Nunez Community College</i> <i>Coursework, 1984-1988, Delgado Community College</i> <i>Coursework, 1982-1983, University of New Orleans</i>
<b>Active registration: Year first registered/discipline:</b>
NA
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Roberts has experience with civil engineering, offshore engineering, water purification systems, and general architectural and construction design &amp; terminology. He obtained his A.D. in Drafting in 1999, and has taken additional coursework throughout his career.</p> <p><b>Orange Lane Pump Station Project, Grand Isle, Jefferson Parish, LA.</b> The project consists of a new storm water pumping station on the intersection of Orange Lane at Orleans Avenue in Grand Isle, Louisiana. The scope of services includes obtaining topographical survey information and the preparation of a drainage map for the project. Phase 1 of the project involved the topographic and right of way surveying services; BFM conducted a site topographic survey at the proposed lift station site and provided boundary surveying to determine rights of way. Phase 2 of the project established the Drainage Map. BFM located all drainage structures within the Limits of Survey; this included ditches, culverts, drain inlets, and catch basins. A drone survey was executed to gather a 25 ft elevation grid throughout the project area. (\$32,280 (fee); 2020)</p> <p><b>Holly Drive Drainage Project, Lewisburg Estates Subdivision, Mandeville, St. Tammany Parish, LA.</b> BFM provided boundary with topographic surveying of the project site (multiple lots) in the Lewisburg Estates Subdivision for the drainage project. (\$13,392 (fee); 2019)</p>

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Dawn Hoffman</b> Researcher/Archivist
<b>Project Assignment:</b>
Researcher/Archivist
<b>Name of Firm with which associated:</b>
 Professional Land & Hydrographic Surveying
<b>Years experience with this Firm:</b>
13 years (joined BFM in 2009); 25 years total (1997)
<b>Education: Degree(s)/Year/Specialization:</b>
A.D., 1999, Computer-Aided Drafting, Southeast College of Technology Certificate, 2003, Introduction to ArcGIS, Louisiana State University
<b>Active registration: Year first registered/discipline:</b>
NA
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p><b>West Bank Subsurface Drainage Improvement Project, Phase II, Bellemeade Boulevard to the Violet Canal Discharge, Jefferson Parish, LA.</b> 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)</p> <p><b>Bissonet Plaza Drainage Improvements (Phase 1), Metairie, Jefferson Parish, LA.</b> 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)</p> <p><b>Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA.</b> BFM executed a Route Topographic Survey for the project; the full scope plan &amp; profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The project area (Allo Street) extended from 4th Street to 6th Street. (\$12,855 (fee); 2019)</p>

## TEC Professional Services Questionnaire

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

### PROJECT NO. 1

Project Name, Location, and Owner's Contact Information:		Nature of Firm's Responsibility:	
<b>Orange Lane Drainage Pump Station Project (Drainage Mapping)</b> , Grand Isle, Jefferson Parish, Louisiana  <b>AIMS Group, Inc.</b> 4421 Zenith Street Metairie LA 70001  <b>Lowell Pitre, P.E.</b> , 504-887-7045 ljp@aimsgroupinc.com		The project consists of a new storm water pumping station on the intersection of Orange Lane at Orleans Avenue. The scope 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.	
Completion Date (Actual or estimated):		Estimated Cost:	
		Entire Project:	Work for which Firm was Responsible:
2020 August		N/A	\$32,280 (fee)

### PROJECT NO. 2

Project Name, Location, and Owner's Contact Information:		Nature of Firm's Responsibility:	
<b>Lapalco Boulevard Bridge at Harvey Canal</b> , (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, Louisiana  <b>Hardesty &amp; Hanover</b> 3850 N Causeway Blvd Ste 1850 Metairie LA 70002  <b>Babak Naghavi</b> , 504-962-9212 bnaghavi@hardestyhanover.com		BFM Corporation provided extensive surveying services for a topographic survey and right-of-way (R/W) determination for the project. Project elements included setting GPS Static Control (5 permanent control points), traversing a proposed survey line, and land topography surveying. Additional phases include hydrographic topography/bathymetric surveying of the project area, the right-of-way determination, and subsurface utility engineering (SUE). Drone Surveying was utilized throughout the project. A Route Topographic Survey was also included as part of the scope, as was Subsurface Utility Engineering (SUE).	
Completion Date (Actual or estimated):		Estimated Cost:	
		Entire Project:	Work for which Firm was Responsible:
2020 September		N/A	\$478,744 (fee)

## TEC Professional Services Questionnaire

<b>PROJECT NO. 3</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Metairie Road Drainage Evaluation,</b> Metairie, Jefferson Parish, Louisiana  <b>GEC, Inc.</b> 3445 N Causeway Blvd Ste 401 Metairie LA 70002-3779  <b>Jerome Lohmann</b> , 504-207-6926 jlohmann@gecinc.com	BFM provided surveying services for this Drainage Evaluation Project (PW 2018-024-DR). 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 (R/W) 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.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2020 May	N/A	\$18,350 (fee)

<b>PROJECT NO. 4</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Bissonet Plaza Drainage Improvements (Phase 1, Elmwood Parkway and Craig Avenue),</b> Metairie, Jefferson Parish, Louisiana  <b>Meyer Engineers Ltd.</b> 4937 Hearst St. Ste. B Metairie LA 70001  <b>Ana Theriot, P.E.</b> , 504-885-9892	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.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2020 Marc	h	\$7,980 (fee)

## TEC Professional Services Questionnaire

<b>PROJECT NO. 5</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Coventry Drainage Pump Stations,</b> Jefferson Parish, Louisiana  <b>ECM Consultants, Inc.</b> 1301 Clearview Pkwy Ste 200 Metairie LA 70001  <b>Sunina Shrestha, 504-885-4080</b> SShrestha@ecmconsultants.com	BFM provided a Route Topographic Survey with Hydrographic Survey for the project, located in River Ridge, Louisiana. The limits of survey extended from r/w to r/w along Jefferson Highway. 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). Drone Surveying was a key element of the project. The hydrographic survey extended 500 feet into the river from the water's edge.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2020	N/A	\$89,780 (fee)
<b>PROJECT NO. 6</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Avenue D Drainage Improvements (Phase VIII: Allo Street),</b> Metairie, Jefferson Parish, Louisiana  <b>Hartman Engineering, Inc.</b> 16563 Airline Hwy Ste A&B Prairieville LA 70769  <b>Jared Monceaux, P.E., 225-313-4617</b> jmonceaux@harteng.com	BFM executed a Route Topographic Survey for the project; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The project area (Allo Street) extended from 4th Street to 6th Street.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2019 April	N/A	\$12,855 (fee)

## TEC Professional Services Questionnaire

<b>PROJECT NO. 7</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Mounes Street Subsurface Drainage (Phase IV, Dickory Avenue to Elmwood Park Boulevard),</b> Jefferson Parish, Louisiana  <b>APTIM</b> 2424 Edenborn Avenue Suite 450 Metairie LA 70001  <b>Gene S. Gillen, P.E.,</b> 504-832-4881 info@aptim.com	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.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2017 December	N/A	\$23,540 (fee)

<b>PROJECT NO. 8</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Waggaman Canal Relocation Survey (Jefferson Parish Landfill Sites),</b> Jefferson Parish, Louisiana  <b>CDMSmith</b> 1515 Poydras St Ste 1000 New Orleans LA 70112  <b>Jenny Bywater, P.E.,</b> 504-799-1168 bywaterje@cdmsmith.com	BFM Corporation was contracted to provide boundary, right-of-way, and topographic surveying services for the project site. Location of improvements were plotted within the designated limits of the survey; this included buildings, fences, light standards, traffic control devices, signage, structures, pavement, and other topographic features. Existing storm sewer and sanitary sewers were located using top of casing; invert elevations were provided on the survey.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2016 February	N/A	\$19,940 (fee)

## TEC Professional Services Questionnaire

<b>PROJECT NO. 9</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Mounes Subsurface Drainage – Phase I,</b> Jefferson Parish, Louisiana  <b>CB&amp;I</b> 2424 Edenborn Avenue Suite 450 Metairie LA 70001  <b>Gene S. Gillen, P.E.,</b> 504-832-4881 gene.gillen@cbi.com	BFM provided all requested topographic surveying services for Phase I of the Mounes Subsurface Drainage project, which extended from Dickory to Elmwood Park Boulevard).	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2017 April	N/A	\$26,240 (fee)

<b>PROJECT NO. 10</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>North Arnoult Drainage Pump Station Improvements,</b> Jefferson Parish, Louisiana  <b>Hartman Engineering, Inc.</b> 527 W. Esplanade Ave Suite 300 Kenner LA 70065  <b>Rolland A. Mura,</b> 504-466-5667	BFM's project services included both boundary and topographic surveying of the project site.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2019 May	N/A	\$6,870 (fee)

## TEC Professional Services Questionnaire

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

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

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

# BFM CORPORATION, LLC

Professional Land & Hydrographic Surveying

### CRITERIA 1 • PROFESSIONAL TRAINING AND RELEVANT PROJECT EXPERIENCE

Established in 1982, **BFM Corporation, LLC, Professional Land & Hydrographic Surveying**, has provided services to public & private concerns throughout Louisiana and the Gulf South. The firm provides surveying services covering all facets of engineering, construction, and forensics; topographic, hydrographic, and high definition laser scanning.

**BFM 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 and LiDAR**
- **Bathymetric / Hydrographic Surveys**
- **Property, Boundary, and Right-of-Way Surveys**

## 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:	
<b>Bissonet Plaza Drainage Improvements (Phase 1, Elmwood Parkway and Craig Avenue)</b> , Metairie, Jefferson Parish, Louisiana  <b>Meyer Engineers Ltd.</b> 4937 Hearst St. Ste. B Metairie LA 70001  <b>Ana Theriot, P.E.</b> , 504-885-9892		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.	
Completion Date (Actual or estimated):		Estimated Cost:	
		Entire Project:	Work for which Firm was Responsible:
2020 March		N/A	\$7,980 (fee)

### PROJECT NO. 2

Project Name, Location, and Owner's Contact Information:		Nature of Firm's Responsibility:	
<b>Lapalco Boulevard Bridge at Harvey Canal</b> , (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, Louisiana  <b>Hardesty &amp; Hanover</b> 3850 N Causeway Blvd Ste 1850 Metairie LA 70002  <b>Babak Naghavi</b> , 504-962-9212 bnaghavi@hardestyhanover.com		BFM Corporation provided extensive surveying services for a topographic survey and right-of-way (R/W) determination for the project. Project elements included setting GPS Static Control (5 permanent control points), traversing a proposed survey line, and land topography surveying. Additional phases include hydrographic topography/bathymetric surveying of the project area, the right-of-way determination, and subsurface utility engineering (SUE). Drone Surveying was utilized throughout the project. A Route Topographic Survey was also included as part of the scope, as was Subsurface Utility Engineering (SUE).	
Completion Date (Actual or estimated):		Estimated Cost:	
		Entire Project:	Work for which Firm was Responsible:
2020 September		N/A	\$478,744 (fee)

## TEC Professional Services Questionnaire

N. continued.

- **Maps, Cross-Sections, and Data Sets**
- **3D Laser Scanning**
- **Benchmarks**
- **Construction-Related Surveying**
- **Builder's Package Surveys**
- **American Land Title Association (ALTA) Surveys**

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

Our **Survey Field Crews** are equipped with Leica 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 in that time (with a flight ceiling of 165 feet, pixel quality is 0.71 CM). This allows BFM to quickly & accurately capture data and facilitates quicker field work to produce highly accurate and precise surveying information. Deliverables feature Clean Point Cloud, 3D Mesh, Orthomosaic, and AutoCAD DWG Topographic.

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

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

**Please refer to the projects presented in Item L of this form as well as our personnel bios for an overview of relevant project work executed by BFM Corporation.**

## TEC Professional Services Questionnaire

N. continued.

### CRITERIA 2 • CAPACITY FOR TIMELY COMPLETION OF NEWLY-ASSIGNED WORK

BFM Corporation has the manpower and equipment to execute any surveying task within the reasonable time set forth by the contract or project engineer. It is our continual 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**, 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.

BFM's **Chad M. Poché, P.E.** 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 throughout his career.

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 3 • LOCATION OF 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.

### CRITERIA 4 • ADVERSARIAL LEGAL PROCEEDINGS WITH PARISH

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 5 • PRIOR SUCCESSFUL COMPLETION OF PROJECTS

For nearly 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 Department (504-736-6783 | JPPW@jeffparish.net)

## TEC Professional Services Questionnaire

**N. continued.**

- **Angela DeSoto, P.E.**, Director of Engineering, Jefferson Parish (504-736-6511 | ADeSoto@jeffparish.net)
- **Sid Trouard, P.E.**, Program Manager, Jefferson Parish Sewerage Capital Improvement Program (504-736-6386 | STrouard@jeffparish.net)
- **Tom Schreiner**, Deputy CAO, Public Works & Capital Projects, City of Kenner (504-468-7515 | tschreiner@kenner.la.us)
- **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.

### CRITERIA 6 • 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**.

### CRITERIA 7 • PAST PERFORMANCE ON PARISH CONTRACTS

BFM 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 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 nearly 40 years with BFM. He has provided professional surveying services for **thousands of projects for and throughout Jefferson Parish**. Additional information beyond the scope of this RFQ response is available upon request.

**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: \_\_\_\_\_

**March 10, 2022**

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

Name:	Public Address:
BFM Corporation, LLC	15 Veterans Memorial Boulevard Kenner, Louisiana 70062

**License/Certificate Information w/ Supervision**

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
VF.0000008	Active	09/11/1984	09/30/2023	Mr. Ralph P. Fontcuberta Jr. # PLS.0004329 - 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	Expiration Date
PLS.0004329	09/30/2022

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	09/30/2022

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	03/31/2023

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

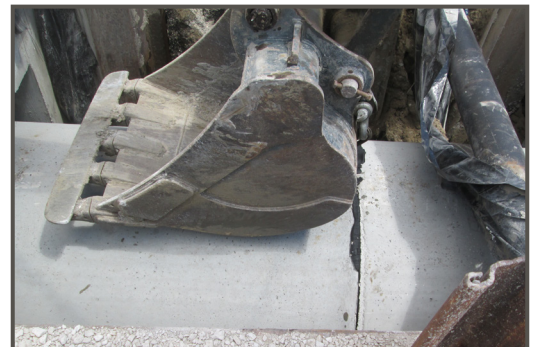
is Certified-Active as a Small Entrepreneurship with  
Louisiana Economic Development's Hudson Initiative.

This certification is valid from 9/28/2021 to 9/28/2022 .

Certification No. 9551

Stephanie Hartman,  
Director, Small Business Services

## Gulf South Engineering and Testing, INC TEC Questionnaire



## TEC Professional Services Questionnaire

**A. Project Name and Advertisement Resolution Number:**

### Routine Engineering Services for Drainage Projects

**SOQ 22-011 | Resolution No. 138895**

**B. Firm Name & Address:**



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

15 Veterans Memorial Boulevard

Kenner LA 70062

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

**Chad M. Poché, P.E., Principal/Vice President**

telephone 504-305-4401 • cpoche@gulfsoutheng.com

Registered Professional Civil Engineer, Louisiana No. 27667 (1998)

**D. Name, title, & 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., Principal/Vice President**

telephone 504-305-4401 • cpoche@gulfsoutheng.com

Registered Professional Civil Engineer, Louisiana No. 27667 (1998)

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

6	Administrative	-	Estimators	-	Specification Writers
-	Architects (Licensed)	-	Geologists	-	Structural Engineers
-	Chemical Engineers	2	Geotechnical Engineers	1	Graduate Engineers
-	Civil Engineers	-	Interior Designers	-	Project Managers
10	Construction Inspectors	-	Landscape Architects	-	Clerical ( <i>see Administrative</i> )
-	Ecologists	-	Land Surveyor ( <i>*see PLS</i> )	-	Grant/Funding Specialist
-	Electrical Engineers	-	Mechanical Engineers	-	Sanitary Engineers
-	Engineer Intern	-	Environmental Engineers	1	Construction Managers
1	Professional Land Surveyors			1	Laboratory Managers

\*employee count also include two CMT Supervisors, 1 Senior Engineering Technician, 1 Field Engineer, 3 Laboratory Technicians, 1 Soil Boring Driller, and one Soil Boring Driller Apprentice

**32\* 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 a 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 Prime 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 this Project:**

**32 (all personnel will be available to the project; individuals to be assigned)**

## 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 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.**  
Vice-President

**Project Assignment:**

Engineering Manager; Geotechnical Engineer

**Name of Firm with which associated:**



**Years experience with this Firm:**

11 years with this firm (2011); 29 years total (1993)

**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:**

Mr. Poché is the Vice President, co-founder, and partner in Gulf South. He has been a consulting geotechnical engineer for more than 20 years in South Louisiana, working on traditional and unique geotechnical engineering projects (shallow and deep foundation design, slope stability, pavement design, etc.). Mr. Poché has also provided construction oversight for waste facilities and virtually every type of earthwork related project. He 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 expert witness testimony. Mr. Poché has logged soil borings; overseen the installation of ground water monitoring wells, piezometers, and inclinometers; overseen and evaluated pile load tests; overseen, performed, and evaluated dynamic pile testing (PDA and PIT); performed CMT field testing and inspection; and performed laboratory testing.

## TEC Professional Services Questionnaire

### Other experience and qualifications relevant to the proposed Project:

*Chad M. Poché, P.E. (continued)*

**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)

**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)

**Trudeau Drive Drainage Improvements at West Metairie Canal, Metairie, Jefferson Parish, LA.**

Geotechnical investigation for new drainage improvements along Trudeau Drive at W. Metairie Blvd. in Metairie, LA. The improvements will consist of replacing existing box culverts within W. Metairie Canal with double barrel 7 ft. x 11 ft. culverts, approximately 300 linear feet. Gulf South's scope includes drilling two soil borings each to a depth of 50 feet, lab testing, and geotechnical engineering analysis consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, slope stability analysis, rigid and/or flexible pavement design recommendations, and general construction recommendations. (\$8,000 (fee); 2015)

**David Dr. Drainage Improvements (W. Esplanade Avenue to Bruin Drive), Jefferson Parish, LA.**

Geotechnical investigation for the reconstruction of David Drive and the construction of drainage improvements (approx. 3000 ft.) along David Drive from W. Esplanade Avenue to Bruin Drive in Metairie. Gulf South's scope includes drilling four soil borings each to a depth of 20 feet, lab testing, and geotechnical engineering analysis including allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, pavement design recommendations, and general construction recommendations. (\$7,500 (fee); 2015)


**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)

**Westgate Drainage Improvements, Metairie, Jefferson Parish, LA.**

Gulf South performed field and laboratory testing during construction of various drainage improvements. Scope included earthwork testing & inspection and concrete testing & inspection. (\$8,000 (fee); 2018)

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Blake E. Vutera, P.E.</b> Engineering Manager
<b>Project Assignment:</b>
Geotechnical Engineer
<b>Name of Firm with which associated:</b>
 <b>ENGINEERING AND TESTING, INC.</b> Geotechnical & Materials Consultants
<b>Years experience with this Firm:</b>
10 years with this firm (2012); 16 years total (2006)
<b>Education: Degree(s)/Year/Specialization:</b>
M.S., 2018, Civil Engineering, University of New Orleans Certification - Coastal Engineering, 2018, University of New Orleans B.S., 2008, Civil Engineering, Louisiana State University
<b>Active registration: Year first registered/discipline:</b>
2013, Civil Engineer, Louisiana, No. 38607 2018, Professional Engineer, Texas No. 129410
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Vutera serves as Gulf South's Engineering Manager and is based in Gulf South's Kenner, LA office. His experience with the firm includes daily work on geotechnical engineering projects as well as managing all geotechnical investigations and providing assistance with laboratory testing and construction materials testing and inspection. Engineering analyses that Mr. Vutera routinely performs include: shallow and deep foundations, slope stability analyses, settlement estimates, and pavement design. He is responsible for engineering design, report preparation, proposal preparation, personnel management, project management, and client interaction.</p> <p>Mr. Vutera's field work consists of borehole logging; 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); pavement coring; nuclear field density tests; and hand augers. Mr. Vutera has been the geotechnical engineer of record for hundreds of projects throughout his career.</p> <p><b>Metairie Lawn and Ridgelake Drive Roadway &amp; Utility Project, Metairie, Jefferson Parish, LA.</b>          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)</p>

## TEC Professional Services Questionnaire

### Other experience and qualifications relevant to the proposed Project:

*Blake E. Vutera, P.E. (continued)*

**Trudeau Drive Drainage Improvements at West Metairie Canal, Metairie, Jefferson Parish, LA.** Geotechnical investigation for new drainage improvements along Trudeau Drive at W. Metairie Boulevard. The improvements will consist of replacing existing box culverts within W. Metairie Canal with double barrel culverts, approximately 300 linear feet. Scope includes drilling two soil borings each to a depth of 50 ft, lab testing, and geotechnical engineering analysis consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, slope stability analysis, rigid and/or flexible pavement design recommendations, and general construction recommendations. (\$8,000 (fee); 2015)

**Verrett Canal Slope Instability Project, West Bank Drainage Department, Harvey, Jefferson Parish, LA.** 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. (\$5,000 (fee); 2020)

**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)


**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 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)

**France Road - North Paving and Drainage Improvements, WO 1-168, Port of New Orleans, LA.** Geotechnical investigation for proposed pavement overlay/reconstruction of 1.5 miles of France Road in New Orleans. Scope includes drilling 16 soil borings each to a depth of 4 feet below the existing pavement surface, lab testing, and engineering analyses including flexible pavement design recommendation (overlay & reconstruction) and general construction procedures and recommendations. (\$14,250 (fee); 2016)

**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)

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>	
<b>Name &amp; Title:</b>	
<b>Joseph H. “Trey” Binder, III</b> Laboratory Manager	
<b>Project Assignment:</b>	
Laboratory Manager; Laboratory Technician	
<b>Name of Firm with which associated:</b>	
<div style="display: flex; align-items: center;">  <div> <b>ENGINEERING AND TESTING, INC.</b>              Geotechnical &amp; Materials Consultants           </div> </div>	
<b>Years experience with this Firm:</b>	
11 years with this firm (2011); 16 years total (2006)	
<b>Education: Degree(s)/Year/Specialization:</b>	
A.D., 2011, General Studies, Nunez Community College	
<b>Active registration: Year first registered/discipline:</b>	
N/A	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<div style="display: flex;"> <div style="flex: 1;"> <p>Mr. Binder has direct experience with field and laboratory testing services, and is NICET certified in multiple disciplines, including Construction Materials Testing Soils, Geotechnical Engineering Technologies Exploration, and Geotechnical Engineering Technologies Laboratory (Level I). Mr. Binder has HAZMAT Awareness and Operations Training.</p> <p>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><b>Taft Park Drainage Improvements, Jefferson Parish, LA.</b> 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)</p> <p><b>Citrus Road and Greg Court Subsurface Drainage Improvements, Jefferson Parish, LA.</b> 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)</p> </div> <div style="flex: 0.5; border: 1px solid black; padding: 5px; margin-left: 10px;"> <ul style="list-style-type: none"> <li>HAZMAT Awareness</li> <li>HAZMAT Operations Training</li> <li>ACI Aggregate Base Testing Technician</li> </ul> </div> </div>	

## TEC Professional Services Questionnaire

### Other experience and qualifications relevant to the proposed Project:

*Joseph H. Binder, III (continued)*

**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)

**France Road - North Paving and Drainage Improvements, WO 1-168, Port of New Orleans, LA.** Geotechnical investigation for proposed pavement overlay/reconstruction of 1.5 miles of roadway (France Rd.) in New Orleans, LA. Gulf South's scope includes drilling 16 soil borings each to a depth of 4 feet below the existing pavement surface, lab testing, and engineering analyses including flexible pavement design recommendation (overlay & reconstruction) and general construction procedures and recommendations. (\$14,250 (fee); 2016)


**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)

**Westgate Drainage Improvements, Metairie, Jefferson Parish, LA.** Gulf South performed field and laboratory testing during construction of various drainage improvements. Scope included earthwork testing & inspection and concrete testing & inspection. (\$8,000 (fee); 2018)

**Drainage Upgrades and Green Infrastructure Improvements, Hagan Avenue & Lafitte Avenue, City of New Orleans, LA.** Geotechnical investigation for new drainage upgrades and green infrastructure improvements between Hagan & Lafitte Avenues (to Orleans Avenue and Broad Street) in New Orleans, LA. Gulf South's scope includes drilling 13 soil borings with five borings to a depth of 30 feet and eight to a depth of 20 feet below existing paved/ground surface, laboratory testing, and engineering analyses for net allowable soil bearing values, estimates of settlement, bedding and backfill recommendations, lateral earth pressures, rigid and/or flexible pavement design recommendations, infiltration/permeability rates of near-surface soils, and general construction procedures and recommendations. Phase 2 includes piezometer well installations. (\$21,799 (fee); 2016)

## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
<b>Name &amp; Title:</b>	
<p><b>Sara E. Lockwood, E.I.</b> Graduate Geotechnical Engineer</p>	
<b>Project Assignment:</b>	
Graduate Geotechnical Engineer/Engineering Intern	
<b>Name of Firm with which associated:</b>	
<div style="display: flex; align-items: center;">  <div> <p><b>ENGINEERING AND TESTING, INC.</b> Geotechnical &amp; Materials Consultants</p> </div> </div>	
<b>Years experience with this Firm:</b>	
3 years with this firm (2019); 5 years total (2017)	
<b>Education: Degree(s)/Year/Specialization:</b>	
<p>B.S., 2019, Civil Engineering, University of New Orleans B.S., 2016, Physics, Loyola University</p>	
<b>Active registration: Year first registered/discipline:</b>	
2020, Engineering Intern, Louisiana, No. EI.0034718	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<div style="display: flex;"> <div style="flex: 1;"> <p>Ms. Lockwood recently joined Gulf South Engineering and Testing and is serving as a Graduate Engineer, providing such duties as project management, geotechnical engineering analyses, and field &amp; laboratory testing &amp; inspection. Her coursework included such disciplines as foundation engineering, soil mechanics, geotechnical engineering, structural concrete &amp; structural steel design, and sustainability principals. She worked as an intern during her college career for a local consulting group, assisting on a variety of environmental studies for infrastructure projects, and preparing regulatory permit applications, as well as preparation of various components of Louisiana DEQ and NEPA documents.</p> <p><b>Metairie Lawn and Ridgelake Drive Roadway &amp; Utility Project, Metairie, Jefferson Parish, LA.</b> 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)</p> <p><b>Roadway and Drainage Infrastructure Improvements (Destrehan Drive and River Oaks Drive), Destrehan, St. Charles Parish, LA.</b> Gulf South provided geotechnical engineering services for drainage improvements at two existing roadways sites within the City of Destrehan. Scope includes drilling six undisturbed soil borings (depths of 10 ft. below the ground surface), laboratory testing, engineering analyses and general construction procedures and recommendations. (\$4,500 (fee); 2021)</p> </div> <div style="flex: 0.5; border: 1px solid black; padding: 5px; margin-left: 10px;"> <ul style="list-style-type: none"> <li>Society of Women Engineers</li> <li>American Society of Civil Engineers</li> </ul> </div> </div>	

## TEC Professional Services Questionnaire

### Other experience and qualifications relevant to the proposed Project:

*Sarah E. Lockwood (continued)*

**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)

**Mississippi River Discharge Pump Station, River Ridge, Jefferson Parish, LA.** Gulf South provided geotechnical engineering services for the construction of a new pump station and force main discharge pipeline between Coventry Court and Lee Court in River Ridge. Scope includes drilling four undisturbed soil borings (one at 100 ft., one at 80 ft., and two at 30 ft.; all below ground surface), laboratory testing, engineering analyses and general construction procedures and recommendations. (\$35,000 (fee); 2020)

**Soniat Canal Stabilization, Harahan, Jefferson Parish, LA.** Geotechnical engineering services for the construction of the stabilization of the east bank of Soniat Canal for approximately 1,700 linear feet in Harahan, LA. Gulf South's scope includes drilling three undisturbed soil borings to depths of 50 feet below the ground surface, laboratory testing, engineering analyses (slope stability analysis) and general construction procedures and recommendations. (\$10,000 (fee); 2020)


**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)

**Upper Barataria Risk Reduction Project, Lafourche Basin Levee District (LBLD), Lafourche Parish, LA.** Geotechnical investigation for a flood protection project in Lafourche Parish, LA. Project consists of a new earthen levee (totaling approx. 8.8 to 9 miles or 47,000 lf) and control structure. Gulf South's scope includes drilling three undisturbed soil borings to depths of 60 feet (1 boring in canal and 1 boring on land), 200 feet (1 boring in shallow water) and performing five CPT probes to 60 feet below apparent mud line, lab testing (with 1-D Consoles), and engineering analyses including site/soil characterization, slope stability analyses, unbalance forces for structures, allowable pile load capacities, estimates of settlement, and general construction recommendations. (\$100,000 (fee); 2020)

**Proposed Roads and Ponds, Cane Ridge Subdivision, Addis, West Baton Rouge Parish, LA.** Geotechnical engineering services for the construction of a new paved roads and a pond area for a future residential development off S. Vaughan Dr. in Addis, LA. Gulf South's scope includes drilling four undisturbed soil borings (depths of 8 feet & 20 feet below ground surface), laboratory testing, engineering analyses and general construction procedures and recommendations. (\$4,000 (fee); 2019)

**New Orleans Streets Program (RR 001), Audubon Group A, City of New Orleans, LA.** Gulf South provided construction materials testing and inspection during construction of RR 001, Audubon Group A project. Scope includes soil density tests, concrete inspection and testing, vibration monitoring, and earthwork testing. (\$49,803 (fee); ongoing)

## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
<b>Name &amp; Title:</b>	
<p><b>Christopher Boutwell</b> Construction Materials Testing (CMT) Supervisor</p>	
<b>Project Assignment:</b>	
Construction Materials Testing (CMT) Supervisor	
<b>Name of Firm with which associated:</b>	
<div style="display: flex; align-items: center;">  <div> <p><b>ENGINEERING AND TESTING, INC.</b> Geotechnical &amp; Materials Consultants</p> </div> </div>	
<b>Years experience with this Firm:</b>	
10 years with this firm (2012); 13 years total (2009)	
<b>Education: Degree(s)/Year/Specialization:</b>	
<i>High School Diploma</i>	
<b>Active registration: Year first registered/discipline:</b>	
N/A	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<div style="display: flex;"> <div style="flex: 1;"> <p>Mr. Boutwell serves as a CMT Supervisor in Gulf South's Kenner, LA office. As a CMT Supervisor, Mr. Boutwell is responsible for scheduling technicians, technical training, resolving technical and personnel issues, equipment maintenance, preparing proposals, reviewing reports, and client interaction. Mr. Boutwell's construction monitoring experience includes nuclear density testing, concrete testing and inspection, asphalt inspection, earthwork testing and inspection, driven pile inspection, vibration monitoring, augercast pile inspection, and drilled shaft inspection. Mr. Boutwell is proficient in the following laboratory tests: soil and concrete compressive strength, moisture content, grain size sieve, organic content, Proctor compaction, lime/soil and soil/cement % determinations, density tests, and Atterberg limits.</p> <p>Mr. Boutwell has logged soil borings, performed pile load tests, floor flatness testing, anchor bolt pull out tests, obtained and secured samples from soil borings and borrow pits, and completed hand augers. Mr. Boutwell routinely operates Gulf South's pavement coring machines.</p> <p><b>Waggaman Subsurface Drainage Improvements, Waggaman, Jefferson Parish, LA.</b> 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)</p> </div> <div style="flex: 0.5; border: 1px solid black; padding: 5px; margin-left: 10px;"> <ul style="list-style-type: none"> <li>ACI Concrete Field Testing – Grade I</li> <li>APNGA Nuclear Moisture/Density Gauge Training</li> <li>OSHA Safety Training – 8 hr.</li> </ul> </div> </div>	

## TEC Professional Services Questionnaire

**Other experience and qualifications relevant to the proposed Project:**

*Christopher Boutwell (continued)*

**Westgate Drainage Improvements, Metairie, Jefferson Parish, LA.** Gulf South performed field and laboratory testing during construction of various drainage improvements. Scope included earthwork testing & inspection and concrete testing & inspection. (\$8,000 (fee); 2018)

**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)

**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)

**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)

**Idaho Drainage Improvements, City of Kenner, LA.** Gulf South performed field and laboratory testing during construction of the project. Scope of work included soil density tests, concrete inspection and testing, pile driving, pile load tests monitoring, vibration monitoring, and earthwork testing. (\$7,500 (fee); 2017)


**N. Sibley Drainage Improvements (N. Sibley at W. Napoleon), Metairie, Jefferson Parish, LA.** Gulf South provided the material testing and inspection during construction of the project. Services consisted of pile monitoring and inspection, density tests, and concrete testing and inspection. (\$5,000 (fee); 2021)

**Roadway and Drainage Infrastructure Improvements (Destrehan Drive and River Oaks Drive), Destrehan, St. Charles Parish, LA.** Gulf South provided geotechnical engineering services for drainage improvements at two existing roadway sites within the City of Destrehan in St. Charles Parish, LA. Scope of services includes drilling six undisturbed soil borings (depths of 10 ft. below the ground surface), laboratory testing, engineering analyses and general construction procedures and recommendations. (\$4,500 (fee); 2021)

**Submerged Roads Program - 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)

**St. Peter's Ditch (4700 W. Metairie Ave.), Metairie, Jefferson Parish, LA.** Gulf South performed field and laboratory testing during the improvements of drainage at LA 3152 and LA 3139 (Phase 3C), including vibration monitoring. (\$25,000 (fee); 2015)

## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
<b>Name &amp; Title:</b>	
<div style="display: flex; flex-direction: column; align-items: flex-start;"> <div style="margin-bottom: 10px;"><b>Ross L. White</b></div> <div>Soil Boring Driller</div> </div>	
<b>Project Assignment:</b>	
Soil Boring Driller	
<b>Name of Firm with which associated:</b>	
<div style="display: flex; align-items: center;">  <div> <b>ENGINEERING AND TESTING, INC.</b>              Geotechnical &amp; Materials Consultants           </div> </div>	
<b>Years experience with this Firm:</b>	
4 years with this firm (2018); 13 years total (2009)	
<b>Education: Degree(s)/Year/Specialization:</b>	
High School Diploma	
<b>Active registration: Year first registered/discipline:</b>	
N/A	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<div style="display: flex;"> <div style="flex: 1;"> <p>Mr. White is a soil boring driller with over a decade of experience as a soil boring driller and driller's helper, and has operated truck, track, and ATV mounted drilling rigs. In addition, he has performed soil borings over water on a barge and using barge drilling equipment. Mr. White is very familiar with the soils of Louisiana and Southeast Texas.</p> <p><b>Latigue Road Extension (Phase I; Live Oak Blvd. to Foundry Rd.), Jefferson Parish, LA.</b> Geotechnical investigation for a new paved extension road (approx. 1,000 lf) between Live Oak Boulevard and Foundry Road in Jefferson Parish, LA. Gulf South's scope includes drilling undisturbed soil borings (three at 10 ft.), lab testing, and engineering analyses including flexible pavement design recommendations and general construction procedures &amp; recommendations. (\$7,000 (fee); 2018)</p> <p><b>Roadway Rehabilitation and Drainage Improvements, McClellan Street (Area A), City of New Orleans, LA.</b> Soil boring investigation for construction of a new roadway and drainage improvements at the Jackson Barracks at 6400 St. Claude Avenue in New Orleans, LA. Gulf South's scope includes drilling undisturbed soil borings (three to a depth of 15 ft), lab testing, and engineering analyses including flexible and/or rigid pavement design recommendations, allowable soil bearing values (below grade), bedding and backfill recommendations for piping, and general construction procedures and recommendations. (\$3,000 (fee); 2019)</p> </div> <div style="flex: 0.5; border: 1px solid black; padding: 5px; margin-left: 10px;"> <ul style="list-style-type: none"> <li>ISTC basic, Entergy PowerSafe</li> <li>CDL A Class Driver's License (exp 11/2024)</li> </ul> </div> </div>	

## TEC Professional Services Questionnaire

### Other experience and qualifications relevant to the proposed Project:

*Ross L. White (continued)*

**Fish Bayou Control Structure (Alligator Bayou Road), Ascension Parish, LA.** Geotechnical investigation for new flood control structure across Alligator Bayou Road in Ascension Parish, LA. Gulf South's scope includes drilling three undisturbed soil borings ranging in depth from 6 to 60 feet, lab testing, and engineering analyses including allowable soil bearing values, allowable pile/shaft load capacities, estimates of settlement, rigid and/or flexible pavement design recommendations, and general construction procedures and recommendations. (\$6,000 (fee); 2018)

**Lift Station F-13-6 Replacement, Marrero, Jefferson Parish, LA.** Geotechnical investigation for construction of a new lift station replacing an existing one off Ehret Road and Broas Street in Marrero, LA. Gulf South's scope includes drilling a single 80 ft. undisturbed soil boring, lab testing, and engineering analyses including below grade foundation recommendations, allowable pile load capacities, estimates of settlement, bedding and backfill recommendations, and general construction procedures and recommendations. (\$7,900 (fee); 2019)


**New Sewer Lift Station (Butler Drive & Grambling Street), Waggaman, Jefferson Parish, LA.** Geotechnical investigation for a new sewer lift station (8 ft. diameter and 12 ft. bgs) at intersection of Butler Dr. and Grambling St. in Waggaman, LA. Gulf South's scope includes drilling one undisturbed soil boring to a depth of 60 feet, lab testing, and engineering analyses including net allowable soil bearing values, bedding and backfill recommendations, allowable pile load capacities, estimate of settlement, and general construction procedures and recommendations. (\$7,500 (fee); 2018)

**New Sewer Lift Station (Melrose Lane & Walker Road), River Ridge, Jefferson Parish, LA.** Geotechnical investigation for the construction of a new lift station near Melrose Lane and Walter Road in River Ridge, LA. Gulf South's scope includes drilling one undisturbed soil boring to a depth of 80 feet, lab testing, and engineering analyses including net allowable soil bearing values, below ground foundation recommendations, allowable pile load capacities, estimates of settlement, and general construction procedures and recommendations. (\$7,500 (fee); 2018)

**South Toledo Bend State Park Roadway, Culvert, and Erosion Repair, Toro, Sabine Parish, LA.** Geotechnical engineering services for the reconstruction of existing roadways (Bald Eagle Road and Aquilla Road), below ground drainage, and embankment stability improvements at S. Toledo Bend State Park located south of Toro in Sabine Parish, LA. Gulf South's scope includes drilling 13 undisturbed soil borings (depths of 40 ft. & 6 ft. below the ground surface), two inclinometers, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$23,000 (fee); 2020)

**New Lift Station (Elmwood Park Blvd. & Citrus Blvd.), Metairie, Jefferson Parish, LA.** Geotechnical investigation for construction of a new sewer lift station near the intersection of Elmwood Park Boulevard and Citrus Boulevard in Metairie, LA. Gulf South's scope includes drilling a single undisturbed soil boring (depth of 80 ft), lab testing, and engineering analyses including net allowable soil bearing values (as appropriate), below grade foundation recommendations, allowable pile load capacities (timber), estimates of settlement, rigid and/or flexible pavement design recommendations, and general construction procedures and recommendations. (\$7,500 (fee); 2018)

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>	
<b>Name &amp; Title:</b>	
<p><b>Wyatt M. Jones</b> Field Supervisor; Drilling and Engineering Technician</p>	
<b>Project Assignment:</b>	
Field Supervisor; Drilling and Engineering Technician	
<b>Name of Firm with which associated:</b>	
<div style="display: flex; align-items: center;">  <div> <p><b>ENGINEERING AND TESTING, INC.</b> Geotechnical &amp; Materials Consultants</p> </div> </div>	
<b>Years experience with this Firm:</b>	
2 year with this firm (2020); 5 years total (2017)	
<b>Education: Degree(s)/Year/Specialization:</b>	
<i>Construction Management, Delgado College (ongoing)</i>	
<b>Active registration: Year first registered/discipline:</b>	
N/A	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<div style="display: flex;"> <div style="flex: 1;"> <p>Mr. Jones serves as a Field Engineer with Gulf South Engineering and Testing, providing drilling and engineering support services on a variety of projects. His experience includes soil boring logging, field and site reconnaissance, and soil &amp; concrete material testing. Mr. Jones' project responsibilities have included overseeing drilling operations, planning, and coordination of field tasks. He has served as a client liaison, assembled boring layout plans, and supervised drill crews onsite while classifying testable soil samples.</p> <p>In previous positions, Mr. Jones performed all duties of a CCRL accredited lab, including monitoring and coordinating calibrations for all lab and field equipment, performing various tests on concrete and soil specimens, recording and organizing test results. As a CCTV operator, he piloted a robotic operations system underground shooting video of sewer and utility lines; this included using sonar and GPS coordinates to pinpoint utility locations.</p> <p><b>Mississippi River Discharge Pump Station, River Ridge, Jefferson Parish, LA.</b> 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 and general construction procedures and recommendations. (\$35,000 (fee); 2020)</p> </div> <div style="flex: 0.5; border: 1px solid black; padding: 5px; margin-left: 10px;"> <ul style="list-style-type: none"> <li>Entergy PowerSafe</li> <li>OSHA Safety Training – 8 hr.</li> </ul> </div> </div>	

## TEC Professional Services Questionnaire

### Other experience and qualifications relevant to the proposed Project:

*Wyatt M. Jones (continued)*

**Ole Miss Sewer Force Main, City of Kenner, LA.** Geotechnical engineering services for the construction of a new sewer force main along Ole Miss Drive from the John Hopkins Lift Station to 35th Street within Kenner, LA. The force main was 10-in in diameter, approximately 2,100 lf, and installed 10 to 15 feet deep via directional drilling. Gulf South's scope includes drilling four undisturbed soil borings to depths of 20 ft bgs, laboratory testing, engineering analyses and general construction procedures and recommendations. (Kenner PW-2020-2-SW) (\$8,000 (fee); 2021)

**Sewer Lift Station at Mississippi Avenue & 21st Street, Metairie, Jefferson Parish, LA.** Gulf South performed construction materials testing and inspection. Services included soil density tests, earthwork inspection and testing, backfill compaction testing, and concrete testing. (\$8,000 (fee); 2021)

**Roadway Reconstruction – North Carnation Street, City of Slidell, LA.** Geotechnical engineering services for the reconstruction of a new roadway along N. Carnation Street in Slidell, LA. Gulf South's scope includes drilling three undisturbed soil borings to depths of 6 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$2,500 (fee); 2020)

**Almonaster Street (N.E. Approach), Port of New Orleans, New Orleans, LA.** Geotechnical engineering services for construction of a new NE approach to Almonaster Street in New Orleans, LA. Gulf South's scope includes drilling two auger borings to a depth of 10 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$4,900 (fee); 2020)

**Geotechnical Investigation for a New Bulkhead, Beverly Industries, Chalmette, St. Bernard Parish, LA.** The project consists of constructing a new bulkhead along the east descending bank of the Mississippi River at Beverly Industries' facility in Chalmette, LA. Gulf South's scope of services include drilling a single undisturbed soil boring (depth of 100 ft below existing ground surface), backfilled in accordance with Louisiana DOTD/DEQ requirements. Geotechnical laboratory testing includes strength tests, classification tests (Atterberg Limits and/or particle size), and other tests deemed necessary. Engineering review includes development of recommendations and analyses, including allowable shaft/pile load capacities, bulkhead sheet-pile wall design parameters, slope stability analyses, and general construction procedures and recommendations. (\$7,500 (fee); 2021)

**Bayou Gauche/Sunset Levee - New Roller Gate, Upper Barataria Risk Reduction Program Segment 2, St. Charles Parish, LA.** Geotechnical investigation for construction of a new roller gate and T-wall structures within the UBRR flood protection/risk reduction system in St. Charles Parish, LA. Gulf South's scope includes drilling undisturbed soil borings (2 at 200 ft.), CPT probes (2 at 200 ft.), lab testing (including consolidation tests), and engineering analyses including site/soil characterization, global/local SSA for floodwalls, levee tie-ins, and floodgates, design levee lift stability, 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. The borings and CPT were performed over water using barge-mounted equipment. (\$110,880 (fee); 2020)

## 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:	
<b>Metairie Lawn and Ridgelake Drive Roadway &amp; Utility Project,</b> Metairie, Jefferson Parish, Louisiana  <b>Ardurra Group, Inc.</b> 3012 26th Street Metairie LA 70002  <b>Joe Becker, P.E.,</b> 504-454-3866 jbecker@ardurra.com		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.	
Completion Date (Actual or estimated):		Estimated Cost:	
		Entire Project:	Work for which Firm was Responsible:
2021 January		N/A	\$8,500 (fee)

### PROJECT NO. 2

Project Name, Location, and Owner's Contact Information:		Nature of Firm's Responsibility:	
<b>Drainage Improvements, Citrus Road &amp; Greg Court,</b> Metairie, Jefferson Parish, Louisiana  <b>Jefferson Parish c/o Buchart Horn</b> 18163 E Petroleum Drive, Suite A Baton Rouge LA 70809  <b>Alan Krouse, P.E.,</b> 225-308-2009 akrouse@bucharthorn.com  <b>Reda Youssef, P.E.</b> ryoussef@jeffparish.net		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.	
Completion Date (Actual or estimated):		Estimated Cost:	
		Entire Project:	Work for which Firm was Responsible:
2017 May		N/A	\$8,500 (fee)

## TEC Professional Services Questionnaire

<b>PROJECT NO. 3</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Airline Park Boulevard Rehabilitation and Drainage Upgrade (West Napoleon to Camphor), Jefferson Parish, Louisiana</b>  <b>Jefferson Parish c/o PECC</b> 3702 Bienville Avenue, Suite C New Orleans LA 70119  <b>John Shires, P.E., 800-749-2810</b> jshires@pecla.com	Geotechnical investigation for pavement rehabilitation, new drain lines, and a new pump station from W. Napoleon to Camphor in Metairie, LA. Gulf South's scope of work included drilling four soil borings to depths of 15 and 50 feet, 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.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2015 February	N/A	\$8,500 (fee)

<b>PROJECT NO. 4</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Trudeau Drive Drainage Improvements at West Metairie Canal, Metairie, Jefferson Parish, Louisiana</b>  <b>Jefferson Parish c/o Hatch Mott MacDonald</b> 650 Poydras Street, Suite 2025 New Orleans LA 70130  <b>Many Heymann, P.E., 504-799-0437</b> many.heyman@hatchmott.com	Geotechnical investigation for new drainage improvements along Trudeau Drive at W. Metairie Blvd. in Metairie, LA. The improvements will consist of replacing existing box culverts within W. Metairie Canal with double barrel 7 ft. x 11 ft. culverts, approximately 300 linear feet. Gulf South's scope includes drilling two soil borings each to a depth of 50 feet, lab testing, and geotechnical engineering analysis consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, slope stability analysis, rigid and/or flexible pavement design recommendations, and general construction recommendations.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2015 October	N/A	\$8,000 (fee)

## TEC Professional Services Questionnaire

<b>PROJECT NO. 5</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Lake Cataouatche Pump Station,</b> Avondale, Jefferson Parish, Louisiana  <b>Jefferson Parish</b> 1221 Elmwood Park Blvd Ste 907 Jefferson LA 70123  <b>Mitch Theriot, P.E.,</b> 504-736-6742 mtheriot@jeffparish.net	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.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2019 October	N/A	\$12,500 (fee)

<b>PROJECT NO. 6</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Lake Cataouatche Drainage Pump Station Replacement (Chighizola Lane),</b> Grand Isle, Jefferson Parish, Louisiana  <b>Principal Engineering, Inc.</b> 1011 N Causeway Blvd Ste 19 Mandeville LA 70471  <b>André C. Monnot, P.E.,</b> 985-624-5001 andre@pi.aec.com	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 (soil bearing values, pile load capacities, settlement estimates, retaining structure recommendations, slope stability 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.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2020 May	N/A	\$7,500 (fee)

## TEC Professional Services Questionnaire

<b>PROJECT NO. 7</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>David Drive Drainage Improvements (West Esplanade Avenue to Bruin Drive),</b> Jefferson Parish, Louisiana  <b>Jefferson Parish</b> <b>c/o Rahman &amp; Associates, Inc.</b> 3645 Williams Blvd Ste 208 Kenner LA 70065  <b>Tafoor Hameed, P.E.,</b> 504-469-0022 tafoor@bellsouth.net	Geotechnical investigation for the reconstruction of David Drive and the construction of drainage improvements (approx. 3000 ft.) along David Drive from W. Esplanade Avenue to Bruin Drive in Metairie. Gulf South's scope includes drilling four soil borings each to a depth of 20 feet, lab testing, and geotechnical engineering analysis including allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, pavement design recommendations, and general construction recommendations.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2015 December	N/A	\$7,500 (fee)

<b>PROJECT NO. 8</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Drainage Infrastructure Improvements, South Avondale Subdivision,</b> Avondale, Jefferson Parish, Louisiana  <b>Jefferson Parish</b> <b>c/o Phoenix Global Construction</b> 2901 Independence St Ste 103 Metairie LA 70006  <b>Jack Lo,</b> 504-883-9021 phoenixglobal@bellsouth.net	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.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2018 January	N/A	\$7,000 (fee)

## TEC Professional Services Questionnaire

<b>PROJECT NO. 9</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Mississippi River Discharge Pump Station,</b> River Ridge, Jefferson Parish, Louisiana  <b>ECM Consultants, Inc.</b> 1201 Clearview Parkway Suite 200 Metairie LA 70001  <b>Sunina Shrestha, P.E.,</b> 504-885-4080 sshrestha@ecmconsultants.com	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 levee to the protected side.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2021 September	N/A	\$35,000 (fee)

<b>PROJECT NO. 10</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Verrett Canal Slope Instability Project,</b> <b>West Bank Drainage Department,</b> Harvey, Jefferson Parish, Louisiana  <b>Jefferson Parish</b> <b>Engineering Department</b> 1221 Elmwood Park Blvd Ste 802 Jefferson LA 70123  <b>Clinton Hotard,</b> 504-736-6500 chotard@jeffparish.net	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.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2020 July	N/A	\$5,000 (fee)

## TEC Professional Services Questionnaire

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

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1. N/A		
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 RELATED 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 over two 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 & Regional Transit Authority-recognized small business in Louisiana. Our laboratory is AASHTO and CCRL certified and USACE validated.**

## TEC Professional Services Questionnaire

N. continued.

### **Geotechnical Engineering Services**

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

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

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

### **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.

**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 and inspection services for structures, earthwork, foundations, pipelines, and pavements. The range of services provided by the Gulf South team includes:

- *Fill and base compaction and density testing*
- *Vibration monitoring*
- *Pre- and post-construction inspection*
- *Concrete testing and inspection*

## TEC Professional Services Questionnaire

### N. continued.

- 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

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 New Terminal** project.

### CRITERIA 2 • CAPACITY FOR TIMELY COMPLETION OF NEWLY-ASSIGNED WORK

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 Vice President of Gulf South, Chad M. Poché, P.E., has been a practicing registered geotechnical engineer in South Louisiana for since 1998. He has specialized training and experience in geotechnical engineering throughout Louisiana.

Gulf South's Engineering Manager, Blake E. Vutera, P.E., has over 14 years experience in geotechnical investigations and has provided engineering analysis, laboratory testing, construction materials testing and inspection. He has been the geotechnical engineer of record for hundreds of projects throughout his career

As evidenced in the provided projects & personnel résumés, key personnel past 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 are able to submit data in formats acceptable and customized to our clients' needs.

Further, Gulf South continues to expand its staff and mentor the next generation of geotechnical engineers and professionals. One of our newest employees, Sara E. Lockwood, is a recent UNO Civil Engineering graduate who is working with our seasoned professionals in the challenging field of geotechnical engineering in the State of Louisiana. She has already gained extensive experience working on projects since joining the firm in 2019 and will continue to expand her knowledge and skill set working with our firm.

### CRITERIA 3 • LOCATION OF PRINCIPAL OFFICE

Gulf South is **located in Jefferson Parish at 15 Veterans Memorial Boulevard** in Kenner, Louisiana.

### CRITERIA 4 • ADVERSARIAL LEGAL PROCEEDINGS WITH PARISH

See *Item M*; Gulf South has not been involved in litigation with Jefferson Parish.

### CRITERIA 5 • 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. We are proud that a majority of its work is from repeat clients—we complete our projects on-time and within budget. **Multiple examples of this work are included throughout this form in both the Personnel Résumés section (Item K) and Representative Project Work (Item L).**

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

## TEC Professional Services Questionnaire

N. continued.

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

**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 Department  
(504-736-6783 | JPPW@jeffparish.net)

**Tom Schreiner**, Deputy CAO, Public Works & Capital Projects, City of Kenner  
(504-468-7515 | tschreiner@kenner.la.us)

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

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

### CRITERIA 6 • SIZE OF FIRM

At well over two dozen 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 is able to readily meet the time and budget constraints for projects assigned to this contract. Our current work load is such that we can expeditiously complete projects for this contract.

### CRITERIA 7 • 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. This would include, **but not be limited to**, the following:

- *Improvements to Sewer Lift Station No. 48-3, Metairie, Jefferson Parish, LA*
- *New Building and Parking Lot, East Bank Juvenile Services, Jefferson Parish, LA*
- *Metairie Lawn and Ridgelake Drive Roadway & Utility Project, Metairie, Jefferson Parish, LA*
- *N. Sibley Drainage Improvements (N. Sibley at W. Napoleon), Metairie, Jefferson Parish, LA*
- *Sewer Lift Station at Mississippi Avenue & 21st Street, Metairie, Jefferson Parish, LA*
- *Jefferson Parish Fire Department – Garage (River Road), Bridge City, Jefferson Parish, LA*
- *Jefferson Parish Dept. of Public Works West Bank Central Warehouse, Bridge City, Jefferson Parish, LA*
- *New Charter School, Behrman Highway, Terrytown, Jefferson Parish, LA*
- *Jefferson Parish Library Renovations (2350 Metairie Road), Metairie, Jefferson Parish, LA*
- *Clancy-Maggiore Elementary School – New Art and Band Wing, Kenner, Jefferson Parish, LA*
- *Johnny Bright Playground Gymnasium HVAC Installation, Metairie, Jefferson Parish, LA*
- *Kennedy Heights Playground Gymnasium HVAC Renovation, Avondale, Jefferson Parish, LA*
- *Trudeau Drive at Canal No. 5 Drainage Improvements, Metairie, Jefferson Parish, LA*
- *Earhart Expressway (Clearview Parkway to Central Avenue) Lighting Improvements, Jefferson Parish, LA*
- *West Esplanade Avenue Restoration (Tartan Drive to Haring Road), Metairie, Jefferson Parish, LA*
- *Citrus Road and Greg Court Subsurface Drainage Improvements, Jefferson Parish, LA*
- *Improvements to Sewer Lift Station M-11-3 & Force Main, Marrero, Jefferson Parish, LA*
- *Westgate Drainage Improvements, Metairie, Jefferson Parish, LA*
- *Bike Path Soil Borings, Jefferson Highway to Northline Street, Jefferson Parish, LA*
- *Green Acres Road - New Street Lighting, Metairie, Jefferson Parish, LA*
- *New Lift Station (Elmwood Park Blvd. & Citrus Blvd.), Metairie, Jefferson Parish, LA*
- *New Sewer Lift Station (Butler Drive & Grambling Street), Waggaman, Jefferson Parish, LA*
- *Drainage Infrastructure Improvements, South Avondale Subdivision, Avondale, Jefferson Parish, LA*

## TEC Professional Services Questionnaire

### N. continued.

- Parish Line Drainage Pump Station Improvements - Phase I, City of Kenner, Jefferson Parish, LA
- Public Works West Bank Central Warehouse, Bridge City, Jefferson Parish, LA
- New Sewer Lift Station (Melrose Lane & Walker Road), River Ridge, Jefferson Parish, LA
- Drainage Improvements, Citrus Road & Greg Court, Metairie, Jefferson Parish, LA
- New Sewer Force Main Installation (Midway & Wildwood to Lift Station E3-1), Jefferson Parish, LA
- St. Peter's Ditch - Phase IV (Pump Station at Clearview), Metairie, Jefferson Parish, LA
- Waggaman Subsurface Drainage Improvements, Waggaman, Jefferson Parish, LA
- Lift Station Replacement - N. Pierce Avenue & Versailles Street, Metairie, Jefferson Parish, LA
- Marsh Island Restoration Project, Lafreniere Park, Metairie, Jefferson Parish, LA
- Lift Station Replacement - Mississippi Avenue at 21st Street, Metairie, Jefferson Parish, LA
- Kawanee at Olympic Lift Station, Metairie, Jefferson Parish, LA
- Clearview Parkway Drainage Project, Metairie, Jefferson Parish, LA
- Submerged Roads Program - Multiple Phases, Metairie, Jefferson Parish, LA
- St. Peter's Ditch (4700 W. Metairie Ave.), Metairie, Jefferson Parish, LA
- Engineering Analysis Review (EAR) - Lafitte Tidal Protection Project (Phase I), Lafitte, Jefferson Parish, LA
- David Drive Drainage Improvements (West Esplanade Avenue to Bruin Drive), Jefferson Parish, LA
- Marrero WWTP New Administration Building and Safe Room, Marrero, Jefferson Parish, LA
- New Sewer Lift Station, Mississippi Ave. and Fulton St., Metairie, Jefferson Parish, LA
- Trudeau Drive Drainage Improvements at West Metairie Canal, Metairie, Jefferson Parish, LA
- Canal Bank Stabilization, Wayne Avenue at West Bank Expressway, Jefferson Parish, LA

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.

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

Signature: \_\_\_\_\_

Print Name: Chad M. Poché, P.E.

Title: Vice President

Date: March 10, 2022

**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, PE 15 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	03/31/2023	Mr. Chad Mitchell Poche # PE.0027667 - 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**      **09/30/2022**

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. Blake Elliot Vutera**

License/Certificate Type - Number      Expiration Date  
**PE.0038607**      **09/30/2022**

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. Sara Elinor Lockwood**

License/Certificate Type - Number      Expiration Date  
**EI.0034718**      **03/31/2023**

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      Expiration Date  
**PLS.0004329**      **09/30/2022**

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 2/25/2022 to 2/25/2023 .

Certification No. 11011

A handwritten signature in black ink, reading "Stephanie Hartman", is written over a horizontal line.

Stephanie Hartman,  
Director, Entrepreneurial Services



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



July 1, 2021

Cassandra Poche  
Gulf South Engineering and Testing Inc  
15 Veterans Memorial Blvd  
Kenner, LA 70062

Dear Ms. Poche:

We are pleased to inform you that your firm has been certified as a Small Business Enterprise (SBE).

Your firm remains certified in the SBE Program until there are any changes to your company or to your personal net worth that exceed the SBE eligibility criteria. Please note that you must notify our office immediately regarding any changes which affect the economic disadvantage, size, ownership or control of your firm.

In order to maintain eligibility, you are required to submit an annual affidavit stating that your firm continues to meet the eligibility requirements of the program. If you are both DBE and SBE certified, you will receive a Disadvantaged Business Enterprise Annual Affidavit approximately 4 weeks prior to your DBE Certification anniversary date. The annual affidavit for the DBE program will automatically apply to your SBE certification. If you are SBE certified only, you will receive a Small Business Enterprise Annual Affidavit approximately 4 weeks prior to your SBE Certification anniversary date.

We reserve the right to withdraw this certification if at any time it is determined that SBE certification knowingly obtained by the submission of false, misleading, or incorrect information. We further reserve the right to request additional information and/or conduct an on-site visit at any time during your certification period.

If we can be of further assistance, please contact the Office of Small Business Development at (504) 827-8301.

Sincerely,

A handwritten signature in blue ink, appearing to read "Adonis C. Expose", is written over a light blue circular stamp.

Adonis C. Expose  
DBE/SBE Liaison Officer III





## 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](http://aashtoresource.org)).

  
Jim Tymon,  
AASHTO Executive Director

  
Moe Jamshidi,  
AASHTO COMP Chair

This certificate was generated on 08/17/2021 at 7:12 PM Eastern Time. Please confirm the current accreditation status of this laboratory at [aashtoresource.org/aap/accreditation-directory](http://aashtoresource.org/aap/accreditation-directory)



**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:**

**02 JUN 2020 AT 18:10 HOURS**

**ALL METHODS LISTED ON THIS CERTIFICATE OF VALIDATION WILL EXPIRE ON 06/02/2022**

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

**SOILS**

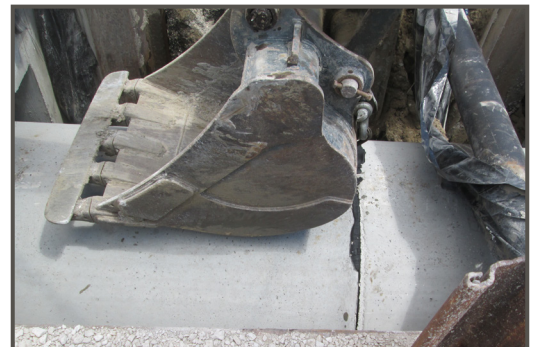
Soils - D 698 - Req - Compaction Characteristics by Standard Effort  
Soils - D 1140 - Req - Material Finer than 75  $\mu$ m (No. 200) Sieve  
Soils - D 1557 - Req - Compaction Characteristics by Modified Effort  
Soils - D 2216 - Req - Water Content  
Soils - D 2974 - Req - Moisture, Ash, & Organic Matter of Peat & Other Organic Soils  
Soils - D 4318 - Req - Liquid & Plastic Limits & Plasticity Index  
Soils - D 4643 - Req - Determination of Water Content of Soil by Microwave Oven



**GULF SOUTH**

**ENGINEERING AND TESTING, INC.**  
Geotechnical & Materials Consultants

Creative Engineering Group, LLC  
TEC Questionnaire



**TEC Professional Services Questionnaire**

**A. Project Name and Advertisement Resolution Number:**

SOQ No. 22-010 Routine Engineering Services for Sewer Projects - Resolution No. 138812

**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:**

<input checked="" type="checkbox"/> 1 Administrative	<input type="checkbox"/> Estimators	<input type="checkbox"/> Specification Writers
<input type="checkbox"/> Architects (Licensed)	<input type="checkbox"/> Geologists	<input type="checkbox"/> Structural Engineers
<input type="checkbox"/> Chemical Engineers	<input type="checkbox"/> Geotechnical Engineers	<input type="checkbox"/> Graduate Engineers
<input type="checkbox"/> Civil Engineers	<input type="checkbox"/> Interior Designers	<input type="checkbox"/> Project Managers
<input type="checkbox"/> Construction Inspectors	<input type="checkbox"/> Landscape Architects	<input type="checkbox"/> Clerical
<input type="checkbox"/> Ecologists	<input type="checkbox"/> Land Surveyor	<input type="checkbox"/> Grant/Funding Specialist
<input checked="" type="checkbox"/> 1 Electrical Engineers	<input type="checkbox"/> Mechanical Engineers	<input type="checkbox"/> Sanitary Engineers
<input type="checkbox"/> Engineer Intern	<input type="checkbox"/> Environmental Engineers	<input type="checkbox"/> Planners
<input type="checkbox"/> Professional Land Surveyors	<input checked="" type="checkbox"/> 2 CADD	<input checked="" type="checkbox"/> 1 Designers
		<b><input checked="" type="checkbox"/> 5 TOTAL</b>

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

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

TEC Professional Services Questionnaire

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

1. N/A

2. N/A

**H. Has 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:

>15

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 25 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.

**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** - St. Bernard Parish, 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.

**Repairs to C.F. Rowley School, Repairs Dispute - Damage Evaluation** - St. Bernard Parish, 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.**

<b>PROJECT NO. 1</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Hurricane Katrina Damage Repairs - McDermott Hanger</b> <i>New Orleans, LA</i>  RCL Architecture 900 W. Causeway Approach Mandeville, LA 70471, (985) 727-4440	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.  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.	
<b>Completion Date (Actual or estimated):</b>  03/2009 (Est.)	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
	\$2,500,000 (Est.)	\$200,000 (Est.)
<b>PROJECT NO. 2</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Repairs to C.F. Rowley School</b> <b>St. Bernard Parish School Board</b> <i>Chalmette, LA</i>  Lachin Architects 900 Causeway Approach Mandeville, LA 7 70471 (985) 727-4440	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.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
	10/2007 (Est.)	\$6,500,000 (Est.)  \$1,300,000 (Est.)

TEC Professional Services Questionnaire


PROJECT NO. 3		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Nunez Community College Building B</b> <b>Hurricane Katrina Repairs</b> <i>Chalmette, LA</i>  Lachin Architects 900 Causeway Approach Mandeville, LA 7 70471 (985) 727-4440	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.	
<b>Completion Date (Actual or estimated):</b>  09/2008	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
	\$8,900,000	\$323,000
PROJECT NO. 4		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>

### 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 26 years of experience, an electrical designer with over 15 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: Ray Nowl

Title: owner Date: 3-23-2022