

STATEMENT OF QUALIFICATIONS
TO PROVIDE ROUTINE ENGINEERING SERVICES
FOR DRAINAGE PROJECTS IN JEFFERSON PARISH
RESOLUTION NO. 138811



MARCH 31, 2022

Prepared By:



PROFESSIONAL
ENGINEERING AND
ENVIRONMENTAL
CONSULTANTS, INC.

ENGINEERS, PLANNERS AND ENVIRONMENTAL CONSULTANTS
1065 Muller Parkway, Suite B, Westwego, LA 70094



**PROFESSIONAL
ENGINEERING AND
ENVIRONMENTAL
CONSULTANTS, INC.**

ENGINEERS, PLANNERS AND ENVIRONMENTAL CONSULTANTS

March 31, 2022

Jefferson Parish Purchasing Department
C/O Mr. Renny Simno, Director
Jefferson Parish General Government Building
200 Derbigny Street, Suite 4400
Gretna, LA 70053

**RE: ROUTINE ENGINEERING SERVICES FOR
DRAINAGE PROJECTS IN JEFFERSON PARISH
RESOLUTION NO. 138811**

Dear Mr. Simno,

It is our pleasure to submit this response to Jefferson Parish Council's Request for Qualifications for Routine Engineering Services for Drainage Projects in Jefferson Parish for a Two-Year Period. PEEC, Inc. is a Civil and Environmental Engineering firm with over 29 years of experience in regard to design of drainage improvement systems, including design and rehabilitation of pump stations, water conveyance systems, box culverts, hydraulic analysis, modeling, and environmental permitting. Along with this, our familiarity with Jefferson Parish and the proximity of our office makes PEEC a prime candidate to provide the engineering and related services for any awarded projects.

PEEC is a consulting engineering firm capable of providing engineering services for Capital Improvements, CDBG, FEMA, GOHSEP, and other State and Federal funded projects. PEEC has been licensed in the State of Louisiana since 1993 and we are proud of the fact that our firm has not had any record of substandard work nor engaged in any unethical practices in that time.

PEEC has consistently providing state of the art solutions to complex problems facing municipalities and local government bodies. PEEC's innovative approach to problem solving has proven to be economically beneficial to its clients. Such technical ideas have been used for clients such as Jefferson Parish, Town of Grand Isle, St. Tammany Parish, City of Westwego, Plaquemines Parish, St. Bernard Parish, St. Charles Parish, St. James Parish, Lafourche Parish, St. Martin Parish, the Town of Zwolle and numerous other private clients in the past.

We look forward to working with the Council on any future Drainage improvement projects. If you have any questions regarding this matter, please contact our office at (504) 347-1900.

Sincerely,

Mo Saleh, M.S., P.E.,
Principal

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Executive Summary

Professional Engineering and Environmental Consultants, Inc. (PEEC), is a registered professional engineering firm in Louisiana and Texas. PEEC offers highly qualified personnel, state-of-the-art equipment and the latest computer systems and software to our clients. Our office is located in the City of Westwego in Jefferson Parish. Our firm is very knowledgeable and experienced regarding pump stations, water conveyance systems, hydraulic analysis and modeling, planning, construction management, and project administration making PEEC a highly qualified firm to provide routine engineering services for Drainage projects.

PEEC offers its clients a wide array of professional civil, environmental, and structural engineering services coupled with exceptional knowledge and experience regarding design of drainage improvement. PEEC clients enjoy our professionalism and team work that lead to successful completion of projects from start to finish. Our technical ideas and innovative approach to problem solving has proven to be economically beneficial to its clients.

PEEC is very knowledgeable and proficient with FEMA, Capital Improvements, CDBG, and GOHSEP program administration and management. Our firm has all the necessary personnel with the appropriate expertise, qualifications, and certifications to successfully perform all aspects of this project for Jefferson Parish within budget, and in a timely manner.

Over the past 29 years, PEEC has developed an extensive inventory of background technical information on relevant characteristics which provide valuable information in preparation for drainage improvement project tasks, objectives, and goals. We are intimately familiar with Jefferson Parish having designed and managed the construction of numerous projects including drainage improvements, culvert replacements, and environmental permitting. Our firm recognizes the need for timely completion of projects and has proved itself capable of doing so in the past.

Successful planning and completion of projects in locations such as Jefferson Parish, St. Charles Parish, St. Tammany Parish, St. Bernard Parish, St. Martin Parish, Lafourche Parish, Plaquemines Parish, Sabine Parish, and Galveston County in Texas have proven our ability to consistently provide state of the art solutions to complex problems facing parishes and municipalities.

For these reasons as well as the firm's experience and understanding the nature of the problems confronting southeast Louisiana, Professional Engineering and Environmental Consultants, Inc. is a valuable resource that is very capable and prepared to provide professional engineering and related services to Jefferson Parish for drainage improvement projects.

**Jefferson Parish TEC
Professional Services Questionnaire**

For

PEEC, Inc.

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

To Provide Routine Engineering Services for Drainage Projects in Jefferson Parish
Resolution No.138811

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

Professional Engineering and Environmental Consultants, Inc.
1065 Muller Parkway, Suite B
Westwego, LA 70094

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:

Mo Saleh, M.S., P.E.
Principal
(504) 347-1900
mo@peecinc.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.

Mo Saleh, M.S., P.E.
Principal
(504) 347-1900
mo@peecinc.com

LA P.E. No. 23806 1990, Civil Engineering
LA P.E. No. 23806 1994, Environmental Engineering

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

<u> 2 </u> Administrative	<u> 1 </u> Estimators	<u> </u> Specification Writers
<u> </u> Architects (Licensed)	<u> </u> Geologists	<u> </u> Structural Engineers
<u> </u> Chemical Engineers	<u> </u> Geotechnical Engineers	<u> </u> Graduate Engineers
<u> 3 </u> Civil Engineers	<u> </u> Interior Designers	<u> 1 </u> Project Managers
<u> 1 </u> Construction Inspectors	<u> </u> Landscape Architects	<u> </u> Clerical
<u> </u> Ecologists	<u> </u> Land Surveyor	<u> </u> Grant/Funding Specialist
<u> 1 </u> Electrical Engineers	<u> </u> Mechanical Engineers	<u> </u> Sanitary Engineers
<u> </u> Engineer Intern	<u> 1 </u> Environmental Engineers	
<u> 1 </u> Professional Land Surveyors		<u>11</u> TOTAL

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

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

TEC Professional Services Questionnaire

Mechanical, Electrical, Plumbing and Piping Design

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

1. N/A

2. N/A

H. Has this JOINT-VENTURE previously worked together? Please check: N / A
YES NO

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

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. BFM Corporation, LLC 15 Veterans Memorial Blvd. Kenner, LA 70062	Professional Land Surveying	Yes
2. Gulf South Engineering and Testing, Inc. 15 Veterans Memorial Blvd. Kenner, LA 70062	Geotechnical Engineering and Analysis	Yes
3.		

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

 (2)

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:

Mo Saleh, M.S., P.E., Principal

Project Assignment:

Senior Project Engineer; Civil Engineer

Name of Firm with which associated:

Professional Engineering and Environmental Consultants, Inc.

Years' experience with this Firm:

29

Education: Degree(s)/Year/Specialization:

M.S., Civil Engineering (1984), University of New Orleans; B.S., Civil Engineering (1980), University of New Orleans

Active registration: Year first registered/discipline:

Registered Professional Civil Engineer, LA P.E. No.23806; Registered Professional Environmental Engineer, LA P.E. No. 23806; Registered Professional Civil Engineer, FL P.E. No. 42728; Registered Professional Engineer, TX P.E. No. 86026; 40 Hour Hazmat Technician, Levels A, B, C, D, SCBA, SAR, APR, Certificate No. 1007; 8 Hour Hazmat Supervisor, Certificate No. 1012; Underground Storage Tank (UST) Removal Certification.

Other experience and qualifications relevant to the proposed Project:

As a Senior Project Engineer, Mr. Saleh has over (30) years of experience providing engineering services for design or rehabilitation on numerous drainage improvement systems including: pumping stations, major canals, subsurface drainage systems, and drainage basins with control structures, His responsibilities included: hydraulic modeling, hydraulic studies, field investigations, mechanical and structural design of pump stations, preparation of specifications, construction management, cost analysis, project coordination, preparation of operation and maintenance manuals, and regulatory negotiations for obtaining the required permits. Mr. Saleh will assume the role of Senior Project Engineer and oversee all aspects of this project.

At Professional Engineering and Environmental Consultants, Inc., Mr. Saleh's engineering services include providing technical expertise and assistance to many local municipalities and parishes including the City of Westwego, Jefferson Parish, City of Morgan City, Town of Grand Isle, Town of Zwolle, City of Gretna, Grand Isle Independent Levee District, West Jefferson Levee District, Grand Isle Port Commission, Plaquemines Parish, St. Charles Parish, St. Bernard Parish, and St. Tammany Parish.

TEC Professional Services Questionnaire

Mr. Saleh's experience with drainage projects include:

Stephensville Drainage Study and Drainage System Improvements

St. Martin Parish, LA

This community incurs flooding on a regular basis as a result of heavy rainfall events and backwater flooding from the Atchafalaya River and coastal storm surge from the Gulf of Mexico. The Parish received FEMA Hazard Mitigation funds to protect the area and install a new drainage pump station to handle flooding. PEEC was contracted to conduct the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), and prepare the technical report, preliminary plans, cost analysis, final design, and obtain all environmental permits. The drainage system improvements included a water tight system for all sewer manholes to prevent water from intruding the wastewater treatment system; installation of a flap gate at each of the outfalls to prevent flooding from reverse water flow in existing catch basins and outfalls when waterways rise; increasing pumping capacity of existing pump station by lining the sump area, reinforcing walls with sheet piling and replacing the existing pump with a larger capacity pump; installing 1,800 feet of sheet piles to the north side of the canal and a new drainage pump station designed for 160 CFS. Mr. Saleh was the Senior Project Engineer for this project which consisted of hydraulic modeling and design of the drainage improvements based on the hydraulic modeling. He was also responsible for the cost analysis and alternative analysis, construction management, and permitting process.

Primrose (Ellington) Canal Road Crossing Drainage Study and Culvert Replacement

St. Charles Parish, LA

PEEC provided engineering services to replace priority road crossing culverts along Primrose Canal. Most of the culverts along this canal were old, failing, undersized, and needed replacing. During significant rainfall events, reduced drainage capacity has resulted in street flooding along with several homes flooded in adjacent subdivisions. With the available grant funding, PEEC was authorized to replace as many as possible, properly sized culverts capable of handling a 100-year rain event. Our firm was responsible for preliminary and final design, bidding, construction management, close out and construction inspection services. Mr. Saleh was the Senior Project Engineer for determining the problem with the drainage and performing the hydraulic modeling for this work. After the hydraulic modeling was completed, he prepared the specifications and was the Senior Project Engineer for the entire project.

West First Street and Belle Chasse N.A.S. Joint Reserve Military Air Base Drainage Study and Drainage Improvements

Belle Chasse, LA

PEEC was contracted by Plaquemines Parish Government to study the runoff effects of recent improvements to the West First Street Canal made on the Naval Air Base in Belle Chasse, LA. The focus of this study was to determine the cause of local erosion in the canal and design a drainage system to improve the existing condition. . With the topographic information in hand, PEEC constructed a model of the drainage patterns of the area utilizing HEC-HMS. HEC-RAS was used to analyze the effects of a possible increase of discharge into local drainage ditches. To address this issue, PEEC designed the conversion of the existing earthen canal to a concrete slope-paved canal to handle the increased discharge into the system and prevent future erosion. Mr. Saleh was the Senior Project Engineer responsible for the Plaquemines Parish Drainage Basin evaluation and design of a \$11M slope-paved drainage canal in Belle Chase, LA. He was also responsible for construction management and the permitting process.

Duvic Drainage Study and Pump Station Improvements

Plaquemines Parish, LA

PEEC developed an innovative design for a new permanent crane structure attached to the existing pump station structure that would allow the drainage department to remove the 6-foot diameter suction assemblies whenever the need for repairs arose. The crane could also be used for lifting equipment onto the pump station deck. The project included bank stabilization and the design and installation of a new HS20-44 rated concrete bridge on Duvic Canal allowing heavy equipment to approach the flood wall and the drainage pump station for repair work. PEEC researched and analyzed the original design and construction of the pump station to determine strength and allowable loading on the existing structure. Geotechnical analysis of the native soils to determine foundation requirements, pile loading, and bedding requirements for improvements was obtained and analyzed by PEEC. Our firm provided the preliminary and final design, plans and specifications, permitting, and managed the construction phase of this project. Mr. Saleh was responsible for the structural and mechanical design of the project and construction management which included: applying for permits, coordinating pre-bid conference, tallying bids, and preparation of the drawings and specifications.

TEC Professional Services Questionnaire

District 1 Drainage Study and Drainage Improvements

Lafourche Parish, LA

During Hurricane Gustav the high tides, coupled with the heavy rainfall, forced storm waters back into the discharge pipes causing the pumps to operate improperly. As a result, pumps located in portions of Central Lafourche were forced to pump longer to decrease the water level on the outside of the system to allow the District 1 of 12 Pump Stations to pump water through the discharge pipe and relieve the standing water on the inside of the system. Lafourche Parish received funding under the CDBG Disaster Recovery Program to improve the existing pump stations in Drainage District 1. Environmental permits were prepared and submitted to the LA Corps of Engineers. Pre-Application discussions were engaged in with all participating regulatory agencies to obtain comments and make application adjustments as required. PEEC provided the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), preliminary plans, cost analysis, and final design. The design of the project includes installing 250 LF of steel sheet pile on both sides of an existing drainage levee to eliminate further erosion; installing 100 LF of 24" discharge pipe; 100 LF of 36" discharge pipe; 100 LF of 48" discharge pipe; rehabilitate existing pumps and engines; installing new trash screen to eliminate discharge of debris into the drainage canal; and installing new 24" electric pump, engine, and discharge pipe to increase the pumping capacity from 30,000 GPM to 60,000 GPM. Mr. Saleh was responsible for the structural and mechanical design of the project and construction management which included: applying for permits, coordinating pre-bid conference, tallying bids, and preparation of the drawings and specifications.

District 2 Drainage Study and Drainage Improvements

Lafourche Parish, LA

Lafourche Parish received funding under the CDBG Disaster Recovery Program to improve the existing pump stations in Drainage District 2. Due to age and deterioration of this pump station holes have formed in the discharge pipes. During Hurricane Gustav the pump station was not able to produce the necessary pumping capacity needed to relieve the standing water on the inside of the system. The many holes in the discharge pipe allow water to escape from the pipe before it reaches the outside of the system, thereby defeating the purpose of the pumps. Environmental permits were prepared and submitted to the LA Corps of Engineers. Pre-Application discussions were engaged in with all participating regulatory agencies to obtain comments and make application adjustments as required. PEEC provided the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), preliminary plans, cost analysis, and final design. The design of the project includes installing 200 LF of new 36" discharge pipe; rehabilitating the existing pumps and engines; installing a new trash screen to eliminate the discharge of debris into the drainage canal; installing new hand rail and lighting system to ensure worker safety; and refurbishing and installing Parish owned 48" pump. Mr. Saleh was responsible for the structural and mechanical design of the project and construction management which included: applying for permits, coordinating pre-bid conference, tallying bids, and preparation of the drawings and specifications.

Oak Street Drainage Study

Hahnville, LA

PEEC, Inc. was authorized to proceed with the Drainage Impact Study of the Oak Street Drainage Area. PEEC conducted several field investigations of the project site and utilized LIDAR mapping from the LSU Atlas site to create the overall drainage map of the project location both up and down stream. This mapping, coupled with the field visits by our staff, was sufficient to give us an understanding of the overland and subsurface flows to the intersection of Oak Street and Butternut Street and along Julia Street in Hahnville, LA. The purpose of this Analysis was to determine the recommended size of the culverts to be placed in the ditch that traverses from the intersection of Butternut and Oak Streets to the southeast a distance of approximately 486 LF in total. The total length includes a run of 18" CMP approximately 325 LF and a run of 36" CMP approximately 161 LF to the corner that turns the ditch southwest into a pasture. The study of this area consisted of a review of the Oak Street Drainage Basin that ultimately flows into the previously discussed ditch thru open ditches and subsurface drainage structures. These open ditches and subsurface drainage structures culminate at a series of 24" CMP's that cross Oak Street and Butternut streets to flow into the previous ditch. Also, within the scope of this analysis was the Julia Street Drainage Basin that flows into a subsurface 44"x27" RCPA that drains the area to the ditch to the southwest. PEEC, Inc. was able to determine that the recommended pipe size for the ditch at the end of Oak Street (flowing southeast from its intersection with Butternut) is to be a 36" RCP or RCPA equivalent. The recommended pipe size for the ditch at the end of Julia Street (the continuation of the previously discussed ditch) is to be a 54" RCP or RCPA equivalent. Mr. Saleh was the Senior Project Engineer responsible for the design of the project and construction management which included: applying for permits, coordinating pre-bid conference, tallying bids, and preparation of the drawings and specifications.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Ronald A. Guidry, President
Project Assignment:
Quality Control Manager
Name of Firm with which associated:
Professional Engineering and Environmental Consultants, Inc.
Years' experience with this Firm:
29
Education: Degree(s)/Year/Specialization:
Associate of Science, Drafting Eng. Technology, Delgado College, 1968
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Guidry has been an officer of Professional Engineering and Environmental Consultants, Inc. for over (20) years and has over (40) years of experience in construction supervision and monitoring, instrumentation, drafting, architectural design, and planning. His education and construction background provides the company with great versatility in quality control and assurance for the various projects. Mr. Guidry will assume the role of Quality Control Manager regarding this project.</p> <p>Primrose (Ellington) Canal Road Crossing Drainage Study and Culvert Replacement St. Charles Parish, LA PEEC provided engineering services to replace priority road crossing culverts along Primrose Canal. Most of the culverts along this canal were old, failing, undersized, and needed replacing. During significant rainfall events, reduced drainage capacity has resulted in street flooding along with several homes flooded in adjacent subdivisions. With the available grant funding, PEEC was authorized to replace as many as possible, properly sized culverts capable of handling a 100-year rain event. Our firm was responsible for preliminary and final design, bidding, construction management, close out and construction inspection services. Mr. Guidry was responsible for Quality Control and Assurance, and construction administration which included: review of shop drawings and contractor submittals, calculating quantities, approving contractor invoices, and coordinating the final inspection.</p> <p>West First Street and Belle Chasse N.A.S. Joint Reserve Military Air Base Belle Chasse, LA Drainage Study and Drainage Improvements PEEC was contracted by Plaquemines Parish Government to study the runoff effects of recent improvements to the West First Street Canal made on the Naval Air Base in Belle Chasse, LA. The focus of this study was to determine the cause of local erosion in the canal and design a drainage system to improve the existing condition. With the topographic information in hand, PEEC constructed a model of the drainage patterns of the area utilizing HEC-HMS. HEC-RAS was used to analyze the effects of a possible increase of discharge into local drainage ditches. To address this issue, PEEC designed the conversion of the existing earthen canal to a concrete slope-paved canal to handle the increased discharge into the system and prevent future erosion. Mr. Guidry was responsible for construction supervision, monitoring, planning, adhering to state and federal regulations, and quantities of materials used on-site.</p>

TEC Professional Services Questionnaire

Duvic Drainage Study and Pump Station Improvements

Plaquemines Parish, LA

The project included bank stabilization and the design and installation of a new HS20-44 rated concrete bridge on Duvic Canal allowing heavy equipment to approach the flood wall and the drainage pump station for repair work. Environmental Permits were prepared and submitted to the Corps of Engineers. Pre-Application discussions were engaged in with all participating regulatory agencies to obtain comments and make application adjustments as required. Geotechnical analysis of the native soils to determine foundation requirements, pile loading, and bedding requirements for improvements was obtained and analyzed by PEEC. Our firm provided the preliminary and final design, plans and specifications, permitting, and managed the construction phase of this project. Mr. Guidry was responsible for Quality Control and Assurance, and construction administration which included: review of shop drawings and contractor submittals, calculating quantities, approving contractor invoices, and coordinating the final inspection.

District 1 Drainage Study and Drainage Improvements

Lafourche Parish, LA

During Hurricane Gustav the high tides, coupled with the heavy rainfall, forced storm waters back into the discharge pipes causing the pumps to operate improperly. As a result, pumps located in portions of Central Lafourche were forced to pump longer to decrease the water level on the outside of the system to allow the District 1 of 12 Pump Stations to pump water through the discharge pipe and relieve the standing water on the inside of the system. Lafourche Parish received funding under the CDBG Disaster Recovery Program to improve the existing pump stations in Drainage District 1. Environmental permits were prepared and submitted to the LA Corps of Engineers. Pre-Application discussions were engaged in with all participating regulatory agencies to obtain comments and make application adjustments as required. PEEC provided the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), preliminary plans, cost analysis, and final design. The design of the project includes installing 250 LF of steel sheet pile on both sides of an existing drainage levee to eliminate further erosion; installing 100 LF of 24" discharge pipe; 100 LF of 36" discharge pipe; 100 LF of 48" discharge pipe; rehabilitate existing pumps and engines; installing new trash screen to eliminate discharge of debris into the drainage canal; and installing new 24" electric pump, engine, and discharge pipe to increase the pumping capacity from 30,000 GPM to 60,000 GPM. Mr. Guidry was responsible for Quality Control and Assurance, and construction administration which included: review of shop drawings and contractor submittals, calculating quantities, approving contractor invoices, and coordinating the final inspection.

District 2 Drainage Study and Drainage Improvements

Lafourche Parish, LA

Lafourche Parish received funding under the CDBG Disaster Recovery Program to improve the existing pump stations in Drainage District 2. Due to age and deterioration of this pump station holes have formed in the discharge pipes. During Hurricane Gustav the pump station was not able to produce the necessary pumping capacity needed to relieve the standing water on the inside of the system. The many holes in the discharge pipe allow water to escape from the pipe before it reaches the outside of the system, thereby defeating the purpose of the pumps. Environmental permits were prepared and submitted to the LA Corps of Engineers. Pre-Application discussions were engaged in with all participating regulatory agencies to obtain comments and make application adjustments as required. PEEC provided the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), preliminary plans, cost analysis, and final design. The design of the project includes installing 200 LF of new 36" discharge pipe; rehabilitating the existing pumps and engines; installing a new trash screen to eliminate the discharge of debris into the drainage canal; installing new hand rail and lighting system to ensure worker safety; and refurbishing and installing Parish owned 48" pump. Mr. Guidry was responsible for Quality Control and Assurance, and construction administration which included: review of shop drawings and contractor submittals, calculating quantities, approving contractor invoices, and coordinating the final inspection.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Delmar R. Caldwell, P.E.
Project Assignment:
Civil Engineer
Name of Firm with which associated:
Professional Engineering and Environmental Consultants, Inc.
Years' experience with this Firm:
29
Education: Degree(s)/Year/Specialization:
B.S., Civil Engineering, Tulane University, 1982
Active registration: Year first registered/discipline:
Registered Professional Civil Engineer, LA P.E. No. 23127; Registered Professional Environmental Engineer, LA P.E. No. 23127; Registered Professional Civil Engineer, MS P.E. No. 10847; Hazardous Waste Contractor, LA No. 26898; LA DEQ Underground Storage Tank Worker Certificate No. IRC-0539.
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Caldwell is a registered Civil Engineer with more than (30) years of experience in civil and environmental engineering projects. His experience is broad based and includes office administration and management, construction administration and supervision for major municipal programs. His technical background includes GIS development and implementation, water and wastewater planning and design, permitting, hydraulic and hydrologic analyses and study. Mr. Caldwell will assume the role of Civil Engineer for this project.</p> <p>Primrose (Ellington) Canal Road Crossing Drainage Study and Culvert Replacement St. Charles Parish, LA PEEC provided engineering services to replace priority road crossing culverts along Primrose Canal. Most of the culverts along this canal were old, failing, undersized, and needed replacing. During significant rainfall events, reduced drainage capacity has resulted in street flooding along with several homes flooded in adjacent subdivisions. With the available grant funding, PEEC was authorized to replace as many as possible, properly sized culverts capable of handling a 100-year rain event. Our firm was responsible for preliminary and final design, bidding, construction management, close out and construction inspection services. Mr. Caldwell was responsible for preparation of plans and specifications, project administration, and construction management.</p> <p>West First Street and Belle Chasse N.A.S. Joint Reserve Military Air Base Belle Chasse, LA Drainage Study and Drainage Improvements PEEC was contracted by Plaquemines Parish Government to study the runoff effects of recent improvements to the West First Street Canal made on the Naval Air Base in Belle Chasse, LA. The focus of this study was to determine the cause of local erosion in the canal and design a drainage system to improve the existing condition. . With the topographic information in hand, PEEC constructed a model of the drainage patterns of the area utilizing HEC-HMS. HEC-RAS was used to analyze the effects of a possible increase of discharge into local drainage ditches. To address this issue, PEEC designed the conversion of the existing earthen canal to a concrete slope-paved canal to handle the increased discharge into the system and prevent future erosion. Mr. Caldwell was responsible for preparation of plans and specifications, project administration, and construction management.</p>

TEC Professional Services Questionnaire

Duvic Drainage Study and Pump Station Improvements

Plaquemines Parish, LA

PEEC developed an innovative design for a new permanent crane structure attached to the existing pump station structure that would allow the drainage department to remove the 6-foot diameter suction assemblies whenever the need for repairs arose. The crane could also be used for lifting equipment onto the pump station deck. The project included bank stabilization and the design and installation of a new HS20-44 rated concrete bridge on Duvic Canal allowing heavy equipment to approach the flood wall and the drainage pump station for repair work. PEEC researched and analyzed the original design and construction of the pump station to determine strength and allowable loading on the existing structure. Geotechnical analysis of the native soils to determine foundation requirements, pile loading, and bedding requirements for improvements was obtained and analyzed by PEEC. Our firm provided the preliminary and final design, plans and specifications, permitting, and managed the construction phase of this project. Mr. Caldwell was responsible for construction management which included: applying for permits, coordinating pre-bid conference, tallying bids, and preparation of the drawings and specifications.

District 2 Drainage Study and Drainage Improvements

Lafourche Parish, LA

Lafourche Parish received funding under the CDBG Disaster Recovery Program to improve the existing pump stations in Drainage District 2. Due to age and deterioration of this pump station holes have formed in the discharge pipes. During Hurricane Gustav the pump station was not able to produce the necessary pumping capacity needed to relieve the standing water on the inside of the system. The many holes in the discharge pipe allow water to escape from the pipe before it reaches the outside of the system, thereby defeating the purpose of the pumps. Environmental permits were prepared and submitted to the LA Corps of Engineers. Pre-Application discussions were engaged in with all participating regulatory agencies to obtain comments and make application adjustments as required. PEEC provided the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), preliminary plans, cost analysis, and final design. The design of the project includes installing 200 LF of new 36" discharge pipe; rehabilitating the existing pumps and engines; installing a new trash screen to eliminate the discharge of debris into the drainage canal; installing new hand rail and lighting system to ensure worker safety; and refurbishing and installing Parish owned 48" pump. Mr. Caldwell was responsible for construction management which included: applying for permits, coordinating pre-bid conference, tallying bids, and preparation of the drawings and specifications.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Dr. Morris Sade, Ph.D., P.H., P.E.
Project Assignment:
Environmental Engineer
Name of Firm with which associated:
Professional Engineering and Environmental Consultants, Inc.
Years' experience with this Firm:
17
Education: Degree(s)/Year/Specialization:
Ph.D./1990/University of Illinois/Civil & Agric. Engineering M.S./1981/University of Arizona/Civil Engineering B.S./ 1971/University of Azerbaijan/Civil & Agric. Engineering
Active registration: Year first registered/discipline:
P.E. 1997, Civil Engineer/Louisiana No. 27412; P.E. 2002, Civil Engineer/Arizona No. 38010; P.E. 2003, Civil Engineer/Texas No. 91381; P.H. 1992, Professional Hydrologist, AIH 990
Other experience and qualifications relevant to the proposed Project:
<p>Dr. Sade has served in various technical and administrative capacities during his many years of experience as a professional engineer. He has multi-disciplinary education and extensive professional experiences in Design, Research and Development, Teaching, Planning and Management in the field of Water Resources and Environmental Engineering, Hydraulics and Hydrology. He has prepared and published numerous technical reports and design projects. He has an established record of knowledge and practical experiences in various physical and environmental aspects of Louisiana's Flat terrain Hydrology, Flood Control Structures, Stormwater Management, Hydrologic and Hydraulic Design (H&H), Soil Erosion, Risk Assessment and Dam Safety Analysis, Coastal Wetlands and Groundwater Technology. He has a broad background in computer modeling and simulation techniques for design of Hydrologic and Hydraulic (H&H) systems and GIS application. He has worked extensively with hydrologic models and has comprehensive working knowledge of HEC1, HEC2, HECRAS, HEC-HMS, HYDRAIN, STORM, SWMM, TR55, WSPRO, SMS, UNET, TABS, RMAX & SED2D, WQRRS, BASINS, QUAL-2E. Dr. Sade will assume the role of Environmental Engineer for this project.</p> <p>Duvic Drainage Study and Pump Station Improvements Plaquemines Parish, LA</p> <p>The project included bank stabilization and the design and installation of a new HS20-44 rated concrete bridge on Duvic Canal allowing heavy equipment to approach the flood wall and the drainage pump station for repair work. Environmental Permits were prepared and submitted to the Corps of Engineers. Pre-Application discussions were engaged in with all participating regulatory agencies to obtain comments and make application adjustments as required. Geotechnical analysis of the native soils to determine foundation requirements, pile loading, and bedding requirements for improvements was obtained and analyzed by PEEC. Our firm provided the preliminary and final design, plans and specifications, permitting, and managed the construction phase of this project. Dr. Sade was responsible for environmental permitting and environmental impact assessment.</p>

TEC Professional Services Questionnaire

Stephensville Drainage Study and Drainage System Improvements

St. Martin Parish, LA

This community incurs flooding on a regular basis as a result of heavy rainfall events and backwater flooding from the Atchafalaya River and coastal storm surge from the Gulf of Mexico. The Parish received FEMA Hazard Mitigation funds to protect the area and install a new drainage pump station to handle flooding. PEEC was contracted to conduct the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), and prepare the technical report, preliminary plans, cost analysis, final design, and obtain all environmental permits. The drainage system improvements included a water tight system for all sewer manholes to prevent water from intruding the wastewater treatment system; installation of a flap gate at each of the outfalls to prevent flooding from reverse water flow in existing catch basins and outfalls when waterways rise; increasing pumping capacity of existing pump station by lining the sump area, reinforcing walls with sheet piling and replacing the existing pump with a larger capacity pump; installing 1,800 feet of sheet piles to the north side of the canal and a new drainage pump station designed for 160 CFS. Dr. Sade was responsible for environmental permitting and environmental impact assessment.

District 1 Drainage Study and Drainage Improvements

Lafourche Parish, LA

During Hurricane Gustav the high tides, coupled with the heavy rainfall, forced storm waters back into the discharge pipes causing the pumps to operate improperly. As a result, pumps located in portions of Central Lafourche were forced to pump longer to decrease the water level on the outside of the system to allow the District 1 of 12 Pump Stations to pump water through the discharge pipe and relieve the standing water on the inside of the system. Lafourche Parish received funding under the CDBG Disaster Recovery Program to improve the existing pump stations in Drainage District 1. Environmental permits were prepared and submitted to the LA Corps of Engineers. Pre-Application discussions were engaged in with all participating regulatory agencies to obtain comments and make application adjustments as required. PEEC provided the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), preliminary plans, cost analysis, and final design. The design of the project includes installing 250 LF of steel sheet pile on both sides of an existing drainage levee to eliminate further erosion; installing 100 LF of 24" discharge pipe; 100 LF of 36" discharge pipe; 100 LF of 48" discharge pipe; rehabilitate existing pumps and engines; installing new trash screen to eliminate discharge of debris into the drainage canal; and installing new 24" electric pump, engine, and discharge pipe to increase the pumping capacity from 30,000 GPM to 60,000 GPM. Dr. Sade was responsible for environmental permitting and environmental impact assessment.

District 2 Drainage Study and Drainage Improvements

Lafourche Parish, LA

Lafourche Parish received funding under the CDBG Disaster Recovery Program to improve the existing pump stations in Drainage District 2. Due to age and deterioration of this pump station holes have formed in the discharge pipes. During Hurricane Gustav the pump station was not able to produce the necessary pumping capacity needed to relieve the standing water on the inside of the system. The many holes in the discharge pipe allow water to escape from the pipe before it reaches the outside of the system, thereby defeating the purpose of the pumps. Environmental permits were prepared and submitted to the LA Corps of Engineers. Pre-Application discussions were engaged in with all participating regulatory agencies to obtain comments and make application adjustments as required. PEEC provided the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), preliminary plans, cost analysis, and final design. The design of the project includes installing 200 LF of new 36" discharge pipe; rehabilitating the existing pumps and engines; installing a new trash screen to eliminate the discharge of debris into the drainage canal; installing new hand rail and lighting system to ensure worker safety; and refurbishing and installing Parish owned 48" pump. Dr. Sade was responsible for environmental permitting and environmental impact assessment.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Wes Faulkner, P.E.
Project Assignment:
Electrical Engineer
Name of Firm with which associated:
Professional Engineering and Environmental Consultants, Inc.
Years' experience with this Firm:
17
Education: Degree(s)/Year/Specialization:
B.S., 1964, Electrical Engineering, Louisiana State University
Active registration: Year first registered/discipline:
1966, Electrical Engineering, Louisiana No. 10110
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Faulkner has over 35 years of experience designing lighting, power and control systems for commercial and industrial facilities. Past project facilities include water and wastewater treatment plants, pump stations, lift stations, hospitals, office buildings, and schools. Mr. Faulkner is also experienced in preparing contract documents, plans and specifications, cost estimates, and providing construction management. Mr. Faulkner joined the team of Professional Engineering and Environmental Consultants, Inc. in 2005 as the Electrical and Mechanical Engineer and has been responsible for the Mechanical, Electrical, Piping & Plumbing design of several Jefferson Parish government and also Jefferson Parish School board projects. Mr. Faulkner will assume the role of Electrical Engineer for this project.</p>
<p>District 1 Drainage Study and Drainage Improvements Lafourche Parish, LA Lafourche Parish received funding under the CDBG Disaster Recovery Program to improve the existing pump stations in Drainage District 1. Environmental permits were prepared and submitted to the LA Corps of Engineers. PEEC provided the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), preliminary plans, cost analysis, and final design. The design of the project includes installing 250 LF of steel sheet pile on both sides of an existing drainage levee to eliminate further erosion; installing 100 LF of 24" discharge pipe; 100 LF of 36" discharge pipe; 100 LF of 48" discharge pipe; rehabilitate existing pumps and engines; installing new trash screen to eliminate discharge of debris into the drainage canal; and installing new 24" electric pump, engine, and discharge pipe to increase the pumping capacity from 30,000 GPM to 60,000 GPM. Mr. Faulkner was responsible for electrical systems, electrical specifications, automatic transfer switches, diesel generator sets, and cost analysis.</p>
<p>District 2 Drainage Study and Drainage Improvements Lafourche Parish, LA Lafourche Parish received funding under the CDBG Disaster Recovery Program to improve the existing pump stations in Drainage District 2. During Hurricane Gustav the pump station was not able to produce the necessary pumping capacity needed to relieve the standing water on the inside of the system. The many holes in the discharge pipe allow water to escape from the pipe before it reaches the outside of the system, thereby defeating the purpose of the pumps. PEEC provided the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), preliminary plans, cost analysis, and final design. The design of the project includes installing 200 LF of new 36" discharge pipe; rehabilitating the existing pumps and engines; installing a new trash screen to eliminate the discharge of debris into the drainage canal; installing new hand rail and lighting system to ensure worker safety; and refurbishing and installing Parish owned 48" pump. Mr. Faulkner was responsible for electrical systems, electrical specifications, automatic transfer switches, diesel generator sets, and cost analysis.</p>

TEC Professional Services Questionnaire

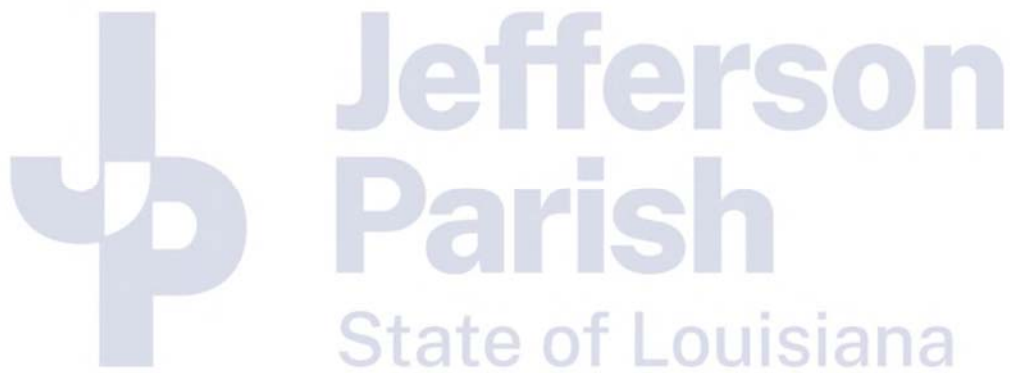
KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Al Almassi
Project Assignment:
Civil Engineer
Name of Firm with which associated:
Professional Engineering and Environmental Consultants, Inc.
Years' experience with this Firm:
26
Education: Degree(s)/Year/Specialization:
B.S., Civil Engineering, University of New Orleans, 1983
Active registration: Year first registered/discipline:
P.E. Texas
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Almassi is a Civil Engineer with over (30) years of experience in various aspects of the civil and environmental engineering fields. His experience includes: hydraulic analysis, environmental permitting, hydrologic study, topographic survey, creating plans and specifications, and construction administration. Mr. Almassi will assume the role of Civil Engineer for this project.</p> <p>West First Street and Belle Chasse N.A.S. Joint Reserve Military Air Base Drainage Study and Drainage Improvements Belle Chasse, LA PEEC was contracted by Plaquemines Parish Government to study the runoff effects of recent improvements to the West First Street Canal made on the Naval Air Base in Belle Chasse, LA. The focus of this study was to determine the cause of local erosion in the canal and design a drainage system to improve the existing condition. With the topographic information in hand, PEEC constructed a model of the drainage patterns of the area utilizing HEC-HMS. HEC-RAS was used to analyze the effects of a possible increase of discharge into local drainage ditches. To address this issue, PEEC designed the conversion of the existing earthen canal to a concrete slope-paved canal to handle the increased discharge into the system and prevent future erosion. Mr. Almassi was responsible for construction administration which included: the hydraulic calculations, review of shop drawings and contractor submittals, calculating quantities, and coordinating the final inspection.</p> <p>Duvic Drainage Study and Pump Station Improvements Plaquemines Parish, LA PEEC developed an innovative design for a new permanent crane structure attached to the existing pump station structure that would allow the drainage department to remove the 6-foot diameter suction assemblies whenever the need for repairs arose. The crane could also be used for lifting equipment onto the pump station deck. The project included bank stabilization and the design and installation of a new HS20-44 rated concrete bridge on Duvic Canal allowing heavy equipment to approach the flood wall and the drainage pump station for repair work. PEEC researched and analyzed the original design and construction of the pump station to determine strength and allowable loading on the existing structure. Geotechnical analysis of the native soils to determine foundation requirements, pile loading, and bedding requirements for improvements was obtained and analyzed by PEEC. Our firm provided the preliminary and final design, plans and specifications, permitting, and managed the construction phase of this project. Mr. Almassi was responsible for review of shop drawings and contractor submittals, calculating quantities, and coordinating the final inspection.</p>

TEC Professional Services Questionnaire

District 2 Drainage Study and Drainage Improvements

Lafourche Parish, LA

Lafourche Parish received funding under the CDBG Disaster Recovery Program to improve the existing pump stations in Drainage District 2. Due to age and deterioration of this pump station holes have formed in the discharge pipes. During Hurricane Gustav the pump station was not able to produce the necessary pumping capacity needed to relieve the standing water on the inside of the system. The many holes in the discharge pipe allow water to escape from the pipe before it reaches the outside of the system, thereby defeating the purpose of the pumps. Environmental permits were prepared and submitted to the LA Corps of Engineers. Pre-Application discussions were engaged in with all participating regulatory agencies to obtain comments and make application adjustments as required. PEEC provided the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), preliminary plans, cost analysis, and final design. The design of the project includes installing 200 LF of new 36" discharge pipe; rehabilitating the existing pumps and engines; installing a new trash screen to eliminate the discharge of debris into the drainage canal; installing new hand rail and lighting system to ensure worker safety; and refurbishing and installing Parish owned 48" pump. Mr. Almassi was responsible for the preparation of plans and specifications, hydraulic calculations, design of the new system, construction inspection, and obtaining all necessary permits.



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Jeff Meyers
Project Assignment:
Project Manager
Name of Firm with which associated:
Professional Engineering and Environmental Consultants, Inc.
Years' experience with this Firm:
17
Education: Degree(s)/Year/Specialization:
Associates in Drafting and Design, Southeastern Louisiana University, 1999
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Meyers has been the Project Manager and Designer for several Civil and Structural engineering projects with PEEC. His responsibilities include managing the design team, coordination with the client, coordination and design of the project including data conversion, computer mapping, field investigation, and the historical review of the site; supervision of the construction phase, preparation of the specifications, cost analysis, and preparation of operation and maintenance manuals, and regulatory negotiations for obtaining the required permits. Mr. Meyers will assume the role of Project Manager for this project.</p> <p>Stephensville Drainage Study and Drainage System Improvements St. Martin Parish, LA The Parish received FEMA Hazard Mitigation funds to protect the area and install a new drainage pump station to handle flooding. PEEC was contracted to conduct the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), and prepare the technical report, preliminary plans, cost analysis, final design, and obtain all environmental permits. The drainage system improvements included a water tight system for all sewer manholes to prevent water from intruding the wastewater treatment system; installation of a flap gate at each of the outfalls to prevent flooding from reverse water flow in existing catch basins and outfalls when waterways rise; increasing pumping capacity of existing pump station by lining the sump area, reinforcing walls with sheet piling and replacing the existing pump with a larger capacity pump; installing 1,800 feet of sheet piles to the north side of the canal and a new drainage pump station designed for 160 CFS. Mr. Meyers was responsible for the topographical surveying, cost analysis, preparation of the drawings and specifications, coordination and design of the project including data conversion, computer mapping, field investigation, and coordination of this project with the client.</p> <p>Primrose (Ellington) Canal Road Crossing Drainage Study and Culvert Replacement St. Charles Parish, LA PEEC provided engineering services to replace priority road crossing culverts along Primrose Canal. Most of the culverts along this canal were old, failing, undersized, and needed replacing. During significant rainfall events, reduced drainage capacity has resulted in street flooding along with several homes flooded in adjacent subdivisions. Our firm was responsible for preliminary and final design, bidding, construction management, close out and construction inspection services. Mr. Meyers was responsible for the topographical surveying, cost analysis, preparation of the drawings and specifications, coordination and design of the project including data conversion, computer mapping, field investigation, and coordination of this project with the client.</p>

TEC Professional Services Questionnaire

District 1 Drainage Study and Drainage Improvements

Lafourche Parish, LA

During Hurricane Gustav the high tides, coupled with the heavy rainfall, forced storm waters back into the discharge pipes causing the pumps to operate improperly. As a result, pumps located in portions of Central Lafourche were forced to pump longer to decrease the water level on the outside of the system to allow the District 1 of 12 Pump Stations to pump water through the discharge pipe and relieve the standing water on the inside of the system. Lafourche Parish received funding under the CDBG Disaster Recovery Program to improve the existing pump stations in Drainage District 1. Environmental permits were prepared and submitted to the LA Corps of Engineers. Pre-Application discussions were engaged in with all participating regulatory agencies to obtain comments and make application adjustments as required. PEEC provided the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), preliminary plans, cost analysis, and final design. The design of the project includes installing 250 LF of steel sheet pile on both sides of an existing drainage levee to eliminate further erosion; installing 100 LF of 24" discharge pipe; 100 LF of 36" discharge pipe; 100 LF of 48" discharge pipe; rehabilitate existing pumps and engines; installing new trash screen to eliminate discharge of debris into the drainage canal; and installing new 24" electric pump, engine, and discharge pipe to increase the pumping capacity from 30,000 GPM to 60,000 GPM. Mr. Meyers was responsible for the topographical surveying, cost analysis, preparation of the drawings and specifications, coordination and design of the project including data conversion, computer mapping, field investigation, and coordination of this project with the client.

District 2 Drainage Study and Drainage Improvements

Lafourche Parish, LA

Lafourche Parish received funding under the CDBG Disaster Recovery Program to improve the existing pump stations in Drainage District 2. Due to age and deterioration of this pump station holes have formed in the discharge pipes. During Hurricane Gustav the pump station was not able to produce the necessary pumping capacity needed to relieve the standing water on the inside of the system. The many holes in the discharge pipe allow water to escape from the pipe before it reaches the outside of the system, thereby defeating the purpose of the pumps. Environmental permits were prepared and submitted to the LA Corps of Engineers. Pre-Application discussions were engaged in with all participating regulatory agencies to obtain comments and make application adjustments as required. PEEC provided the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), preliminary plans, cost analysis, and final design. The design of the project includes installing 200 LF of new 36" discharge pipe; rehabilitating the existing pumps and engines; installing a new trash screen to eliminate the discharge of debris into the drainage canal; installing new hand rail and lighting system to ensure worker safety; and refurbishing and installing Parish owned 48" pump. Mr. Meyers was responsible for the topographical surveying, cost analysis, preparation of the drawings and specifications, coordination and design of the project including data conversion, computer mapping, field investigation, and coordination of this project with the client.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
James Blanchard
Project Assignment:
Project Administrator
Name of Firm with which associated:
Professional Engineering and Environmental Consultants, Inc.
Years' experience with this Firm:
11
Education: Degree(s)/Year/Specialization:
B.G.S./2001 University of New Orleans/Science
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>As Project Administrator, Mr. Blanchard is responsible for permitting; preparing front end and technical specifications; compliance with guidelines, specifications, and bidding documents; coordinating the contractor bid process; coordinating with the engineer(s) and clients; reconciling any issues with residents and parish officials; project administration; and historical data research. Mr. Blanchard will fulfill this role on this project.</p> <p>Stephensville Drainage Study and Drainage System Improvements St. Martin Parish, LA The Parish received FEMA Hazard Mitigation funds to protect the area and install a new drainage pump station to handle flooding. PEEC was contracted to conduct the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), and prepare the technical report, preliminary plans, cost analysis, final design, and obtain all environmental permits. The drainage system improvements included a water tight system for all sewer manholes to prevent water from intruding the wastewater treatment system; installation of a flap gate at each of the outfalls to prevent flooding from reverse water flow in existing catch basins and outfalls when waterways rise; increasing pumping capacity of existing pump station by lining the sump area, reinforcing walls with sheet piling and replacing the existing pump with a larger capacity pump; installing 1,800 feet of sheet piles to the north side of the canal and a new drainage pump station designed for 160 CFS. Mr. Blanchard was responsible for preparation of project specifications, compliance with project specifications, coordinating contractor bid process, tallying bids, historical data review, applying for permits, and project administration.</p> <p>Primrose (Ellington) Canal Road Crossing Drainage Study and Culvert Replacement St. Charles Parish, LA PEEC provided engineering services to replace priority road crossing culverts along Primrose Canal. During significant rainfall events, reduced drainage capacity has resulted in street flooding along with several homes flooded in adjacent subdivisions. Our firm was responsible for preliminary and final design, bidding, construction management, close out and construction inspection services. Mr. Blanchard was responsible for preparation of project specifications, compliance with project specifications, coordinating contractor bid process, tallying bids, applying for permits, and project administration.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Stephen Blaskey, P.L.S.
Project Assignment:
Lead Surveyor
Name of Firm with which associated:
Professional Engineering and Environmental Consultants, Inc.
Years' experience with this Firm:
11
Education: Degree(s)/Year/Specialization:
B.S./ 2004 Texas A&M University – Corpus Christi/Geographic Information Science with a Specialization in Geomatics
Active registration: Year first registered/discipline:
Louisiana P.L.S. License No. 5107 – Land Surveyor
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Blaskey has over nine years of experience as Surveyor for PEEC, Inc. His responsibilities include surveying operations, boundary calculations, and use of GIS software. Mr. Blaskey will assume the role of Land Surveyor and provide all necessary surveying.</p> <p>Stephensville Drainage Study and Drainage System Improvements St. Martin Parish, LA The Parish received FEMA Hazard Mitigation funds to protect the area and install a new drainage pump station to handle flooding. PEEC was contracted to conduct the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), and prepare the technical report, preliminary plans, cost analysis, final design, and obtain all environmental permits. The drainage system improvements included a water tight system for all sewer manholes to prevent water from intruding the wastewater treatment system; installation of a flap gate at each of the outfalls to prevent flooding from reverse water flow in existing catch basins and outfalls when waterways rise; increasing pumping capacity of existing pump station by lining the sump area, reinforcing walls with sheet piling and replacing the existing pump with a larger capacity pump; installing 1,800 feet of sheet piles to the north side of the canal and a new drainage pump station designed for 160 CFS. Mr. Blaskey's responsibilities included elevation surveys, boundary calculations, and identifying existing pipelines located at the project site.</p> <p>Primrose (Ellington) Canal Road Crossing Drainage Study and Culvert Replacement St. Charles Parish, LA PEEC provided engineering services to replace priority road crossing culverts along Primrose Canal. Most of the culverts along this canal were old, failing, undersized, and needed replacing. During significant rainfall events, reduced drainage capacity has resulted in street flooding along with several homes flooded in adjacent subdivisions. Our firm was responsible for preliminary and final design, bidding, construction management, close out and construction inspection services. Mr. Blaskey's responsibilities included elevation surveys, boundary calculations, and identifying existing pipelines located at the project site.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Derek Pinkley
Project Assignment:
Estimator
Name of Firm with which associated:
Professional Engineering and Environmental Consultants, Inc.
Years' experience with this Firm:
12
Education: Degree(s)/Year/Specialization:
B.S. in Computer Science American International University
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>As the Estimator, Mr. Pinkley is responsible for gathering information and requirements, reviewing preliminary plans, and updating plans and specifications using AutoCAD and Microsoft software programs. Mr. Pinkley will fulfill this role on this project.</p> <p>Stephensville Drainage Study and Drainage System Improvements St. Martin Parish, LA The Parish received FEMA Hazard Mitigation funds to protect the area and install a new drainage pump station to handle flooding. PEEC was contracted to conduct the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), and prepare the technical report, preliminary plans, cost analysis, final design, and obtain all environmental permits. The drainage system improvements included a water tight system for all sewer manholes to prevent water from intruding the wastewater treatment system; installation of a flap gate at each of the outfalls to prevent flooding from reverse water flow in existing catch basins and outfalls when waterways rise; increasing pumping capacity of existing pump station by lining the sump area, reinforcing walls with sheet piling and replacing the existing pump with a larger capacity pump; installing 1,800 feet of sheet piles to the north side of the canal and a new drainage pump station designed for 160 CFS. Mr. Pinkley was responsible for plans and specifications associated with this project, calculating quantities and estimates, and preparing all needed documentation for advertising the project and the bid phase.</p> <p>Primrose (Ellington) Canal Road Crossing Drainage Study and Culvert Replacement St. Charles Parish, LA PEEC provided engineering services to replace priority road crossing culverts along Primrose Canal. During significant rainfall events, reduced drainage capacity has resulted in street flooding along with several homes flooded in adjacent subdivisions. Our firm was responsible for preliminary and final design, bidding, construction management, close out and construction inspection services. Mr. Pinkley was responsible for plans and specifications associated with this project, calculating quantities and estimates, and preparing all needed documentation for advertising the project and the bid phase.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Larry Vicari
Project Assignment:
Construction Inspector
Name of Firm with which associated:
Professional Engineering and Environmental Consultants, Inc.
Years' experience with this Firm:
10
Education: Degree(s)/Year/Specialization:
Southeastern Louisiana University Continuing Education
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>As a Construction Inspector, Mr. Vicari has been responsible for investigating the construction work at all stages to identify problems, report potential problems and take timely action to solve problems, and ensure completion of the project in a timely manner. Mr. Vicari will fulfill the role of Construction Inspector on this project.</p> <p>Primrose (Ellington) Canal Road Crossing Drainage Study and Culvert Replacement St. Charles Parish, LA PEEC provided engineering services to replace priority road crossing culverts along Primrose Canal. Most of the culverts along this canal were old, failing, undersized, and needed replacing. During significant rainfall events, reduced drainage capacity has resulted in street flooding along with several homes flooded in adjacent subdivisions. With the available grant funding, PEEC was authorized to replace as many as possible, properly sized culverts capable of handling a 100-year rain event. Our firm was responsible for preliminary and final design, bidding, construction management, close out and construction inspection services. Mr. Vicari's responsibilities included observing and investigating construction at all stages to identify problems, report potential problems and takes timely action to solve problems; and inspecting all work in progress to ensure construction is in compliance with project plans and specifications.</p> <p>Canal 10 Drainage Study and Culvert Replacement St. Charles Parish, LA PEEC provided engineering services to replace west bank high priority road crossing culverts. Many of these culverts located on large canals are either too small or have reached the end of their usual life. Engineering services included conducting a drainage study, determining appropriate size of replacements, design, bidding, and construction management. Mr. Vicari's responsibilities included observing and investigating construction at all stages to identify problems, report potential problems and takes timely action to solve problems; and inspecting all work in progress to ensure construction is in compliance with project plans and specifications.</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:	
Primrose (Ellington) Canal Road Crossing Drainage Study and Culvert Replacement St. Charles Parish, LA St. Charles Parish Government 301 Third Street Luling, LA 70070 Sam Scholle (985) 783-5102	Engineering design of the entire project, hydraulic modeling, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2015	\$2,000,000	\$2,000,000

Project Description

PEEC provided engineering services to replace priority road crossing culverts along Primrose Canal. Most of the culverts along this canal were old, failing, undersized, and needed replacing. During significant rainfall events, reduced drainage capacity has resulted in street flooding along with several homes flooded in adjacent subdivisions. With the available grant funding, PEEC was authorized to replace as many as possible, properly sized culverts capable of handling a 100-year rain event. Our firm was responsible for the drainage study, hydraulic modeling, preliminary and final design, bidding, construction management, close out and construction inspection services.



TEC Professional Services Questionnaire

PROJECT NO. 2		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Stephensville Drainage Study and Drainage System Improvements St. Martin Parish, LA St. Martin Parish Government 301 West Port Street St. Martinville, LA 70582 Guy Cormier (337) 342-3995	Engineering design of the entire project, hydraulic modeling, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020	\$3,100,000	\$3,100,000

Project Description

This community incurs flooding on a regular basis as a result of heavy rainfall events and backwater flooding from the Atchafalaya River and coastal storm surge from the Gulf of Mexico. The Parish received FEMA Hazard Mitigation funds to protect the area and install a new drainage pump station to handle flooding. PEEC was contracted to conduct the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), and prepare the technical report, preliminary plans, cost analysis, final design, and obtain all environmental permits.

The drainage system improvements included a water tight system for all sewer manholes to prevent water from intruding the wastewater treatment system; installation of a flap gate at each of the outfalls to prevent flooding from reverse water flow in existing catch basins and outfalls when waterways rise; increasing pumping capacity of existing pump station by lining the sump area, reinforcing walls with sheet piles and replacing the existing pump with a larger capacity pump; installing 1,800 feet of sheet piles to the north side of the canal and a new drainage pump station designed for 160 CFS.



BAYOU ESTATE DRAINAGE IMPROVEMENTS

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
District 1 Drainage Study and Drainage Improvements Lafourche Parish, LA Lafourche Parish Government 402 Green Street Thibodaux, LA 70301 Don Edwards (985) 696-5846	Engineering design of the entire project, hydraulic modeling, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2014	\$1,350,000	\$1,350,000

Project Description

During Hurricane Gustav the high tides, coupled with the heavy rainfall, forced storm waters back into the discharge pipes causing the pumps to operate improperly. As a result, pumps located in portions of Central Lafourche were forced to pump longer to decrease the water level on the outside of the system to allow the District 1 of 12 Pump Stations to pump water through the discharge pipe and relieve the standing water on the inside of the system. Lafourche Parish received funding under the CDBG Disaster Recovery Program to improve the existing pump stations in Drainage District 1. Environmental permits were prepared and submitted to the LA Corps of Engineers. Pre-Application discussions were engaged in with all participating regulatory agencies to obtain comments and make application adjustments as required. PEEC provided the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), preliminary plans, cost analysis, and final design. The design of the project includes installing 250 LF of steel sheet pile on both sides of an existing drainage levee to eliminate further erosion; installing 100 LF of 24" discharge pipe; 100 LF of 36" discharge pipe; 100 LF of 48" discharge pipe; rehabilitate existing pumps and engines; installing new trash screen to eliminate discharge of debris into the drainage canal; and installing new 24" electric pump, engine, and discharge pipe to increase the pumping capacity from 30,000 GPM to 60,000 GPM.



TEC Professional Services Questionnaire

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
District 2 Drainage Study and Drainage Improvements Lafourche Parish, LA Lafourche Parish Government 402 Green Street Thibodaux, LA 70301 Don Edwards (985) 696-5846	Engineering design of the entire project, hydraulic modeling, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2014	\$1,395,000	\$1,395,000

Project Description

Lafourche Parish received funding under the CDBG Disaster Recovery Program to improve the existing pump stations in Drainage District 2. Due to age and deterioration of this pump station holes have formed in the discharge pipes. During Hurricane Gustav the pump station was not able to produce the necessary pumping capacity needed to relieve the standing water on the inside of the system. The many holes in the discharge pipe allow water to escape from the pipe before it reaches the outside of the system, thereby defeating the purpose of the pumps. Environmental permits were prepared and submitted to the LA Corps of Engineers. Pre-Application discussions were engaged in with all participating regulatory agencies to obtain comments and make application adjustments as required. PEEC provided the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), preliminary plans, cost analysis, and final design.

The design of the project includes installing 200 linear feet of new 36" discharge pipe; rehabilitating the existing pumps and engines; installing a new trash screen to eliminate the discharge of debris into the drainage canal; installing new hand rail and lighting system to ensure worker safety; and refurbishing and installing a Parish-owned 48" pump. This project also included installing 250 feet of steel sheet pile on both sides of the existing drainage canal to eliminate erosion.



TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
West First Street and Belle Chasse N.A.S. Joint Reserve Military Air Base Drainage Study and Drainage Improvements Belle Chasse, LA Plaquemines Parish Government 102 Avenue G Belle Chasse, LA 70037 Ken Dugas (504) 297-5343	Engineering design of the entire project, hydraulic modeling, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2009	\$11,000,000	\$11,000,000

Project Description

PEEC, Inc. was contracted by Plaquemines Parish Government to study the runoff effects of recent improvements to the West First Street Canal made on the Naval Air Base in Belle Chasse, LA. The Parish and the Air Base agreed to conduct a computer modeling and analysis of the drainage basin and improve the West First Street Drainage Canal. The focus of this study was to determine the cause of local erosion in the canal and design a drainage system to improve the existing condition. The Parish and the Air Base have a contract which indicates the amount the Air Base shall pay the Parish annually for runoff originating on the Air Base draining into Parish canals. The Contract had not been modified for improvements or inflation since 1978.

With the topographic information in hand, PEEC, Inc. constructed a model of the drainage patterns of the area utilizing HEC-HMS. HECRAS was used to analyze the effects of a possible increase of discharge into local drainage ditches. The computer model indicated that the runoff calculations that were used for the contract were considerably lower than the figures that should have been used. To address this issue, our firm designed the conversion of the existing earthen canal to a concrete slope-paved canal to handle the increased discharge into the system and prevent future erosion.



TEC Professional Services Questionnaire

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Oak Street Drainage Study St. Charles Parish, LA St. Charles Parish Government 301 Third Street Luling, LA 70070 Sam Scholle (985) 783-5102	Engineering design of the entire project, hydraulic modeling, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2010	\$2,000,000	\$2,000,000

Project Description

PEEC, Inc. was authorized to proceed with the Drainage Impact Study of the Oak Street Drainage Area. PEEC conducted several field investigations of the project site and utilized LIDAR mapping from the LSU Atlas site to create the overall drainage map of the project location both up and down stream. This mapping, coupled with the field visits by our staff, was sufficient to give us an understanding of the overland and subsurface flows to the intersection of Oak Street and Butternut Street and along Julia Street in Hahnville, LA. The purpose of this Analysis was to determine the recommended size of the culverts to be placed in the ditch that traverses from the intersection of Butternut and Oak Streets to the southeast a distance of approximately 486 LF in total. The total length includes a run of 18" CMP approximately 325 LF and a run of 36" CMP approximately 161 LF to the corner that turns the ditch southwest into a pasture. The study of this area consisted of a review of the Oak Street Drainage Basin that ultimately flows into the previously discussed ditch thru open ditches and subsurface drainage structures. These open ditches and subsurface drainage structures culminate at a series of 24" CMP's that cross Oak Street and Butternut streets to flow into the previous ditch. Also, within the scope of this analysis was the Julia Street Drainage Basin that flows into a subsurface 44"x27" RCPA that drains the area to the ditch to the southwest. PEEC, Inc. was able to determine that the recommended pipe size for the ditch at the end of Oak Street (flowing southeast from its intersection with Butternut) is to be a 36" RCP or RCPA equivalent. The recommended pipe size for the ditch at the end of Julia Street (the continuation of the previously discussed ditch) is to be a 54" RCP or RCPA equivalent.



TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Duvic Drainage Study and Pump Station Improvements Lower Plaquemines Parish, LA Plaquemines Parish Government 102 Avenue G Belle Chasse, LA 70037 Ken Dugas (504) 297-5343	Engineering design of the entire project, hydraulic modeling, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2007	\$2,500,000	\$2,500,000

Project Description

Due to Hurricane Katrina, the Plaquemines Parish Drainage Department must periodically rent very expensive crane equipment to remove the 6-foot diameter suction assemblies at the Duvic Drainage Pump Station for maintenance. The drainage department consulted with PEEC to determine if there was a viable alternative to crane rental for the repair of the suction assemblies. **PEEC developed an innovative design for a new permanent crane structure attached to the existing pump station structure that would allow the drainage department to remove the suction assemblies utilizing department staff whenever the need for repairs arose. The crane could also be used for lifting miscellaneous equipment onto the pump station deck.** PEEC researched and analyzed the original design and construction of the pump station to determine strength and allowable loading on the existing structure. PEEC was responsible for replacing the existing diesel engines and the gear, and redesign of the structural system including being able to remove the pumps and the engines for repair work. PEEC also designed the bar screen and a new WASKI bridge for this pump station.



TEC Professional Services Questionnaire

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Drainage Study and Stabilization of Tidewater Road Venice, LA Plaquemines Parish Government 102 Avenue G Belle Chasse, LA 70037 Ken Dugas (504) 297-5343	Engineering design of the entire project, hydraulic modeling, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2005	\$1,500,000	\$1,500,000

Project Description

Tidewater Road is located in Venice, LA. The road is approximately three miles long and serves as the only access to many offshore related businesses in the area. The average roadway elevation is 2.5' NGVD and is bordered by open water areas on both the north and south side. During high tide and wind events, the surrounding water has reached as high as 4.5' NGVD causing standing water of nearly 2 feet on the roadway. This has caused extremely dangerous driving conditions for the local residents, workers and emergency services. PEEC was contracted by Plaquemines Parish Government to analyze the existing situation and determine a solution to the flooding problem that would be both effective and economical for the Parish. PEEC performed historical data research of the tidal ranges and flood events over the past twenty years. PEEC also performed a topographic survey of the roadway. Additionally, a geotechnical investigation was conducted to determine soil consistency and load bearing capacity. Using the data collected and past experience with similar projects, PEEC analyzed four alternatives to alleviate the existing flood problem. Based on effectiveness and cost analysis, a preliminary design was developed which would place earthen levees on each side of the road with crowns at 5.0' NGVD. Along with the levees, a series of pump stations with backup generators were sized and spaced to remove rainwater from the roadway.



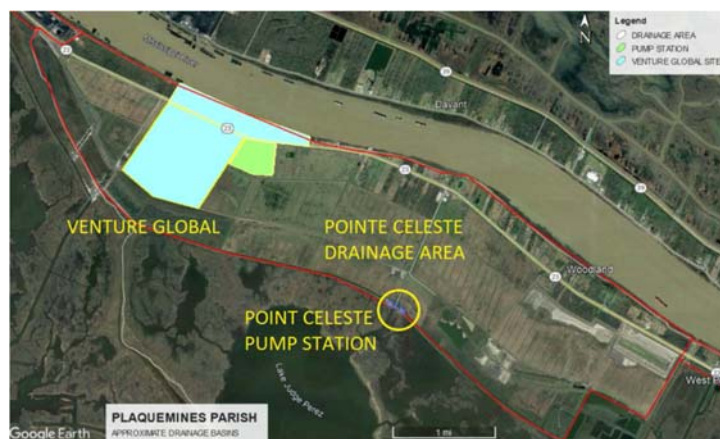
TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Point Celeste Basin Drainage Study Lower Plaquemines Parish, LA Venture Global LNG 1001 19 th Street North Suite 1500 Arlington, VA 22209 AJ Walker (202) 759-6740	Engineering design of the entire project, hydraulic modeling, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2022	\$20,000,000	\$20,000,000

Project Description

The proposed project will include the Global Venture site and the Point Celeste drainage basin in Plaquemines Parish. The area incurs flooding on a regular basis due to of heavy rainfall intensity causing backwater flooding from the conveyance canals leading to Pointe Celeste drainage pump station. Most of the flood events in the Point Celeste drainage area have been the direct result of significant rainfall events. These rainfall events may have been in conjunction with tropical weather, or just simply intense rainfall. We have seen the impacts on this region due to rainfall combined with storm surge, which has resulted in a major flooding condition. The basin is subject to the COE study for additional protection as part of New Orleans to Venice Hurricane protection system and possible improvements to the Pointe Celeste Drainage pump station. The area of the Point Celeste drainage basin is approximately 6000 acres.

PEEC is implementing a phased approach study: 1) Site drainage improvement system at Venture Global property to convey the flow to the edge of the property and prevent backflow flooding condition, 2) Install new drainage pump station at the corner of the Venture Global property specific to Venture Global Site, 3) Improvements needed to the back drainage canal to allow the flow to reach the Pointe Celeste canal properly, and 4) Rehabilitate existing Pointe Celeste Pump station.



TEC Professional Services Questionnaire

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Canal 10 Drainage Study and Culvert Replacement St. Charles Parish, LA St. Charles Parish Government 301 Third Street Luling, LA 70070 Sam Scholle (985) 783-5102	Engineering design of the entire project, hydraulic modeling, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2013	\$1,000,000	\$200,000


Project Description

PEEC provided engineering services to replace west bank high priority road crossing culverts. Many of these culverts located on large canals are either too small or have reached the end of their usual life. Engineering services included conducting a drainage study, determining appropriate size of replacements, design, bidding, and construction management.



TEC Professional Services Questionnaire

Work by PEEC, Inc. performed directly for or selected by Jefferson Parish

PROJECT NO. 1		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Lafitte Library Conversion to the Police Station Project No. 576-26-0028 (331) Jefferson Parish Government 1221 Elmwood Park Blvd. Harahan, LA 70123	Engineering design of the entire project, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2010	\$550,000	\$550,000
<p>The existing Library at the Town of Lafitte was damaged during Hurricane Katrina and the Parish decided to convert the existing library into a Police Station and construct a new library for the Town of Lafitte. PEEC obtained all necessary data and permits for this project prior to start of construction. PEEC was responsible for application services, preliminary and final design, project plans and specifications, permit approvals, opinion of total project costs, bidding services, construction administration, topographic surveying, geotechnical engineering, and construction inspection.</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;">   </div>		

TEC Professional Services Questionnaire

PROJECT NO. 2		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Central Avenue Waterline Phase II Project No. 2014-001-WR Jefferson Parish Government 1221 Elmwood Park Blvd. Harahan, LA 70123	Engineering design of the entire project, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2016	\$2,000,000	\$2,000,000

Jefferson Parish Government contracted with PEEC to design and install a 12-inch waterline from Karen Avenue to Jefferson Highway along Central Avenue. PEEC obtained topographic surveying and locations of current improvements and utilities located in the area. Geotechnical analysis of the native soils to determine foundation and bedding requirements for the needed waterline was also required. Utilizing this information, the design of a solution was underway. PEEC is responsible for preliminary and final design, project plans and specifications, permit approvals, opinion of total project costs, bidding services, construction administration, topographic surveying, geotechnical engineering, and construction inspection.



TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Mt. Kennedy Drainage Improvements Project No. 2008-035-DR Jefferson Parish Government 1221 Elmwood Park Blvd. Harahan, LA 70123	Engineering design of the entire project, hydraulic modeling, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2015	\$4,000,000	\$4,000,000

Mt. Kennedy is a residential street located on the Westbank of Jefferson Parish, LA. The residents in the area have experienced street flooding during typical rain events and house and automobile flooding during significant rain events. Jefferson Parish Government contracted with PEEC to analyze the situation and determine the best possible solution to the problem. PEEC obtained topographic surveying and locations of current improvements in the area including drainage size and utility location of the drainage area. Geotechnical analysis of the native soils to determine foundation and bedding requirements for any needed drainage upgrades was also required. Utilizing this information, the design of a solution was underway. With the topographic information in hand, PEEC constructed a model of the drainage patterns of the area utilizing HEC-HMS. HEC-RAS was used to analyze the effects of a possible increase of discharge into local drainage ditches. Upon analysis of the existing conditions, collected data and modeling results, PEEC determined the best, most economical solution to the problem. A proposed drainage structure large enough to handle the calculated flow of a ten-year storm with no ponding will be installed at the dead-end area. All undersized existing catch basins and drain lines will be removed and replaced with new RCP pipes and manholes along the existing right of way and outfall into an existing ditch.



TEC Professional Services Questionnaire

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Johnson Street Drainage Improvements Project No. 2003-038-DR Jefferson Parish Government 1221 Elmwood Park Blvd. Harahan, LA 70123	Engineering design of the entire project, hydraulic modeling, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2004	\$4,000,000	\$4,000,000

Johnson Street is a residential street located in Metairie, La. The end of the street dead-ends at the rear of a commercial facility. Since the development of the commercial facility, the residents in the area have experienced street flooding during typical rain events and house and automobile flooding during significant rain events. Jefferson Parish Government contracted with PEEC to analyze the situation and determine the best possible solution to the problem. PEEC obtained topographic surveying and locations of current improvements in the area including drainage size and utility location of the drainage area. Geotechnical analysis of the native soils to determine foundation and bedding requirements for any needed drainage upgrades was also required. Utilizing this information, the design of a solution was underway. With the topographic information in hand, PEEC constructed a model of the drainage patterns of the area utilizing HEC-HMS. HEC-RAS was used to analyze the effects of a possible increase of discharge into local drainage ditches. A portion of the proposed improvements had to be located within an existing railroad right of way. PEEC prepared all permit documentation in order to facilitate an entry agreement between Jefferson Parish Government and the Railroad company.

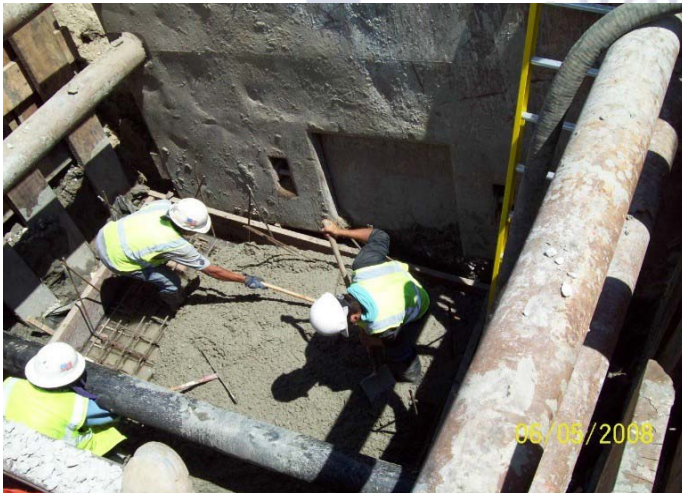
Phase I - Upon analysis of the existing conditions, collected data and modeling results, PEEC determined the best, most economical solution to the problem. A proposed drainage structure large enough to handle the calculated flow of a ten-year storm with no ponding was installed at the dead-end area. 1,250 feet of undersized existing catch basins and drain lines were removed and replaced with 42" RCP along the existing railroad right of way and outfall into an existing ditch. Phase II - Approximately 2,000 of 6x6 box culvert was placed into the existing outfall ditch to enhance flow and drainage of the entire drainage basin.



TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
6 th Street Drainage Improvements Jefferson Parish Government 1221 Elmwood Park Blvd. Harahan, LA 70123	Engineering design of the entire project, hydraulic modeling, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2008	\$300,000	\$300,000

6th Street is a residential street located in Marrero, La. The area has experienced street flooding during typical rain events and house and automobile flooding during significant rain events. Jefferson Parish Government contracted with PEEC to analyze the situation and determine the best possible solution to the problem. PEEC obtained topographic surveying and locations of current improvements in the area including drainage size and utility location of the drainage area. Geotechnical analysis of the native soils to determine foundation and bedding requirements for any needed drainage upgrades was also required. PEEC was responsible for application services, preliminary and final design, project plans and specifications, permit approvals, opinion of total project costs, bidding services, construction administration, topographic surveying, geotechnical engineering, and construction inspection.



TEC Professional Services Questionnaire

M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.		
Plaintiff:	Parties: Defendant:	Status/Result of Case:
1. NONE		
2.		
3.		
4.		
N. Use this space to provide any additional information or description of resources supporting Firm's qualifications for the proposed project.		
<p>1. Professional Qualifications: PEEC, Inc. is staffed with the right mix of engineers, technicians, administrators, and field personnel to successfully complete all types engineering projects. All the engineers listed are Louisiana certified registered engineers with extensive experience in their respective fields. The academic credentials of personnel range from B.S. to Ph.D. in civil, mechanical, electrical, structural, environmental engineering, land surveying, and in biological and geological sciences. Selected personnel also possess certification for underground storage tank (UST) closure, hazardous waste supervision, and as hazardous material technician. The CAD design department of PEEC, Inc. is well staffed with personnel with extensive experience in complex projects.</p> <p>2. Capacity for Timely Completion of Projects: The current work load of PEEC, Inc. is at the average level it has been for the past 3 years. Accordingly, with our track record of timely completion of projects, we feel that any proposed project will not pose any undue burden on the firm's resources. PEEC has completed all of its previous projects in a timely manner as directed by contract agreements.</p> <p>3. Quality Control Plan: PEEC has a Health, Safety, Security, and Environmental Policy (HSSE) in place in accordance with OSHA Standards and Regulations. Mo Saleh, M.S., P.E. (Principal) and Ron Guidry (President) are the Quality Control Managers for all projects. Their responsibilities in this position include manpower scheduling, budgeting, and technical oversight. Background research and engineering design performed by project engineers are checked by the QC Manager. Quality Control also includes verification of sample analysis results with expected value. All drafting output is checked by the QC Manager before submittal. Similarly, all surveying reports are checked, sealed, and signed by the registered land surveyor.</p> <p>4. PEEC, Inc. has all the necessary personnel with the appropriate qualifications and certifications to successfully complete the proposed project efficiently and within budget. As the following project list attests, PEEC has designed and managed numerous projects of similar size and type. The firm also possesses all the necessary computing, surveying, and office software to process field data and prepare design reports. PEEC has adequately trained personnel with extensive experience in the operation and field maintenance of all equipment.</p>		

TEC Professional Services Questionnaire

PEEC and its staff are experienced in completing FEMA funded projects and some of the similar projects are stated below:

1. Design and Computer Modeling for Master Drainage Plan in Belle Chasse.
2. Design of the Avenue G Pump Station in Plaquemines Parish.
3. Design of the Belle Chasse Drainage Pump Station in Plaquemines Parish.
4. Design of the Drainage Pump Stations in Grand Isle.
5. Design of the Drainage Pump Station for the City of Westwego.
6. Design of the Mt. Kennedy Drainage Improvements in Jefferson Parish.
7. Design of the Johnson Street Drainage Improvements in Jefferson Parish.
8. Design of the Dianne Pump Station Bar Screen in St. Charles Parish.

PEEC and its staff have extensive knowledge and experience in drainage projects. **PEEC has extensive experience in hydraulic modeling, watershed studies, impact studies, hydrologic surveying, and drainage work permitting.**

Some of these projects are stated below:

1. Hydraulic Modeling and Design of the Drainage System Improvements for Stephenville, LA in St. Martin Parish including the drainage pump stations, installing sheet piles, and design of an earthen levee system.
2. Hydraulic Modeling and Design of the Drainage System for the Town of Grand Isle, including the construction of the breakwaters and earthen levee system along with the drainage pump stations.
3. Hydraulic modeling and Design of the Drainage Improvements for the City of Westwego.
4. Harvey Canal Levee System Contingency Plan.
5. Hydraulic Modeling and Design of the Johnson Street Drainage Improvements in Jefferson Parish.
6. Hydraulic Modeling and Design of the Michael Drive Canal Improvements in St. Charles Parish.
7. Hydraulic Modeling and Design of the Willowdale Drainage Improvements in St. Charles Parish
8. Hydraulic Modeling and Design of the Primrose Drainage Improvements in St. Charles Parish
9. Hydraulic Modeling and Design of Canal Number 10 Drainage Improvements in St. Charles Parish
10. Hydraulic Modeling and Design of the Oak Street Drainage Study in St. Charles Parish
11. Hydraulic Modeling for the Master Drainage System for Belle Chasse Drainage Area in Plaquemines Parish
12. Hydraulic Modeling for the Master Drainage System for Engineers Road Drainage Area in Plaquemines Parish
13. Design of Bar Screen and Rake System for the Diane Pump Station in St. Charles Parish
14. Hydraulic Modeling and Drainage Design for Jesuit Bend Drainage Improvements in Plaquemines Parish
15. Hydraulic Modeling and Drainage Design for Main Street and Avenue G Drainage Improvements in Plaquemines Parish.

5. STATEMENT OF MAXIMUM FEE: PEEC's rates are established upon contract is awarded or per project but typically do not exceed 15% of the project's construction cost. PEEC will negotiate specific fees on a project-by-project basis with its clients.

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

Signature: Mo Saleh Print Name: Mo Saleh, M.S., P.E.

Title: Principal/Senior Project Engineer Date: March 31, 2022

LIST OF REFERENCES

PEEC has been in charge of numerous federally funded projects since 1993. PEEC has been under contract with parishes, municipalities, state agencies, and the private sector including the following (18) clients during the past ten years.

1. Jefferson Parish Government
1221 Elmwood Park Blvd.
Harahan, LA 70123
Mr. Reda Yusef
504-736-6774
2. Plaquemines Parish Government
106 Avenue G
Belle Chasse, LA 70037
Ken Dugas
504-297-5343
3. Texas Parks and Wildlife Department
1502 FM 517
Dickinson, TX 77539
Cherie O'Brien
281-534-0132
4. City of Westwego
419 Avenue A
Westwego, LA 70094
Mayor Joe Peoples
504-347-5745
5. Town of Grand Isle
P.O. Box 200
Grand Isle, LA 70358
Mayor David Camardelle
985-787-3196
6. Grand Isle Port Commission
P.O. Box 500
Grand Isle, LA 70358
Wayne Keller
985-787-2229
7. Grand Isle Levee Board
P.O. Box 757
Grand Isle, LA 70358
David Camardelle
985-787-3955

8. St. Charles Parish Government
301 Third Street
Luling, LA 70070
Sam Scholle
Director of Public Works/Wastewater
985-783-5102
9. St. Martin Parish Government
301 West Port Street
P.O. Box 9
St. Martinville, LA 70582
Guy Cormier
Parish President
337-394-2200
10. Town of Zwolle
P.O. Box 546
Zwolle, LA 71486
Mayor Roger Lopez
318-654-6141
11. St. Tammany Parish Government
P.O.Box628
Covington, LA 70434
Mr. Bill Oiler, CEO
985-898-2445
12. Town of Sarepta
P.O. Box 338
Sarepta, LA 71071
Mayor E. L. Edwards
318-847-4333
13. Port of South Louisiana
171 Belle Terre Boulevard
Laplace, LA 70068
Joel Chaisson
985-652-9278
14. St. Bernard Parish Government
1125 East St. Bernard Highway
Chalmette, LA 70043
Logan Martin
504-278-4317
15. City of Patterson
1314 Main Street
Patterson, LA 70392
Mayor Rodney Grogan
985-395-5205

Jefferson
Parish
State of Louisiana

16. City of Morgan City
512 1st Street
Morgan City, LA 70380
Mayor Frank Grizzaffi, III
985-385-1770
17. St. James Parish Government
1910 W. Main Street
Lutcher, LA 70071
Jody Chenier
Director of Operations
225-869-5642
18. City of Gretna
Mayor Ronnie C. Harris
P.O. Box 404
Gretna, LA 70054
504-363-1599



Jefferson
Parish
State of Louisiana



PROFESSIONAL ENGINEERING AND ENVIRONMENTAL CONSULTANTS, INC.

Engineers | Planners | Environmental Consultants



SERVICES

Since 1993, PEEC has provided a full range of professional engineering services to clients throughout the Gulf Coast region. Our technical team provides solutions to diverse engineering challenges, from civil and environmental engineering, to coastal restoration initiatives, to construction management. Our approach allows our clients to benefit from the latest technology, innovative solutions, and cost effective ideas. PEEC integrates the appropriate resources and technologies for each client, every time.

CUSTOMIZING PROJECTS TO FIT THE CLIENT'S NEEDS

Our team of experts performs in-depth feasibility studies that consider all aspects of the project. During this fact-finding phase, our team of experts analyze how the project will affect the environment and community stakeholders. This comprehensive review allows us to present options that truly match our clients' needs.

FINDING THE FUNDS TO MAKE PROJECTS HAPPEN

When necessary, our staff identifies state and federal funding sources and helps the client secure all needed grants and loans. This service has enabled many of our clients' projects to move from concept to reality.

MANAGING CONSTRUCTION TO ENSURE SUCCESS

Once our design has been completed and funding has been obtained, we monitor the construction process to make sure that the contractor implements the project in accordance with all approved plans. A pre-bid conference and monthly construction meetings with the contractor are all standard features of PEEC's construction management service. In this way, our staff keeps project construction on schedule and within budget.

MAXIMIZING RESOURCES THROUGH PROGRAM MANAGEMENT

In addition to construction of one-time projects, PEEC's team also takes a comprehensive look at client infrastructure and offers long-term strategies for making these systems work more efficiently. Our staff makes recommendations about revenue streams, links with economic development, options for improvement in energy efficiency, land use planning, and system operation and maintenance. For example, our assessment of the City of Westwego's sewerage system involved examination of fees, insurance rates, licensing needs, and employee management structure as well as technical recommendations for improving the system's effectiveness.

Civil Engineering

PEEC has a proven track record of providing the infrastructure that Gulf Coast communities need. Our diverse and experienced staff is skilled in civil, electrical, mechanical, and construction management, enabling us to direct projects from inception to completion.

Clients

- | | |
|------------------------------|----------------------|
| ▣ St. Tammany Parish | ▣ City of Westwego |
| ▣ Grand Isle Levee Board | ▣ Town of Grand Isle |
| ▣ Grand Isle Port Commission | ▣ Town of Zwolle |
| ▣ Plaquemines Parish | ▣ Jefferson Parish |
| ▣ West Jefferson Levee Board | ▣ St. Charles Parish |

Structural

Building strong, building smart — these are watchwords for new construction in the hurricane-prone Gulf Coast. PEEC's approach to structural projects ensures that the finished product exceeds the client's expectations — not just at the ribbon cutting but for many storm seasons to come.

Clients

- | | |
|---------------------------------|----------------------|
| ▣ City of Westwego | ▣ Town of Zwolle |
| ▣ Jefferson Parish | ▣ Town of Grand Isle |
| ▣ Jefferson Parish School Board | ▣ Plaquemines Parish |
| ▣ St. Tammany Parish | |



Drainage Pump Station — Belle Chasse, Louisiana

LONG-TERM PLANNING YIELDS RESULTS

In Belle Chasse, PEEC developed a master drainage plan using hydraulic modeling and aerial photography to analyze the community's needs. Our plan presented solutions for reducing flooding and preventing property damage. Once the plan was approved, PEEC designed and constructed several projects, including improvements to a major canal that drained the majority of the lower Belle Chasse drainage basin. Our design for slope paving stopped recurring flooding and protected nearby homes from subsidence caused by changes in the water table.

PROBLEM SOLVING IMPROVES PARISH PUMPING STATION

PEEC's upgrade of the drainage pumps in Plaquemines Parish required a fraction of the budget that other firms proposed. By constructing a steel frame inside the pumping station, among other methods, we were able not only to preserve the original building but keep the pumps in operation while a new diesel engine was installed. The frame was left in place so that the parish can use the same cost effective system whenever the station's engines need to be replaced.

Civil Engineering Services

- ▣ Drainage System
- ▣ Drainage System Design
- ▣ Stormwater Analysis
- ▣ Hydraulic Modeling
- ▣ Pump Station Design
- ▣ Roadway Design
- ▣ Levee System Design
- ▣ Site Development
- ▣ Local, State, and Federal Funding Assistance
- ▣ Construction Management



Parish Government Facility — St. Tammany Parish, Louisiana

PRIZE-WINNING DESIGN GIVES MAXIMUM FLEXIBILITY TO CLIENT

Our design and construction of the St. Tammany Parish Government facility won the 1999 Award for Excellence from Associated Builders and Contractors, Inc. Our steel frame design provided an attractive, versatile space that allows the parish to simultaneously use the building as a satellite center for a regional university, a library, and a medical facility.

HISTORICAL PROPERTY RETURNED TO COMMERCE

Our restoration of a former corner store into the Westwego Historical Museum converted a blighted property into the centerpiece of a new tourist district. PEEC completely restored the turn-of-the-century general store, furnished a period upstairs living quarters, and created a main exhibit area. Since opening its doors in 2000, the museum has welcomed thousands of visitors from around the world.

Structural Services

- ▣ Bridges — Wooden, Concrete, Steel, and Precast — Design and Construction Management
- ▣ Commercial Facility Design and Construction Management
- ▣ Industrial Facility Design and Construction Management
- ▣ Governmental Facilities and Complex Design and Construction Management and Repair

Environmental

We bring our expertise to bear on all of the Gulf Coast's most difficult environmental remediation and permitting challenges. Long-standing relationships with regulators allow us to expedite paperwork and pinpoint optimal grant sources, allowing our clients to focus less on red tape and more on improving quality of life for their customers and constituents.



Sludge Volume Reduction and Cleanup – City of Westwego

Environmental Services

- ▣ 404 Permit Acquisition
- ▣ Wetland Delineation Determination
- ▣ Environmental Impact Statement
- ▣ Environmental Impact Analysis
- ▣ Air Quality Permit
- ▣ MWPP
- ▣ MS4 Permit Acquisition
- ▣ NPDES/LPDES Acquisition
- ▣ Needs and Alternative Analysis
- ▣ Phase I and II Environmental Site Assessment
- ▣ Brownfield Assessment and Remediation

Clients

- ▣ Citrus Land Company
- ▣ City of Westwego
- ▣ City of Gretna
- ▣ CLL Limited Partnership, Ltd.
- ▣ Daybrook Fisheries
- ▣ Dixie Machine Welding and Metal Works, Inc.
- ▣ Grand Isle Port Commission
- ▣ St. Tammany Parish

BROWNFIELDS REDEVELOPMENT EXPANDS LOCAL ECONOMIES

PEEC secured \$1.5 million in total EPA Brownfields Funds for the Cities of Gretna and Westwego, Louisiana. Our staff followed up this fundraising success with action on the ground, converting formerly contaminated and abandoned properties into productive sites that are now used for a variety of industrial, recreational, and government uses. The former Malter Chemical site is now slated to be the site of an expanded McCormick Foods facility.

ASBESTOS REMOVAL ALLOWS EXTENSION OF VITAL ROADWAY

PEEC directed the removal of asbestos along a key traffic corridor in Gretna, Louisiana. Until our remediation was complete, a state financed extension of this corridor could not be completed.

ENVIRONMENTAL ASSESSMENT AND CLEANUP CONVERT EYESORE INTO VIABLE PROPERTY

PEEC worked with the City of Westwego and citizens to clean up a long-standing hazardous waste site. Now that underground storage tanks, illegal dumping spills, and other contaminated materials have been removed, the city is planning to use the property for the site of the new City Hall.



Wetland Creation Project – Galveston, Texas

BENEFICIAL USE OF DREDGED MATERIAL PROTECTS SENSITIVE TIDAL ECOSYSTEM

PEEC designed and constructed a 230-acre marsh creation project in Galveston Bay. Our team of experts created 47 half-acre mounds of dredged material planted with vegetation and protected the mounds with breakwaters made of geotubes. Galveston Bay experiences high wave action every day, and in 2008 Hurricane Gustav sent a tidal surge through the area. Our project remained intact despite the storm, while adjacent, unprotected marsh areas were destroyed.

TERRACING PROJECT CREATES NEW MARSH

An open water area just south of Port Arthur, Texas, Bessie Heights was once the site of healthy wetlands. PEEC restored 100 acres of marsh in Bessie Heights using dredged material arranged in terraces. The project was built in 2002 and remains structurally sound, despite the wave action created by Hurricanes Katrina, Rita, Gustav, and Ike. We expect that the project will eventually build more than 200 acres of wetlands.

BREAKWATER SYSTEM PROTECTS COAST WHILE ALLOWING NATURAL ECOSYSTEM FUNCTION

PEEC designed a four mile long breakwater system for Grand Isle with a special overlapping design that allows tidal fluctuations to pass through. At the same time, the breakwaters protect the island from storm surge and help reduce erosion. The project was built in 1998 and is functioning as designed despite numerous hits from severe hurricanes.

Coastal

With wetlands being lost every day and hurricanes arriving in force, the Gulf Coast is ground zero for coastal restoration. PEEC has been at the forefront of the movement to preserve the region's wetlands, and we have successfully implemented unique solutions in a variety of storm-prone habitats.

Coastal Services

- ▣ Marsh Creation
- ▣ Marsh Enhancement
- ▣ Marsh Protection
- ▣ Barrier Island Protection
- ▣ Levee System Design and Construction
- ▣ Levee System Upgrade and Repair
- ▣ Breakwater System Design and Construction
- ▣ Marsh Management

Clients

- ▣ Grand Isle Levee District
- ▣ Louisiana Department of Natural Resources
- ▣ Plaquemines Parish Government
- ▣ Texas Parks and Wildlife Department
- ▣ Town of Grand Isle



Breakwater System – Town of Grand Isle, Louisiana

Water

Sending water where it needs to go—PEEC has pioneered several techniques, now in use throughout the region, to make sure our clients have the water resources when and where they need them.



New Water Line – Town of Grand Isle, Louisiana

Water Services

- ▣ Hydrogeology/Groundwater Modeling
- ▣ Water Well Design
- ▣ Water Intake Structure Design, Construction, and Repair
- ▣ Water Treatment Services
- ▣ Water Distribution Systems
- ▣ Lake and Reservoir Water Quality Management
- ▣ Storm Water Permitting and Compliance
- ▣ Water Resources Management/Water Rights Strategies
- ▣ Water Supply Planning
- ▣ Watershed Management/Source Protection

Clients

- | | |
|----------------------|----------------------|
| ▣ City of Westwego | ▣ Town of Zwolle |
| ▣ Jefferson Parish | ▣ St. Charles Parish |
| ▣ Town of Grand Isle | ▣ Plaquemines Parish |



New Water Line – Town of Grand Isle, Louisiana

NEW WATER LINE BRINGS CLEAN WATER, ECONOMIC GROWTH TO TOWN

Grand Isle, Louisiana's only inhabited island, is a community of 1500 people that had no direct source of potable water. Residents were forced to purchase water, at high rates. A lack of potable water also made it difficult to accommodate the many tourists who visited the island. In 1999, PEEC installed a 32-mile water line that piped in treated Mississippi River water from Jefferson Parish to Grand Isle, using an innovative design that maximized the line's durability. Now the town's residents receive up to two million gallons of water a day at a fraction of the rate charged by previous sources. Since the line was installed, eco-tourism in Grand Isle has doubled.

STREAMLINED SOLUTION PROVIDES MODEL FOR REGION

Grand Isle's water distribution system was at the breaking point when PEEC was hired to bring the system back up to full strength. Along with other measures, we repaired the system's main pipe, whose diameter had shrunk to only six inches due to build up in the line. We used a specialized cleaning device normally used for oil pipelines to clean out the pipe. Our method effectively doubled the pipe's capacity and is now used by municipalities throughout the area to keep water systems functioning at optimal levels.



Wastewater Treatment Plant – Zwolle, Louisiana

MICROBIAL ROCK PLANT FILTER PROVIDES CLEAN WATER AT LOW COST TO PARISH

A wastewater treatment plant in St. Tammany Parish was not meeting EPA effluent limits. Rather than constructing a costly new plant, PEEC used a design that employed crushed stone and rock already available within the parish. The four-acre treatment facility was designed to handle 1.5 million gallons of wastewater per day and provided an effluent quality in full compliance with all state and federal regulations.

SUSTAINABLE MEASURES REDUCE POLLUTANTS AND REDUCE PROJECT BUDGET

The town of Zwolle needed to improve the water quality of a 14.5-acre oxidation pond. PEEC designed a system using plants, which removed nitrogen and added oxygen to the wastewater, thereby cleaning the pond at low cost, with minimal disruption to the neighboring environment.

MICROBIAL APPLICATION PRODUCES WIN-WIN SOLUTION

The city of Westwego had a wastewater facility that was under functioning due to high sludge volume. PEEC reduced this volume by 50% using an application of specialized microorganisms. In a second phase, we used the microbial detritus this process created and used it as beneficial material for nearby earthen levee tops. The microbial sludge acted as fertilizer, spurring massive vegetation growth, which in turn reduced erosion on the levee and improved the city's storm protection system.

Wastewater

Wastewater challenges have provided PEEC with opportunities to use innovative and green technologies that not only produce clean effluent, they improve the surrounding environment — all while achieving significant cost savings for our clients.

Sewer Services

- ▣ Combined Sewer Overflow
- ▣ Design and Rehabilitation of Collection Systems
- ▣ Design and Rehabilitation of Treatment Systems
- ▣ Operability Design Reviews
- ▣ Operations Services
- ▣ Start-up Assistance
- ▣ Inflow/Infiltration Study

Clients

- | | |
|----------------------|----------------------|
| ▣ City of Westwego | ▣ Town of Sarepta |
| ▣ St. Tammany Parish | ▣ Jefferson Parish |
| ▣ Town of Zwolle | ▣ Plaquemines Parish |
| ▣ U.S. Steel | |



Wastewater Treatment Plant – City of Westwego, Louisiana

PEEC, INC.

CIVIL

- Drainage System
- Drainage System Design
- Stormwater Analysis
- Hydraulic Modeling
- Pump Station Design
- Roadway Design
- Levee System Design
- Site Development
- Local, State, and Federal Funding Assistance
- Construction Management

STRUCTURAL

- Bridges—Wooden, Concrete, Steel, and Precast—Design and Construction Management
- Commercial Facility Design and Construction Management
- Industrial Facility Design and Construction Management
- Governmental Facilities and Complex Design and Construction Management

ENVIRONMENTAL

- 404 Permit Acquisition
- Wetland Delineation Determination
- Environmental Impact Statement
- Environmental Impact Analysis
- Air Quality Permit
- MWPP
- MS4 Permit Acquisition
- NPDES/LPDES Acquisition
- Needs and Alternative Analysis
- Phase I and II Environmental Site Assessment
- Brownfield Assessment and Remediation

COASTAL

- Marsh Creation
- Marsh Enhancement
- Marsh Protection
- Barrier Island Protection
- Levee System Design and Construction
- Levee System Upgrade and Repair
- Breakwater System Design and Construction
- Marsh Management

WATER

- Hydrogeology/ Groundwater Modeling
- Water Well Design
- Water Intake Structure Design, Construction, and Repair
- Water Treatment Services
- Water Distribution Systems
- Lake and Reservoir Water Quality Management
- Storm Water Permitting and Compliance
- Water Resources Management/Water Rights Strategies
- Water Supply Planning
- Watershed Management/ Source Protection

WASTEWATER

- Combined Sewer Overflow
- Design and Rehabilitation of Collection Systems
- Design and Rehabilitation of Treatment Systems
- Operability Design Reviews
- Operations Services
- Start-up Assistance
- Inflow/Infiltration Study



PROFESSIONAL
ENGINEERING AND
ENVIRONMENTAL
CONSULTANTS, INC.

1065 Muller Parkway, Suite B
Westwego, LA 70094

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F | 504-341-5600
E | postmaster@pecinc.com



DIVISION OF SMALL BUSINESS SERVICES

This certification acknowledges that

Professional Engineering and Environmental Consultants, Inc.

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

This certification is valid from 7/26/2021 to 7/26/2022 .

Certification No. 20386

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

Stephanie Hartman,
Director, Entrepreneurial Services



Division of Small and Emerging Business Development
SEBD CERTIFICATION

Professional Engineering and Environmental Consultants, Inc.

is hereby certified as a Small and Emerging Business Enterprise.

This certification is valid beginning 7/26/2021 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 7/26/2021

This certification expires on: 7/26/2031

Certification No. 20386

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

Stephanie Hartman,
Director, Entrepreneurial Services

**Jefferson Parish TEC
Professional Services Questionnaire**

For

BFM Corporation, LLC

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. N/A		
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:

B F M 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

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
<p>John Philip Thayer Field Operations Supervisor</p>
Project Assignment:
<p>Field Operations Supervisor</p>
Name of Firm with which associated:
 <p>BFM CORPORATION, LLC Professional Land & Hydrographic Surveying</p>
Years experience with this Firm:
<p>14 years (joined BFM in 2008); 15 years total (2007)</p>
Education: Degree(s)/Year/Specialization:
<p>B.S., 2007, Physical Education, Trevecca Nazarene University</p>
Active registration: Year first registered/discipline:
<p><i>Professional Land Surveyor Registration in process, State of Louisiana</i></p>
Other experience and qualifications relevant to the proposed Project:
<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>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)</p> <p>Mounes Street Subsurface Drainage (Phase IV, Dickory Avenue to Elmwood Park Boulevard), Jefferson Parish, LA. BFM provided topographic surveying services for Phase IV of the project, part of a multiphase program to improve drainage issues on Mounes Street. Phase IV of the project involved a topographic survey of the project, extending from Dickory Avenue to Elmwood Park Boulevard. Services provided by BFM included establishment of a baseline, setting temporary benchmarks (TBMs), elevation surveys, locating improvements and utilities as well as natural elements, and right-of-way surveying. (\$23,540 (fee); 2017)</p> <p>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)</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

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Gary J. Lambert, Jr., PLS

Registered Professional Land Surveyor

Project Assignment:

Registered Professional Land Surveyor; Project Manager/Drafting Supervisor

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years experience with this Firm:

4 years (joined BFM in 2018); 11 years total

Education: Degree(s)/Year/Specialization:

B.S., 2018, Geomatics, Nicholls State University

B.S., 2014, Construction Management, Louisiana State University

Active registration: Year first registered/discipline:

2021, Professional Land Surveyor (Louisiana Lic. No. 5929)

Other experience and qualifications relevant to the proposed Project:

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).

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)

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)

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:
Name & Title:
<p>Christopher Lemley Quality Control Supervisor</p>
Project Assignment:
<p>Quality Control Supervisor</p>
Name of Firm with which associated:

Years experience with this Firm:
<p>8 years (joined BFM in 2014); 16 years total (2006)</p>
Education: Degree(s)/Year/Specialization:
<p><i>High School Diploma</i></p>
Active registration: Year first registered/discipline:
<p>N/A</p>
Other experience and qualifications relevant to the proposed Project:
<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>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)</p> <p>Drainage Improvements, Metairie Lawn to Labarre Drive, Jefferson Parish, LA. BFM provided Surveying Services for this project located in Bayou Metairie Park. (\$9,740 (fee); 2016)</p> <p>Mounes Subsurface Drainage – Phase I, Jefferson Parish, LA. 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:
 Professional Land & Hydrographic Surveying
Years experience with this Firm:
32 years (joined BFM in 1990); 32 years total (1990)
Education: Degree(s)/Year/Specialization:
<i>High School Diploma</i>
Active registration: Year first registered/discipline:
<i>American Traffic Safety Service Assn. – Traffic Flagger</i> <i>Transportation Work Identification Card (TWIC)</i>
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Barrios' surveying experience includes boundary, hydrographic, and topographic. He has worked on location and performed topographic surveys for a number of major projects.</p> <p>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)</p> <p>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)</p> <p>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)</p> <p>Woodland West Subdivision Drainage Improvements, Marrero, LA. BFM provided a topographic survey for the design of drainage improvement. (\$8,900 (fee); 2006)</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Eric Gladney
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:

8 years (joined BFM in 2014); 21 years total (2001)

Education: Degree(s)/Year/Specialization:

High School Diploma

Active registration: Year first registered/discipline:

*American Traffic Safety Service Assn. – Traffic Flagger
Norfolk Southern Roadway Worker Protection Contractor Safety Cert.
Transportation Work Identification Card (TWIC)*

Other experience and qualifications relevant to the proposed Project:

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)

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

Drainage Improvements, Metairie Lawn to Labarre Drive, Jefferson Parish, LA. BFM provided Surveying Services for this project located in Bayou Metairie Park. (\$9,740 (fee); 2016)

25th Street & Adjacent Canal, Gretna, Jefferson Parish, LA. BFM provided cross section surveying and a limited drainage survey for the project. (\$2,925 (fee); 2017)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Jeff Patin

Survey Crew Chief

Project Assignment:

Survey Crew Chief

Name of Firm with which associated:

B²F²M CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years experience with this Firm:

3 years (joined BFM in 2019); 23 years total (1999)

Education: Degree(s)/Year/Specialization:

High School Diploma

Active registration: Year first registered/discipline:

Transportation Work Identification Card (TWIC)


Other experience and qualifications relevant to the proposed Project:

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 & all work required to execute the survey and obtain the information needed. Mr. Patin has worked on projects for various public & private clients, and has performed field work under the direction of the Corps of Engineers.


Coventry Drainage Pump Stations, Jefferson Parish, LA. 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)

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)


TEC Professional Services Questionnaire

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

Years experience with this Firm:
<p>11 years (joined BFM in 2011); 31 years total (1992)</p>
Education: Degree(s)/Year/Specialization:
<p><i>Coursework - CAD, Avatech Solutions, Los Colinas, TX</i></p>
Active registration: Year first registered/discipline:
<p>NA</p>
Other experience and qualifications relevant to the proposed Project:
<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 & profile, etc.) in both drafting and field environments.</p> <p>Mounes Street Subsurface Drainage (Phase IV, Dickory Avenue to Elmwood Park Boulevard), Jefferson Parish, LA. BFM provided topographic surveying services for Phase IV of the project, part of a multiphase program to improve drainage issues on Mounes Street. Phase IV of the project involved a topographic survey of the project, extending from Dickory Avenue to Elmwood Park Boulevard. Services provided by BFM included establishment of a baseline, setting temporary benchmarks (TBMs), elevation surveys, locating improvements and utilities as well as natural elements, and right-of-way surveying. (\$23,540 (fee); 2017)</p> <p>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)</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:
<p>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)</p> <p>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)</p> <p>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)</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
<p>Kevin A. Roberts CADD Technician</p>
Project Assignment:
<p>CADD Technician</p>
Name of Firm with which associated:

Years experience with this Firm:
<p>4 years (joined BFM in 2018); 37 years total (1985)</p>
Education: Degree(s)/Year/Specialization:
<p>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></p>
Active registration: Year first registered/discipline:
<p>NA</p>
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Roberts has experience with civil engineering, offshore engineering, water purification systems, and general architectural and construction design & terminology. He obtained his A.D. in Drafting in 1999, and has taken additional coursework throughout his career.</p> <p>Orange Lane Pump Station Project, Grand Isle, Jefferson Parish, LA. The project consists of a new storm water pumping station on the intersection of Orange Lane at Orleans Avenue in Grand Isle, Louisiana. The scope of services includes obtaining topographical survey information and the preparation of a drainage map for the project. Phase 1 of the project involved the topographic and right of way surveying services; BFM conducted a site topographic survey at the proposed lift station site and provided boundary surveying to determine rights of way. Phase 2 of the project established the Drainage Map. BFM located all drainage structures within the Limits of Survey; this included ditches, culverts, drain inlets, and catch basins. A drone survey was executed to gather a 25 ft elevation grid throughout the project area. (\$32,280 (fee); 2020)</p> <p>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)</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Dawn Hoffman Researcher/Archivist
Project Assignment:
Researcher/Archivist
Name of Firm with which associated:
 Professional Land & Hydrographic Surveying
Years experience with this Firm:
13 years (joined BFM in 2009); 25 years total (1997)
Education: Degree(s)/Year/Specialization:
A.D., 1999, Computer-Aided Drafting, Southeast College of Technology Certificate, 2003, Introduction to ArcGIS, Louisiana State University
Active registration: Year first registered/discipline:
NA
Other experience and qualifications relevant to the proposed Project:
<p>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)</p> <p>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)</p> <p>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)</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:	
Orange Lane Drainage Pump Station Project (Drainage Mapping) , Grand Isle, Jefferson Parish, Louisiana AIMS Group, Inc. 4421 Zenith Street Metairie LA 70001 Lowell Pitre, P.E. , 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:	
Lapalco Boulevard Bridge at Harvey Canal , (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, Louisiana Hardesty & Hanover 3850 N Causeway Blvd Ste 1850 Metairie LA 70002 Babak Naghavi , 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

PROJECT NO. 3		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, Louisiana GEC, Inc. 3445 N Causeway Blvd Ste 401 Metairie LA 70002-3779 Jerome Lohmann , 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 Focus Street. The project encompassed approximately 10,400 linear feet, with cross-sections and elevations surveyed included as part of the scope.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020 May	N/A	\$18,350 (fee)

PROJECT NO. 4		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
Bissonet Plaza Drainage Improvements (Phase 1, Elmwood Parkway and Craig Avenue), Metairie, Jefferson Parish, Louisiana Meyer Engineers Ltd. 4937 Hearst St. Ste. B Metairie LA 70001 Ana Theriot, P.E. , 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 Marc	h	\$7,980 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
Coventry Drainage Pump Stations, Jefferson Parish, Louisiana ECM Consultants, Inc. 1301 Clearview Pkwy Ste 200 Metairie LA 70001 Sunina Shrestha, 504-885-4080 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.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020	N/A	\$89,780 (fee)
PROJECT NO. 6		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, Louisiana Hartman Engineering, Inc. 16563 Airline Hwy Ste A&B Prairieville LA 70769 Jared Monceaux, P.E., 225-313-4617 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.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2019 April	N/A	\$12,855 (fee)

TEC Professional Services Questionnaire

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

PROJECT NO. 8		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
Waggaman Canal Relocation Survey (Jefferson Parish Landfill Sites), Jefferson Parish, Louisiana CDMSmith 1515 Poydras St Ste 1000 New Orleans LA 70112 Jenny Bywater, P.E., 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.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2016 February	N/A	\$19,940 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
Mounes Subsurface Drainage – Phase I, Jefferson Parish, Louisiana CB&I 2424 Edenborn Avenue Suite 450 Metairie LA 70001 Gene S. Gillen, P.E., 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).	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2017 April	N/A	\$26,240 (fee)

PROJECT NO. 10		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
North Arnoult Drainage Pump Station Improvements, Jefferson Parish, Louisiana Hartman Engineering, Inc. 527 W. Esplanade Ave Suite 300 Kenner LA 70065 Rolland A. Mura, 504-466-5667	BFM's project services included both boundary and topographic surveying of the project site.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
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:	
Bissonet Plaza Drainage Improvements (Phase 1, Elmwood Parkway and Craig Avenue) , Metairie, Jefferson Parish, Louisiana Meyer Engineers Ltd. 4937 Hearst St. Ste. B Metairie LA 70001 Ana Theriot, P.E. , 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:	
Lapalco Boulevard Bridge at Harvey Canal , (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, Louisiana Hardesty & Hanover 3850 N Causeway Blvd Ste 1850 Metairie LA 70002 Babak Naghavi , 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

**Jefferson Parish TEC
Professional Services Questionnaire**

For

Gulf South Engineering and Testing, Inc.

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:



ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants

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

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Blake E. Vutera, P.E. Engineering Manager
Project Assignment:
Geotechnical Engineer
Name of Firm with which associated:
 ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants
Years experience with this Firm:
10 years with this firm (2012); 16 years total (2006)
Education: Degree(s)/Year/Specialization:
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
Active registration: Year first registered/discipline:
2013, Civil Engineer, Louisiana, No. 38607 2018, Professional Engineer, Texas No. 129410
Other experience and qualifications relevant to the proposed Project:
<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>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)</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

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Joseph H. "Trey" Binder, III Laboratory Manager	
Project Assignment:	
Laboratory Manager; Laboratory Technician	
Name of Firm with which associated:	
<div style="display: flex; align-items: center;">  <div> ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants </div> </div>	
Years experience with this Firm:	
11 years with this firm (2011); 16 years total (2006)	
Education: Degree(s)/Year/Specialization:	
A.D., 2011, General Studies, Nunez Community College	
Active registration: Year first registered/discipline:	
N/A	
Other experience and qualifications relevant to the proposed Project:	
<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>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)</p> <p>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)</p> </div> <div style="flex: 0.5; border: 1px solid black; padding: 5px; margin-left: 10px;"> <ul style="list-style-type: none"> HAZMAT Awareness HAZMAT Operations Training ACI Aggregate Base Testing Technician </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:	
Name & Title:	
<p>Sara E. Lockwood, E.I. Graduate Geotechnical Engineer</p>	
Project Assignment:	
Graduate Geotechnical Engineer/Engineering Intern	
Name of Firm with which associated:	
<div style="display: flex; align-items: center;">  <div> <p>ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants</p> </div> </div>	
Years experience with this Firm:	
3 years with this firm (2019); 5 years total (2017)	
Education: Degree(s)/Year/Specialization:	
<p>B.S., 2019, Civil Engineering, University of New Orleans B.S., 2016, Physics, Loyola University</p>	
Active registration: Year first registered/discipline:	
2020, Engineering Intern, Louisiana, No. EI.0034718	
Other experience and qualifications relevant to the proposed Project:	
<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 & laboratory testing & inspection. Her coursework included such disciplines as foundation engineering, soil mechanics, geotechnical engineering, structural concrete & 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>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)</p> <p>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 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"> Society of Women Engineers American Society of Civil Engineers </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:	
Name & Title:	
<p style="margin: 0;">Christopher Boutwell Construction Materials Testing (CMT) Supervisor</p>	
Project Assignment:	
<p style="margin: 0;">Construction Materials Testing (CMT) Supervisor</p>	
Name of Firm with which associated:	
<div style="display: flex; align-items: center;">  <div> <p style="margin: 0;">ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants</p> </div> </div>	
Years experience with this Firm:	
<p style="margin: 0;">10 years with this firm (2012); 13 years total (2009)</p>	
Education: Degree(s)/Year/Specialization:	
<p style="margin: 0;"><i>High School Diploma</i></p>	
Active registration: Year first registered/discipline:	
<p style="margin: 0;">N/A</p>	
Other experience and qualifications relevant to the proposed Project:	
<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>Waggaman Subsurface Drainage Improvements, Waggaman, Jefferson Parish, LA. Project consisted of the construction of new below grade drainage features and piping for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Our scope of services included performing pile plant inspection, pile monitoring during installation, vibration monitoring, concrete testing and inspection, earthwork testing and inspection including soil sampling and field density tests, and steel inspection. (\$7,000 (fee); 2016)</p> </div> <div style="flex: 0.5; border: 1px solid black; padding: 5px; margin-left: 10px;"> <ul style="list-style-type: none"> ACI Concrete Field Testing – Grade I APNGA Nuclear Moisture/Density Gauge Training OSHA Safety Training – 8 hr. </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:	
Name & Title:	
<div style="display: flex; flex-direction: column; align-items: flex-start;"> <div style="margin-bottom: 10px;">Ross L. White</div> <div>Soil Boring Driller</div> </div>	
Project Assignment:	
Soil Boring Driller	
Name of Firm with which associated:	
<div style="display: flex; align-items: center;">  <div> ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants </div> </div>	
Years experience with this Firm:	
4 years with this firm (2018); 13 years total (2009)	
Education: Degree(s)/Year/Specialization:	
High School Diploma	
Active registration: Year first registered/discipline:	
N/A	
Other experience and qualifications relevant to the proposed Project:	
<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>Latigue Road Extension (Phase I; Live Oak Blvd. to Foundry Rd.), Jefferson Parish, LA. 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 & recommendations. (\$7,000 (fee); 2018)</p> <p>Roadway Rehabilitation and Drainage Improvements, McClellan Street (Area A), City of New Orleans, LA. 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"> ISTC basic, Entergy PowerSafe CDL A Class Driver's License (exp 11/2024) </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

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
<p>Wyatt M. Jones Field Supervisor; Drilling and Engineering Technician</p>	
Project Assignment:	
Field Supervisor; Drilling and Engineering Technician	
Name of Firm with which associated:	
<div style="display: flex; align-items: center;">  <div> <p>ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants</p> </div> </div>	
Years experience with this Firm:	
2 year with this firm (2020); 5 years total (2017)	
Education: Degree(s)/Year/Specialization:	
<i>Construction Management, Delgado College (ongoing)</i>	
Active registration: Year first registered/discipline:	
N/A	
Other experience and qualifications relevant to the proposed Project:	
<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 & 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>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)</p> </div> <div style="flex: 0.5; border: 1px solid black; padding: 5px; margin-left: 10px;"> <ul style="list-style-type: none"> Entergy PowerSafe OSHA Safety Training – 8 hr. </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:	
Metairie Lawn and Ridgelake Drive Roadway & Utility Project, Metairie, Jefferson Parish, Louisiana Ardurra Group, Inc. 3012 26th Street Metairie LA 70002 Joe Becker, P.E., 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:	
Drainage Improvements, Citrus Road & Greg Court, Metairie, Jefferson Parish, Louisiana Jefferson Parish c/o Buchart Horn 18163 E Petroleum Drive, Suite A Baton Rouge LA 70809 Alan Krouse, P.E., 225-308-2009 akrouse@bucharthorn.com Reda Youssef, P.E. 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

PROJECT NO. 3		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
Airline Park Boulevard Rehabilitation and Drainage Upgrade (West Napoleon to Camphor), Jefferson Parish, Louisiana Jefferson Parish c/o PECC 3702 Bienville Avenue, Suite C New Orleans LA 70119 John Shires, P.E., 800-749-2810 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.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2015 February	N/A	\$8,500 (fee)

PROJECT NO. 4		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
Trudeau Drive Drainage Improvements at West Metairie Canal, Metairie, Jefferson Parish, Louisiana Jefferson Parish c/o Hatch Mott MacDonald 650 Poydras Street, Suite 2025 New Orleans LA 70130 Many Heymann, P.E., 504-799-0437 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.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2015 October	N/A	\$8,000 (fee)

TEC Professional Services Questionnaire

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

PROJECT NO. 6		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
Lake Cataouatche Drainage Pump Station Replacement (Chighizola Lane), Grand Isle, Jefferson Parish, Louisiana Principal Engineering, Inc. 1011 N Causeway Blvd Ste 19 Mandeville LA 70471 André C. Monnot, P.E., 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.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020 May	N/A	\$7,500 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
David Drive Drainage Improvements (West Esplanade Avenue to Bruin Drive), Jefferson Parish, Louisiana Jefferson Parish c/o Rahman & Associates, Inc. 3645 Williams Blvd Ste 208 Kenner LA 70065 Tafoor Hameed, P.E., 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.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2015 December	N/A	\$7,500 (fee)

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

TEC Professional Services Questionnaire

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

PROJECT NO. 10		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
Verrett Canal Slope Instability Project, West Bank Drainage Department, Harvey, Jefferson Parish, Louisiana Jefferson Parish Engineering Department 1221 Elmwood Park Blvd Ste 802 Jefferson LA 70123 Clinton Hotard, 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.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
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:

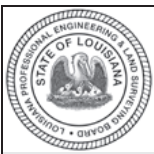
Gulf South Engineering and Testing, Inc.

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

PE.0027667

Expiration Date

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

PE.0038607

Expiration Date

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

EI.0034718

Expiration Date

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

PLS.0004329

Expiration Date

09/30/2022

Status: **Active**



GULF SOUTH

ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants



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





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).


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



**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 μ 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