



Barowka and Bonura
Engineers and Consultants, L.L.C.

SOQ No. 24-029

Independence Park

Drainage Pump Station

Resolution No.: 144443

**Deadline: Thursday, August 29, 2024
at 3:30 PM**

Barowka and Bonura Engineers and Consultants, L.L.C.
209 Canal Street
Metairie, Louisiana 70005

Jeffrey Bonura, P.E., Sole Member
jbonura@bbecllc.com
PHONE: 504-828-0030
FAX: 504-828-8006



Collaborate. Innovate. Implement.



BBEC Barowka and Bonura Engineers and Consultants, L.L.C.

August 29, 2024

Jefferson Parish Purchasing Department
c/o Mark Buttery, Purchasing Specialist II
General Government Building
200 Derbigny St., Suite 4400
Gretna, Louisiana 70053

**SUBJECT: Independence Park Drainage Pump Station
Resolution No. 144443**

Dear Mr. Buttery:

Barowka and Bonura Engineers and Consultants, L.L.C. (BBEC) appreciates the opportunity to submit this Statement of Qualifications to provide Professional Engineering Services related to the design and construction of a new Drainage Pump Station for Independence Park neighborhood. BBEC has partnered with Marrero, Couvillon & Associates, L.L.C. (MCA) to provide Electrical and Instrumentation Services, Gulf South Engineering and Testing, Inc. (Gulf South) to provide Geotechnical services, and All South Consulting Engineers, LLC (All South) to provide Surveying services.

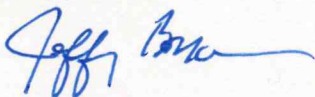
The BBEC Project Team provides multiple licensed engineers (PE), engineer interns (EI), Computer Aided Drafters, and support staff who have substantial experience in the design and construction management of drainage pump stations throughout similar sized communities of Louisiana.

Distinct advantages offered to Jefferson Parish by the BBEC Project Team are our wealth of experience in all aspects required for this project which includes, but is not limited to the following:

- Technical Expertise in the evaluation and design of drainage pump stations and facilities.
- Management and coordination of multidisciplinary projects among multiples entities.
- Coordination and communication with the Client to ensure the project scope and objective are clear and accomplished.

Once again, we sincerely appreciate the opportunity to submit this Statement of Qualifications to Jefferson Parish, and we look forward to serving you.

Very truly yours,



Jeffrey Bonura, P.E.
Sole Member

A. Project Name and Advertisement Resolution Number:

Independence Park Drainage Pump Station (Resolution # 144443)

B. Firm Name & Address:

**Barowka and Bonura Engineers and Consultants, L.L.C.
209 Canal Street, Metairie, LA 70005**

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:

**Jeffrey Bonura, P.E.
Sole Member
Office: (504) 828-0030
Fax: (504) 828-8006
Email: jbonura@bbecllc.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.

**Kevin Forschler, P.E.
Office: (504) 828-0030
Fax: (504) 828-8006
Email: kforschler@bbecllc.com**

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

<u>5</u> Administrative	<u>0</u> Estimators	<u>0</u> Specification Writers
<u>0</u> Architects (Licensed)	<u>0</u> Geologists	<u>2</u> Structural Engineers
<u>0</u> Chemical Engineers	<u>0</u> Geotechnical Engineers	<u>1</u> Graduate Engineers
<u>4</u> Civil Engineers	<u>0</u> Interior Designers	<u>2</u> Project Managers
<u>1</u> Construction Inspectors	<u>0</u> Landscape Architects	<u>2</u> Clerical
<u>0</u> Ecologists	<u>0</u> Land Surveyor	<u>4</u> Grant/Funding Specialist
<u>1</u> Electrical Engineers	<u>0</u> Mechanical Engineers	<u>0</u> Sanitary Engineers
<u>1</u> Engineer Intern	<u>0</u> Environmental Engineers	
<u>0</u> Professional Land Surveyors	<u>3</u> Drafters	<u>26</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

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 <u>all subcontractors must submit a fully completed copy of this questionnaire</u>, 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. Marrero, Couvillon, & Associates, L.L.C. 3525 Hessmer Avenue, Suite 304 Metairie, LA 70001	Electrical and Instrumentation Services	Yes
2. Gulf South Engineering and Testing, Inc. 15 Veterans Memorial Boulevard Kenner, LA 70062	Geotechnical services	Yes
3. All South Consulting Engineers, LLC 652 Papworth Avenue Metairie, LA 70005	Surveying services	Yes
J. Please specify the total number of support personnel that may assist in the completion of this Project: <div style="border-bottom: 1px solid black; width: 100px; margin-left: 0;">22</div>		

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:

**Jeffrey Bonura, P.E.
Sole Member**

Project Assignment:

Professional in Charge / Supervising Engineer

Name of Firm with which associated:



**Barowka and Bonura
Engineers and Consultants, L.L.C.**

Years' experience with this Firm:

27

Education: Degree(s)/Year/Specialization:

B.S. / 1991 / Civil Engineering

Active registration: Year first registered/discipline:

1995 / Civil

Other experience and qualifications relevant to the proposed Project:

Mr. Bonura's extensive background in drainage design and pump station projects makes him an invaluable resource for ensuring the successful execution of water and wastewater systems. His hands-on experience across various phases, from initial feasibility studies to construction oversight, ensures that projects are not only well-designed but also compliant with environmental regulations and built to perform efficiently.

Key projects performed by Mr. Bonura follow:

Gloria Drive Pump Station, Project No. 20-2022A, Lafitte Area Independent Levee District Drainage, Town of Jean Lafitte, LA, 05/2020-Present

Mr. Bonura is serving as Supervising Engineer for this project for Design Engineering Services for the Gloria Drive Pump Station Improvement Project which consists of expanding the existing pump station by doubling its capacity from 45 cfs to 90 cfs.

The existing pump station has one pump on a pile supported structure, adjacent to an existing levee. The existing pump discharge pipe runs through the levee, discharging on the other side. On the pump station side, the levee is

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supported by a timber bulkhead, part of which has deteriorated over time. When constructed, the levee project provided for a second pipe penetration in anticipation of this project. The pump station has an existing stand-by generator, which was appropriately sized for the single pump.

- Installing a new 45 cfs pump in line with the second discharge pipe provided by the levee project
- Constructing a new reinforced concrete pump station structure for both pumps, with bar screens (mechanical if funding allows) at the entrance. The new structure will replace the deteriorating timber bulkhead, as well.
- Repairing or replacing the timber bulkhead wall not addressed by the pump station structure.
- Installing a new generator structure and generator sized to run both pumps and incidental equipment.
- Extending the new pump discharge pipe as required and providing for scour protection at the outfall.
- Building the project in phases to utilize the existing pump during construction or providing temporary pumping during construction.

Drainage Pump Station Evaluation, St. Bernard Parish, LA, 2005

Evaluation of condition and hydraulic capacity of the Parish's 18 existing pump stations, perform preliminary design services, identify alternatives for improvements. The evaluation considered the hydraulic performance of the pumps, the conditions of the incoming channel, automation/control capabilities, and projected flows. Mr. Bonura developed a master plan document to prioritize the improvements, and developed cost estimate for the improvements.

Design of Access Ways and Ladders at Drainage Pump Stations, Project No. 2014-022-DR, Jefferson Parish, LA, 11/2014-11/2019

Mr. Bonura served as Supervising Engineer where BBEC prepared cost estimates and designed ladders, stairs, and elevated walkways in 16 drainage pump stations to connect elevated structures and allow personnel to access the top of structures within Jefferson Parish. Design included analysis and details to retrofit new items to existing structures. The projects included the design of access ways and ladders at various drainage pump stations on the Eastbank and Westbank of Jefferson Parish identified as follows: Project I: Bonabel, Elmwood, Estelle No. 1, Estelle No. 2, Hero, Lake Cataouche No. 2 and Westminster. Project II: Suburban, Duncan and Planters. Project III: Parish Line, Ames, Bayou Segnette, Mount Kennedy, Westwego No. 2 and Whitney-Barataria. Design services were performed for Projects II and III and Design, Bidding, Construction Management, Resident Inspection and As-built services were performed for Project I.

East Bank Water Treatment Plant Improvements, Jefferson Parish, LA, 11/2014-Present

Mr. Bonura is currently supervising the design of the 40 mgd remote high service pumping station, site paving, grading, and drainage, and yard piping.

- The remote high service pump station consists of 3 installed and the complete set up for 1 future 20-inch vertical turbine pumps mounted in a "can" installation. The controls will be connected to other plant functions so the station will be operated through the main plant's control system. The structure will be a cast in place concrete substructure with a CMU wall superstructure.
- The paving, grading, and drainage is a two-phased project for an almost 9-acre plant site. The work includes connecting to existing and new buildings, connecting to existing pavement and utilities, and the design of parking facilities and delivery and loading facilities.
- The yard piping consists of about 2,500 feet of 36-inch to 54-inch pipe, and several thousand feet of smaller pipe, navigating the through a site congested with many conflicts. The work is being designed to connect to existing systems with automated remote controlled valves and valve boxes and by minimizing disruption to plant services.

The work also includes coordinating with other engineering disciplines (structural, geotechnical, mechanical, architectural, electrical, and instrumentation) and the project owner.

TEC Professional Services Questionnaire

Laplace Water Intake Pump Station and Pre-Treatment Facility, St. John the Baptist Parish, LA, 08/2022-Present

Mr. Bonura is currently the Supervising Engineer for the design of an 8.64 pretreatment facility for St. John the Baptist Parish to prepare water from the Mississippi River for membrane filtration to be used as potable water for the citizens of St. John the Baptist Parish. The project included the following components:

- **Raw Water Pump Station.** The raw water pump station consists of 3 vertical pumps rated at 3,000 gpm each located on the flood side of the Mississippi River levee. The pumps will be run by variable frequency drives to allow for the flow to be as needed as determined by the demand on the discharge side of the treated water facilities. The work includes a 24-inch raw water line and an 8-inch sludge line crossing the levee and state-owned River Road from the pump station to the land-side pretreatment facility. The project includes an approximate 800-foot bridge providing access from the top of the levee to the pump station. The controls will be connected to other plant functions so the station will be operated through the main plant's control system. The structure will be a pile supported cast in place concrete substructure with a metal building superstructure.
- **Civil / Sitework.** The paving, grading, and drainage is for an 18-acre plant site. The work includes developing an undeveloped wooded site into a plant site containing four clarifiers, an administration/safe room building, a transfer pump station, sludge pump station, chemical feed and storage facilities, and interconnecting yard piping. The paving portion allows for parking and materials and equipment deliveries for WB-60 and other vehicles. The yard piping consists of about 2,500 feet of various pipe sizes up to 30-inch pipe.
- **Clarifiers.** The clarification system consists of (4) 2.9 mgd upflow clarifiers, including coagulant feed and storage.
- **Calrifier Waste Pump Station.** The transfer pump station consists 3 vertical turbine pumps rated at 3,000 gpm each, run by variable frequency drives and 350 hp motors.
- **Sludge Pump Station.** The waste pump station consists 2 vertical sludge pumps rated at 300 gpm each, designed to keep the solids suspended so that the waste can be returned to the river.
- **Permitting.** Permitting includes wetlands delineation, LaDOTD highway crossing, Levee district levee crossing, Corps of Engineers adjacent to levee and levee crossing, Corps of Engineers wetlands, Louisiana Coastal Use, and Wildlife and Fisheries Endangered Species permits.
- **Administration/Safe House.** An approximate 2,500 building is included to house the controls for all the Parish's water and wastewater facilities and provide safe living quarters for Parish personnel during storm and other disaster events.

The work also includes coordinating with other engineering disciplines (structural, geotechnical, mechanical, architectural, electrical, and instrumentation) and the project owner.

Diamond Pump Station, Plaquemines Parish, LA, 2015

Mr. Bonura served as Program Manager for this project which is to provide frontal protection for the Diamond pump station. The work consists of construction of reinforced concrete floodwalls, clearing and grubbing, site drainage modifications, vertical wick drains, embankment material installed for preload/surcharge, steel sheet pile driving, steel H pile driving, concrete slope paving, concrete base slab and stem for T-walls, extending steel pump station discharge tube piping, installing backflow prevention and all mechanical components necessary per specification. Temporary Flood Protection and Temporary Restraining Structures required accomplishing the construction goals for the contract. The earthen levee will be reconfigured to tie into the newly installed T-wall.

Duvic Pump Station, Plaquemines Parish, LA, 2013

Mr. Bonura served as Program Manager for this project which is to provide frontal protection for the Duvic Pump Station. The work consists of construction of reinforced concrete floodwalls, earthen levee construction, clearing and grubbing; painting; establishment of turf; placing crushed stone for roadway, bedding, geo-textile, driving steel

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sheet piling, steel H-piles, excavation, structural excavation and backfill, surfacing, drainage systems, electrical systems, back flow prevention, demolition of existing discharge pipes, construction of temporary flood protection and other incidental work.

Ollie Pump Station, Plaquemines Parish, LA, 2015

Mr. Bonura served as Program Manager for this project which is to provide frontal protection for the Ollie Pump Station. The work consisted of construction of reinforced concrete floodwalls, clearing and grubbing, site drainage modifications, steel sheet pile driving, extending steel pump station discharge tube piping, installing backflow prevention and all mechanical components necessary. Temporary Flood Protection and Temporary Restraining Structures are required to accomplish the construction goals for the contract. Asbestos and Lead Abatements included in the demolition on an existing pump station building. A bridge is constructed on the north side of the property to haul earthen levee embankment material and create a surcharge/preload of material to stabilize the sub-grade. The earthen levee will be reconfigured to tie into the newly installed floodwall.

Wilkinson Pump Station, Plaquemines Parish, LA, 2015

Mr. Bonura served as Program Manager for this project which is to provide frontal protection for the Wilkinson Pump Station. The work consists of construction of a new pump station, new floodwall, new levees, berms and embankments, new channels and ditches, and demolition of the existing pump station. The pump station and floodwall construction consists of two phases of work.

The first phase is construction and monitoring of the preload. Construction of the preload consists of clearing and grubbing, sand fill placement, vertical wick drain installation, geotechnical instrumentation installation, and placing and compacting embankment.

The second phase is construction of the pump station and floodwall. Construction of the pump station consists of clearing and grubbing, excavation, deep soil mix column installation, driving pile, placing reinforced concrete, placing and compacting embankment, and installing vertical pumps, engines, discharge piping, new discharge pipe supports, and other electrical and mechanical system. Construction of the new discharge pipe supports consists of driving pile, placing concrete beam, and constructing pipe support saddles. Construction of the pump station will also include a metal building system with safe room, an elevated fuel storage platform, a precast concrete ramp, reinforced concrete wing-walls, and a steel walkway above the discharge piping. Construction of the floodwall consists of clearing and grubbing, excavation, driving pile, placing reinforced concrete, and placing and compacting embankment. Levee and embankment construction consists of clearing and grubbing, excavation, placing sand fill and un-compacted fill, placing reinforcement geo-textile, placing and compacting embankment, and establishing turf. Channel and ditch construction consists of excavation and placement of riprap with bedding. A new storm drainage system consisting of reinforced concrete pipe and inlet will be constructed to convey storm water from the pump station and levee to the intake channel. Demolition of the existing pump station consists of removal and storage of pumps, engines, and gears, demolition and removal of the pump station structure, elevated fuel storage tanks, fencing, retaining walls, and other structural, electrical, and mechanical systems.

Drainage Pump Station Fuel Storage Secondary Containment, Jefferson Parish, LA, 09/2002-06/2004

Mr. Bonura designed secondary containment systems to contain diesel fuel at 11 west bank drainage pump stations so that the fuel from the largest storage tank on the site would be retained in the event of a diesel fuel spill. Mr. Bonura developed details for containment systems such as concrete retaining walls for tanks farms stored on existing slabs, and lining systems for earthen containment ponds if the slab option did not provide sufficient volume. Mr. Bonura provided the details to the Drainage Department, who in-turn advertised the work for public bid as funding allowed and administered the work through construction.

Bayou Gauche Drainage Analysis, St. Charles Parish, LA, 01/2003-12/2005

Mr. Bonura served as Design Engineer for the project which included updating the Parish's existing hydraulic and

TEC Professional Services Questionnaire

hydrologic computer models with current developments for the Sunset Drainage District watershed in St. Charles Parish. The Parish's existing HEC -1 and HEC-2 hydraulic models were evaluated and revised to include infrastructure improvements throughout the drainage district. The existing models were converted to HEC-RAS and HEC-HMS for use in this study and future evaluations. Model runs were performed to verify the need for drainage pump station improvements in the area and determine the improved capacity of the pump station.

Guichard Canal Area Drainage Evaluation, St. Bernard Parish, LA, 03/2004-04/2005

The project consisted of evaluating the ability of an existing drainage system in St. Bernard Parish, Louisiana to handle the 10-year storm for a 200-drainage basin in a residential area primarily consisting of open ditches and miscellaneous culverts with multiple outfalls into the Guichard Canal. The area is bounded by the Guichard Canal on the west, Paris Road on the east, Judge Perez Drive on the south, and Patricia Street on the north. The area also contained two drainage pump stations that were designed to drain the subsurface system, while the main volume of flow during the rain events utilized roadside ditches and some subsurface drain lines. Mr. Bonura supervised the development of a drainage layer in the Parish's GIS, supervised the surveying of elevations of the drainage features, developed a hydrologic and hydraulic model for the area, modeled the area and determined all deficient drain lines. Mr. Bonura made recommendations for the necessary improvements to cover the 10-year storm.


LA-45 Evacuation Route Basin Drainage Improvements, Lafitte Area Independent District, LA, 02/2020-Present

Mr. Bonura is serving as Supervising Engineer for BBEC, performing as sub-consultant, which has been tasked with developing a current H&H rainfall runoff model for the LA-45 Evacuation Route Basin, both for existing conditions and to reflect the proposed Lafitte Tidal protection project. The analysis will locate and quantify areas subject to internal drainage problems resulting from the completion of the Tidal Protection project, including the location and sizing of nominally three pump stations or gravity flood gates, to be designed under separate contract. BBEC is developing the H&H model for both the current conditions and the proposed Tidal Protection conditions, determining canal, culvert, and storm sewer capacity requirements, providing an AutoCAD drawing delineating drainage basins, improvements alignments, and sump requirements for both gravity and pumped discharge, and providing a letter report of the findings of the study. BBEC will also prepare preliminary plans which will include Drainage Maps, Conceptual Storm Sewer Routing Plans to show ditches and storm sewer locations, and sized required, and identify an potential problem areas, plans and profiles, required right-of-way and construction access, and any impacts to existing properties. BBEC will provide Drainage Map, coordination with Engineer on the results of the H&H Study, and Jefferson Parish Public Works Standard Details, as requested. BBEC will prepare final plans and technical specifications which will consist of a full set of construction plans including final plans and profiles, detailed Drainage Map, standard structural and grading details, and cross sections, along with a cost estimate of construction quantities and the estimate of probable cost. Technical Specification will be included in a complete set of Contract Documents. BBEC will perform construction management for the project.

Cypress Park Subdivision Drainage Evaluation, St. Tammany Parish, LA, 11/2016-12/2017

Mr. Bonura served as the supervising professional and project engineer on the hydraulic and hydrologic study of the Erindale Heights and Cypress Park Subdivisions (about 450 acres of single family residential property). The study consisted of developing a computer model of the hydrology and drainage system consisting of natural channels, open ditches, closed conduits, and culverts. BBEC evaluated the 5, 10, 25, 50, and 100 year storms, and developed several alternatives for addressing the flooding concerns. BBEC provided pros and cons, permitting concerns, and construction cost estimates related to the alternatives. The alternatives considered included elevation adjustments to open channels, increased closed conduit usage and size of existing closed conduits, levees, and pump stations.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Kevin Forschler, P.E. Project Engineer
Project Assignment:
Project Engineer / Design
Name of Firm with which associated:
 Barowka and Bonura Engineers and Consultants, L.L.C.
Years' experience with this Firm:
9
Education: Degree(s)/Year/Specialization:
B.S. / 2014 / Civil
Active registration: Year first registered/discipline:
2020 / Civil
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Forschler is currently working on projects for Jefferson Parish, St. Bernard Parish, St. Tammany Parish, Lafayette, and the City of New Orleans. The projects he is working on involve roadway restoration, drainage modeling and design, water transmission main replacement, off-system bridges, walkway design, lift station design, and water and wastewater treatment. Mr. Forschler is working on multiple FEMA Public Assistance funded projects that involved rehabilitating Katrina damaged roadways in both St. Bernard Parish and the City of New Orleans. He has also worked on numerous other roadway and drainage projects in the neighboring communities. Mr. Forschler has utilized Autodesk Storm and Sanitary Analysis and SWMM modeling programs to develop drainage models for multiple areas in Jefferson Parish, including certain sections of Waggaman and the Bissonet Plaza neighborhood. In addition to drainage modeling, Mr. Forschler also has experience using the HYDRWIN application to design drainage systems for roadways.</p> <p>Mr. Forschler has experience working with various municipalities, coordinating with other entities such as the levee districts, LADOTD, and railway companies to resolve conflicts and ensure that proposed designs meet the entities' guidelines.</p> <p>Key projects performed by Mr. Forschler follow:</p> <p>Laplace Water Intake Pump Station and Pre-Treatment Facility, St. John the Baptist Parish, LA, 08/2022-Present</p> <p>Mr. Forschler performed a hydrologic and hydraulic review of the clarifier site to determine the existing runoff during a 10-year design storm and the additional runoff that would be generated post-development. He then sized</p>

TEC Professional Services Questionnaire

a detention pond, as required by Parish ordinances, to retain the additional runoff so that it would not exceed the existing runoff at the site.

East Bank Master Drainage Plan, Jefferson Parish, LA, 04/2023-Present

Mr. Forschler is currently managing the project team during the update of the existing conditions SWMM model to include improvements from multiple drainage projects that have been completed recently. He also worked with the Jefferson Parish Drainage Department to define criteria to establish which areas included in the updated SWMM model show signs of significant flooding. During each project task, Mr. Forschler is performing QA/QC on all revisions to the SWMM model to assure that the results simulated in the model are as accurate as possible.

Avondale/Bridge City Drainage Evaluation (Area between the Mississippi River and the Union Pacific Railroad, from Huey P. Long Bridge to Avondale Garden Road), Jefferson Parish, LA, 04/2021-Present

Mr. Forschler developed a surveying scope to gather pertinent topographic information for the project and managed the surveyor for the Parish while they conducted the survey. Mr. Forschler developed a hydraulic and hydrologic model using SWMM v.5 of the Project Area between the Mississippi River and the Union Pacific Railroad, from the Huey P. Long Bridge to Avondale Garden Road. Using the model simulation, he developed various alternatives for drainage improvements in the area. He also created a hydrologic and hydraulic report presenting the findings from the model simulation and cost estimates for each of the drainage improvement alternatives.

Craig Avenue Drainage Improvements, Public Works Project No. 2019-022-DR, Jefferson Parish, LA, 05/2020-Present

Mr. Forschler assisted with the development of plans for the addition of new drain line on this road. The project contains the area of Craig Ave. from Kawanee Ave. to Gillen St. The scope of the project includes the installation of a new trunk line, connecting the lateral drain lines to the new trunk line, and the removal and replacement of existing water mains and isolation valves and concrete roadway. Mr. Forschler helped in the design of the proposed drain line, determining the correct vertical and horizontal alignment to avoid conflicts with existing utilities. He also designed the vertical profile for the proposed roadway repairs.

Bissonet Plaza Master Drainage Plan (A/E Project No. 20-1708), Jefferson Parish, LA, 05/2018-05/2021

Mr. Forschler met with Jefferson Parish personnel to identify and discuss flood prone streets within the study area. He worked with a CAD technician to develop a map highlighting these flood prone areas and utilized Jefferson Parish GIS and Autodesk Storm and Sanitary Analysis software to create an accurate drainage model of the project area. The drainage model provided analysis of the area's interior drainage system for a 10-year storm event. Mr. Forschler ran the Parish's existing East Bank drainage model in SWMM to determine the discharge water surface elevation of the project.

Waggaman Hydraulic Study, Jefferson Parish, LA, 02/2013-01/2016

Mr. Forschler performed a hydrologic study for three separate residential subdivisions in Waggaman, Louisiana, Waggaman, South Kenner, and Manor Lane. The Waggaman subdivision is bounded by River Road to the north, Live Oak Boulevard to the south, Saul's Canal to the west, and Dandelion Ditch to the east. South Kenner subdivision is bounded by River Road to the north, North Railroad Canal to the south, Saul's Canal to the east, and another subdivision to the west. The Manor Lane subdivision is bounded by River Road to the north, North Railroad Canal to the south, Latigue Road Ditch to the west, and Modern Farms Road Ditch to the east. Mr. Forschler utilized the Storm Water Management Model (SWMM) to evaluate the existing subsurface drainage capacities for each subdivision and to examine if the existing system can handle a 10-year design storm. He developed a hydrologic and hydraulic model for each area and recommended subsurface improvements based on the SWMM model to handle a 10-year design storm. Mr. Forschler ran the Parish's existing West Bank drainage model in SWMM to determine the discharge water surface elevation of the project.

Widening / Stabilization of Congressman Hebert, Creely, and Bluebirds Canals, St. Bernard Parish, LA, 01/2015-Present

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Mr. Forschler used Autodesk Storm and Sanitary Analysis software to create accurate drainage models of the project area for both pre-mitigation and post-mitigation conditions. The drainage model provides analyses of the area's interior canal system for a 10-year, 50-year and 100-year storm event. The results of the model were then compared to the existing house slab elevation data provided by St. Bernard Parish for each of the storms in order to determine the impact that the improvements have on flooding of the properties in the project area.

Project Worksheet 20824 – Storm Drains, Jean Lafitte Parkway Drainage Line Repairs/Replacement, St. Bernard Parish, LA, 06/2014-11/2019

Mr. Forschler estimated the cost of the replacement of drain lines along Jean Lafitte Parkway from Judge Perez Dr. to the outfall at Hermitage Dr. The scope of work for the project included the removal and replacement of drain lines; removal and replacement of roadway pavement section, sidewalks, and driveways; and the improvement of the outfall at Hermitage Dr.

Cleary Improvements (Veterans Blvd. to West Esplanade Ave.) (Council District 5) Jefferson Parish, LA, Public Works No. 2017-014-RBP, 11/2017-Present

Mr. Forschler assisted with developing plans for the rehabilitation of this road and verified that the proposed vertical profiles allowed for positive drainage along the road. The project contains the area of Cleary Ave. from Veterans Blvd. to W. Esplanade Ave. The repairs to be made include removing and replacing the existing concrete roadway, adding improvements to the subsurface drainage system, and relocating any utilities that were conflicts.

Ames Boulevard Rehabilitation, West Bank Expressway to Happy Street, (Public Works Project No. 2013-033-RB) (DOTD No. H.011797), Jefferson Parish, LA, 11/2015-Present

Mr. Forschler assessed the damage along Ames Blvd. and created plans for the rehabilitation of this damage. The project contains the area of Ames Blvd. from the Westbank Expressway to Happy St. The repairs to be made include milling the existing asphalt overlaying the existing concrete roadway, replacing any damaged concrete panels, overlaying the concrete roadway, replacing any damaged sections of curb and gutter, and removing and replacing any damaged drive aprons and sidewalks. Mr. Forschler is responsible for visiting Ames to document where repairs need to be made along the roadway. Mr. Forschler addressed all comments that DOTD provided in order to ensure that all DOTD guidelines were met and reviewed the bid tabulation from DOTD to check for any errors.

State of Louisiana

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

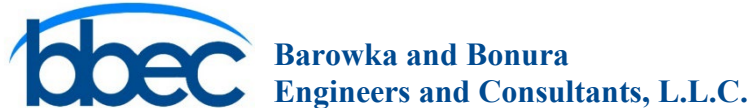
Name & Title:

**John J. Housey, Jr., P.E.
Project Engineer**

Project Assignment:

Project Engineer / Project Development

Name of Firm with which associated:



Years' experience with this Firm:

13

Education: Degree(s)/Year/Specialization:

**M.S. / 1965 / Structural Engineering
B.S. / 1964 / Civil Engineering**

Active registration: Year first registered/discipline:

1966 / Civil

Other experience and qualifications relevant to the proposed Project:

Mr. Housey has been working as an engineer in the public works industry for over 57 years. His experience includes bridges, buildings, roadways, and utility (water, sewer, and drainage) construction. He has substantial experience in project management, steel building detailing, bridges, barges and parts for offshore platforms. As a steel fabricator, Mr. Housey oversaw the fabrication of steel buildings, steel bridges (stationary and movable), barges, various parts of offshore platforms including girders, piling and legs, floor and wall framing, various parts of ships including bulkheads and framing members. Over the past 57 years, he has been responsible for the design of crane runways, spreader bars, lifting frames, and hydraulic jacking of heavy structures and barges. Mr. Housey managed the construction of over \$100 million in asphaltic concrete (AC) and Portland cement concrete (PCC) roadways funded by FEMA Public Assistance Grants. He has intimate knowledge in how various site conditions affect the construction and performance of the roadways, as well as how to maintain the necessary documentation to comply with the funding federal programs.

Key projects performed by Mr. Housey follow:

Design of Access Ways and Ladders at Drainage Pump Stations; Project No. 2014-022-DR, Jefferson Parish, LA, 11/2014-11/2019

Mr. Housey prepared cost estimates and designed ladders, stairs, and elevated walkways in 16 drainage pump stations to connect elevated structures and allow personnel to access the top of structures within Jefferson Parish. Design included analysis and details to retrofit new items to existing structures. The projects included the design of access ways and ladders at various drainage pump stations on the Eastbank and Westbank of Jefferson Parish identified as follows: Project I: Bonabel, Elmwood, Estelle No. 1, Estelle No. 2, Hero, Lake Cataouche No. 2 and Westminster. Project II: Suburban, Duncan and Planters. Project III: Parish Line, Ames, Bayou Segnette, Mount

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Kennedy, Westwego No. 2 and Whitney-Barataria. Mr. Housey performed Design services for Projects II and III and Design, Bidding, Construction Management, Resident Inspection and As-built services for Project I.

East Bank Water Treatment Plant Improvements, Jefferson Parish, LA, 12/2016-Present

As Project Manager, Mr. Housey supervises and coordinates drainage and process piping for both the Laboratory and the P4 Plant. He attends progress design meetings with other disciplines and field visits as required to locate existing utilities and prepares specifications and required design calculations. Design includes calculations for pressure piping flow, thrusts and supports, also drainage requirements and system design. Mr. Housey is also supervising the structural design of the 82' x 34' remote pump station structure, including super structure and foundation.

Orleans Materials & Equipment Company, Inc., City of New Orleans, LA, 1967-2011

As Project manager, Mr. Housey was responsible for interpreting plans and specifications, interacting with owner, engineer and contractor, resolving discrepancies, ensuring quality of construction and maintaining construction schedule. Many projects included modifications to existing structures for increased load capacity, replacement of existing structural members, connections or other requirements. Requirements for pumping stations usually included all steel requirements including columns, crane runways, bar screens and floor grating. **Sample projects completed by Mr. Housey include:**

Pumping Stations

- **Hero Canal Pumping Station**
All structural steel, walkway grating, bar screens, and related items.
- **Citrus Pumping Station**
All structural steel, walkway grating, bar screens, and related items.
- **Michoud Pumping Station**
All structural steel, walkway grating, bar screens, and related items.
- **Pumping Station No. 6**
All structural steel, walkway grating, bar screens, and related items.

Widening / Stabilization of Congressman Hebert, Creely, and Bluebird Canals, St. Bernard Parish, LA, 01/2015-Present

The project includes increasing the capacity and improving the stability of Congressman Hebert, Creely, and Bluebird Canals, that consists of 11,600 linear feet of open canal and culverts ranging from 4-feet bottom width to 16-feet bottom width channels. Mr. Housey coordinated with St. Bernard Parish, Lake Borgne Basin Levee District, and the Louisiana Department of Transportation and Development to obtain information regarding the existing drainage plan. BBEC established the design cross sections for the channels, which included concrete u-channels, concrete box culverts, and round and arched pipe, and concrete lined trapezoidal sections, depending on the availability of land and other conditions. Mr. Housey is designing 2,500 linear feet of large diameter reinforced concrete pipe box culverts, and U-channels for the project.

Project Worksheet 20824 – Storm Drains, Jean Lafitte Parkway Drainage Line Repairs/Replacement, St. Bernard Parish, LA, 06/2014-11/2019

Mr. Housey prepared the damage assessment to adjacent existing roadway.

CN Railroad Culverts in Ormond, Project No. P200801, Ordinance No. 20-9-5, St. Charles Parish, LA, 10/2020-Present

Mr. Housey assisted in the design of the Cofferdam structure to resist the jacking loads required to jack & bore the culvert pipes under the railroad.

RR176 – St. Roch Group North Group A (PMOI), City of New Orleans, LA, 10/2019-Present

As part of BBEC design team for this FEMA PA funded project, Mr. Housey met with DPW representatives and surveyed damage to existing streets, reviewed and designed repairs to existing streets, including roadway profiles

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and drainage requirements.

RR177 – St. Roch Group North Group B (FRC), City of New Orleans, LA, 11/2019-Present

As part of BBEC design team for this FEMA PA funded project, Mr. Housey met with DPW representatives and surveyed damage to existing streets, reviewed and designed repairs to existing streets, including roadway profiles and drainage requirements.

RR178 – St. Roch Group North Group C (FRC), City of New Orleans, LA, 11/2019-Present

As part of BBEC design team for this FEMA PA funded project, Mr. Housey met with DPW representatives and surveyed damage to existing streets, reviewed and designed repairs to existing streets, including roadway profiles and drainage requirements.



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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

**Madan Kamboj, P.E.
Project Engineer**

Project Assignment:

Project Engineer / Project Development

Name of Firm with which associated:



**Barowka and Bonura
Engineers and Consultants, L.L.C.**

Years' experience with this Firm:

3.5

Education: Degree(s)/Year/Specialization:

**M.S. / 1978 / Civil Engineering: Structures/Soil Mechanics
B.S. / 1967 / Civil Engineering**

Active registration: Year first registered/discipline:

1977 / Civil - Environmental

Other experience and qualifications relevant to the proposed Project:

Mr. Kamboj has more than 43 years of experience performing project design, construction administration, and project monitoring for general civil projects including drainage, utilities, streets, highways and bridges, buildings, water and sewer treatment plants, multi-story parking garages; airport taxiways, traffic separation facilities, bike paths, and overhead pedestrian walkways at high traffic intersections.

Key projects performed by Mr. Kamboj follow:

Gloria Drive Pump Station, Project No. 20-2022A, Lafitte Area Independent Levee District Drainage, Town of Jean Lafitte, LA., 02/2021 – Present

Mr. Kamboj is providing Structural and Foundation design of Gloria Drive Pumping Station and approximately 70 Ft. long Steel Sheet Pile wall supported by ASTM D25 Timber Piles. The Pump Station design incorporates designing foundations supported by 14"X 14" PPC Piles, Concrete Base Level, Middle Level and Roof Slabs, Concrete Enclosure Walls & Structural Supports for Pump Station Screens. The present Generator Structure will be enlarged and strengthen ally to accommodate new electrical equipment.

Laplace Water Intake Pump Station and Pre-Treatment Facility, St. John the Baptist Parish, LA, 08/2022-Present

Mississippi Riverside Pump Station & Transfer Pump Station

Mr. Kamboj is designing the layout of the pump station, plan and typical sections, roof structure, wind analysis and seismic category determination, structural framing. He is performing foundation design, selection of driven piles, wave analysis and barge collision forces to superstructure and substructure.

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Waskey Bridge from Pump station at The River to Mississippi River Levee (850 Ft. Length)

Mr. Kamboj is designing plan & typical sections, railing for vehicle impact, precast concrete panels for structure, precast bent design and selection of foundation and driven piles for all load transfer to the underlying soils.

Ormond CN Railway Culverts, Project No. P200801, Ordinance No. 20-9-5, St. Charles Parish, LA, 10/2020 – Present

Mr. Kamboj is performing the structural engineering for this project, which includes improving the drainage systems parallel to, and crossing Canadian National (CN) Railroad System in the Ormond Estates area on the east bank of St. Charles Parish. Six (6) individual project sites have been identified for drainage improvements, each described more fully below:

Site 1 – Ducayet Drive

This project includes the construction of new drainage culverts crossing the CN railroad near Ducayet Drive to provide improved drainage capacity and conveyance in the area. The project includes installation of three (3) new 60-inch steel culverts below the railroad track using trenchless jack and bore methods. The project also includes the construction of steel sheetpile cofferdams at both the jacking and receiving pits to provide excavation protection during construction. CN Railroad required the design engineer (BBEC) to develop cofferdam designs. And, the cofferdams for the jacking pit required BBEC to estimate the jacking loads so the jacking pit could be used to support the jacking operation. Additionally, the project includes the installation of cast-in-place concrete inlet and outlet structures, u-channels, concrete flumes, drainage pipe connections, and cleaning and regrading the connecting drainage canals and lining the canals with geosynthetic cementitious composite matting for bank stabilization. Mr. Madan Kamboj performed the structural engineering calculations and design of all structural components of this project, including steel sheetpile cofferdam retaining structures, jacking and receiving pits, reinforced concrete headwalls, inlet and outlet structures, and channels. Mr. Kamboj estimated the pipe jacking loads to adequately design the jacking pit for the jack and bore operation. Additionally, Mr. Kamboj designed the erosion protection measures at the canal bank slopes, including the geosynthetic cementitious composite matting and installation details.

Site 2 – Ormond Oaks Drive

This project includes the construction of new drainage culverts crossing the CN railroad near Ormond Oaks Drive to provide improved drainage capacity and conveyance in the area. The project includes installation of two (2) new 54-inch steel culverts below the railroad track using trenchless jack and bore methods. The project also includes the construction of steel sheetpile cofferdams at both the jacking and receiving pits to provide excavation protection during construction. CN Railroad required the design engineer (BBEC) to develop cofferdam designs. And, the cofferdams for the jacking pit required BBEC to estimate the jacking loads so the jacking pit could be used to support the jacking operation. Additionally, the project includes the installation of cast-in-place concrete inlet and outlet structures, u-channels, concrete flumes, drainage pipe connections, and cleaning and regrading the connecting drainage canals and lining the canals with geosynthetic cementitious composite matting for bank stabilization. Mr. Madan Kamboj performed the structural engineering calculations and design of all structural components of this project, including steel sheetpile cofferdam retaining structures, jacking and receiving pits, reinforced concrete headwalls, inlet and outlet structures, and channels. Mr. Kamboj estimated the pipe jacking loads to adequately design the jacking pit for the jack and bore operation. Additionally, Mr. Kamboj designed the erosion protection measures at the canal bank slopes, including the geosynthetic cementitious composite matting and installation details.

Site 3 – Murray Hill Drive Drain Line

This project includes the construction of 400 linear feet of new 60-inch RCP drain line running parallel to and running along the south side of the CN Railroad from Murray Hill Drive to the Site 2 culverts. BBEC performed preliminary design of this project, including plan/profile drawing sheets. Mr. Madan Kamboj performed the structural engineering calculations and design of all structural components of this project, including steel sheetpile cofferdam retaining structures, jacking and receiving pits, reinforced concrete headwalls, inlet and outlet structures, and channels.

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Site 4 – Destrehan Drive Culvert Headwalls and Ditch Bank Stabilization

This project includes the widening of existing drainage canals parallel to the railroad, performing bank stabilization measures along the canal segment at both ends, and construction of new concrete headwalls at the existing railroad culvert inlet and outlet ends. Mr. Madan Kamboj performed the preliminary engineering design of the structural components of this project, including steel sheetpile cofferdam retaining structures and reinforced concrete headwalls. Additionally, Mr. Kamboj designed the erosion protection and stabilization measures at the canal bank slopes, including the geosynthetic cementitious composite matting.

Site 5 – Longview Drive Culvert Crossing

This project includes the construction of a new drainage culvert crossing the CN railroad near Longview Drive to provide improved drainage capacity and conveyance in the area. The project includes installation of one (1) new 48-inch steel culvert next to the existing culvert below the railroad track using trenchless jack and bore methods. Mr. Madan Kamboj performed the preliminary structural engineering calculations and preliminary design of all structural components of this project, including steel sheetpile cofferdam retaining structures, jacking and receiving pits, reinforced concrete headwalls, inlet and outlet structures, and channels. Mr. Kamboj estimated the pipe jacking loads to adequately design the jacking pit for the jack and bore operation. Additionally, Mr. Kamboj designed the erosion protection measures at the canal bank slopes, including the geosynthetic cementitious composite matting and installation details.

Site 6 – South Destrehan Avenue Culvert Crossings

This project includes the construction of new drainage culverts crossing the CN railroad near South Destrehan Avenue to provide improved drainage capacity and conveyance in the area. The project includes installation of three (3) new 54-inch steel culverts next to the two existing culverts below the railroad track using trenchless jack and bore methods. Mr. Madan Kamboj performed the preliminary structural engineering calculations and preliminary design of all structural components of this project, including steel sheetpile cofferdam retaining structures, jacking and receiving pits, reinforced concrete headwalls, inlet and outlet structures, and channels. Mr. Kamboj estimated the pipe jacking loads to adequately design the jacking pit for the jack and bore operation. Additionally, Mr. Kamboj designed the erosion protection measures at the canal bank slopes, including the geosynthetic cementitious composite matting and installation details.

Westbank Mississippi River Bike Trail, Around Avondale Shipyard, (2017-059-RBP), Jefferson Parish, LA, 12/2020-Present

Mr. Kamboj is designing a 2.3 milelong bike path along River Road and finishing on the top of Mississippi River Levee. The bike path is designed to provide separated path to the pedestrians and shall provide safety by separating bike and pedestrian traffic. The project cost is \$350,000.

RR176 – St. Roch Group North Group A (PMOI), City of New Orleans, LA, 10/2019-Present

Mr. Kamboj is currently performing design services for FEMA-eligible street repairs in the area south of I-610, north of the Florida Ave. canal, east of N. Broad St., and west of Elysian Fields Ave. The scope of work for each street varies and includes the following types of work: replacement of sidewalks and driveways, incidental road repairs determined by FEMA, and full replacement of roadway section and subsurface sewer, water, and/or drainage. He is also assisting with the design of roadways receiving full pavement replacement and subsurface utility relocations/improvements and creating plans for the construction of the proposed work. The project contains 39 streets with a cost estimate of \$6,054,030.68.

RR177 – St. Roch Group North Group B (FRC), City of New Orleans, LA, 10/2019-Present

Mr. Kamboj is currently performing design services for FEMA-eligible street repairs in the area south of I-610, north of the Florida Ave. canal, east of Elysian Fields Ave., and west of St. Roch Ave. The scope of work for each street varies and includes the following types of work: replacement of sidewalks and driveways, incidental road repairs determined by FEMA, and full replacement of roadway section and subsurface sewer, water, and/or drainage. He is also assisting with the design of the roadways receiving full pavement replacement and subsurface utility

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relocations/improvements and creating plans for the construction of the proposed work. The project contains 33 streets with a cost estimate of \$6,161,483.33.

RR178 – St. Roch Group North Group C (FRC), City of New Orleans, LA, 10/2019-Present

Mr. Kamboj is currently performing design services for FEMA-eligible street repairs in the south of I-610, north of the Florida Ave. canal, east of St Roch Ave., and west of the Peoples Ave. canal. The scope of work for each street varies and includes the following types of work: replacement of sidewalks and driveways, incidental road repairs determined by FEMA, and full replacement of roadway section and subsurface sewer, water, and/or drainage. He is also assisting with the design of the roadways receiving full pavement replacement and subsurface utility relocations/improvements and creating plans for the construction of the proposed work. The project contains 48 streets with a cost estimate of \$5,485,357.95.



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

**Matthew Hahn, PE
Professional Engineer**

Project Assignment:

Design / Project Management

Name of Firm with which associated:



**Barowka and Bonura
Engineers and Consultants,**

Years' experience with this Firm:

2

Education: Degree(s)/Year/Specialization:

B.S. / 2016 / Civil Engineering

Active registration: Year first registered/discipline:

2020 / Civil

Other experience and qualifications relevant to the proposed Project:

Mr. Hahn has over eight years of experience in the field of civil and consulting engineering with a strong background in water resources, civil/site design, project management, and land surveying. His vast knowledge includes but is not limited to design and hydraulic modeling of water distribution systems, hydrologic modeling and drainage design, sewerage and wastewater treatment, site development and planning, structural design, public speaking, topographic land surveying, boundary surveying, floor elevation surveying, earthwork balancing and site grading, recreation facilities/athletic fields, public bid process, permitting, and construction administration and management.

Key projects performed by Mr. Hahn follow:

Avenue E Drainage Improvements, Jefferson Parish, LA, 02/2023-Present

As project manager, Mr. Hahn developed the drawings, specifications, and quantity estimates for subsurface drainage improvements along four (4) residential streets in Old Metairie. This project includes the installation of a new subsurface drainage trunk line along Avenue E and new drainage laterals along connecting side streets to improve drainage in the area. Mr. Hahn developed the engineering design and plans for new 48" and 36" RCP subsurface drain lines and incidental sewer, water, and roadway improvements.

Hill Heights Drainage Improvements – Phase 1, Project No. P190802, Ordinance No. 22-3-14, St. Charles Parish, LA, 04/2022 – 06/2023

Mr. Hahn managed the engineering and design of drainage improvements at the Hill Heights Canal in the Ormond Estates Subdivision on the east bank of St. Charles Parish. The project included the removal and replacement of

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the existing steel sheet pile wall along the east bank of the Canal with a new sheet pile wall with steel waler and cap plate. The new sheet pile wall is approximately 200 linear feet with 30-ft long steel sheet piles. The project included structural backfill behind the protected side of the wall, canal cleaning and grading, and drainage canal slope grading. As part of this project, Mr. Hahn provided technical engineering assistance during the bidding and construction phases of the project.

Drainage Evaluation of Metairie Road, Jefferson Parish, LA, 10/2017-03/2020

As Project Manager, Mr. Hahn used EPA SWMM software to complete a drainage assessment of a 2-mile segment of Metairie Road from Causeway Boulevard to Focis Street. Mr. Hahn modeled the drainage system, developed improvement alternatives, and prepared a report of findings.

U.S. Highway 51 Drainage Improvements, Town of Amite, LA, 02/2021-08/2021

As Project Manager, Mr. Hahn used EPA SWMM software to complete a drainage assessment of a 1-mile segment of U.S. Highway 51 in Amite City, LA. Mr. Hahn developed conceptual design of drainage improvements, sidewalk improvements, and developed cost estimates and a report of findings.

CN Railroad Culverts in Ormond, Project No. P200801, Ordinance No. 20-9-5, St. Charles Parish, LA, 04/2022 – Present

As a project engineer, Mr. Hahn is developing the plans, specifications, and cost estimates for this project which includes the construction of several new drainage culverts crossing and/or adjacent to the CN railroad in Destrehan, St. Charles Parish, LA. Mr. Hahn is also preparing the CN Railroad permitting documents for the new drainage improvements.

RR176 – St. Roch Group North Group A (PMOI), City of New Orleans, LA, 06/2022-Present

Mr. Hahn developed cost estimates and quantity estimates for FEMA-eligible road rehabilitation work as part of this project. This project includes assisting the City of New Orleans in assessment of the damage along the streets contained in this project, and providing design services for FEMA-eligible street repairs in the area south of I-610, north of the Florida Ave. canal, east of N. Broad St., and west of Elysian Fields Ave. The scope of work for each street varies and includes the following types of work: replacement of sidewalks and driveways, incidental road repairs determined by FEMA, and full replacement of roadway section and subsurface sewer, water, and/or drainage.

RR178 – St. Roch Group North Group C (FRC), City of New Orleans, LA, 04/2022-Present

Mr. Hahn developed cost estimates and quantity estimates for FEMA-eligible road rehabilitation work as part of this project. This project includes assisting the City of New Orleans in assessment of the damage along the streets contained in this project, and providing design services for FEMA-eligible street repairs in the area south of I-610, north of the Florida Ave. canal, east of N. Broad St., and west of Elysian Fields Ave. The scope of work for each street varies and includes the following types of work: replacement of sidewalks and driveways, incidental road repairs determined by FEMA, and full replacement of roadway section and subsurface sewer, water, and/or drainage.

Barataria Boulevard Right-Turn Lane in Marrero, Jefferson Parish, LA, 04/2020-05/2021

Mr. Hahn provided technical assistance with design and development of roadway improvements in Jefferson Parish, LA. This work included drafting and cost estimating of new right-turn lane improvements.

Jump Basin Road Improvements, Venice, LA, 06/2021-04/2022

Mr. Hahn developed conceptual designs of new roadway improvements of Jump Basin Road located near the Venice Port Complex in Venice, LA. in Jefferson Parish, LA. Mr. Hahn performed surveying work, design and cost estimating as part of this project.

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

**Ethan Jones, EI
Engineer Intern**

Project Assignment:

Design / Technical Specifications

Name of Firm with which associated:



**Barowka and Bonura
Engineers and Consultants, L.L.C.**

Years' experience with this Firm:

2

Education: Degree(s)/Year/Specialization:

B.S. / 2022 / Civil Engineering

Active registration: Year first registered/discipline:

2022 / EI

Other experience and qualifications relevant to the proposed Project:

Mr. Jones is a recent graduate from Louisiana State University where he obtained a Civil Engineering degree in May of 2022 and became an Engineer Intern in June of 2022. He is currently working on projects for Wastewater Treatment where he is gathering measurements and doing calculations to find velocity through pipes for the selection of pumps and creating plan sets for submittals. Mr. Jones has also done Grant Management where he has visited sites to gather measurements for sketches and worked on volumetric cut and fill calculations for clearing residential canals in Lafitte. Mr. Jones has also worked on Roadway and Drainage projects where he has assisted with cost estimates for clients. Mr. Jones has used WaterGEMS to model and analyze water systems for St. Tammany Parish. Additionally, Mr. Jones worked on aeration analysis for Flow Eq Basins. Mr. Jones is currently working on raw water intake for St. John the Baptist Parish.

Key projects performed by Mr. Jones follow:

Laplace Water Intake Pump Station and Pre-Treatment Facility, St. John the Baptist Parish, LA, 02/2023-Present

Mr. Jones is working on raw water intake for LaPlace where two alternatives are being considered. One on the river and one on the dry side of the levee. Mr. Jones is assisting in modeling the project, as well as selecting the pumps and pipe sizes to bring clean drinking water to the citizens of the Parish.

CN Railroad Culverts in Ormond, Project No. P200801, Ordinance No. 20-9-5, St. Charles Parish, LA, 06/2022 – Present

Mr. Jones worked on completing the cost estimate and making additions to the specifications for this project which includes the construction of several new drainage culverts crossing and/or adjacent to the CN railroad in

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Destrehan, St. Charles Parish, LA. Mr. Jones also assisted in preparing the CN Railroad permitting documents for the new drainage improvements.

RR176 – St. Roch Group North Group A (PMOI), City of New Orleans, LA, 06/2022-Present

Mr. Jones assisted in the creation of cost estimates to assure that the quantities that were on the submittals matched those of the cost estimate for FEMA-eligible road rehabilitation work as part of this project. This project includes assisting the City of New Orleans in assessment of the damage along the streets contained in this project, and providing design services for FEMA-eligible street repairs in the area south of I-610, north of the Florida Ave. canal, east of N. Broad St., and west of Elysian Fields Ave. The scope of work for each street varies and includes the following types of work: replacement of sidewalks and driveways, incidental road repairs determined by FEMA, and full replacement of roadway section and subsurface sewer, water, and/or drainage.

RR178 – St. Roch Group North Group C (FRC), City of New Orleans, LA, 06/2022-Present

Mr. Jones assisted in the creation of cost estimates to assure that the quantities that were on the submittals matched those of the cost estimate for FEMA-eligible road rehabilitation work as part of this project. This project includes assisting the City of New Orleans in assessment of the damage along the streets contained in this project, and providing design services for FEMA-eligible street repairs in the area south of I-610, north of the Florida Ave. canal, east of N. Broad St., and west of Elysian Fields Ave. The scope of work for each street varies and includes the following types of work: replacement of sidewalks and driveways, incidental road repairs determined by FEMA, and full replacement of roadway section and subsurface sewer, water, and/or drainage.

East St. Tammany Water Consolidation, 2022 Contract, St. Tammany Parish, LA, 08/2022-Present

This project includes development and analysis of a hydraulic model of water distribution systems in St. Tammany Parish, LA. As an Engineer Intern, Mr. Jones developed a hydraulic model to simulate existing conditions of the system in WaterGEMS. Mr. Jones performed calibration field testing of the water system by flow testing fire hydrants at selected locations in order to better calibrate the model. Mr. Jones assisted in the development of an engineering report of findings to supplement the hydraulic model and recommend improvements to the system.

Water Hydraulic Modeling in East St. Tammany Parish, 2023 Contract No. 23-048, St. Tammany Parish, LA, 04/2023-Present

This project includes continuing the development of the East St. Tammany Cross Gates water model. The existing model will be combined with other subdivisions to consolidate the water distribution system. Mr. Jones performed calibration field testing of the water system to be added to the Cross Gates water model by flow testing fire hydrants at selected locations in order to better supplement the hydraulic model and recommend improvements to the system. Mr. Jones assisted in the development of an engineering report of findings to supplement the hydraulic model and recommend improvements to the system.

Water Hydraulic Modeling in West St. Tammany Parish, 2023 Contract No. 23-042, St. Tammany Parish, LA, 04/2023-Present

This project includes developing and analyzing a hydraulic model of water distribution systems in West St. Tammany Parish, LA for the Bedico Creek System and the Faubourg Water System. The system includes 14 wells, some of which will be taken out of service upon construction of the improvements. Other wells will be kept to provide water. Mr. Jones performed calibration field testing of the water system by flow testing fire hydrants at selected locations in order to better calibrate the model. Mr. Jones assisted in the development of an engineering report of findings to supplement the hydraulic model and recommend improvements to the system.

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

**Ashton Bonura
Graduate Engineer**

Project Assignment:

Construction Services

Name of Firm with which associated:



**Barowka and Bonura
Engineers and Consultants, L.L.C.**

Years' experience with this Firm:

10

Education: Degree(s)/Year/Specialization:

**B.S. / 2022 / Civil and Environmental Engineering
B.S. / 2020 / General Business with an Entrepreneurship Minor**

Active registration: Year first registered/discipline:

Other experience and qualifications relevant to the proposed Project:

Mr. Bonura is a recent graduate from the University of New Orleans where he obtained a Civil and Environmental Engineering degree in December 2022. He has assisted the licensed engineers within the company for several years prior to earning his degree. Mr. Bonura has worked on projects that involve water and wastewater treatment, lift station design, roadway rehabilitation and drainage improvements, and sanitary landfill permit renewals.

Key projects performed by Mr. Bonura follow:

Westbank Mississippi River Bike Trail, Around Avondale Shipyard, (2017-059-RBP), Jefferson Parish, LA, 08/2019-Present

Mr. Bonura assisted on this project by reviewing the plans and creating quantity take-off for the construction cost estimate, addressed client comments, and worked with drafters and engineers for plan revisions. The project contains the area of River Rd. from east of Avondale shipyard to LA 18 and the stretch of LA-18 up until the existing bike path access ramp west of the shipyard. The project includes the installation of a bike path on top of the levee, restriping existing shoulder to be repurposed as a bike path, widening the road to allow for bike travel, and addition of subsurface drainage in areas indicated by Jefferson Parish.

Cleary Improvements (Veterans Blvd. to West Esplanade Ave.) (Council District 5) Jefferson Parish, LA, Public Works No. 2017-014-RBP, 08/2019-06/2021

Mr. Bonura assisted on this project by reviewing the plans and creating quantity take-off for the construction cost estimate, addressed client comments, and worked with drafters and engineers for plan revisions. Mr. Bonura

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worked with the resident inspector to reviewed plans and field work to verify the work performed by the contractor to verify final contract quantities. The project contains the area of Cleary Ave. from Veterans Blvd. to W. Esplanade Ave. The repairs to be made include removing and replacing the existing concrete roadway, adding improvements to the subsurface drainage system, and relocating any utilities that were conflicts.

RR176 – St. Roch Group North Group A (PMOI), City of New Orleans, LA, 12/2019-Present

Mr. Bonura assisted on this project by reviewing the plans and creating quantity take-off for the construction cost estimate, addressed client comments, and worked with drafters and engineers for plan revisions. The project area consists of the streets in the area south of I-610, north of the Florida Ave. canal, east of N. Broad St., and west of Elysian Fields Ave. The scope of work for each street is either replacement of sidewalks and driveways, incidental road repairs determined by FEMA, or full replacement of roadway section and subsurface sewer, water, and/or drainage.

RR177 – St. Roch Group North Group B (FRC), City of New Orleans, LA, 12/2019-Present

Mr. Bonura assisted on this project by reviewing the plans and creating quantity take-off for the construction cost estimate, addressed client comments, and worked with drafters and engineers for plan revisions. The project area consists of the streets in the area south of I-610, north of the Florida Ave. canal, east of Elysian Fields Ave., and west of St. Roch Ave. The scope of work for each street is either replacement of sidewalks and driveways, incidental road repairs determined by FEMA, or full replacement of roadway section and subsurface sewer, water, and/or drainage.

RR178 – St. Roch Group North Group C (FRC), City of New Orleans, LA, 12/2019-Present

Mr. Bonura assisted on this project by reviewing the plans and creating quantity take-off for the construction cost estimate, addressed client comments, and worked with drafters and engineers for plan revisions. The project area consists of the streets in the area south of I-610, north of the Florida Ave. canal, east of St Roch Ave., and west of the Peoples Ave. canal. The scope of work for each street is either replacement of sidewalks and driveways, incidental road repairs determined by FEMA, or full replacement of roadway section and subsurface sewer, water, and/or drainage.

Water Hydraulic Modeling in East St. Tammany Parish, 2023 Contract No. 23-048, St. Tammany Parish, LA, 04/2023-Present

St. Tammany Parish Government (Parish) retained Barowka and Bonura Engineers and Consultants (BBEC) to develop and analyze a computer model of existing potable water systems in Slidell, LA, as part of the Parish's East St. Tammany Water Consolidation Project Phase 2 (PPSL-VSF 23-19-5). This project has been phased into 3 tasks. The scope of Task 1 included development and calibration of an existing conditions model of the Cross Gates, Meadow Lake, and River Oaks water systems using WaterGEMS software. The model includes a detailed water distribution network including pipes, well pumps, storage tanks, valves, fittings, and fire hydrants, all based on site visits and information provided by St. Tammany Parish. Field testing was performed including fire hydrant flow and pressure tests to document system performance and calibrate and validate the water model to match field conditions. The existing conditions model was analyzed to determine water age/water quality, water pressure, and velocity parameters. Results of the model analysis and improvement recommendations were compiled in a report of findings. Task 2 of this project includes modeling and hydraulic analysis of the water system improvements, including two (2) new elevated storage tanks and several water main interconnections. Task 3 of this project includes updating, re-validating and calibrating the system model to reflect the water system improvements constructed. Mr. Bonura assisted the key personnel in the development of an engineering report of findings to supplement the hydraulic model and recommend improvements to the system. Mr. Bonura also assisted in the field testing of fire hydrants to better calibrate the model.

Water Hydraulic Modeling in West St. Tammany Parish, 2023 Contract No. 23-042, St. Tammany Parish, LA, 04/2023-Present

St. Tammany Parish Government (Parish) retained Barowka and Bonura Engineers and Consultants (BBEC) to develop and analyze a computer model of existing potable water systems in West St. Tammany Parish, as part of

TEC Professional Services Questionnaire

the Parish's West St. Tammany Water Consolidation Project (PPSL-VSF 23-20-5). This project has been phased into 3 tasks. The scope of Task 1 included development and calibration of an existing conditions model of the Faubourg Coquille and Bedico Creek water systems using WaterGEMS software. The model includes a detailed water distribution network including pipes, well pumps, storage tanks, valves, fittings, and fire hydrants, all based on site visits and information provided by St. Tammany Parish. Field testing was performed including fire hydrant flow and pressure tests to document system performance and calibrate and validate the water model to match field conditions. The existing conditions model was analyzed to determine water age/water quality, water pressure, and velocity parameters. Results of the model analysis and improvement recommendations were compiled in a report of findings. Task 2 of this project includes modeling and hydraulic analysis of the water system improvements, including water main improvements to interconnect the Faubourg Coquille and Bedico Creek systems, and interconnect the Bedico Creek system to the Fox Branch Subdivision. New elevated storage tanks at the Bedico Creek water system and other areas were also assessed. Task 3 of this project includes updating, re-validating and calibrating the system model to reflect the water system improvements constructed. Mr. Bonura assisted the key personnel in the development of an engineering report of findings to supplement the hydraulic model and recommend improvements to the system. Mr. Bonura also assisted in the field testing of fire hydrants to better calibrate the model.



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

**Pete Foret
Computer Aided Drafting**

Project Assignment:

Drafting / Technical Plans

Name of Firm with which associated:



**Barowka and Bonura
Engineers and Consultants, L.L.C.**

Years' experience with this Firm:

4

Education: Degree(s)/Year/Specialization:

**B.S. / 1995 / Business Administration with a Computer Science Option
and Management Minor**

Active registration: Year first registered/discipline:

Other experience and qualifications relevant to the proposed Project:

Mr. Foret is a multi-discipline AutoCAD drafter and designer with experience in the Civil, Structural, Architectural, Electrical and GIS/Mapping fields. He has a combined 33 years of experience generating alignments, plan and profile sheets, cross sections, contour maps, structural and architectural plans, and details and electrical one-line diagrams. Mr. Foret has prepared site plans for over 500 residential properties which are used to perform environmental assessments and archaeological investigations by FEMA EHP and the State Historic Preservation Office. He has been the drafting coordinator for multiple firms and has been responsible for developing drafting standards for a consistent and quality drawing set.

Key projects performed by Mr. Foret follow:

Gloria Drive Pump Station, Project No. 20-2022A, Lafitte Area Independent Levee District Drainage, Town of Jean Lafitte, LA, 02/2021-Present

Mr. Foret set up the survey and generated a preliminary site plan for a drainage pump station.

East Bank Water Treatment Plant Improvements, Jefferson Parish, LA., 07/2020-Present

Mr. Foret was responsible for plan preparation following established project standards. Plans included a site layout for the routing of new chemical feed lines over an existing survey and avoiding existing utilities. Drawings also included details necessary for the proper routing and installation of the new feed lines.

CN Railroad Culverts in Ormond, Project No. P200801, Ordinance No. 20-9-5, St. Charles Parish, LA, 10/2020-Present

Mr. Foret set up the survey reference file with a baseline supplied by the railroad and created site plans for 6

TEC Professional Services Questionnaire

proposed construction sites including a plan/profile sheet for a new 425' long 60" drainpipe connecting two sites. He also generated multiple cross sections through the 6 construction sites as well as other details.

Craig Avenue Drainage Improvements, Public Works Project No. 2019-022-DR, Jefferson Parish, LA, 10/2020-Present

Mr. Foret updated the plan/profile sheets with a new proposed roadway grade line.

Ames Boulevard Rehabilitation, West Bank Expressway to Happy Street, (Public Works Project No. 2013-033-RB) (DOTD No. H.011797), Jefferson Parish, LA., 07/2020-Present

Mr. Foret was involved with the 98% and 100% Final submittal of roadway design plans to the LADOTD. This involved updating the project border on all sheets to the current LADOTD border while maintaining LADOTD standards. The drawing set included a standard LADOTD title sheet as well as plan sheets, typical sections, cross sections, core boring sheets, LADOTD and Jefferson parish special detail sheets and associated summary and quantities table sheets.

RR176 – St. Roch Group North Group A (PMOI), City of New Orleans, LA., 07/2020-Present

Mr. Foret generated the 100% submittal drawings on this project. This drawing submittal contained plan and profile sheets that included proposed centerline and gutter line profiles as well as existing centerline, gutter line, sidewalk, right of way and utilities grades and profiles in the project area. Mr. Foret was also responsible for ensuring that the drawing set conformed to City of New Orleans Department of Public Works drawing standards.

RR177 – St. Roch Group North Group B (FRC), City of New Orleans, LA., 07/2020-Present

Mr. Foret generated the 100% submittal drawings on this project. This drawing submittal contained plan and profile sheets that included proposed centerline and gutter line profiles as well as existing centerline, gutter line, sidewalk, right of way and utilities grades and profiles in the project area. He also generated cross sections based on project guidelines. Mr. Foret was also responsible for ensuring that the drawing set conformed to City of New Orleans Department of Public Works drawing standards.

RR178 – St. Roch Group North Group C (FRC), City of New Orleans, LA., 07/2020-Present

Mr. Foret generated the 100% submittal drawings on this project. This drawing submittal contained plan and profile sheets that included proposed centerline and gutter line profiles as well as existing centerline, gutter line, sidewalk, right of way and utilities grades and profiles in the project area. He also generated cross sections based on project guidelines. Mr. Foret was also responsible for ensuring that the drawing set conformed to City of New Orleans Department of Public Works drawing standards.

TEC Professional Services Questionnaire

L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.		
PROJECT NO. 1		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Gloria Drive Pump Station, Project No. 20-2022A, Lafitte Area Independent Levee District, Town of Jean Lafitte, LA</p> <p>Lafitte Area Independent Levee District Timothy P. Kerner, Jr., President 2654 Jean Lafitte Boulevard Lafitte, LA 70067 timkerner@townofjeanlafitte.com (504) 689-2208</p>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <div style="background-color: #0056b3; color: white; padding: 5px; margin-bottom: 10px;"> <u>Applicable Experience</u> </div> <ul style="list-style-type: none"> Project Evaluation Project Design Drafting of Technical Plans Development of Technical Specifications Construction Administration </div> <div style="width: 50%;"> <p>BBEC is providing Design Engineering Services for the Gloria Drive Pump Station Improvement Project which consists of expanding the existing pump station by doubling its capacity from 45 cfs to 90 cfs.</p> <p>The existing pump station has one pump on a pile supported structure, adjacent to an existing levee. The existing pump discharge pipe runs through the levee, discharging on the other side. On the pump station side, the levee is supported by a timber bulkhead, part of which has deteriorated over time. When constructed, the levee project provided for a second pipe penetration in anticipation of this project. The pump station has an existing stand-by generator, which was appropriately sized for the single pump.</p> <p>The proposed scope of the 45 cfs expansion includes:</p> <ul style="list-style-type: none"> Installing a new 45 cfs pump in line with the second discharge pipe provided by the levee project Constructing a new reinforced concrete pump station structure for both pumps, with bar screens (mechanical if funding allows) at the entrance. The new structure will replace the deteriorating timber bulkhead, as well. Repairing or replacing the timber bulkhead wall not addressed by the pump station structure. Installing a new generator structure and generator sized to run both pumps and incidental equipment. Extending the new pump discharge pipe as required and providing for scour protection at the outfall. Building the project in phases to utilize the existing pump during construction or providing temporary pumping during construction. </div> </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2025 (est.)	\$3,210,468	\$3,210,468

TEC Professional Services Questionnaire

PROJECT NO. 2		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Drainage Pump Stations Improvements, St. Bernard Parish, LA</p> <p>St. Bernard Parish Donald R. Bourgeois, Capital Projects Manager Department of Public Works 1125 E. St Bernard Hwy. Chalmette, LA 70043 dbourgeois@sbgp.net (504) 278-4250</p>	<div style="display: flex; align-items: flex-start;"> <div style="background-color: #0056b3; color: white; padding: 10px; margin-right: 10px;"> <p><u>Applicable Experience</u></p> <ul style="list-style-type: none"> Project Evaluation Project Design Drafting of Technical Plans Development of Technical Specifications Construction Administration </div> <div> <p>BBEC evaluated the condition and performance of the Parish's 18 existing drainage pump stations in St. Bernard Parish and made recommendations for improvements. The evaluation consisted of site visits to observe condition and make test pump runs to measure performance, developing computer models to evaluate alternatives for improvements, perform hydrologic analysis to determine required capacity, and evaluate costs of improvements to arrive at the most cost-effective improvements. BBEC prepared plans and specifications for several stations.</p> </div> </div>	
<p>Completion Date (Actual or estimated):</p>	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2005 (actual)	\$400,000 (fee)	\$400,000 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 3						
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:					
<p>Design of Access Ways and Ladders at Drainage Pump Stations, Project No. 2014-022-DR, Jefferson Parish, LA</p> <p>Jefferson Parish Government Mitchell Theriot, P.E., Director Department of Drainage 1221 Elmwood Park Blvd., Suite 907 Jefferson, LA 70123 MTheriot@jeffparish.net (504) 736-6753</p>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <div style="background-color: #0056b3; color: white; padding: 5px; margin-bottom: 10px;"><u>Applicable Experience</u></div> <ul style="list-style-type: none"> Project Evaluation Project Design Drafting of Technical Plans Development of Technical Specifications Construction Administration </div> <div style="width: 50%;"> <p>The projects included the design of access ways and ladders at various drainage pump stations on the Eastbank and Westbank of Jefferson Parish identified as follows: Project I: Bonnabel, Elmwood, Estelle No. 1, Estelle No. 2, Hero, Lake Cataouche No. 2 and Westminster. Project II: Suburban, Duncan and Planters. Project III: Parish Line, Ames, Bayou Segnette, Mount Kennedy, Westwego No. 2 and Whitney-Barataria. Jefferson Parish determined the need for protected access ways and ladders at drainage pump stations to allow operators safe movement to outside equipment. BBEC prepared cost estimates and designed ladders, stairs, and elevated walkways in 16 drainage pump stations to connect elevated structures and allow personnel to access the top of structures within Jefferson Parish. Design included analysis and details to retrofit new items to existing structures. BBEC also performed Bidding, Construction Management, Resident Inspection and As-built services for Project I.</p> </div> </div>					
<p>Completion Date (Actual or estimated):</p>	<p style="text-align: center;">Estimated Cost:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 33%; padding: 5px; text-align: center;">Entire Project:</th> <th style="width: 33%; padding: 5px; text-align: center;">Work for which Firm was Responsible:</th> </tr> </thead> <tbody> <tr> <td style="width: 33%; text-align: center; padding: 5px;">2019 (actual)</td> <td style="width: 33%; text-align: center; padding: 5px;">\$1,550,249</td> </tr> </tbody> </table>		Entire Project:	Work for which Firm was Responsible:	2019 (actual)	\$1,550,249
Entire Project:	Work for which Firm was Responsible:					
2019 (actual)	\$1,550,249					

TEC Professional Services Questionnaire

PROJECT NO. 4						
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:					
<p>East Bank Water Treatment Plant Improvements, Jefferson Parish, LA</p> <p>Jefferson Parish Government Mark Drewes, P.E., Director Department of Public Works 1221 Elmwood Pk. Blvd., Suite 904 Jefferson, LA 70123 MDrewes@jeffparish.net (504) 736-6783</p>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <div style="background-color: #0056b3; color: white; padding: 5px; margin-bottom: 10px;"> <u>Applicable Experience</u> <ul style="list-style-type: none"> Project Evaluation Project Design Drafting of Technical Plans Development of Technical Specifications Construction Administration </div> <p>connected to other plant functions so the station will be operated through the main plant's control system. The structure will be a cast-in-place concrete substructure with a CMU wall superstructure.</p> <ul style="list-style-type: none"> The paving, grading, and drainage is a two-phased project for an almost 9-acre plant site. The work includes connecting to existing and new buildings, connecting to existing pavement and utilities, and the design of parking facilities and delivery and loading facilities. The yard piping consists of about 2,500 feet of 36-inch to 54-inch pipe, and several thousand feet of smaller pipe, navigating through a site congested with many conflicts. The work is designed to connect to existing systems with automated remote-controlled valves and valve boxes and by minimizing disruption to plant services. Water carried includes raw river water, clarified water, filtered water, and finished water throughout the treatment facility. <p>The work also includes coordinating with other engineering disciplines (structural, geotechnical, mechanical, architectural, electrical, and instrumentation) and the project owner.</p> </div> <div style="width: 50%;"> <p>BBEC is currently designing the 40 mgd remote high service pumping station, site paving, grading, and drainage, and yard piping.</p> <ul style="list-style-type: none"> The remote high service pump station consists of 3 installed and the complete set up for 1 future 20-inch vertical turbine pumps mounted in a "can" installation. The controls will be </div> </div>					
<p>Completion Date (Actual or estimated):</p>	<p style="text-align: center;">Estimated Cost:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%; padding: 5px; text-align: center;">Entire Project:</th> <th style="width: 50%; padding: 5px; text-align: center;">Work for which Firm was Responsible:</th> </tr> <tr> <td style="width: 50%; text-align: center; padding: 5px;">2025 (est.)</td> <td style="width: 50%; text-align: center; padding: 5px;"> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%; text-align: center;">\$7,605,000 (BBEC Portion)</div> <div style="width: 50%; text-align: center;">\$7,605,000 (BBEC Portion)</div> </div> </td> </tr> </table>		Entire Project:	Work for which Firm was Responsible:	2025 (est.)	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%; text-align: center;">\$7,605,000 (BBEC Portion)</div> <div style="width: 50%; text-align: center;">\$7,605,000 (BBEC Portion)</div> </div>
Entire Project:	Work for which Firm was Responsible:					
2025 (est.)	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%; text-align: center;">\$7,605,000 (BBEC Portion)</div> <div style="width: 50%; text-align: center;">\$7,605,000 (BBEC Portion)</div> </div>					

TEC Professional Services Questionnaire

PROJECT NO. 5

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:
<p>Laplace Water Intake Pump Station and Pre-Treatment Facility, St. John the Baptist Parish, LA</p> <p>St. John the Baptist Parish Government Reed Alexander, Director Department of Utilities 1801 W. Airline Hwy Laplace, LA 70068 r.alexander@stjohn-la.gov (985) 652-9569</p>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <div style="background-color: #0056b3; color: white; padding: 5px; margin-bottom: 10px;"><u>Applicable Experience</u></div> <ul style="list-style-type: none"> Project Evaluation Project Design Drafting of Technical Plans Development of Technical Specifications Construction Administration </div> <div style="width: 50%;"> <p>BBEC is currently designing an 8.64 pretreatment facility for St. John the Baptist Parish to prepare water from the Mississippi River for membrane filtration to be used as potable water for the citizens of St. John the Baptist Parish. The project includes the following components:</p> <ul style="list-style-type: none"> Raw Water Pump Station. The raw water pump station consists of 3 vertical pumps rated at 3,000 gpm each located on the flood side of the Mississippi River levee. The pumps will be run by variable frequency drives to allow for the flow to be as needed as determined by the demand on the discharge side of the treated water facilities. The work includes a 24-inch raw water line and an 8-inch sludge line crossing the levee and state-owned River Road from the pump station to the land-side pretreatment facility. The project includes an approximate 800-foot bridge providing access from the top of the levee to the pump station. The controls will be connected to other plant functions so the station will be operated through the main plant's control system. The structure will be a pile supported cast in place concrete substructure with a metal building superstructure. Civil / Sitework. The paving, grading, and drainage is for an 18-acre plant site. The work includes developing an undeveloped wooded site into a plant site containing four clarifiers, an administration/safe room building, a transfer pump station, sludge pump station, chemical feed and storage facilities, and interconnecting yard piping. The paving portion allows for parking and materials and equipment deliveries for WB-60 and other vehicles. The yard piping consists of about 2,500 feet of various pipe sizes up to 30-inch pipe. Clarifiers. The clarification system consists of (4) 2.9 mgd upflow clarifiers, including coagulant feed and storage. Transfer Pump Station. The transfer pump station consists of 3 vertical turbine pumps rated at 3,000 gpm each, run by variable frequency drives and 350 hp motors. Clarifier Waste Pump Station. The waste pump station consists of 2 vertical sludge pumps rated at 300 gpm each, designed to keep the solids suspended so that the waste can be returned to the river. Permitting. Permitting includes wetlands delineation, LaDOTD highway crossing, Levee district levee crossing, Corps of Engineers adjacent to levee and levee crossing, Corps of Engineers wetlands, Louisiana Coastal Use, and Wildlife and Fisheries Endangered Species permits. Administration/Safe House. An approximately 2,500 building is included to house the controls for all the Parish's water and wastewater facilities and provide safe living quarters for Parish personnel during storm and other disaster events. </div> </div>

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	The work also includes coordinating with other engineering disciplines (structural, geotechnical, mechanical, architectural, electrical, and instrumentation) and the project owner.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
	2025 (est.)	\$21,600,000

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PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Diamond Pump Station, Plaquemines Parish, LA</p> <p>Plaquemines Parish Government Krista Clark, Parish Engineer Department of Engineering and Public Works 333 F. Edward Hebert Blvd., Bldg. 500 Belle Chasse, LA 70037 kclark@ppgov.net (504) 297-5343</p>	<div style="display: flex;"> <div style="background-color: #0056b3; color: white; padding: 10px; margin-right: 10px;"> <u>Applicable Experience</u> <ul style="list-style-type: none"> Project Evaluation Construction Administration </div> <div> <p>BBEC provided Construction Inspection Services serving as the liaison between the Corp of Engineers and Plaquemines Parish. BBEC worked with members of CPRA in the review and QA process. This project is frontal protection for the Diamond pump station. The work consisted of construction of reinforced concrete floodwalls, clearing and grubbing, site drainage modifications, vertical wick drains, embankment material installed for preload/surcharge, steel sheet pile driving, steel H pile driving, concrete slope paving, concrete base slab and stem for T-walls, extending steel pump station discharge tube piping, installing backflow prevention and all mechanical components necessary per specification. Temporary Flood Protection and Temporary Restraining Structures using sheet piles, Struts, and whalers, required accomplishing the construction goals for the contract. These TRS were installed to facilitate the install and were removed once the below grade structures were complete. The earthen levee was reconfigured to tie into the newly installed T-wall. This project consisted of 8 monoliths. All monoliths consisted of the driving of sheet piles up to 45' in length and H piles up to 150' in length. All sheet piles were driven to grade on the project baseline. Sheet piles were also used to close off the existing discharge basin. This consisted of tying into the existing sheet pile structures and running piles into a curtain wall incorporated into the flood wall base slab. All grades/locations were verified using RTK method survey equipment provided by the contractor. All site/crane safety inspections followed USCAE EM-385 and were performed by BBEC and USACE QA.</p> </div> </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2015 (actual)	Unknown	\$9,050,000

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PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Duvic Pump Station, Plaquemines Parish, LA</p> <p>Plaquemines Parish Government Krista Clark, Parish Engineer Department of Engineering and Public Works 333 F. Edward Hebert Blvd., Bldg. 500 Belle Chasse, LA 70037 kclark@ppgov.net (504) 297-5343</p>	<div style="display: flex;"> <div style="background-color: #0056b3; color: white; padding: 10px; margin-right: 10px;"> <p><u>Applicable Experience</u></p> <ul style="list-style-type: none"> Project Evaluation Construction Administration </div> <div> <p>BBEC provided Construction Inspection Services serving as the liaison between the Corp of Engineers and Plaquemines Parish. BBEC worked with members of CPRA in the review and QA process. The work consisted of construction of reinforced concrete floodwalls, earthen levee construction, clearing and grubbing; painting; establishment of turf; placing crushed stone for roadway, bedding, geo-textile, driving steel sheet piling, steel H-piles, excavation, structural excavation and backfill, surfacing, drainage systems, electrical systems, back flow prevention, demolition of existing discharge pipes, construction of temporary flood protection and other incidental work. All site/crane safety inspections followed USCAE EM-385 and were performed by BBEC and USACE QA.</p> </div> </div>	
<p>Completion Date (Actual or estimated):</p>	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2015 (actual)	Unknown	\$8,368,342

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PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Ollie Pump Station, Plaquemines Parish, LA</p> <p>Plaquemines Parish Government Krista Clark, Parish Engineer Department of Engineering and Public Works 333 F. Edward Hebert Blvd., Bldg. 500 Belle Chasse, LA 70037 kclark@ppgov.net (504) 297-5343</p>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <div style="background-color: #0056b3; color: white; padding: 10px; margin-bottom: 10px;"> Applicable Experience <ul style="list-style-type: none"> Project Evaluation Construction Administration </div> </div> <div style="width: 50%;"> <p>BBEC provided Construction Inspection Services serving as the liaison between the Corp of Engineers and Plaquemines Parish. BBEC worked with members of CPRA in the review and QA process. This project was to provide frontal protection for the Ollie Pump Station. The work consisted of construction of reinforced concrete floodwalls, clearing and grubbing, site drainage modifications, steel sheet pile driving, extending steel pump station discharge tube piping, installing backflow prevention and all mechanical components necessary. Temporary Flood Protection and Temporary Restraining Structures using sheet piles, Struts, and whalers, are required to accomplish the construction goals for the contract. These TRS were installed and to facilitate the install and were removed once the below grade structures were complete. Asbestos and Lead Abatements included in the demolition on an existing pump station building. A bridge was constructed on the north side of the property to haul earthen levee embankment material and create a surcharge/preload of material to stabilize the sub-grade. The earthen levee will be reconfigured to tie into the newly installed floodwall. This project consisted of 10 monoliths. All monoliths consisted of the driving of sheet piles up to 45' in length and H piles up to 150' in length. All sheet piles were driven to grade on the project baseline. Sheet piles were also used to close off the existing discharge basin. This consisted of tying into the existing sheet pile structures and running piles into a curtain wall incorporated into the flood wall base slab. All grades/locations were verified using RTK method survey equipment provided by the contractor. All site/crane safety inspections followed USCAE EM-385 and were performed by BBEC and USACE QA.</p> </div> </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2015 (actual)	Unknown	\$12,208,595


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PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Wilkinson Pump Station, Plaquemines Parish, LA</p> <p>Plaquemines Parish Government</p> <p>Krista Clark, Parish Engineer</p> <p>Department of Engineering and Public Works</p> <p>333 F. Edward Hebert Blvd., Bldg. 500</p> <p>Belle Chasse, LA 70037</p> <p>kclark@ppgov.net</p> <p>(504) 297-5343</p>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <div style="background-color: #0056b3; color: white; padding: 5px; margin-bottom: 10px;"> Applicable Experience </div> <ul style="list-style-type: none"> Project Evaluation Construction Administration </div> <div style="width: 50%;"> <p>BBEC provided Construction Inspection Services serving as the liaison between the Corp of Engineers and Plaquemines Parish. BBEC worked with members of CPRA in the review and QA process. The work consisted of construction of a new pump station, new floodwall, new levees, berms and embankments, new channels and ditches, and demolition of the existing pump station. The pump station and floodwall construction consist of two phases of work.</p> <p>The first phase was construction and monitoring of the preload. Construction of the preload consisted of clearing and grubbing, sand fill placement, vertical wick drain installation, geotechnical instrumentation installation, and placing and compacting embankment.</p> <p>The second phase was construction of the pump station and floodwall. Construction of the pump station consists of clearing and grubbing, excavation, deep soil mix column installation, driving pile, placing reinforced concrete, placing and compacting embankment, and installing vertical pumps, engines, discharge piping, new discharge pipe supports, and other electrical and mechanical system. Construction of the new discharge pipe supports consists of driving pile, placing concrete beam, and constructing pipe support saddles. Construction of the pump station included a metal building system with safe room, an elevated fuel storage platform, a precast concrete ramp, reinforced concrete wing-walls, and a steel walkway above the discharge piping. Construction of the floodwall consisted of clearing and grubbing, excavation, driving pile, placing reinforced concrete, and placing and compacting embankment. Levee and embankment construction consisted of clearing and grubbing, excavation, placing sand fill and uncompacted fill, placing reinforcement geo-textile, placing and compacting embankment, and establishing turf. Channel and ditch construction consisted of excavation and placement of riprap with bedding. A new storm drainage system consisting of reinforced concrete pipe and inlet was constructed to convey storm water from the pump station and levee to the intake channel. Demolition of the existing pump station consisted of removal and storage of pumps, engines, and gears, demolition and removal of the pump station structure, elevated fuel storage tanks, fencing, retaining walls, and other structural, electrical, and mechanical systems.</p> </div> </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2015 (actual)	Unknown	\$34,000,000

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PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Drainage Pump Station Fuel Storage Secondary Containment, Jefferson Parish, LA,</p> <p>Jefferson Parish Government Mitchell Theriot, P.E., Director Department of Drainage 1221 Elmwood Park Blvd., Suite 907 Jefferson, LA 70123 MTheriot@jeffparish.net (504) 736-6753</p>	<div style="display: flex; align-items: flex-start;"> <div style="background-color: #0056b3; color: white; padding: 10px; margin-right: 10px; width: 25%;"> <u>Applicable Experience</u> <ul style="list-style-type: none"> Project Evaluation Construction Administration </div> <div style="flex-grow: 1;"> <p>BBEC designed secondary containment systems to contain diesel fuel at 11 west bank drainage pump stations so that the fuel from the largest storage tank on the site would be retained in the event of a diesel fuel spill. BBEC developed details for containment systems such as concrete retaining walls for tanks farms stored on existing slabs, and lining systems for earthen containment ponds if the slab option did not provide sufficient volume. BBEC provided the details to the Drainage Department, who in-turn advertised the work for public bid as funding allowed and administered the work through construction.</p> </div> </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2004 (actual)	\$250,000	\$250,000

TEC Professional Services Questionnaire

M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.		
Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1. N/A	N/A	BBEC's firm nor its staff has had any 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.		
<div style="text-align: center;">  <div style="margin-left: 20px;"> <p style="font-size: 1.2em; margin: 0;">Barowka and Bonura</p> <p style="font-size: 1.2em; margin: 0;">Engineers and Consultants, L.L.C.</p> </div> </div> <p style="margin-top: 20px;">Founded in 1997, BBEC is an engineering and computer consulting firm specializing in civil and environmental engineering, construction management, and grant pursuit and administration. BBEC became solely owned by Jeffrey Bonura, PE in January of 2023. As the sole member, Mr. Bonura oversees and manages all projects from implementation to completion.</p> <p>BBEC has substantial experience in all aspects of public works projects. Our staff has specific experience in project development, drainage design, construction administration, hydraulic and hydrologic modeling, alternative project evaluation, and drafting of technical plans and technical specifications. Our project experience also includes the necessary environmental permitting and property acquisition necessary to get any project done.</p> <div style="background-color: yellow; padding: 5px; margin-top: 10px;"> 1. PROFESSIONAL TRAINING AND EXPERIENCE BOTH GENERALLY AND IN RELATION TO THE TYPE AND MAGNITUDE OF WORK REQUIRED: </div>		

TEC Professional Services Questionnaire

Our training and experience are directly embedded in our staff. What follows are a list of key individuals anticipated for the project with brief resumes. Complete resumes are provided elsewhere in this SOQ.

BBEC's proposed Professional in Charge / Supervising Engineer, **Mr. Jeffrey Bonura, P.E.** has 37 years of experience in performing and managing design, bidding, construction (including inspector training and oversight), and as-built drawing phases of over \$200 million in Public Works construction projects that included all aspects of construction. Mr. Bonura also has substantial experience using computer models such as Storm CAD and Storm and Sanitary Select CAD to evaluate drainage systems and determine the optimum design for the site conditions.

In addition to Mr. Bonura:

- **Mr. Kevin Forschler, P.E., (BBEC)** (7 years of experience) has been designing and administering the construction of typical public works projects (sewer, drainage, and roadway); including the recent completion of the hydrologic and hydraulic modeling of the area associated with our Waggaman Hydraulic Study and the completion of the Bissonet Plaza Master Drainage Plan in Jefferson Parish.
- **Mr. John J. Housey, Jr, P.E., (BBEC)** (57 years of experience), administered the construction of over \$40 million roadway and drainage improvements for the last several years. His work includes projects such as Hurricane Damage Katrina Roadway Improvements and Drainage Repair in St. Bernard Parish, Drainage Pump Stations in Jefferson Parish, the Widening/Stabilization of Congressman Hebert, Creely, and Bluebird Canals in St. Bernard Parish, and the Lower 45 Evacuation Route Basin for the Lafitte Area Independent District.
- **Mr. Madan Kamboj, P.E. (BBEC)** (43 years of experience) has been performing project design, construction administration, and project monitoring for general civil projects including drainage, utilities, streets, highways and bridges, buildings, water and sewer treatment plants, multi-story parking garages; airport taxiways, traffic separation facilities, bike paths, and overhead pedestrian walkways at high traffic intersections.
- **Mr. Matthew Hahn, PE** (8 years of experience) is experienced in the field of civil and consulting engineering with a strong background in water resources, civil/site design, project management, and land surveying. His vast knowledge includes but is not limited to water distribution systems, hydrologic modeling and drainage design, sewerage and wastewater treatment, site development and planning, structural design, public speaking, topographic land surveying, boundary surveying, floor elevation surveying, earthwork balancing and site grading, recreation facilities/athletic fields, public bid process, permitting, and construction administration and management. Mr. Hahn is currently the Project Manager for the Avenue E Drainage Improvements in Jefferson Parish and recently managed the engineering and design of drainage improvements at the Hill Heights Canal in the Ormond Estates Subdivision on the east bank of St. Charles Parish.
- **Mr. Ethan Jones, E.I.,** (2.5 years of experience), is a recent graduate from Louisiana State University where he obtained a Civil Engineering degree in May of 2022 and became an Engineer Intern in June of 2022. He is currently working on projects for Wastewater Treatment where he is gathering measurements and doing calculations to find velocity through pipes for the selection of pumps and creating plan sets for submittals. Mr. Jones has also done Grant Management where he has visited sites to gather measurements for sketches and worked on volumetric cut and fill calculations for clearing residential canals in Lafitte. Mr. Jones has also worked on Roadway and Drainage projects where he has assisted with cost estimates for clients. Mr. Jones has used WaterGEMS to model and analyze water systems for St. Tammany Parish. Additionally, Mr. Jones worked on aeration analysis for Flow Eq Basins. Mr. Jones is currently working on raw water intake for St. John the Baptist Parish.
- **Mr. Ashton Bonura** (10 years of experience), is a recent graduate from the University of New Orleans where he obtained a Civil and Environmental Engineering degree in December 2022. He has assisted

TEC Professional Services Questionnaire

the licensed engineers within the company for several years including prior to earning his degree. Mr. Bonura has works on projects that involve water and wastewater treatment, lift station design, roadway rehabilitation and drainage improvements, and sanitary landfill permit renewals.

- **Mr. Pete Foret** (34 years of experience), is a multi-discipline AutoCAD drafter and designer with experience in the Civil, Structural, Architectural, Electrical and GIS/Mapping fields. His extensive experience includes generating alignments, plan and profile sheets, cross sections, contour maps, structural and architectural plans and details and electrical one-line diagrams. He has been the drafting coordinator for multiple firms and has been responsible for developing drafting standards for a consistent and quality drawing set.

2. SIZE OF FIRM, CONSIDERING NUMBER OF PROFESSIONAL AND SUPPORT PERSONNEL REQUIRED TO PERFORM THE TYPE OF ENGINEERING TASKS:

BBEC staff consists of 26 (including 6 licensed civil/structural engineers) professional, technical, and clerical personnel capable of handling all project and administrative tasks; all of which are available to work on the project. Mr. Bonura will manage projects through completion, making sure that all requirements of the projects are met. We have sufficient licensed and experienced engineers, junior engineers, technicians, and GIS and drafting support to effectively perform work with its existing staff.

Over the years, BBEC successfully performed well over \$100 million in fees of engineering and engineering related projects for various entities and municipalities throughout southeast Louisiana. The work performed includes surveying management, H & H modeling, project design and development, floodplain analysis and hazard mitigation, geographic information systems, and others. BBEC has substantial experience in working on many public works projects. We have worked as a company for 27 years for various locations in Southeast Louisiana, and Mr. Bonura worked an additional 10 years on projects prior.

BBEC proposes to utilize the firm of MCA Engineering to assist in the electrical and instrumentation engineering aspects related to the general design of the pump station and generator evaluation and design, alternate power source evaluation and design, and power source transfer evaluation and design. MCA may also support pump engine evaluation as needed.

3. CAPACITY FOR TIMELY COMPLETION OF NEWLY ASSIGNED WORK, CONSIDERING THE FACTORS OR TYPE OF ENGINEERING TASK, CURRENT UNFINISHED WORKLOAD, AND PERSON OR FIRM'S AVAILABLE PROFESSIONAL AND SUPPORT PERSONNEL:

Our wealth of experience with public works type projects in Jefferson Parish allows us to provide the Parish with the necessary knowledge of keeping the Project on schedule and within budget, adhering to the standards set forth by the Parish. BBEC can begin work immediately and devote the necessary manpower to continue with the work through completion within any reasonable schedule required by the Parish. BBEC has never failed to meet or exceed our clients' expectations on any of our projects.

Our current staff is more than sufficient to handle our current workload. We have contracts in the signing, design, and bidding phases of work. We continue to move our projects through the implementation process. As projects are implemented, the availability of staff increases.

Mr. Bonura will manage the project through completion, making sure that all the requirements of the project are met. BBEC has sufficient licensed and experienced engineers, junior engineers, technicians, and GIS and drafting support to effectively perform work with its existing staff and meet any schedules reasonably set by the Parish.

Mr. Bonura, P.E. has substantial experience with hydraulic (pumping) systems and will be performing pump

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evaluations and design.

Mr. Madan Kamboj, P.E. and Mr. Johnny Housey, P.E. both have over 40 years of experience in civil engineering projects and are available to evaluate any steel or concrete structural components as necessary to implement the needed repairs.

4. PAST PERFORMANCE BY PERSON OR FIRM ON PROJECTS OF OR SIMILAR COMPARABLE SIZE, SCOPE, AND SCALE:

BBEC has been providing design engineering, construction management, inspection services, and project control services to local, state and federal agencies throughout the state of Louisiana for over 27 years. BBEC relies heavily on its staff members to meet the needs of its clients which consists of certified, licensed, and registered individuals to guarantee our clients are provided with quality program leadership.

Of comparable size and scope, BBEC is nearly complete designing the Gloria Drive Drainage Pump Station, which station designs were reviewed by the Parish's Department of Drainage.

BBEC's proposed Professional in Charge, Mr. Jeffrey Bonura, P.E. has experience in performing and managing design, bidding, construction (including inspector training and oversight), and as-built drawing phases of over \$200 million in Public Works construction projects that included all aspects of construction. Prior to starting BBEC, our proposed client manager, Mr. Jeffrey Bonura, P.E. worked for an international engineering firm for 10 years primarily designing pumping stations and related facilities.

Since inception, BBEC has performed many pump-station evaluation and design projects as well as other water control facilities. Our experience includes managing and coordinating our various subconsultants to develop fail-safe power strategies.

BBEC has significant experience in Bidding, Construction Management, Inspection, and As-Built phases of work enabling us to promote the best methods of project management. Our experience also includes applying the latest computer technologies to manage the project's schedule, budget, and tracking of documentation, a primary function of the construction related phases of the work.

CAD SERVICES

BBEC has sufficient drafting support personnel currently on staff to work on design projects with our lead drafter having over 34 years of experience in Civil, Structural, Architectural, Electrical, and GIS/Mapping fields.

COST ESTIMATING

BBEC has in-depth knowledge and experience with accurate cost estimates for surrounding Parish projects. Our staff members include personnel skilled in estimates that perform detailed cost estimates for the majority of our projects, including Jefferson Parish. We adhere to national cost estimating standards to prepare "fair and reasonable" construction cost estimates. Our team also provides extensive construction expertise to augment and ground-truth cost estimating, scheduling, and constructability review activities.

PERMITTING

BBEC has done many permits where we obtained CPRA Coastal Use Permits, USACE of Engineers Section 10, Section 404, and Section 408 permits along with Levee Board Permits from the Pontchartrain Levee District and Permits from LDOTD for roadway clearances and tie-ins/driveway permits as well as others. Our team has successfully secured all of these permits on many previous and current projects.

In addition, we have also obtained dozens of DHH permits for water treatment and wastewater treatment facilities. BBEC has the experience and solid reputation with all of the regulatory agencies to assist the Parish in obtaining all the necessary permits noted.

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AGENCY COORDINATION

Our experience includes managing and procuring contractors and coordinating the work with the Environmental Protection Agency (EPA), FEMA, Louisiana Governor's Office of Homeland Security and Emergency Preparedness (GOHSEP), U.S. Department of Housing and Urban Development (HUD), Louisiana Department of Environmental Quality (LDEQ), State Historic Preservation Office (SHPO), U.S. Army Corps of Engineers (USACE), U.S. Department of Transportation (USDOT) and other State and Federal agencies.

CONSTRUCTION ADMINISTRATION SERVICES:

Our personnel's project experience demonstrates their individual ability to ensure compliance with various design guidelines and standards, perform constructability reviews, participate and add value to project meeting and inspections during all phases of a project, and assist in reviewing contract changes during all phases of the project.

BBEC staff have significant experience in Bidding, Construction Management, Inspection, and As-Built phases of work enabling us to promote the best methods of project management. Our experience also includes applying the latest computer technologies to manage the project's schedule, budget, and tracking of documentation, a primary function of the construction related phases of the work. As Construction Manager on previous and current projects, BBEC staff make sure that complete approved plans are submitted timely to the Purchasing Department, plan sales go smoothly and are properly documented, bidders' questions and comments are responded to promptly by addendum, and that the bids accepted are responsive and correct. We perform the typical construction management duties and ensure that the Owner receives a complete set of well-documented as-built drawings. Over the course of the years, our staff have become familiar with resolving construction-related problems such as public relations and complaint resolution, client satisfaction and change order negotiations.

We have experience with litigation with residents due to contractor activities, litigation with the contractors to resolve claims and other disputes, liquidated damage assessment, and litigation with bonding companies to complete the work of a defaulted contractor.

In addition to engineering staff, we have available GIS specialists, document management and application developers, and the necessary support staff to support a any project. We have in the past organized and maintained records (electronic and paper), developed cost and progress reports, and developed tracking and presentation maps and figures for over \$750 million in federally funded projects since Hurricane Katrina.

Our construction management and inspection experience include all aspects of a construction project. It also includes addressing resident complaints, working with a project surety to complete a project, and impacts on the project resulting from other projects or individuals.

Our work quality has been exceptional. Our typical construction project closes out with only a final change order balancing quantities and addressing buried items uncovered during the work. The change orders have not brought our projects out of budget. Most of the change orders on our projects reduce the overall contract amount by reducing conservative contract quantities.

BBEC's staff has performed and managed design, bidding, construction (including inspector training and oversight), and as-built drawing phases of about \$50 million in Jefferson Parish Department of Public Works construction projects that includes all aspects of construction similar to those in the project sought. BBEC's reputation for performance in Jefferson Parish is second to none.

5. LOCATION OF PRINCIPAL OFFICE WHERE WORK WILL BE PERFORMED:

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BBEC's main office is located at 209 Canal Street in Metairie. BBEC and our subconsultants, are all located in Jefferson Parish, where the work will be performed.

6. ADVERSARIAL LEGAL PROCEEDINGS BETWEEN THE PARISH AND THE PERSON OR FIRM PERFORMING PROFESSIONAL SERVICES, IN WHICH THE PARISH PREVAILED, OR ANY ONGOING PROCEEDINGS BETWEEN PARISH AND THE PERSON OR FIRM:

BBEC's firm nor staff has had any litigation with Jefferson Parish.

7. PRIOR SUCCESSFUL COMPLETION OF THE PROJECTS OF THE TYPE AND NATURE OF THE ENGINEERING SERVICES, AS DEFINED, FOR WHICH FORM HAS PROVIDED VERIFIABLE REFERENCES:

As noted throughout this Professional Services Questionnaire, BBEC and its staff members have an excellent history of service to Jefferson Parish, its departments, and its citizens. Our projects range from the smallest \$5,000 fee project to our largest \$60,000,000 fee project. Project descriptions are included in this qualifications submittal to substantiate our experience in previous contracts. We invite further scrutiny of our track record with the Parish through discussion with any of the Departments noted elsewhere in this document. BBEC has not been faulted for any time delays, cost overruns, and / or design inadequacies.

For Jefferson Parish projects completed or being completed by BBEC inclusive of Design of Access Ways and Ladders at Drainage Pump Stations, and the East Bank Water Treatment Plant Improvements project we offer the following:

- **Ben Lepine, P.E., Director of Drainage Department • Jefferson Parish • 1221**
Elmwood Park Blvd., Suite 907, Jefferson, LA. 70123 • 504-736-6753
- **Mark Drewes, Director of Public Works • Jefferson Parish • 1221** Elmwood Park Blvd., Suite 904, Jefferson, LA. 70123 • 504-736-6783
- **Mitchell Theriot, P.E., Department of Engineering • Jefferson Parish • 1221**
Elmwood Park Blvd., Suite 802, Jefferson, LA. 70123 • 504-736-6753

For recent projects we have performed that have similar drainage project development aspects for other clients, we offer the following references:

- **Timothy P. Kerner, Jr., President, Lafitte Area Independent District • 2654 Jean Lafitte Boulevard,** Lafitte, LA 70067 • 504-689-2208 • timkerner@townofjeanlafitte.com
- **Reed Alexander, Director, Department of Utilities • St. John the Baptist Parish • 1801 Airline** Hwy., Laplace, LA 70068 • 985-652-9569 • r.alexander@stjohn-la.gov
- **Krista Clark, Parish Engineer • Plaquemines Parish • 333 F. Edward Hebert Blvd., Bldg. 500,** Belle Chasse, LA 70037 • 504-297-5343
- **Donald Bourgeois, Jr., Capital Projects Supervisor • St. Bernard Parish • 1125 E. St. Bernard** Hwy, Chalmette, LA. 70043 • 504-278-4250

To simplify the submittal, the following projects for BBEC are listed in section L:

- Gloria Drive Pump Station, Project No. 20-2022A, Lafitte Area Independent Levee District, Town of Jean Lafitte, LA
- Drainage Pumping Stations Improvements, St. Bernard Parish, LA
- Design of Access Ways and Ladders at Drainage Pump Stations, Project No. 2014-022-DR, Jefferson

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- Parish, LA
- East Bank Water Treatment Plant Improvements, Jefferson Parish, LA
- Laplace Water Intake Pump Station and Pre-Treatment Facility, St. John the Baptist Parish, LA
- Diamond Pump Station, Plaquemines Parish, LA
- Duvic Pump Station, Plaquemines Parish, LA
- Ollie Pump Station, Plaquemines Parish, LA
- Wilkinson Pump Station, Plaquemines Parish, LA
- Boutte Drainage Improvements, St. Charles Parish, LA
- Drainage Pump Station Fuel Storage Secondary Containment, Jefferson Parish, LA

Additional Relevant Project Listing (not in section L):

East Bank Master Drainage Plan, Jefferson Parish, LA, 04/2023-Present

BBEC is currently updating Jefferson Parish's hydrologic and hydraulic model of its 50 square mile East Bank. BBEC worked with the Parish to identify relevant upgrades in the drainage system and has incorporated the improvements from 18 drainage projects into the Parish's SWMM model. To do so, BBEC modified the drainage features in the existing model including drainage subbasins, conduits (pipes and canals), storage areas, and pumping stations. BBEC is currently working with Jefferson Parish to develop criteria for prioritizing additional improvements. The resulting improvements will also be incorporated into the model. The project also includes the development of conceptual phase plans and construction cost estimates for the recommended improvement projects.

Avondale/Bridge City Drainage Evaluation (Area between the Mississippi River and the Union Pacific Railroad, from Huey P. Long Bridge to Avondale Garden Road), Jefferson Parish, LA

BBEC developed the topographical survey scope for the project and manages the surveyor for the Parish. BBEC is developing a hydraulic and hydrologic model using SWMM v.5 of the Project Area between the Mississippi River and the Union Pacific Railroad, from the Huey P. Long Bridge to Avondale Garden Road; and, developing various alternatives for improvements with cost estimates for the alternatives. BBEC will provide alternatives and associated cost estimates for improvements, including alternate channels to drain the Host Facility and rail yard area, alternatives to drain the Training Facility, potential locations for storage as an alternative to transmission, and alternatives to drain the Bridge City residential area.

Craig Avenue Drainage Improvements, Public Works Project No. 2019-022-DR, Jefferson Parish, LA, 01/2020-Present

BBEC's scope of work includes the design and construction administration services for the design of upgrades to subsurface drainage on Craig Avenue between Kawanee Avenue and West Esplanade Avenue. The project involves installing a large diameter drain line within 20 feet of residential structures and connecting this new drain line to the existing trunk line that runs along the opposite side of the road and to the existing catch basins on the cross streets of Craig Avenue. BBEC is overseeing the Surveying and Geotechnical Engineering services.

Digital Flood Insurance Rate Map, Jefferson Parish, LA

performed all GIS / Database Management services for the Jefferson Parish DFIRM Project, including documentation and preparation of maps and GIS data. BBEC was responsible for preparing Metadata Base according to "Content Standard for Digital Geospatial Metadata." BBEC prepared base maps including streets, railroads, canals, ditches, benchmarks and flood hazard contours to meet DFIRM specifications. BBEC was also responsible for generating maps to meet DFIRM specifications and to provide all data and maps in the correct format acceptable by FEMA. Considering that all work associated with the development of the DFIRMs

[illegible]

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was in strict compliance with the National Flood Insurance Program, BBEC has an intimate knowledge of the NFIP program.

Canal Monumentation Program, Jefferson Parish, LA, 01/2004-12/2005

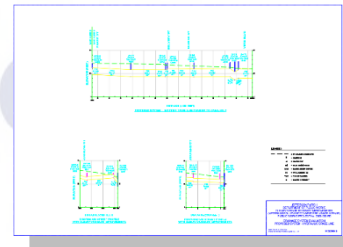
BBEC worked with the Parish's Drainage Department to develop and implement a canal monumentation project for the entire Parish. The project included stationing the canals with vertical and horizontal monuments strategically located, locating right of way and servitude information, researching existing data and projects for data relevant to the project such as current or past projects, subdivision plats, the Parish's GIS, and other information available for the implementation of the project.

Bissonet Plaza Master Drainage Plan (A/E Project No. 20-1708), Jefferson Parish, LA, 05/2018-05/2021

BBEC developed a hydrologic and hydraulic (H & H) model of a 180 acre residential (zoned R1) area in Jefferson Parish, Louisiana, said area bounded by Power Boulevard, Kawanee Avenue, West Esplanade Avenue, and the Elmwood Canal. BBEC developed a limited scope of services for the necessary topographical survey; provided oversight and reviewed the final topographic survey; developed the H & H model using third party software; coordinated the model with the Parish's own parish-wide H & H model; and provided the running model to others for evaluation of improvements.

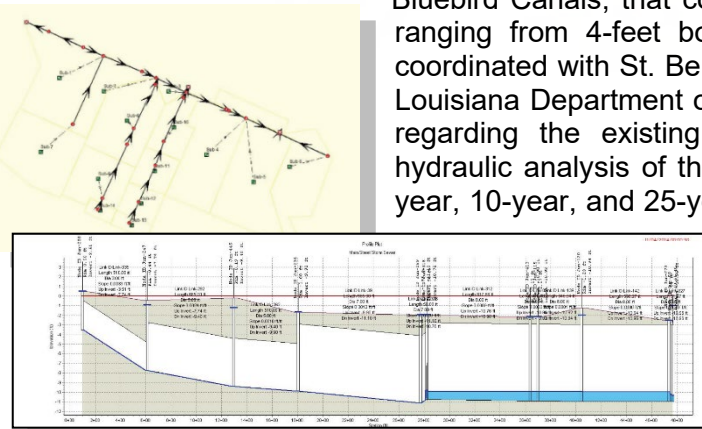
Cleary Avenue Roadway and Drainage Improvements, Jefferson Parish, LA

The project included reconstruction of approximately 4000 feet of concrete roadway, redesign of existing drainage system and general improvements to existing infrastructure on Cleary Avenue from Veterans Boulevard to West Esplanade Avenue. Hydraulic modeling and studies were performed on the existing drainage system to determine the size and location of new trunk lines to be constructed with this project. BBEC performed the modeling, design, evaluation (drainage under roadway), and bidding services. The project is currently under construction. BBEC performed construction administration and resident inspection services.



Widening / Stabilization of Congressman Hebert, Creely, and Bluebird Canals, St. Bernard Parish, LA, 01/2015-Present

The project includes increasing the capacity and improves the stability of Congressman Hebert, Creely, and Bluebird Canals, that consists of 11,600 linear feet of open canal and culverts ranging from 4-feet bottom width to 16-feet bottom width channels. BBEC coordinated with St. Bernard Parish, Lake Borgne Basin Levee District, and the Louisiana Department of Transportation and Development to obtain information regarding the existing drainage plan. BBEC performed a hydrologic and hydraulic analysis of the existing system to evaluate the entire area for the 5-year, 10-year, and 25-year storms. BBEC established the design cross sections for the channels, which included concrete u-channels, concrete box culverts, and round and arched pipe, and concrete lined trapezoidal sections, depending on the availability of land and other conditions. 50% Final Designs have been submitted to the client.



LA-45 Evacuation Route Basin Drainage Improvements, Lafitte Area Independent District, LA, 02/2020-Present

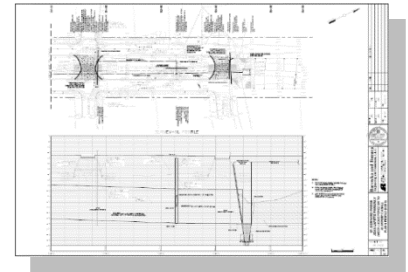
BBEC, performing as sub-consultant, developed H&H models for the LA-45 Evacuation Route Basin, both for existing conditions and to reflect the proposed Lafitte Tidal protection project. The analysis identified internal drainage problems resulting from the completion of the Tidal Protection project and established pipe, ditch,

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canal, and LADOTD roadway culvert sizes. BBEC also modeled discharge pump station and determined the capacity for each of the three pump stations. BBEC also provided Drainage Maps and Conceptual Storm Sewer Routing Plans to show ditches and storm sewer locations, and sized required, and identify any potential problem areas, plans and profiles, required right-of-way and construction access, and any impacts to existing properties.

Project Worksheet 20824 – Storm Drains, Jean Lafitte Parkway Drainage Line Repairs/Replacement, St. Bernard Parish, LA, 06/2014-11/2019

The project consisted of the complete replacement of about 4,200 linear feet of 72-inch to 96-inch drainpipe, with drainage structures and smaller lateral lines to collect stormwater from existing roadway catch basins. The project also included the replacement of roadway intersections where the drain line crosses streets. The project bid was \$3.9 million and the work is complete. BBEC performed all design, bidding, and is performing the construction services for the project. In addition to the normal design services, BBEC obtained a Coastal Use Permit determination, and USACE wetlands permit determination, and a SLFPA-E (regional levee district) permit for the project.



CN Railroad Culverts in Ormond, Project No. P200801, Ordinance No. 20-9-5, St. Charles Parish, LA, 10/2020 – Present

BBEC is performing engineering services related to improving the drainage systems crossing Canadian National (CN) Railroad System on the east bank of St. Charles Parish. The project includes the drainage facilities crossing and/or adjacent to the CN railroad at Ducayet Drive, Ormond Oaks Drive, Destrehan Drive, Longview Drive, Longwood Drive, and S. Destrehan Avenue. The project includes the installation of (6) 60-inch culverts, (2) 54-inch culverts, and (1) 48-inch culvert crossing the railroad at various locations. The project also includes the installation of 60-inch drainpipe, cast-in-place concrete box culverts, u-channels, and other drainage structures. BBEC is performing design, construction management, and permitting of the project. BBEC is also coordinating with and managing the surveying, and geotechnical engineering services.

Cypress Park Subdivision Drainage Evaluation, St. Tammany Parish, LA, 11/2016-12/2017

BBEC performed a hydraulic and hydrologic study of the Erindale Heights and Cypress Park Subdivisions (about 450 acres of single-family residential property). The study consisted of developing a computer model of the hydrology and drainage system consisting of natural channels, open ditches, closed conduits, and culverts. BBEC evaluated the 5, 10, 25, 50, and 100 year storms, and developed several alternatives for addressing the flooding concerns. BBEC provided pros and cons, permitting concerns, and construction cost estimates related to the alternatives. The alternatives considered included elevation adjustments to open channels, increased closed conduit usage and size of existing closed conduits, levees, and pump stations.

Bayou Gauche Drainage Analysis, St. Charles Parish, LA, 01/2003-12/2005

The project included updating the Parish's existing hydraulic and hydrologic computer models with current developments for the Sunset Drainage District watershed in St. Charles Parish. The Parish's existing HEC -1 and HEC-2 hydraulic models were evaluated and revised to include infrastructure improvements throughout the drainage district. The existing models were converted to HEC-RAS and HEC-HMS for use in this study and future evaluations. Model runs were performed to verify the need for drainage pump station improvements in the area and determine the improved capacity of the pump station.

Guichard Canal Area Drainage Evaluation, St. Bernard Parish, LA, 03/2004-04/2005

The project consisted of evaluating the ability of an existing drainage system to handle the 10-year storm for a 200-drainage basin in a residential area primarily consisting of open ditches and miscellaneous culverts with multiple outfalls into the Guichard Canal. The area is bounded by the Guichard Canal on the west, Paris Road on the east, Judge Perez Drive on the south, and Patricia Street on the north. The area also contained two

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drainage pump stations that were designed to drain the subsurface system, while the main volume of flow during the rain events utilized roadside ditches and some subsurface drain lines. BBEC developed a drainage layer in the Parish's GIS, surveyed elevations of the drainage features, developed a hydrologic and hydraulic model for the area, modeled the area and determined all deficient drain lines. BBEC made recommendations for the necessary improvements to cover the 10-year storm.

Plaza Drive Area Drainage Evaluation, St. Bernard Parish, LA, 2005


The project consisted of evaluating the ability of an existing drainage system to handle the 10-year storm for a 150 drainage basin in a residential area primarily consisting of open ditches and miscellaneous culverts with multiple outfalls into the drainage trunk line under Judge Perez Drive to the north and the drainage canal along St. Bernard Highway to the south. The area includes three parallel streets, including Plaza Drive. The area also contained two drainage pump stations that were designed to drain the subsurface system, while the main volume of flow during the rain events utilized roadside ditches and some subsurface drain lines. BBEC developed a drainage layer in the Parish's GIS, surveyed elevations of the drainage features, developed a hydrologic and hydraulic model for the area, modeled the area and determined all deficient drain lines. BBEC made recommendations for the necessary improvements to cover the 10-year storm.



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

Signature:  Print Name: Jeffrey Bonura, P.E.

Title: Sole Member Date: August 29, 2024

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

SOQ 24-029 : Independence Park Drainage Pump Station

B. Firm Name & Address:

Marrero, Couvillon & Associates, LLC.
3525 Hessmer Ave., Suite 304
Metairie, LA 70001

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

Brian Miller, P.E.
Vice President of Engineering/Project Manager
(225) 408-8249
bmiller@mca-llc.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.

Kimball Schlafly, P.E.
Project Manager/Engineer
(504) 834-3448
kschlafly@mca-llc.com

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

<u>3</u> Administrative	<u>2</u> Estimators	<u> </u> Specification Writers
<u>2</u> Architects (Licensed)	<u> </u> Geologists	<u>1</u> Structural Engineers
<u> </u> Chemical Engineers	<u> </u> Geotechnical Engineers	<u> </u> Graduate Engineers
<u> </u> Civil Engineers	<u> </u> Interior Designers	<u>3</u> Project Managers
<u> </u> Construction Inspectors	<u> </u> Landscape Architects	<u>2</u> Clerical
<u> </u> Ecologists	<u> </u> Land Surveyor	<u> </u> Grant/Funding Specialist
<u>4</u> Electrical Engineers	<u>3</u> Mechanical Engineers	<u> </u> Sanitary Engineers
<u>3</u> Engineer Intern	<u> </u> Environmental Engineers	
<u> </u> Professional Land Surveyors	<u>4</u> CADD Operators/Designers	<u>28</u> TOTAL

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

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

TEC Professional Services Questionnaire

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

1. N/A

2.

**H. Has this JOINT-VENTURE previously worked together? Please check:
YES _____ NO _____**

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. See Prime Submittal		
2.		
3.		

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

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Kimball M. Schlafly, P.E., Sr. Electrical Engineer
Project Assignment:
Sr. Electrical Engineer
Name of Firm with which associated:
Marrero, Couvillon & Associates, LLC.
Years' experience with this Firm:
4
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 1988 / Electrical Engineering
Active registration: Year first registered/discipline:
1993 Electrical Engineer
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Schlafly has over 30 years of experience in electrical engineering and project management. He has provided design of lighting, low and medium voltage power distribution, standby and emergency power systems, motor control and SCADA, telecommunications, fire alarm, access control, and video surveillance. Mr. Schlafly has worked on projects with clients in both the public and private sector, such as Facility Planning and Control in Baton Rouge, NAVFAC, USACE, Tulane University, as well as with various Architects, Engineering firms, and building owners. Prior to joining Marrero, Couvillon & Associates, Mr. Schlafly was managing partner of his own firm, working for contractors, architects, and owners on design-build projects and design-bid projects. Relevant projects Mr. Schlafly has worked on include:</p> <p>Galveston 14th St. Drainage Improvements – Marrero, Couvillon & Associates is providing engineering design for Mechanical, Electrical, Plumbing and Instrumentation Control Systems for the 14th Street Drainage Improvement project for the City of Galveston, Texas. MCA's services will be focused on a new pump station that will be constructed as part of the drainage project. The station will have (9) 170 HP pumps to alleviate flooding during hurricane events. (3) Generators and a fuel tank will provide power for the pumps that will permit (3) of them to operate for 72 hours and the other 6 a total of 24 hours. MCA is also providing the electrical, mechanical, and plumbing design for the building which houses the generators and the control room.</p> <p>St. Tammany Pump Station – St. Tammany Parish- MCA was responsible for the electrical power and controls design for the installation of these stations. Each station had 2 pumps which ranged from 5 to 15 hp. MCA provided preliminary design, construction documents, specifications, bid phase services, and construction assistance.</p> <p>Drainage and Intake Pump Stations, Sewerage and Water Board, New Orleans, LA - Design of ventilation control systems, and diesel generators to provide emergency power to lighting, operator's station, pump controls, and communications systems at pump stations #5, #6, #20, Carrollton Plant, and River water intake facility, in order to provide viability during power outage and storm events, independent of the power systems for the pumps.</p> <p>East Bank Wastewater Treatment Plant Effluent Pump Station – New Orleans, LA – MCA is providing electrical and instrumentation engineering for a new 1,000 HP, 36" pump at the EBWWTP Effluent Pump Station, similar in configuration and capacity to the two existing 1,000 HP 36" pumps. MCA will also be providing electrical and instrumentation engineering for the modifications of the EPS pump discharge header to accommodate the new pump and to allow improve the flow of the parallel effluent force mains. MCA is providing electrical engineering and design to specify the new motor, drive and control, and their integration with the currently planned upgrades of the EPS electrical system. MCA is also providing electrical system modeling and upsizing one substation transformer & relocating another transformer to accommodate the additional electrical load due to the new 1000 HP pump.</p> <ul style="list-style-type: none"> • Cyprien Pump Station, Lafourche Parish • 14th Street Pump Station – City of Galveston, Texas

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Brian Miller, P.E., Vice President of Engineering
Project Assignment:
Sr. Mechanical Engineer
Name of Firm with which associated:
Marrero, Couvillon & Associates, LLC.
Years' experience with this Firm:
7
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 1986 / Mechanical Engineering
Active registration: Year first registered/discipline:
1995 Mechanical Engineer
Other experience and qualifications relevant to the proposed Project:
<p>Since receiving his Bachelor of Science Degree in Mechanical Engineering from Louisiana Tech University in 1986, Mr. Miller has over 36 years of engineering experience in mechanical engineering, project engineering and project management. Mr. Miller has been responsible for various projects ranging from HVAC systems design to wastewater pump stations. Brian is working with clients in both the public and private sector, such as the New Orleans Recovery School District, the Louisiana Department of Transportation, the Ascension Parish School Board, as well as various Architects and Engineering firms. He is a registered mechanical engineer in the State of Louisiana.</p> <p>St. Mary Parish – Amelia Pump Stations 2 and 2A, Amelia, LA – Installation of a 48" pump that will replace an existing 20" pump at the pumping station, a new pump house and associated power. Also includes installation of a new alternator control system to line the new pump with an existing 48" pump to stage/alternate operation of both pumps based on water level and operating sequence.</p> <p>East Baton Rouge City/Parish – Sanitary Overflow Program - Multiple Pump Stations – Highland Road – Kenilworth Pkwy. – Replaced 13 pump stations to alleviate SSO's at and near the pump stations and in the respective upstream basins. This will also provide capacity to handle predicted future peak wet weather flows. MCA was engaged in designing the electrical power, controls designs and standby generator size for the pump load at each site in accord with DPW standards. The scope of services includes: investigations, preliminary design, detailed design, bidding services and engineering services during construction.</p> <p>Multiple Pump Stations, Plaquemines Parish, LA – Damage assessments and repairs to Point a la Hache (east and west), Point Celeste, Bellevue, and Bellair stations, which primarily consist of pumps with chain-drive connection to diesel engines, and small diesel generators providing emergency power for lighting and controls.</p> <p>East Bank Wastewater Treatment Plant Effluent Pump Station – New Orleans, LA – MCA is providing electrical and instrumentation engineering for a new 1,000 HP, 36" pump at the EBWWTP Effluent Pump Station, similar in configuration and capacity to the two existing 1,000 HP 36" pumps. MCA will also be providing electrical and instrumentation engineering for the modifications of the EPS pump discharge header to accommodate the new pump and to allow improve the flow of the parallel effluent force mains. MCA is providing electrical engineering and design to specify the new motor, drive and control, and their integration with the currently planned upgrades of the EPS electrical system. MCA is also providing electrical system modeling and upsizing one substation transformer & relocating another transformer to accommodate the additional electrical load due to the new 1000 HP pump.</p> <ul style="list-style-type: none"> • St. James Pump Station – St. James Parish • Baton Rouge City/Parish Sewerage Project • Morgan City Pump Station – St. Mary Parish • 14th Street Pump Station – City of Galveston, Texas

TEC Professional Services Questionnaire


KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Chad Blanchard, BSME, LEED AP
Project Assignment:
Mechanical Engineer
Name of Firm with which associated:
Marrero, Couvillon & Associates, LLC.
Years' experience with this Firm:
7
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 2007 / Mechanical Engineering
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Blanchard received his Bachelor of Science Degree in Mechanical Engineering from Louisiana Tech University in 2007. Mr. Blanchard is a member of the American Society of Mechanical Engineers and ASHRAE, and he is certified LEED AP. Mr. Blanchard recently joined Marrero, Couvillon & Associates as one of our Mechanical Engineers. Since joining MCA, he has been responsible for various projects ranging from QA/QC of mechanical work and HVAC systems design, to performing studies of mechanical systems in various facilities. Mechanical projects Mr. Blanchard has been responsible for include:</p> <p>City of New Orleans – Mirabeau Water Garden, New Orleans, LA – A 25 acre site at Mirabeau Ave. and St. Bernard Ave. is being developed into a 9.5MM gallon surge stormwater retention site as part of the comprehensive New Orleans Water Plan. The facility will include a lift station building, water tunnel feature, area lighting and plans for future buildings used for educational and assembly purposes.</p> <p>Chevron Phillips – Port Arthur, Texas – Central Firehouse – Complete plumbing systems including a sanitary sewer lift station with inflow and outflow piping as well as coordination with structural and electrical disciplines.</p> <p>Flint Hills Resources – Port Arthur, Texas – Central Control Building (CCB) - Complete plumbing systems including a sanitary sewer lift station with inflow and outflow piping as well as coordination with structural and electrical disciplines. Additionally the building included a storm water system to provide drainage from the roof of the building.</p> <p>Dallas County Jail – Dallas, Texas – Domestic cold and hot water systems as well as sanitary sewer systems associated with the remodeling 3 levels an existing 9 level downtown corrections facility.</p> <p>East Bank Wastewater Treatment Plant Effluent Pump Station – New Orleans, LA – MCA is providing electrical and instrumentation engineering for a new 1,000 HP, 36" pump at the EBWWTP Effluent Pump Station, similar in configuration and capacity to the two existing 1,000 HP 36" pumps. MCA will also be providing electrical and instrumentation engineering for the modifications of the EPS pump discharge header to accommodate the new pump and to allow improve the flow of the parallel effluent force mains. MCA is providing electrical engineering and design to specify the new motor, drive and control, and their integration with the currently planned upgrades of the EPS electrical system. MCA is also providing electrical system modeling and upsizing one substation transformer & relocating another transformer to accommodate the additional electrical load due to the new 1000 HP pump.</p> <ul style="list-style-type: none"> • 14th Street Pump Station – City of Galveston, Texas


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:	
Bayou Segnette Drainage Pump Station Jefferson Parish MCA is subconsultant to: Rahman & Associates, LLC 3645 Williams Blvd #208 Kenner, LA 70065	Electrical engineering services for Bayou Segnette Drainage Pump Station, Westwego, LA—Pump Station Improvements to Bayou Segnette Drainage Pump Station No. 1, including the replacement of 4—150 CFS pumps and 6 engines, the rehabilitation of 6 existing gear boxes and related ancillary work.	
Completion Date (Actual or estimated):	Estimated Cost:	
2020	Entire Project:	Work for which Firm was Responsible:
2020	\$3,500,000	\$700,000

PROJECT NO. 2		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Multiple Pump Stations East Baton Rouge Parish East Baton Rouge City/Parish MCA Subconsultant to AECOM 8757 Woodway Dr., Suite 101 West Houston, TX 77057	Department of Public Works projects for the upgrade of multiple pump stations in the Highland Road/ Kenilworth area located in East Baton Rouge Parish. The project includes the upsizing of 9 pump stations and the construction of 2 pump stations to alleviate Sanitary Sewer Overflow at and near the pump stations and in respective upstream basins. The improvements will provide capacity to handle predicted future peak wet weather flows. The scope of work encompasses residential and commercial areas as well as Louisiana State University facilities. MCA was engaged in designing the electrical power, controls designs and standby generator size for the pump load at each site in accord with DPW standards. The scope of services includes: Investigations, Preliminary Design, Detailed Design, Bidding Services and Engineering Services During Construction	
Completion Date (Actual or estimated):	Estimated Cost:	
2017	Entire Project:	Work for which Firm was Responsible:
2017	\$30,000,000	\$7,000,000

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
<p>East Bank Wastewater Treatment Plant Effluent Pump Station New Orleans, LA MCA is a subconsultant to: Greenpoint Engineering Amer Tufail, P.E. 701 Loyola Ave. New Orleans, LA 70113</p> 	<p>MCA is providing electrical and instrumentation engineering for a new 1,000 HP, 36" pump at the EBWWTP Effluent Pump Station, similar in configuration and capacity to the two existing 1,000 HP 36" pumps. MCA will also be providing electrical and instrumentation engineering for the modifications of the EPS pump discharge header to accommodate the new pump and to allow improve the flow of the parallel effluent force mains. MCA is providing electrical engineering and design to specify the new motor, drive and control, and their integration with the currently planned upgrades of the EPS electrical system. MCA is also providing electrical system modeling and upsizing one substation transformer & relocating another transformer to accommodate the additional electrical load due to the new 1000 HP pump.</p>	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2021	\$5,500,000	\$3,000,000


PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Baton Rouge City Parish Sewer Project East Baton Rouge Parish MCA Subconsultant to: Evans-Graves /Burk-Kleinpeter 9800 Airline Highway, Suite 200 Baton Rouge, LA</p> 	<p>The Department of Public Works initiated projects for the upgrade of the Metro Airport Area sewer pump station and force main upgrades, located in East Baton Rouge Parish. The project includes 8 pump stations in the area to alleviate sanitary sewer overflow. The improvement will provide capacity to handle predicted future peak wet weather flows. The scope of work encompasses residential and commercial areas as well as Baton Rouge Metro Airport.</p> <p>MCA was engaged in designing the electrical power, controls, designs and standby generator size for the pump load at each site in accord with DPW standards.</p> <p>The scope of services includes Investigations, Preliminary Design, Detailed Design, Bidding Services, and Engineering Services During Construction.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2014	\$30,000,000	\$9,000,000

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Ascension Parish 6 Pump Stations Ascension Parish MCA Subconsultant to: Evans-Graves 9800 Airline Highway, Suite 200 Baton Rouge, LA	<p>The submersible wastewater pump stations are located throughout Ascension Parish. There are a total of 6 duplex pump stations serving facilities in Darrow, Louisiana. The purpose of this project was to upgrade existing pump stations and design new installations for Ascension Parish Public Works. This includes design of a control system for pump operation and coordination with Entergy for build out of the power infrastructure for service at the new sites.</p> <p>MCA was engaged in designing the electrical power, controls designs, and standby generator size for the pump load at each site.</p> <p>The scope of services includes Investigations, Preliminary Design, Detailed</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2021	\$400,000	\$125,000

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Baton Rouge City/Parish Sewer Project East Baton Rouge Parish MCA Subconsultant to: CSRS 6767 Perkins Road, Suite 200 Baton Rouge, LA 70808	<p>Multiple Pump Stations for the East Baton Rouge City/Parish Department of Public Works - Jefferson Hwy - Park Forest Dr. – The project included replacing five pump stations. The upgrades will work in conjunction with force main upgrades in other South Forced Upper Basin projects to alleviate chronic SSO's at and near the five pump stations. MCA is a subconsultant to CSRS</p> <p>MCA was engaged in designing the electrical power, controls designs and standby generator size for the pump load at each site in accord with DPW standards.</p> <p>The scope of services includes Investigations, Preliminary Design Technician, Detailed Design, Bidding Services, and Engineering Services During Construction.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2012	\$25,000,000	\$7,000,000

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Marvin J. Braud Pump Station Ascension Parish MCA Subconsultant to: Burk-Kleinpeter Tony Moschella, P.E. P. O. Box 19087 New Orleans, LA 70179</p> 	<p>The Marvin J Braud Pump Station Basin covers the central and northern portions of East Ascension Parish including the City of Gonzales and Prairieville, Louisiana, and East Ascension Consolidated Gravity Drainage District.</p> <p>MCA prepared the Electrical and Control Systems CDs for the expansion of the pumping station by adding Diesel Driven pump motors, a new line-up of 480 MCC, a new 480VAC 3 Phase power service, new lighting for the pump building, and emergency power generation (EPG) for miscellaneous electrical loads and another EPG for the critical life-safety electrical loads. MCA performed electrical engineering services for the installation of the addition of pump No. 6 driven by 1250n HP internal combustion engines. MCA was responsible for the modifications to upgrade the electrical utility service; Relocate the electrical utility transformers; Upgrade the existing stand by emergency power generator and install a second generator unit; Upgrade the electrical and electronic monitoring and operation control system for the existing five drainage pumps driven by 1250 HP internal combustion engines; Design the installation of the electrical power and control systems for the operation of the drainage pumps and auxiliary equipment; Design the installation of the electronic instrumentation systems for the operation and monitoring of the new pump N-6; Design the installation of lighting. Communication, security systems in the extension of the pump house.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2014	\$5,000,000	\$1,000,000

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>St. James Pump Station St. James Parish MCA was subconsultant to: Professional Engineering Consultants Tony Arikol, P.E. 7600 Innovation Ave. Baton Rouge, LA 70816</p>	<p>St. James Parish planned installation of 6 new pumping stations across the parish. MCA was responsible for the electrical power and controls design for the installation of these stations. Each station had 2 pumps which ranged from 5 to 10 hp.</p> <p>MCA provided preliminary design, construction documents, specifications, bid phase services, and construction assistance.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2015	Unknown	\$19,943 (Fee)


TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
St. Tammany Pump Station St. Tammany Parish MCA was subconsultant to: Professional Engineering Consultants Tony Arikol, P.E. 7600 Innovation Ave. Baton Rouge, LA 70816	St. Tammany Parish upgraded 5 pumping stations in the Covington area. The pumps in these stations were replaced with larger pumps which required the controllers and associated electrical equipment be upgraded for the larger motors. MCA was responsible for the electrical power and controls design for the installation of these stations. Each station had 2 pumps which ranged from 5 to 15 hp. MCA provided preliminary design, construction documents, specifications, bid phase services, and construction assistance.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2015	Unknown	\$15,351 (Fee)

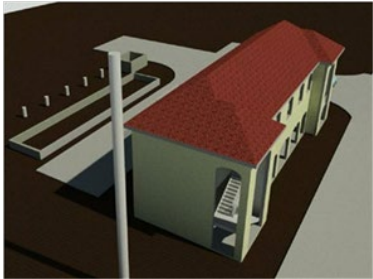
PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
St. Mary Parish Government – Amelia Pump Station 2 and 2A St. Mary Parish, Louisiana MCA was subconsultant to T. Baker Smith Thomas Naquin 17534 Old Jefferson Hwy. #D1 Prairieville, LA 70769	Installation of a 48" pump that will replace an existing 20" pump at the pumping station, a new pump house and associated power. Installation of new alternator control system to link new pump with existing 48" pump and stage/alternate operation of both pumps based on water level and operating sequence. .	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020	\$3,100,000	\$10,000 (Fee)

TEC Professional Services Questionnaire

PROJECT NO. 11

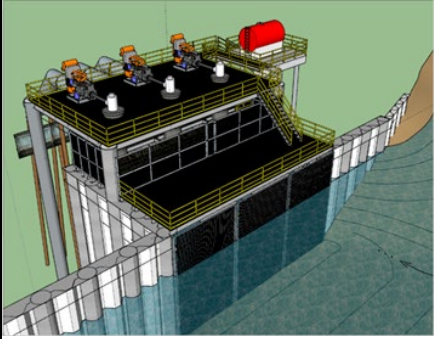
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Morgan City Pump Station St. Mary Parish, LA MCA Subconsultant to T. Baker Smith 17534 Old Jefferson Hwy., Prairieville, LA 70768 Robert Karman, Jr. PE (225) 744-2100</p> 	<p>The project includes a proposed pump station with four (4) diesel engine driven pumps and one (1) electric motor driven pump, to be removed and relocated from the existing Hwy 70 pump station along with the 5000 gallon diesel fuel tank.. The existing Hwy 70 Pump Station equipment including these diesel/electric pumps and a diesel fuel tank will be re-installed in the construction of the new pump station structure and equipment building. An operator shelter will be installed within the proposed equipment building at the project site. MCA provided electrical engineering plans and specifications for the new pump station. MCA also provided the interior and exterior area lighting design.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2021	\$1,000,000	\$67,650

PROJECT NO. 12


Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>14th Street Pump Station Galveston, Texas MCA Subconsultant to T. Baker Smith 17534 Old Jefferson Hwy., #D1 Prairieville, LA 70769 Kevin Gorman, P.E. (225) 372-2622</p> 	<p>Marrero, Couvillon & Associates provided engineering design for Mechanical, Electrical, Plumbing and Instrumentation Control Systems for the 14th Street Drainage Improvement project for the City of Galveston, Texas. MCA's services focused on a new pump station that will be constructed as part of the drainage project. The station has (9) 170 HP pumps to alleviate flooding during hurricane events. (3) Generators and a fuel tank will provide power for the pumps that will permit (3) of them to operate for 72 hours and the other 6 a total of 24 hours. MCA also provided the electrical, mechanical, and plumbing design for the building which houses the generators and the control room.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2022	\$40,440,000	\$5,420,000

TEC Professional Services Questionnaire

PROJECT NO. 13

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Cyprien Pumping Station Lafourche Parish, Raceland, LA MCA Subconsultant to T. Baker Smith 17534 Old Jefferson Hwy., Prairieville, LA 70768 Robert Karman, Jr. PE (225) 744-2100</p> 	<p>This project entailed the replacement of an existing pump station. The existing pump station was removed in its entirety prior to construction of the new elevated pumping station. MCA provided the electrical engineering services for the pump station structure with three 48" axial flow pumps and a separate fuel tank structure. The controls for the new pump were tied in to the existing SCADA system.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018	\$3,700,000	\$185,000

PROJECT NO. 14

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Mirabeau Water Garden New Orleans, Louisiana City of New Orleans Steven B. Scollo, STEVE@WBAE.COM 504-524-5305 (Waggonner & Ball Architects)</p> 	<p>The 25-acre site belongs to the Congregation of St. Joseph, who has agreed to donate this land to the City of New Orleans on the condition that the property be used to benefit the city by preserving and protecting the environment, improving the quality of life, and reducing the risk of flooding for neighborhood residents. Marrero, Couvillon & Associates handled the Mechanical, Electrical and Plumbing design. Through innovative site design and stormwater management features that range from large storage basins to perimeter bioswales and bioretention cells, all of which store, filter, and infiltrate water, the site will directly improve the function of the existing drainage infrastructure which serves the Filmore neighborhood in Gentilly and the catchment area for Drainage Pump Station #4.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2019	\$13,160,000	\$1,125,752

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. 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.

MARRERO, COUVILLON & ASSOCIATES, LLC (MCA) MARRERO, COUVILLON & ASSOCIATES, LLC (MCA) is an engineering design consulting firm with over forty years of experience. Our engineering services include electrical, mechanical and plumbing (MEP) disciplines. Services within these disciplines include:

- Investigation/Evaluation/Recommendations for existing systems
- Design of new or upgraded MEP systems
- Construction Administration services
- Field Inspection services.

The firm is current with today's rapidly changing design technologies. In this regard, MCA offers design documentation in Revit, AutoCAD and Microstation.

Founded in Baton Rouge in 1968 by Hugo A. Marrero, Sr., P.E, MCA operates a second location in Metairie, La. The Metairie location is managed by Greg DeCoursey, A.I.A. Our in-house architect serves as a beneficial liaison between our engineering design teams and the over-all project concept.

MCA's certification as a Disadvantaged Business Enterprise (DBE) by the Unified Certification Program of the Louis Armstrong New Orleans International Airport, and the Louisiana Department Of Transportation And Development (DOTD) adds value to many publicly funded projects. Additional certifications include:

- State and Local Disadvantaged Business Enterprise (SLDBE)
- Small Entrepreneurship – Hudson Initiative
- Small and Emerging Business Development (SEBD)
- Small Business Administration 8A (SBA 8a)

In addition to our capacity as prime consultant on projects for owners, contractors, and governmental agencies, Marrero, Couvillon also performs engineering services as a sub-consultant to other design professionals. Our work covers a diverse range of public, commercial and industrial projects; large and small including:

- Sewerage and Drainage
- Historical Renovations
- Parks and Recreation, including zoos
- Commercial facilities such as hotels and restaurants
- Government facilities
- Airports – terminals, hangars, airfield power/lighting
- Highways, Bridges and Tunnels
- Industry, including sugar processing facilities and petrochemical installations
- Universities and schools.

TEC Professional Services Questionnaire

MCA's team of experienced engineers, design technicians, Computer Aided Design/Drafting (CADD) staff, field technicians and specification writers work under the supervision of experienced project managers to develop professional construction documents used for the execution of engineering projects.

1. **Professional training and experience in relation to the type of work required for the routine engineering services.** The team of professionals at Marrero, Couvillon & Associates, LLC. has varied and extensive experience in providing electrical engineering services as prime consultant, or as subconsultants. Our engineering team has over 200 years of combined experience. As evident in our project experience in Section L, MCA has performed similar projects of all types and sizes.
2. **Size of firm.** Marrero, Couvillon & Associates has two complete departments for Mechanical Engineering and Electrical Engineering. Each department is run by a licensed Professional Engineer. Each department has designers and CAD technicians to proficiently handle the field visits, meetings, drawings and specifications meeting all code requirements to complete these projects safely, efficiently and to meet the needs of the Jefferson Parish. Our staff of 35 professionals are prepared to serve.
3. **Workload.** Presently MCA is seeking to diversify and expand its present workload and would welcome the opportunity to serve Jefferson Parish. Many of our project are in CA services, or nearing completion. The staff of MCA recognizes the required activities for this project and concludes that MCA has the capacity to meet the requirements to develop all aspects of the work associated with this project. MCA staff assigned to this project will be scheduled with all of the time necessary to provide services required, at the time when they are needed.
4. **Past Performance on Jefferson Parish contracts.** Marrero, Couvillon & Associates welcomes the opportunity to provide engineering services for Jefferson Parish. We were the subconsultants on the Bayou Segnette Pumping Station project. We were subconsultants on the West Esplanade F8-4, F*-5 Lift Station project and the Upper LA 45 Tidal Storm Surge Protection Project. We have not worked as a prime to the parish for many years. We have, however, been involved with many projects within Jefferson Parish, including projects for the design of the New Terminal for the Louis Armstrong International Airport in Kenner, and the rehabilitation of Harvey Canal Tunnel.
5. **Location of the principal office.** Marrero, Couvillon & Associates offers two locations to best meet our client needs. Our Metairie office located at 3525 Hessmer Ave. will serve as our headquarters for this project.
6. **Adversarial Legal proceedings between the Parish and the firm.** MCA has never encountered an adversarial situation with Jefferson Parish and plans to keep it that way.
7. **References for successful completion of projects.** MCA is pleased to provide references for projects of similar nature. Please refer to Section L, Work by Firm, Project owner names and contact information.

Marrero, Couvillon & Associates looks forward to working with Jefferson Parish.

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

Signature:  _____

Print Name : M. Kimball Schlafly, P.E.

Title: Sr. Electrical Engineer

Date: 8/28/2024

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Independence Park Drainage Pump Station

SOQ 24-029 | Resolution No. 144443

B. Firm Name & Address:



Gulf South Engineering and Testing, Inc.

15 Veterans Memorial Boulevard | Kenner LA 70062

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

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

504-305-4401 | 504-460-5239 cell | cpoche@gulfsoutheng.com

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

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

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

504-305-4401 | 504-460-5239 cell | cpoche@gulfsoutheng.com

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

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

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

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

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

TEC Professional Services Questionnaire

G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.		
1. <div style="text-align: center; font-size: 1.2em;">N/A</div>		
2.		
H. Has this JOINT-VENTURE previously worked together? Please check: <div style="display: flex; justify-content: space-around; margin-top: 5px;"> YES_____ NO_____ N/A </div>		
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. <div style="text-align: center; font-size: 1.2em;">N/A</div>		
2.		
3.		
J. Please specify the total number of support personnel that may assist in the completion of the Project: <div style="display: flex; align-items: center; margin-top: 5px;"> <div style="text-align: center; width: 100px;"> <div style="font-size: 1.5em; margin-bottom: 5px;">30</div> <div style="border-bottom: 1px solid black; width: 100px;"></div> </div> <div style="margin-left: 10px;"> <i>(all personnel will be available for assignment to the project)</i> </div> </div>		

TEC Professional Services Questionnaire

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

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Chad M. Poché, P.E.

Executive Vice President / Registered Professional Geotechnical Engineer

Project Assignment:

Geotechnical Engineer / Principal In Charge

Name of Firm with which associated:



ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants

Years' experience with this Firm:

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

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

Education: Degree(s)/Year/Specialization:

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

Active Registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

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

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

TEC Professional Services Questionnaire

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

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

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

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


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

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

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

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

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Eric A. Paille, C.E.T., ACI Construction Services Manager	
Project Assignment:	
Construction Services Manager	
Name of Firm with which associated:	
<div style="display: flex; align-items: center;">  <div> ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants </div> </div>	
Years' experience with this Firm:	
13 years (joined Gulf South in 2011); 35 years total (1989)	<i>Gulf South Engineering and Testing, Inc. 2011 to present</i> <i>Ardaman and Associates, Inc. 2007 to 2011</i> <i>Soil Testing Engineers, Inc. 1988 to 2007</i>
Education: Degree(s)/Year/Specialization:	
High School Diploma	
Active Registration: Year first registered/discipline:	
<i>ACI-I Field Technician (since 1991; No. 929012)</i> <i>Certified Engineering Technician (since 1992)</i> <i>Nuclear Gauge Safety Training (since 1994; No. 061321)</i> <i>Pile Driving Analyzer/CAPWAP, OSHA 40 HAZWOPER</i>	
Other experience and qualifications relevant to the proposed Project:	
<p>Eric A. Paille, C.E.T., ACI, serves as Gulf South's Construction Services Manager as well as the manager of our Gonzales office. He has experience as a technician, inspector, and testing manager, and is knowledgeable in all aspects of construction materials testing and construction inspection. Mr. Paille has performed all applicable field and soil tests over the past 30+ years. In addition, he is certified in the safe use and handling of the nuclear density gauge. He received PDA training in 2003 and has knowledge of PDA testing along with significant experience with pile driving analyzers. Mr. Paille is one of the most knowledgeable people in our industry.</p> <p>N. Sibley Pump Station Improvements, Metairie, Jefferson Parish, LA. Gulf South provided construction materials testing for the project, located at the corner of N. Sibley Street and West Napoleon Avenue. Gulf South's scope of work includes soil density tests, concrete inspection and testing, pile driving, pile load tests monitoring, vibration monitoring, and earthwork testing. (\$20,000 (fee); 2021)</p> <p>Replacement of Sewer Pump Station (SPS) 8, Sewerage & Water Board of New Orleans, LA. This \$15 million project consisted of the replacement of a sewer pump station for the Sewerage &</p>	

TEC Professional Services Questionnaire

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

Water Board of New Orleans. Gulf South provided field and laboratory inspection and testing of materials during construction (CMT). Our scope of services included performing: a pile load test, pile plant inspection, pile monitoring during installation, vibration monitoring, concrete testing and inspection, earthwork testing and inspection including field density tests, and steel inspection. (\$103,411 (fee); 2019)

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

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


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

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

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

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

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Brandon A. Paille, ACI Construction Materials Testing (CMT) Supervisor/Project Manager	
Project Assignment:	
Construction Materials Testing (CMT) Supervisor/Project Manager	
Name of Firm with which associated:	
<div style="display: flex; align-items: center;">  <div> ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants </div> </div>	
Years' experience with this Firm:	
5 years (2012-2016; 2023 to present); 14 years total (2010)	<i>Gulf South Engineering and Testing, Inc. 2023 to present</i> <i>Ascension Parish Sheriff's Office 2016 to 2023</i> <i>Gulf South Engineering and Testing, Inc. 2012 to 2016</i> <i>Ardaman and Associates, Inc. 2010 to 2012</i>
Education: Degree(s)/Year/Specialization:	
<i>High School Diploma</i>	
Active Registration: Year first registered/discipline:	
APNGA Nuclear Gauge Safety ACI Field Technician Level 1 OSHA Safety Training – 8 hr.	
Other experience and qualifications relevant to the proposed Project:	
<p>Brandon A. Paille, ACI has performed soil laboratory testing consisting of unconfined compression strength tests, triaxial strength tests, hydrometers, Atterberg limits, organic contents, moisture contents, proctor compaction tests, sieve analyses, as well as extrusion of samples. Mr. Paille's field experience includes soil inspection and testing consisting of nuclear density testing, soil boring logging, concrete testing and inspections, timber and precast pile logging and vibration monitoring. In Mr. Paille's years in the construction materials testing industry, he has obtained a vast amount of knowledge and experience which makes him an integral part of our Gulf South Team.</p> <p>New Sewer Lift Station (Butler Drive & Grambling Street) E-10-1, Waggaman, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes concrete testing; backfill compaction testing; soil density tests; earthwork inspection and testing, and; vibration monitoring. (\$30,000 (fee); ongoing)</p> <p>New Pump/Lift Station, Airline Park Boulevard at West Metairie Avenue, Jefferson Parish, LA. Geotechnical investigation for a new pump/lift station for Jefferson Parish near the intersection of Airline Park Blvd. and W. Metairie Avenue. Scope of work consisted of performing one soil boring to 50 feet, laboratory testing, and geotechnical engineering analyses consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction recommendations. (\$5,000 (fee); 2013)</p>	

TEC Professional Services Questionnaire

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

Metairie Lawn Drainage Improvements, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes concrete testing; earthwork inspection and testing, and; soil density tests. (\$5,000 (fee); ongoing)

East Bank Transit Operations Facility, Metairie, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes concrete testing; soil density tests; earthwork inspection and testing; pile inspection and modeling; vibration monitoring; asphalt inspection; backfill compaction testing, and; static pile load testing. (\$16,000 (fee); 2024)

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

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

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

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

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

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

TEC Professional Services Questionnaire

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

TEC Professional Services Questionnaire

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

Metairie Lawn Drainage Improvements, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes concrete testing; earthwork inspection and testing, and; soil density tests. (\$5,000 (fee); ongoing)

East Bank Transit Operations Facility, Metairie, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes concrete testing; soil density tests; earthwork inspection and testing; pile inspection and modeling; vibration monitoring; asphalt inspection; backfill compaction testing, and; static pile load testing. (\$16,000 (fee); 2024)

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


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

Replacement of Sewer Pump Station (SPS) 8, Sewerage & Water Board of New Orleans, LA. This \$15 million project consisted of the replacement of a sewer pump station for the Sewerage & Water Board of New Orleans. Gulf South provided field and laboratory inspection and testing of materials during construction (CMT). Our scope of services included performing: a pile load test, pile plant inspection, pile monitoring during installation, vibration monitoring, concrete testing and inspection, earthwork testing and inspection including field density tests, and steel inspection. (\$103,411 (fee); 2019)

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

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

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Bryson S. Beard, P.E., ACI Associate Geotechnical Engineer/Field Engineer	
Project Assignment:	
Associate Geotechnical Engineer/Field Engineer	
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:	
2 years (joined Gulf South in 2022); 3 years total (2021)	<i>Gulf South Engineering and Testing, Inc. 2022 to present</i> <i>TetraTech, Inc. 2021 to 2022</i>
Education: Degree(s)/Year/Specialization:	
B.S., Geological Engineering (2021; University of Mississippi)	
Active Registration: Year first registered/discipline:	
Louisiana P.E. License Passed October 2023 Georgia, Engineering Intern (No. EIT029180, 2022)	
Other experience and qualifications relevant to the proposed Project:	
<p>Bryson S. Beard, P.E., is an Associate Geotechnical Engineer/Field Engineer who serves as a Project Manager. He has performed geotechnical engineering analyses consisting of shallow and deep foundations, slope stability, TRS and sheetpile wall design, settlement, pavement design, etc., and has prepared engineering reports. Mr. Beard's experience in the field includes surface and subsurface soil sampling, water sampling, and soil classification. His work experience further includes core logging and oversight of groundwater monitoring well installations, piezometers, and inclinometers. He has been responsible for the preparation of reports and Facility Response Plans. He is experienced with laboratory sample preparation and testing as well as air sampling and soil gas sampling.</p> <p>Mr. Bryson recently passed his Louisiana Professional Engineering test and will be a noted P.E. for the State of Louisiana once he fulfills the apprenticeship requirements set forth by LAPELS.</p> <p>Woodlake Drainage Pump Station - Geotechnical Exploration Report, Kenner, Jefferson Parish, LA. Prepared a Geotechnical Exploration Report for the project which consisted of a new drainage pump station located in Kenner, LA. Access to the canal was via Lake Pontchartrain. During the Field investigation, Gulf South drilled multiple undisturbed soil borings with one performed in the canal and the remaining on land. Geotechnical laboratory testing (ASTM standards) was performed. Following the collection of the field and laboratory data, evaluations necessary to characterize the subsoil conditions of the site were performed; findings, conclusions, and recommendations were presented in the final report. (\$48,000 (fee); 2024)</p>	

TEC Professional Services Questionnaire

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

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

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

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

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

Lift Station No. 4330 Upgrade (New Wet Well), City of Kenner, LA. Geotechnical investigation related to the upgrades (below grade wet well and valve vault structures) of the existing below-grade Sewer Lift Station No. 4330 at 131 W. Esplanade Ave. in Kenner, LA. Scope involved drilling two undisturbed soil borings to depths of 70 feet (1 boring for wet well) and 15 feet (1 boring for valve pit) below the existing ground surface. Geotechnical laboratory testing was performed in accordance with the appropriate ASTM standards, this included strength tests (unconfined and/or triaxial) and classification tests (Atterberg Limits and/or particle size). Geotechnical evaluations (necessary to characterize the subsoil conditions of the site and develop engineering recommendations and analyses) included allowable pile load capacities, estimates of settlement, below-grade foundations (as appropriate), bedding and backfill recommendations, and general construction procedures and recommendations. (\$8,500 (fee); 2022)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Joseph H. “Trey” Binder, III, ACI Laboratory Manager	
Project Assignment:	
Laboratory Manager; Laboratory Technician	
Name of Firm with which associated:	
<div style="display: flex; align-items: center;">  <div> ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants </div> </div>	
Years’ experience with this Firm:	
13 years (joined Gulf South in 2011); 13 years total (2011)	<i>Gulf South Engineering and Testing, Inc. 2011 to present</i> <i>Ardaman and Associates, Inc. 2007 to 2011</i> <i>Soil Testing Engineers, Inc. 2006 to 2007</i>
Education: Degree(s)/Year/Specialization:	
A.D., General Studies (2006; Nunez Community College)	
Active Registration: Year first registered/discipline:	
HAZMAT Awareness HAZMAT Operations Training ACI Aggregate Base Testing Technician ACI Concrete Strength Testing Technician	
Other experience and qualifications relevant to the proposed Project:	
<p>Trey Binder has direct experience with field and laboratory testing services. Mr. Binder’s field work includes soil inspection and testing consisting of nuclear density testing and soil boring logging, vibration monitoring, pile inspection, concrete testing and inspection, asphalt testing and inspection, and pavement coring. In the laboratory, Mr. Binder has performed soil laboratory testing consisting of unconfined compression strength tests, triaxial strength tests, Atterberg limits, organic content tests, moisture and density tests, Proctor compaction tests, sieve analyses, and sample extrusion.</p> <p>Mississippi River Discharge Pump Station, River Ridge, Jefferson Parish, LA. Gulf South provided geotechnical engineering services for the construction of a new pump station and force main discharge pipeline between Coventry Court and Lee Court in River Ridge. Scope includes drilling four undisturbed soil borings (one at 100 ft., one at 80 ft., and two at 30 ft.; all below ground surface), laboratory testing, engineering analyses (soil bearing values, pile load capacities, settlement estimates, retaining structure recommendations, slope stability analyses) and general construction procedures and recommendations. Pump station was located on flood side of the Mississippi River levee with discharge pipes crossing the levee to the protected side. (\$35,000 (fee); 2022)</p>	

TEC Professional Services Questionnaire

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

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

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

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

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

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

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

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

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Tyler W. Pregeant, ACI Engineering Technician; CMT/Laboratory Technician	
Project Assignment:	
Engineering Technician; CMT/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:	
5 years (joined Gulf South in 2019); Gulf South Engineering and Testing, Inc. 2019 to present 7 years total (2017)	
Education: Degree(s)/Year/Specialization:	
High School Diploma Currently attending UNO in Civil Engineering Program	
Active Registration: Year first registered/discipline:	
ACI Concrete Field Testing Technician - Grade I (02206931)	
Other experience and qualifications relevant to the proposed Project:	
<p>Tyler Pregeant, ACI, serves as an engineering technician with the soil boring drill crew, within the soils' laboratory, and on construction projects as needed. His duties and responsibilities have included leading a drill crew, staking boring sites, supervising clearing contractors, data entry, testing soil for engineering properties of strength and classification, soil boring logging, vibration monitoring, and concrete testing and inspection. Laboratory tests performed include unconfined shear tests, moisture content tests, density tests, Atterberg limits tests, grain size sieve analyses, organic content tests and concrete strength breaks.</p> <p>Woodlake Drainage Pump Station - Geotechnical Exploration Report, Kenner, Jefferson Parish, LA. Prepared a Geotechnical Exploration Report for the project which consisted of a new drainage pump station located in Kenner, LA. Access to the canal was via Lake Pontchartrain. During the Field investigation, Gulf South drilled multiple undisturbed soil borings with one performed in the canal and the remaining on land. Geotechnical laboratory testing (ASTM standards) was performed. Following the collection of the field and laboratory data, evaluations necessary to characterize the subsoil conditions of the site were performed; findings, conclusions, and recommendations were presented in the final report. (\$48,000 (fee); 2024)</p> <p>Bissonet Drainage Outfall Improvements, Metairie, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes backfill compaction testing; concrete testing; soil density tests; earthwork inspection and testing, and; vibration monitoring. (\$20,000 (fee); ongoing)</p>	

TEC Professional Services Questionnaire

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

New Sewer Lift Station (Butler Drive & Grambling Street) E-10-1, Waggaman, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes concrete testing; backfill compaction testing; soil density tests; earthwork inspection and testing, and; vibration monitoring. (\$30,000 (fee); ongoing)

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


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

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

Bucktown Paddlers Launch, Metairie, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes building earthwork, paving & concrete, concrete testing, soil density tests, pile inspection and modeling, and vibration monitoring. (\$6,000; ongoing)

East Bank Transit Operations Facility, Metairie, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes concrete testing; soil density tests; earthwork inspection and testing; pile inspection and modeling; vibration monitoring; asphalt inspection; backfill compaction testing, and; static pile load testing. (\$16,000 (fee); 2024)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Ian Kerner Poché, ACI Assistant Laboratory Supervisor	
Project Assignment:	
Assistant Laboratory Supervisor	
Name of Firm with which associated:	
<div style="display: flex; align-items: center;">  <div> ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants </div> </div>	
Years' experience with this Firm:	
<div style="display: flex; justify-content: space-between;"> 7 years (joined Gulf South in 2017); 7 years total (2017) <i>Gulf South Engineering and Testing, Inc. 2017 to present</i> </div>	
Education: Degree(s)/Year/Specialization:	
<i>High School Diploma</i>	
Active Registration: Year first registered/discipline:	
<i>ACI Concrete Field Testing Technician - Grade 1 (exp 2028 03)</i> <i>ACI Aggregate Testing Technician - Level 1 (exp 2029 02 27)</i>	
Other experience and qualifications relevant to the proposed Project:	
<p>Ian Poché has worked in Gulf South's laboratory for several years and has experience with virtually every type of soil test. He has also helped when needed in the CMT department and has concrete testing experience, and is an ACI-certified Concrete Field Testing Technician.</p> <p>Lake Cataouatche Drainage Pump Station Replacement (Chighizola Lane), Grand Isle, Jefferson Parish, LA. Geotechnical engineering services for the construction of a replacement Lake Cataouatche drainage pump station at the end of Chighizola Lane in Grand Isle. Gulf South's scope includes drilling one undisturbed soil borings to a depth of 80 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. Pump station is close to a USACE floodwall so coordination and geotechnical engineering analyses were required to show the new pump station would not adversely affect the integrity of the floodwall. (\$7,500 (fee); 2020)</p> <p>Woodlake Drainage Pump Station - Geotechnical Exploration Report, Kenner, Jefferson Parish, LA. Prepared a Geotechnical Exploration Report for the project which consisted of a new drainage pump station located in Kenner, LA. Access to the canal was via Lake Pontchartrain. During the Field investigation, Gulf South drilled multiple undisturbed soil borings with one performed in the canal and the remaining on land. Geotechnical laboratory testing (ASTM standards) was performed. Following the collection of the field and laboratory data, evaluations necessary to characterize the subsoil conditions of the site were performed; findings, conclusions, and recommendations were presented in the final report. (\$48,000 (fee); 2024)</p>	

TEC Professional Services Questionnaire

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

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

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

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


Metairie Lawn Drainage Improvements, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes concrete testing; earthwork inspection and testing, and; soil density tests. (\$5,000 (fee); ongoing)

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

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

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

TEC Professional Services Questionnaire

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

TEC Professional Services Questionnaire

- L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this project. Please include and 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:	
Woodlake Drainage Pump Station - Geotechnical Exploration Report, Kenner, Jefferson Parish, Louisiana MSMM Engineering, LLC 7640 S. Carrollton Ave Ste 220 New Orleans LA 70119 Scott G. Chehardy, P.E., 985-233-9763 schehardy@msmmeng.com	Prepared a Geotechnical Exploration Report for the project which consisted of a new drainage pump station. Access to the canal was via Lake Pontchartrain. During the Field investigation, Gulf South drilled multiple undisturbed soil borings with one performed in the canal and the remaining on land. Geotechnical laboratory testing (ASTM standards) was performed. Following the collection of the field and laboratory data, evaluations necessary to characterize the subsoil conditions of the site were performed; findings, conclusions, and recommendations were presented in the final report.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
March 2024	N/A	\$48,000 (fee)

PROJECT NO. 2

Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Lake Cataouatche Drainage Pump Station Replacement, Avondale, Jefferson Parish, Louisiana Jefferson Parish Department of Engineering 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 for the Lake Cataouatche drainage pump station in Avondale, LA. Gulf South's scope includes drilling a single undisturbed soil boring (depth of 100 ft bgs), laboratory testing, engineering analyses and general construction procedures and recommendations. Pump station is close to a USACE floodwall so coordination and geotechnical engineering analyses were required to show the new pump station would not adversely affect the integrity of the floodwall.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
October 2019	N/A	\$12,500 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
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 Andre Monnot, P.E. , 985-624-5001 andre@principal-engineering.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 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:
May 2020	N/A	\$7,500 (fee)

PROJECT NO. 4		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Midway at Soniat Canal Pump Station Elevator Generator Platform (Silver Oak Lane) , Harahan, Jefferson Parish, Louisiana Burk-Kleinpeter, Inc. 4176 Canal Street New Orleans LA 70119 Henry M. Picard, III, P.E. , 504-486-5901 hpicard@bkiusa.com	Geotechnical engineering services for the construction of a new elevated generator platform at the Midway Soniat Canal pump station off Silver Oak Lane in Harahan, LA. Gulf South's scope of services includes drilling a single undisturbed soil boring to a depth of 100 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
December 2022	N/A	\$7,500 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 5		
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. 1301 Clearview Pkwy Ste 200 Metairie LA 70001 Susina 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 the levee to the protected side.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
December 2022	N/A	\$35,000 (fee)

PROJECT NO. 6		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Trudeau Drive Drainage Improvements at West Metairie Canal , Metairie, Jefferson Parish, Louisiana 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:
October 2015	N/A	\$8,000 (fee)

TEC Professional Services Questionnaire

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

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

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
St. Peter's Ditch - Phase IV (Pump Station at Clearview) , Metairie, Jefferson Parish, Louisiana Jefferson Parish Public Works Department 1221 Elmwood Park Blvd Ste 904 Jefferson LA 70123 Reda Youssef, P.E. , 504-736-6783 JPPW@jeffparish.net	Project consisted of the construction of a new pump station and below grade culverts and piping for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Scope included performing pile plant inspection, pile monitoring during installation, vibration monitoring, concrete testing and inspection, earthwork testing and inspection including soil sampling and field density tests, and steel inspection.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
October 2016	N/A	\$110,000 (fee)

PROJECT NO. 10		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
N. Sibley Pump Station Improvements, Metairie, Jefferson Parish, Louisiana Digital Engineering 527 W Esplanade Ave Ste 200 Kenner LA 70065 Frank T. Liang, P.E. , 504-468-6129 fliang@deii.net	Gulf South provided construction materials testing for the project, located at the corner of N. Sibley Street and West Napoleon Avenue. Gulf South's scope of work includes soil density tests, concrete inspection and testing, pile driving, pile load tests monitoring, vibration monitoring, and earthwork testing.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
March 2021	N/A	\$20,000 (fee)

TEC Professional Services Questionnaire

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

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

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



CRITERIA 1 | PROFESSIONAL TRAINING AND EXPERIENCE

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

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

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

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

TEC Professional Services Questionnaire

N. continued.

Geotechnical Engineering Services

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

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

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

Laboratory Testing Services

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

Field Investigation Services

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

TEC Professional Services Questionnaire

N. continued.

Construction Materials Testing & Inspection

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

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

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

CRITERIA 2 | SIZE OF FIRM

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

CRITERIA 3 | CAPACITY FOR TIMELY COMPLETION

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

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

TEC Professional Services Questionnaire

N. continued.

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

Elements of our task work can include:

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

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

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

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

CRITERIA 4 | PAST PERFORMANCE

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

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

CRITERIA 5 | LOCATION OF THE PRINCIPAL OFFICE

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

TEC Professional Services Questionnaire

N. continued.

CRITERIA 6 | LEGAL STATEMENT

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

CRITERIA 7 | PRIOR SUCCESSFUL COMPLETION OF PROJECTS

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

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

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

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

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

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

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

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

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

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

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

Signature: _____

Print Name: Chad M. Poché, P.E.

Title: Executive Vice President

Date: August 22, 2024

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

SOQ 24-029 Independence Park Drainage Pump Station

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



652 Papworth Avenue,
Metairie, Louisiana 70005

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:

John Teegarden, P.L.S.
Vice President, Survey Division Manager
504-322-2783
jteegarden@ascellc.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.

Timothy P. Bonura, P.E.
Managing Partner
504-322-2783
tim@ascellc.com

John Teegarden, P.L.S.
Vice President, Survey Division Manager
504-322-2783
jteegarden@ascellc.com

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

<u>7</u>	Administrative	<u>0</u>	Estimators	<u>1</u>	Specification Writers
<u>1</u>	Architects (Licensed)	<u>0</u>	Geologists	<u>2</u>	Structural Engineers
<u>0</u>	Chemical Engineers	<u>0</u>	Geotechnical Engineers	<u>2</u>	Graduate Engineers
<u>12</u>	Civil Engineers	<u>0</u>	Interior Designers	<u>4</u>	Project Managers
<u>13</u>	Construction Inspectors	<u>0</u>	Landscape Architects	<u>3</u>	Clerical
<u>0</u>	Ecologists	<u>0</u>	Land Surveyor	<u>10</u>	Grant/Funding Specialist
<u>0</u>	Electrical Engineers	<u>0</u>	Mechanical Engineers	<u>0</u>	Sanitary Engineers
<u>8</u>	Engineer Intern	<u>0</u>	Environmental Engineers		
<u>2</u>	Professional Land Surveyor			<u>76</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

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

1. N/A

2.

**H. Has this JOINT-VENTURE previously worked together? Please check:
YES _____ NO _____**

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

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

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

7 _____

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:

John Teegarden, PLS
Vice President, Survey Division Manager

Project Assignment:

Senior Professional Land Surveyor, Survey Project Manager

Name of Firm with which associated:

All South Consulting Engineers, LLC

Years' experience with this Firm:

9

Education: Degree(s)/Year/Specialization:

International Correspondence School, Surveying and Mapping Course (2-year course completed)

Active registration: Year first registered/discipline:

1990/ Professional Land Surveyor/ Louisiana License No. 4635
1999/ Professional Land Surveyor/ Mississippi License No. 2782

Other experience and qualifications relevant to the proposed Project:

John S. Teegarden, PLS joined All South Consulting Engineers, LLC in 2014 as Vice President and Survey Division Manager. Mr. Teegarden has extensive experience in all aspects of land surveying including boundary, elevation, topographic, hydrographic, industrial, and construction projects. Over his 38-year career, he has participated in or directed surveys for a wide variety of clientele including local municipal and governmental agencies, state agencies, and federal agencies (including the U.S. Army Corps of Engineers). In his career, he has served as a Field Party Chief, Field Supervisor, CAD Technician, Project Manager, and Division Manager.

Mr. Teegarden's varied project experience includes high precision survey control, single and multibeam hydrographic surveys, large boundary surveys, surveys for public right-of-way taking, topographic route surveys, mapping of subsurface utilities based on the markings provided by a subsurface utility engineering firm, coastal restoration projects, laser scanning surveys and GPS project surveys, to name just a few. This experience includes over 20 years' experience in directing and performing hydrographic surveys.

Geisenheimer Canal Topographic Survey Jefferson Parish, Louisiana

Mr. Teegarden led our survey teams in the preparation of a topographic survey that included the location of the Geisenheimer Canal Box Canal and the adjoining surface features from the north curb line of Airline Highway into the fairway of Metairie Country Club adjacent to Airline Highway.

TEC Professional Services Questionnaire

Woodvine Ditch Topographic Survey *Jefferson Parish, Louisiana*

Mr. Teegarden is providing a topographic survey over the existing 54" RCP drain line followed the line from Nassau Drive south across the Metairie Country Club Golf course to its tie in point at Geisenheimer Canal. Improvements along that route were located along with trees, with size and species and topographic features on the golf course, which included ties, sand traps and the raised greens that fell in the route.

Loumor Outfall Ditch Topographic Survey *Jefferson Parish, Louisiana*

Mr. Teegarden and the All South survey staff provided a topographic survey of the route that follows the 78" X 122" RCAP along the western edge of Metairie Country Club Golf course, then southeasterly and finally south to Geisenheimer Canal just north of Airline Highway. Improvements along that route were located along with trees, with size and species and topographic features on the golf course, which included ties, sand traps and the raised greens that fell in the route.

Tudor and Tallulah Drainage Analysis *River Ridge, Jefferson Parish, Louisiana*

Mr. Teegarden provided topographic survey services and collected field data for the Tudor and Tallulah drainage project. This work included picking up horizontal and vertical data in the drainage area, including locating the multiple subsurface utilities that could affect the project. Cost \$60,000

Canal No. 10 Underground Utility Locations *Jefferson Parish, Louisiana*

Mr. Teegarden provided topographic survey services for the West Esplanade at Canal 10 Drainage Improvements project. His responsibilities included a topographic survey of canal crossing, location of underground utilities located by subsurface utility engineering contractor and added to an existing topographic survey.

Lake Cataouatche Pump Station Topographic Survey *Jefferson Parish, Louisiana*

Mr. Teegarden and his team prepared a topographic survey at the site of the current Lake Cataouatche pump station located on Churchill Farms. The survey area adjacent to the existing pump station will be the site for a new pump station under design. The survey included cross sections of the site and the adjacent canal along with the location of improvements in the project area.

Alidore Drainage Study and Improvements *Lafourche Parish, Louisiana*

For this project, Mr. Teegarden obtained Topographic survey elevation data on culverts with pipe sizes and conditions, cross sections of ditches and canals for drainage study and design of a new pump station. Mr. Teegarden's role in this project included planning the survey, running GPS control, processing GPS and robotic total station files for import into AutoCAD Civil 3D.

Breakwater Drive Improvements *New Orleans, Louisiana*

Mr. Teegarden and his crew conducted a topographic survey for Breakwater Drive in New Orleans. He was tasked with identifying the scope of damaged elements inside the footprint of Breakwater Drive, while highlighting the facility's history and cultural significance, as well as its pre-storm conditions and full description. From this survey, All South identified additional facilities not directly within the footprint of the breakwater but that depend on it for protection (includes marinas, restaurants/vendors, housing, yacht clubs, a lighthouse, fishing piers, and more) and were able to provide cost estimates for the demolition and repairs of the damaged elements in the area.

Upper LA 45 Basin Tidal Surge Protection *Lafitte, Louisiana*

Mr. Teegarden and his team conducted topographic, magnetometer and bathymetric surveys for the design of a tidal surge protection system for the Upper LA 45 basin in the Lafitte Levee District. The team surveyed three routes, one along Bayou Barataria for the design of a floodwall and two possible routes for a rear protection levee through swamp and marsh areas. RTK GPS, Robotic Total stations, remotely operated Z-Boat and a Marine Magnetics Sea-Spy magnetometer were used for this project. The survey deliverables included plan and profile sheets and plotted cross sections.

Rosethorne Path – LA 45 *Lafitte, Louisiana*

Mr. Teegarden and his team conducted a topographic survey along the route of a proposed walk and bike path along LA Hwy 45 in the Lafitte area. RTK GPS and robotic total stations were used to located improvements, utilities and take cross sections along the survey route.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Taylor Casteigne, PLS Professional Land Surveyor, Survey Supervisor
Project Assignment:
Professional Land Surveyor
Name of Firm with which associated:
All South Consulting Engineers, LLC
Years' experience with this Firm:
3
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 2019 / Geomatics
Active registration: Year first registered/discipline:
2022/ Professional Land Surveyor / Louisiana License No. 5291
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Casteigne graduated from Nicholls State University with a B.S. in Geomatics and has served as party chief and draftsman on a variety of surveys. He is well versed in the latest surveying equipment technology to ensure fast and accurate surveys. For all projects, Mr. Casteigne performs/oversees the necessary field work for the survey, then processes the data into a field book file. He then imports the data into Auto CAD where it is used to build a TIN surface. With this surface cross sections are generated over the required areas based on the scope. Contours are then generated showing lines of constant elevation. The budgets for each project are tracked daily, thus ensuring that the surveys are completed on time and under budget. This includes placing LA One Call tickets, giving field crews the list of tasks needed to complete the project, and ensuring the projects are completed in an orderly fashion.</p> <p>LaFreniere Park Meadow Drainage Improvements <i>Jefferson Parish, Louisiana</i> Mr. Casteigne performed full topographic services including data collection, data processing, data management, CAD, and project budget oversight. Also, performing the necessary field work for the survey, then processing the data into a fieldbook file. Once the data was in a fieldbook it is imported into Auto CAD, where the data is used to build a TIN surface. This work was used to analyze the existing drainage conditions of the park meadow area.</p> <p>Bayou Vista Subdivision Drainage Model <i>Thibodaux, Louisiana</i> Mr. Casteigne performed full topographic survey services including retrieving existing Lidar data From the NGS website to be combined with survey data taken in the field in order to produce a drainage model for Bayou Vista Subdivision.</p> <p>Lirette St Pump Station <i>Houma, Louisiana</i></p>

TEC Professional Services Questionnaire

Mr. Casteigne performed full topographic survey and CAD services, for a drainage study to be completed of the entire subdivision, also for the construction and installation of a new pump station. This included performing the necessary field work for the survey, then processing the data into a useable format. Once the data was in a useable format it is imported into Auto CAD, where the data is used to build a TIN surface. With this surface cross sections are generated over the required areas based on the scope. Contours are then generated showing lines of constant elevation. The budget for the project was tracked daily ensuring that the survey was completed on time and under budget. This included placing LA One Call tickets, giving field crews the list of tasks needed to complete the project, and ensuring the project was completed in an orderly fashion.

Savanne Rd Drainage Improvements *Houma, Louisiana*

Mr. Casteigne performed full boundary surveying services for the acquisition of a servitude by Terrebonne Parish for drainage Improvements. This included performing the necessary field work for the survey, then processing the data into a useable format. Once the data was in a useable format it is imported into Auto CAD where a boundary map could be prepared.

St. Louis Canal Rd *Houma, Louisiana*

Mr. Casteigne performed full boundary surveying services for the acquisition of a servitude by Terrebonne Parish for drainage Improvements. This included performing the necessary field work for the survey, then processing the data into a useable format. Once the data was in a useable format it is imported into Auto CAD and have a boundary map prepared.

Des Allemands Bulkhead Improvements *St. Charles Parish, Louisiana*

Mr. Casteigne performed full topographic and hydrographic services including data collection, data processing, data management, research, CAD, and project budget oversight. This included managing field crews during the data collection process ensuring that everything within the project scope was captured during the fieldwork. Oversight over the drafting process was another key responsibility for this project.

Jefferson Parish Fire Training Center *Jefferson Parish, Louisiana*

Mr. Casteigne performed full topographic services including data collection, data processing, data management, CAD, and project budget oversight. Also, performing the necessary field work for the survey, then processing the data into a fieldbook file. This includes a site visit prior to beginning the project to develop a cost estimate and developing a packet for field crews detailing what data will be required to complete the survey. This survey was for the purpose of improving the Jefferson Parish Fire Training Site.

Jefferson Parish Water Department Building Site *Jefferson Parish, Louisiana*

Mr. Casteigne performed full topographic and boundary services including data collection, data processing, data management, research, CAD, and project budget oversight. This included managing field crews during the data collection process ensuring that everything within the project scope was captured during the fieldwork. Oversight over the drafting process was another key responsibility for this project. This survey was to be used in the design of a new administrative building for the Jefferson Parish Water Department.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Lyle Langley Survey Party Chief
Project Assignment:
Survey Party Chief
Name of Firm with which associated:
All South Consulting Engineers, LLC
Years' experience with this Firm:
9
Education: Degree(s)/Year/Specialization:
SOWELA Technical Community College/ 2012 / Drafting
Active registration: Year first registered/discipline:
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Langley has worked on a wide variety of surveying projects and assisted in the integration of a robotic total station and our hydrographic software to track the hydrographic boat in areas where GPS was not feasible. He has the necessary training to use hydrographic equipment, HDS Laser Scanner and is familiar with Hypack hydrographic software. His work experience includes hydrographic surveys using a rod and tape, a total station, GPS and single beam echo sounders to record the data, using side scan sonar to identify underwater obstructions and using a magnetometer to sweep for pipelines and other ferrous metal debris. He has supervised field crews on many topographic and boundary surveys. His current and previous projects include, but not limited to:</p> <p>Silt and Debris Measurement in Jefferson Parish Canals, Jefferson Parish, Louisiana Mr. Langley has provided topographic and bathymetric survey services for the Jefferson Parish Drainage Department. His tasks on this project included providing cross sections, topography and bathymetric surveys.</p> <p>Tudor and Tallulah Drainage Analysis Jefferson Parish, Louisiana Mr. Langley was part of a team that provided topographic survey services and collected field data for the Tudor and Tallulah drainage project. This work included picking up horizontal and vertical data.</p> <p>Canal No. 10 Underground Utility Locations, Jefferson Parish, Louisiana Mr. Langley located underground utilities as marked by a Subsurface Utility Engineer and added to an existing topographic survey.</p> <p>Lake Cataouatche Pump Station Topographic Survey, Jefferson Parish, Louisiana</p>

TEC Professional Services Questionnaire

Mr. Langley and his team prepared a topographic survey at the site of the current Lake Cataouatche pump station located on Churchill Farms. The survey area adjacent to the existing pump station will be the site for a new pump station under design. The survey included cross sections of the site and the adjacent canal along with the location of improvements in the project area.

Woodvine Ditch Topographic Survey *Jefferson Parish, Louisiana*

Mr. Langley and his crew provided a topographic survey over the existing 54" RCP drain line followed the line from Nassau Drive south across the Metairie Country Club Golf course to its tie in point at Geisenheimer Canal. Improvements along that route were located along with trees, with size and species and topographic features on the golf course, which included ties, sand traps and the raised greens that fell in the route.

Loumor Outfall Ditch Topographic Survey *Jefferson Parish, Louisiana*

Mr. Langley provided a topographic survey of the route that follows the 78" X 122" RCAP along the western edge of Metairie Country Club Golf course, then southeasterly and finally south to Geisenheimer Canal just north of Airline Highway. Improvements along that route were located along with trees, with size and species and topographic features on the golf course, which included ties, sand traps and the raised greens that fell in the route.

40 Arpent Canal Levee Walk and Cycling Path and Pedestrian Bridge *St. Bernard Parish, Louisiana*

Mr. Langley assisted with the topographic survey along the 40 Arpent Levee in St. Bernard parish for the design of a walk and bike path. RTK GPS was used to locate improvement and take cross sections along the proposed survey route. The area surveyed began at the St. Bernard/Orleans parish line and continued southeasterly to Paris Road.

Alidore Drainage Study and Improvements *Lafourche Parish, Louisiana*

Mr. Langley led the field crew to provide a topographic survey to obtain an elevation data on culverts with pipe sizes and conditions, cross sections of ditches and canals for drainage study and design of a new pump station. Mr. Langley was the Party Chief for this effort. Party chief, ±71 Ac. Cost \$20,000

Jean Lafitte Parkway Drainage Improvements *St. Bernard Parish, Louisiana*

Mr. Langley performed the boundary and topographic survey of Jean Lafitte Parkway from Judge Perez Drive to the Forty Arpent Canal for the design of much needed drainage improvements.

Reynes Street Topographic Survey, *New Orleans, Louisiana*

Mr. Langley led the field crew on a topographic survey of Reynes Street from South Claiborne Avenue to Florida Avenue in the City of New Orleans. This survey extended from right of way to right of way and was delivered on plan and profile sheets showing drainage and sewer and existing roadway conditions.

Bayou Terre Aux Bouefs Ridge Restoration Armoring *St. Bernard Parish, Louisiana*

Mr. Langley and his team provided the topographic and hydrographic survey data. The survey also included sections of Bayou Lery and Bayou Gentilly. Overbank cross sections and a hydrographic survey were conducted to aid in the design of bank armoring to help stem further erosion of the existing shoreline. Transects were also ran across approximately 10,000 acres of additional marshland. A magnetometer survey was also conducted to identify submerged pipelines.

Upper LA 45 Basin Tidal Surge Protection *Lafitte, Jefferson Parish, Louisiana*

Mr. Langley is currently working on a topographic survey of a proposed route for approximately three miles of new levee and floodwalls to provide protection against tidal surge in the upper area of Lafitte, Louisiana along LA Hwy. 45.

Breakwater Drive Improvements *New Orleans, Louisiana*

Mr. Langley was part of a team tasked to conduct a topographic survey for Breakwater Drive in New Orleans. As the Survey Party Chief, he assisted in identifying the scope of damaged elements inside the footprint of Breakwater Drive, while highlighting the facility's history and cultural significance, as well as its pre-storm conditions and full description. From this survey, All South identified additional facilities not directly within the footprint of the breakwater but that depend on it for protection (includes marinas, restaurants/vendors, housing, yacht clubs, a lighthouse, fishing piers, and more) and were able to provide cost estimates for the demolition and repairs of the damaged elements in the area.

RR017 and RR019 New Orleans Streets Topographic Surveys *New Orleans, Louisiana*

Mr. Langley was part of a field crew tasked to perform topographic surveys for full reconstruction street projects located in the Dixon area in the city of New Orleans. These surveys were prepared in accordance with the DPW 2015 Road Design Manual.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
William Lambert Survey Party Chief
Project Assignment:
Survey Party Chief
Name of Firm with which associated:
All South Consulting Engineers, LLC
Years' experience with this Firm:
2
Education: Degree(s)/Year/Specialization:
High School Diploma
Active registration: Year first registered/discipline:
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Lambert joined All South Consulting Engineers, LLC in April of 2021. He has over 15 years of experience in land surveying and has served as an instrument man to a survey party chief. He has performed topographic surveys, right-of-way, ALTAs, as-builts, stakeouts, boundaries, and elevation certificates, using Leica robotic instrument and Trimble GPS. He has also performed construction layout using Trimble Robotics and GPS and served as a survey helper in industrial surveys.</p> <p>LaFreniere Park Meadow Drainage Improvements <i>Jefferson Parish, Louisiana</i> Mr. Lambert performed full topographic services including data collection and field crew supervision. This included establishing project control, creating a sketch of the site, and surveying the meadow area at the park. This work was used to analyze the existing drainage conditions of the park meadow area.</p> <p>LALD Lower Lafitte Drainage Improvements <i>Jefferson Parish, Louisiana</i> Mr. Lambert has completed a full topographic survey of approximately 5500ft of streets for the purpose of improving the existing drainage in the area. This included establishing project control and temporary benchmarks and supervising the survey crew ensuring that the project was completed based on the scope of work in an efficient manner.</p> <p>Marrero St. Pump Station <i>Jefferson Parish, Louisiana</i> Mr. Lambert has completed a full topographic survey of the Marrero St. Pump Station for the purpose of making improvements to the pump station. This included establishing project control and temporary benchmarks and supervising the survey crew ensuring that the project was completed based on the scope of work in an efficient manner.</p>

TEC Professional Services Questionnaire

Pines Village Road Reconstruction *New Orleans, Louisiana*

Mr. Lambert performed a full topographic survey of approximately 8800ft of roadway in New Orleans. This included overseeing the collection of all necessary field data within the right of way of the designated streets and keeping detailed field notes of the data being obtained. This project was done at the request of the city of New Orleans for the purpose of full depth reconstruction on these roadways.

Ascension Parish School Board Airline Highway Property Topographic Survey *Ascension Parish, Louisiana*

Mr. Lambert performed full topographic and boundary services including data collection, boundary services, and survey crew supervision. This included ensuring all required fieldwork was done in an efficient manner, establishing project control, creating a sketch of the site, and in accordance with the project scope of work. This survey was used in the design of a new building for the site, and to establish the western boundary to aid in tree clearing.

St. Bernard Parish Water Plant Drainage Improvements *St. Bernard Parish, Louisiana*

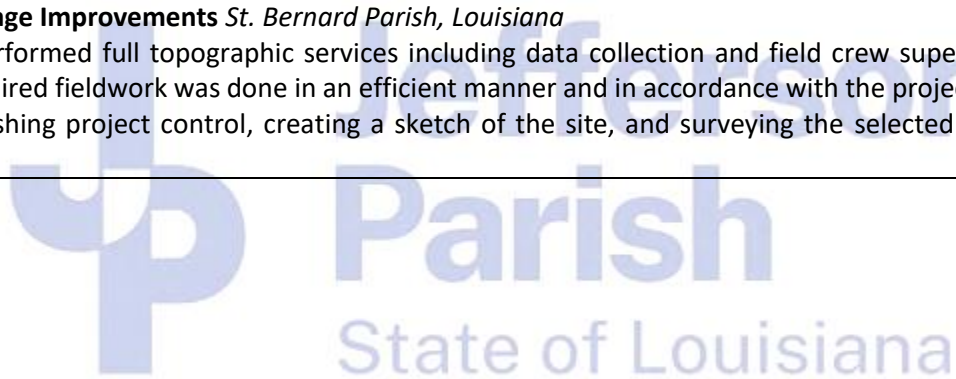
Mr. Lambert performed full topographic services including data collection and field crew supervision. This included establishing project control, creating a sketch of the site, and surveying the St. Bernard Parish Water Treatment Plant site. This work was used to analyze the existing drainage conditions of the St. Bernard Parish Water Treatment Plant.

St. Bernard Parish Canal Servitude Creation *St. Bernard Parish, Louisiana*

Mr. Lambert performed full boundary services including data collection and recovering boundary evidence along the selected canal in St. Bernard. This survey is intended to create servitudes over 9 different canals throughout St. Bernard Parish for the parish to go in and clean these canals of obstructions after a major storm event.

Old Arabi Drainage Improvements *St. Bernard Parish, Louisiana*

Mr. Lambert performed full topographic services including data collection and field crew supervision. This included ensuring all required fieldwork was done in an efficient manner and in accordance with the project scope of work. This included establishing project control, creating a sketch of the site, and surveying the selected areas by the project manager.



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Austin Bowman Survey Technician
Project Assignment:
Survey Technician
Name of Firm with which associated:
All South Consulting Engineers, LLC
Years' experience with this Firm:
2
Education: Degree(s)/Year/Specialization:
A.A.S. HVAC NCCER Level Graduate/ 2020/ Nunez Community College
Active registration: Year first registered/discipline:
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Bowman joined All South Consulting Engineers, LLC in March of 2021 as a survey assistant. He received an Associate of Applied Science degree in HVAC NCCER Level from Nunez Community College in 2020. Since joining All-South, Mr. Bowman has assisted in full topographic and hydrographic surveys.</p> <p>LaFreniere Park Meadow Drainage Improvements <i>Jefferson Parish, Louisiana (09/21)</i> Mr. Bowman performed full topographic services including assisting in data collection and maintenance of survey equipment. This included assisting in establishing project control, collecting field data at the direction of the party chief, and assisting in collecting invert data on drainage structures throughout the project.</p> <p>Slidell Pier and Breakwater Restoration <i>St. Tammany Parish, Louisiana</i> Mr. Bowman performed full topographic and hydrographic services including assisting in data collection and maintenance of survey equipment. This included assisting establishing project control, collecting field data at the direction of the party chief, and assisting in setting up the hydrographic equipment needed to complete the survey. This work was used to aid in the design of a new boat launch and breakwater at the Slidell Fishing Pier site.</p> <p>Hill Heights Eastern Canal Topographic Survey <i>St. Charles Parish, Louisiana</i> Mr. Bowman performed full topographic and boundary services including assisting in data collection and maintenance of survey equipment. This included assisting the party chief in locating boundary evidence along the project site and collecting field data at the direction of the party chief. This work was used to analyze the existing conditions of the collapsed bulkhead along the canal.</p>

TEC Professional Services Questionnaire

Old Arabi Drainage Improvements *St. Bernard Parish, Louisiana*

Mr. Bowman performed full topographic services including assisting in data collection and maintenance of survey equipment. This included assisting in establishing project control, collecting field data at the direction of the party chief, and assisting in surveying the streets and drainage structures along the specified routes.

Des Allemands Bulkhead Improvements *St. Charles Parish, Louisiana*

Mr. Bowman performed full topographic services including assisting in data collection and maintenance of survey equipment. This included assisting in establishing project control, collecting field data at the direction of the party chief, and assisting in surveying the existing bulkhead and street adjacent to it. This project was intended to assist in the design of a new bulkhead along Bayou Des Allemands.

Westside Blvd (W.Park-Alma) *Houma, Louisiana*

Mr. Bowman assisted in the completion of a full topographic survey along Westside Blvd in Houma from W.Park Ave to Alma St. This included assisting the Survey Party Chief in collecting field data inside the right of way of Westside Blvd. This project was done at the request of the Terrebonne Parish Government for the purpose of replacing the existing roadside drainage.



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Clark Shires <i>Survey Technician</i>
Project Assignment:
Survey Technician
Name of Firm with which associated:
All South Consulting Engineers, LLC
Years' experience with this Firm:
5
Education: Degree(s)/Year/Specialization:
Bachelor of Science, Business Administration, 2018
Active registration: Year first registered/discipline:
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Shires joined All South Consulting Engineers in September 2018 as a full time Survey Assistant. Mr. Shires graduated in May 2018 from the University of New Orleans with a bachelor's degree in Business Administration. His duties include assisting the Survey Crew Leader as necessary to perform collection of all survey data in the field.</p> <p>LaFreniere Park Meadow Drainage Improvements <i>Jefferson Parish, Louisiana</i> Mr. Shires performed full topographic services including assisting in data collection and maintenance of survey equipment. This included assisting in establishing project control, collecting field data at the direction of the party chief, and assisting in collecting invert data on drainage structures throughout the project.</p> <p>Pines Village Road Reconstruction <i>New Orleans, Louisiana</i> Mr. Shires performed a full topographic survey of approximately 8800ft of roadway in New Orleans. This included assisting in the collection of all necessary field data within the right of way of the designated streets and assisting in collecting invert information on all drainage and sewer structures along the survey route. This project was done at the request of the city of New Orleans for the purpose of full depth reconstruction on these roadways.</p> <p>St. Bernard Parish Water Plant Drainage Improvements <i>St. Bernard Parish, Louisiana</i> Mr. Shires performed full topographic services including assisting in data collection and maintenance of survey equipment. This included assisting in establishing project control, collecting field data at the direction of the party chief, and assisting in collecting invert data on drainage structures throughout the project.</p> <p>Old Arabi Drainage Improvements <i>St. Bernard Parish, Louisiana</i> Mr. Shires performed full topographic services including assisting in data collection and maintenance of survey equipment. This included assisting in establishing project control, collecting field data at the direction of the party chief, and assisting in surveying the streets and drainage structures along the specified routes.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Scott Breidenstein CADD Technician
Project Assignment:
CADD Technician / Draftsman
Name of Firm with which associated:
All South Consulting Engineers, LLC
Years' experience with this Firm:
3
Education: Degree(s)/Year/Specialization:
Technical Diploma / 2020
Active registration: Year first registered/discipline:
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Breidenstein joined the All South team after 8 years in the Land Surveying industry. His experience includes AutoCAD C3D which he utilizes in survey and design projects that include topographic, boundary, route corridor surveys, hydrographic surveys, ALTAs, field data input, plan and profile sheets, import/export of survey points, proposed design corridors, and volume calculations. Mr. Breidenstein coordinates with field crews, drafters, engineers, and clients to generate AutoCAD C3D drawings and plan sheet sets from the beginning of a project to final stamped plans. His current and previous projects include, but not limited to:</p> <p>RR017 AND RR019 New Orleans Streets Topographic Surveys <i>New Orleans, Louisiana</i></p> <p>Mr. Breidenstein prepared survey baseline drawings, topographic plan sheets and profiles depicting the existing underground utilities for the streets in these two project submittals. These surveys depicted the elevations of the streets to show centerline and gutter line profiles, the surface created showed the many imperfections and potholing in the streets. Utility information was researched and observed to show the areas in need of repair or replacement of major drainage, sewer and water lines. Also included were right-of-way lines, apparent lot lines, 3D surface, and cross sections. This project also conformed to Orleans Parish DPW standards.</p> <p>DPW Capital Improvements Program – Lakeview Group B Infrastructure Repairs <i>New Orleans, Louisiana</i></p> <p>Mr. Breidenstein prepared survey baseline drawings, topographic plan sheets and profiles depicting the existing underground utilities for the streets in the Lake Vista project. These surveys depicted the elevations of the streets to show centerline and gutter line profiles, the surface created showed the many imperfections and potholing in the streets. Utility information was researched and observed to show the areas in need of repair or replacement of major</p>

TEC Professional Services Questionnaire

drainage, sewer and water lines. Also included were right-of-way lines, apparent lot lines, 3D surface, and cross sections. Mr. Breidenstein was also involved in the design phase of this project. Coordinating with engineers and subconsultants to prepare drawings depicting the proposed new roadway, elevations, cross sections, new subsurface drainage, sewerage and water for approximately 4900' of roadway and sidewalks. This project also conformed to Orleans Parish DPW standards.

Breakwater Drive Improvements *New Orleans, Louisiana*

Mr. Breidenstein prepared survey maps along Breakwater Drive, from its intersection with N. Roadway Street to its termination at the point. Baseline maps, plan, profile and cross sections were provided to show the existing berms and existing topography of the site. FEMA and CORP permit drawings were also provided in this project. Shown in the plans were horizontal and vertical location of existing berms and proposed berms. Mr. Breidenstein assisted the project engineer in creation of the new west, north, south and the point berms. Proposed berm plan and profile sheets with cross sections showing proposed work were also created by Mr. Breidenstein.

Westside Boulevard and Alma Street Drainage *Terrebonne Parish, Louisiana*

This project consists of roadside drainage improvements in an area of the city of Houma, LA. Mr. Breidenstein assisted in the topographic survey and prepared the proposed design plans for the improvements to the existing drainage system. Mr. Breidenstein modeled in detail the hydrologic components of the project area using CAD and provided profiles and cross sections that were utilized in the design process.

Old Arabi Drainage Improvements *St. Bernard Parish, Louisiana*

Mr. Breidenstein prepared proposed design drawings for the clearing and dredging of existing canals and the construction of drainage structures. The project involved replacing culverts, ditch re-grading, and dredge operations. Site plans provided by Mr. Breidenstein were used to design improved drainage for the surrounding area.

Canal A Drainage Improvements *New Sarpy/St. Charles Parish, Louisiana*

Mr. Breidenstein prepared the design plans for the Canal A drainage improvement project. The project was approx. ±1800 LF and consisted of replacing an existing arch culvert with two cast in place box culverts, roadway reconstruction, and multiple cantilevered sheet pile wall systems. Mr. Breidenstein created a C3D model showing the proposed canal depth for volume calculations. Three separate concrete flume walls were drawn and detailed as well. He assisted the project engineer in completing the proposed plan set and reconstructed roadway design.

Alidore Drainage Improvements *Raceland, Louisiana*

Mr. Breidenstein prepared topographic and right-of-way drawings for the construction of a new drainage pumping station. The project involved a levee re-alignment, ditch re-grading and research into the BNSF railroad right-of-way. Site plans provided by Mr. Breidenstein were used to design better drainage for the surrounding area and proved to be more economical.


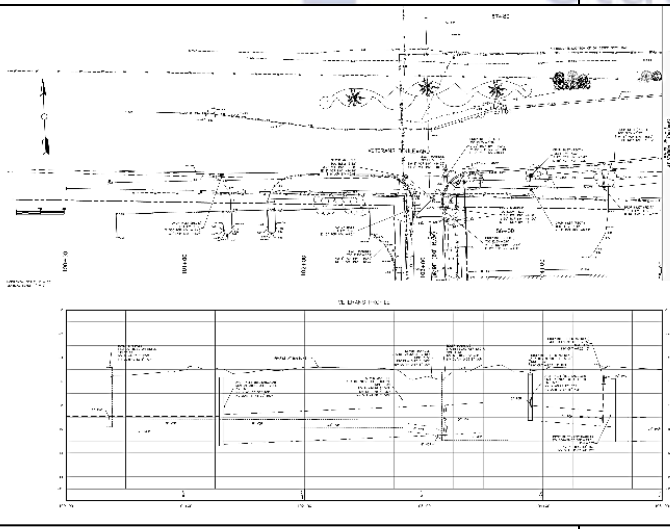
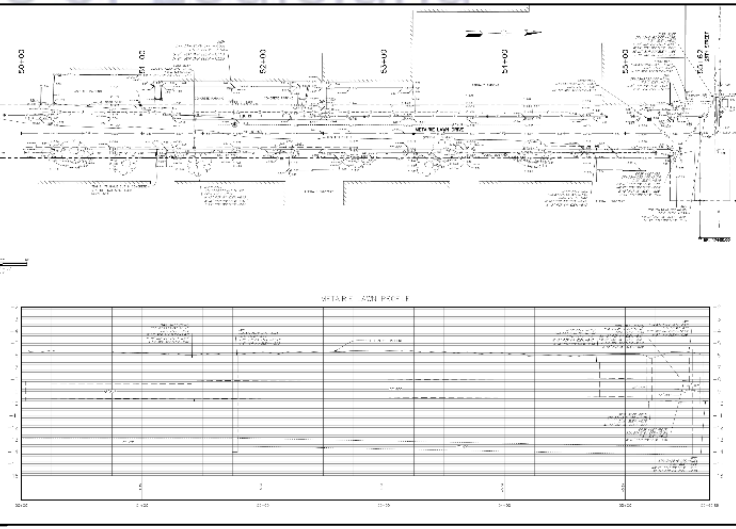
Gray Campus Development - CIS *Gray, Louisiana*

Mr. Breidenstein prepared the design plans for the construction of a Cardiovascular Institute of the South, Terrebonne Parish. The plans included new site plan, pavement plan, drainage and grading plan, sewer and water plans and utility plan. Also included in the plans were the topographic survey and a new retention pond design. Mr. Breidenstein coordinated with the project engineer and sub-contractors to conform and finalize the plans.

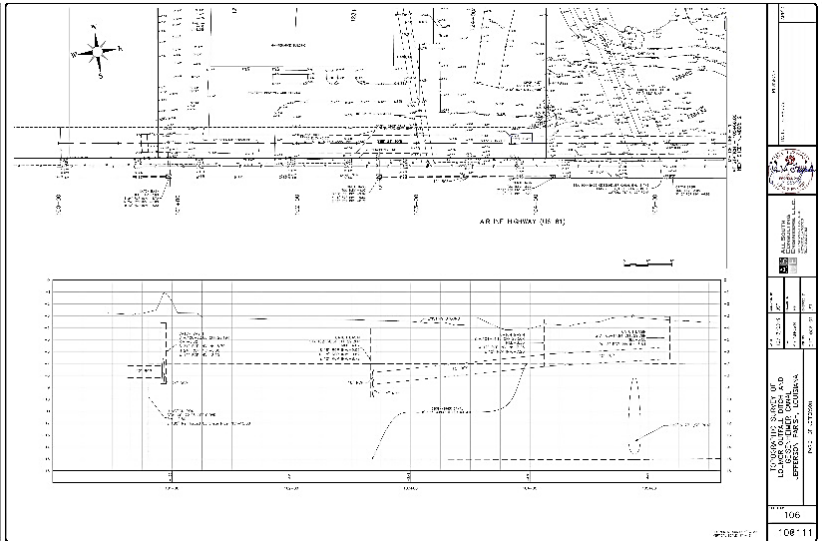
TEC Professional Services Questionnaire

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

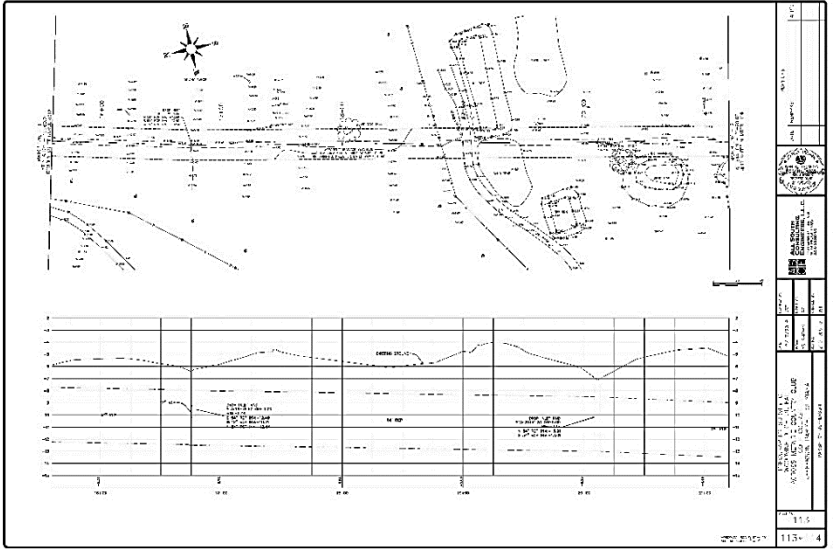
PROJECT NO. 1

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Metairie Lawn Drainage Improvements Topographic Survey <i>Metairie, Louisiana</i></p> <p>Mr. Joseph R. Becker, P.E. Ardurra 3012 26th Street Metairie, Louisiana 70002</p>	<p>All South provided a topographic survey from ±500 feet south of the intersection of Metairie Lawn Drive and 26th Street and from that intersection heading west along 26th Street to the intersection of 26th Street and Ridgelake Drive and then north along Ridgelake Drive to its intersection with Veterans Boulevard. On Veterans Boulevard the survey will begin on the west side of the Perino's Nursery driveway to the U-turn on the west side of Clifford Drive.</p> <p>This was a full topographic survey from right of way to right of way with cross sections taken at 50-foot intervals and shots along the centerline of streets taken at 25-foot intervals. The survey also included the location of above and below ground utilities. For the sewer and drainage utilities we provided top of casting elevations, invert elevations, pipe sizes, and pipe material. The deliverables for this project included plan and profile sheets and cross section sheets.</p>	
		
		
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Entire Project:
August 2021	N/A	Survey Cost: \$25,460

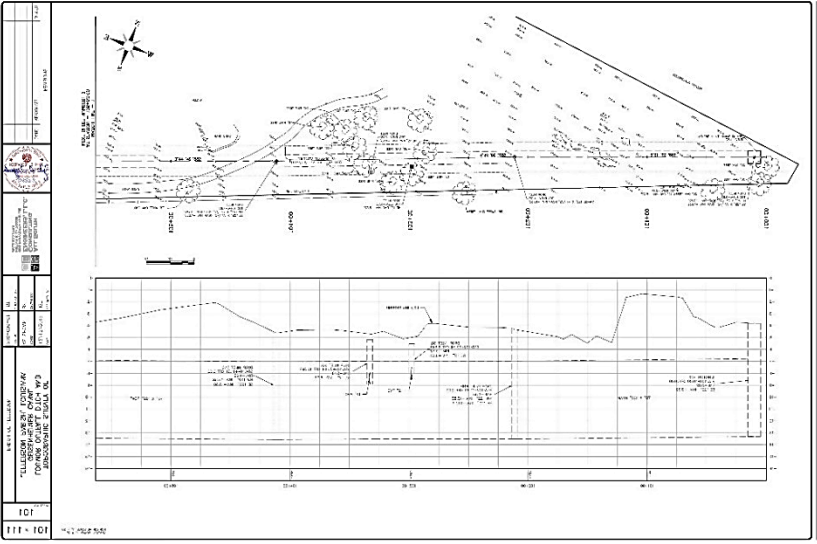
TEC Professional Services Questionnaire

PROJECT NO. 2						
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:					
<p>Geisenheimer Canal Topographic Survey <i>Jefferson Parish, Louisiana</i></p> <p>Jefferson Parish Government Mr. Neil Schneider, P.E. Director of Capital Projects 1221 Elmwood Park Blvd Jefferson, Louisiana 70123 (504)736-6753</p>	<p>This survey was prepared to provide the field data necessary to design drainage improvements for the Geisenheimer Canal which flows to Hoey's Canal and from there to 17th Street Canal and Lake Pontchartrain.</p> <p>In order to accomplish this, we prepared a topographic survey of the surface area above Geisenheimer Canal from the maintenance facility for the Metairie Country Club to the tie in point at Hoey's Canal. For this route we located all surface improvements, visible signs of utilities, trees with size and species and cross sections at 50' intervals.</p> <p>We were able to locate the underground concrete box canal by accessing it through an access cover where we set a control point in the bottom of the box, we then located the sides and roof and the tie in point for the concrete arch pipe outfall for the Loumor Ditch. From a drop inlet cover near the Woodvine Ditch outfall we located the outfall and determined the invert. This was verified by probing the outfall pipe at the edge of the box. At Hoey's Canal we probed the top of the Geisenheimer Canal box and the Hoey's Canal box to determine the point of intersection.</p> <p>The deliverable for this survey were plan and profile drawings of Geisenheimer Canal which were included in a master set with Loumor Ditch and Woodvine Ditch.</p> <div style="text-align: center;">  </div>					
<p>Completion Date (Actual or estimated):</p>	<p style="text-align: center;">Estimated Cost:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px; vertical-align: top;">Entire Project:</td> <td style="width: 50%; padding: 5px; vertical-align: top;">Work for which Firm was Responsible:</td> </tr> <tr> <td style="width: 50%; padding: 5px; vertical-align: top; text-align: center;">February 2020</td> <td style="width: 50%; padding: 5px; vertical-align: top; text-align: center;">Survey Cost: \$25,920</td> </tr> </table>		Entire Project:	Work for which Firm was Responsible:	February 2020	Survey Cost: \$25,920
Entire Project:	Work for which Firm was Responsible:					
February 2020	Survey Cost: \$25,920					

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Woodvine Ditch Topographic Survey <i>Jefferson Parish, Louisiana</i></p> <p>Jefferson Parish Government Mr. Neil Schneider, P.E. Director of Capital Projects 1221 Elmwood Park Blvd Jefferson, Louisiana 70123 (504)736-6753</p>	<p>This survey is for drainage improvements to the Woodvine Ditch beginning at the western right of way of Nassau Drive and following the drain line west-southwesterly across the parking lot that lies on the north side of the swimming pools and tennis courts to the eastern side of the golf course where the drain line turns in a southerly direction and heads south-southwest to its discharge point into Geisenheimer Canal at the north right of way of Airline Highway.</p> <p>The topographic survey over the existing 54" RCP drain line followed the line from Nassau Drive south across the Metairie Country Club Golf course to its tie in point at Geisenheimer Canal. Improvements along that route were located along with trees, with size and species and topographic features on the golf course, which included ties, sand traps and the raised greens that fell in the route.</p> <p>Deliverables were plan and profile sheets that were included with the master set of Loumor Ditch Outfall, Geisenheimer Canal and Woodvine Ditch.</p> <div style="text-align: center; margin-top: 20px;">  </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
February 2020	N/A	Survey Cost: \$16,720

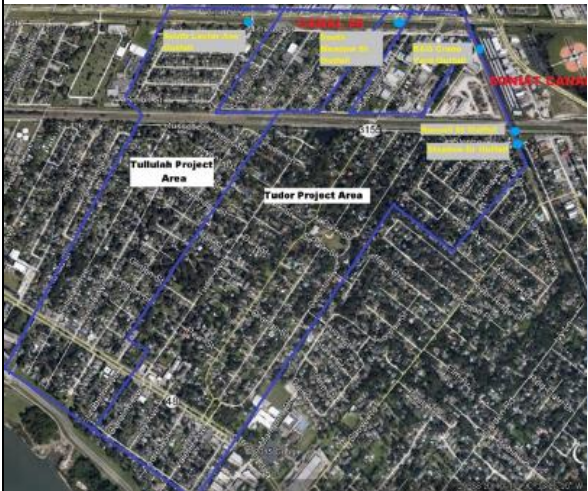
TEC Professional Services Questionnaire

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Loumor Outfall Ditch Topographic Survey <i>Jefferson Parish, Louisiana</i></p> <p>Mr. Neil Schneider, P.E. Director of Capital Projects 1221 Elmwood Park Blvd Jefferson, Louisiana 70123 (504)736-6753</p>	<p>This survey is for drainage improvements to the Loumor Outfall Ditch beginning at the southwest corner of Pontiff Playground and running southeast then turning in a south-southwesterly direction along the northern and western boundary of Metairie Club Estates Subdivision to its discharge point into Geisenheimer Canal and the north right of way of Airline Highway.</p> <p>This survey route follows the 78" X 122" RCAP along the western edge of Metairie Country Club Golf course, then southeasterly and finally south to Geisenheimer Canal just north of Airline Highway. Improvements along that route were located along with trees, with size and species and topographic features on the golf course, which included ties, sand traps and the raised greens that fell in the route.</p> <p>We also located the maintenance facility for the golf course, ponds and a pump house that were near the drain route.</p> <p>Deliverables for this project were plan and profile sheets that were included with the master set of Loumor Ditch Outfall, Geisenheimer Canal and Woodvine Ditch.</p> <div style="text-align: center; margin-top: 20px;">  </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
February 2020	N/A	Survey Cost: \$19,340


TEC Professional Services Questionnaire

PROJECT NO. 5						
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:					
<p>Lake Cataouatche Pump Station Topographic Survey <i>Jefferson Parish, Louisiana</i></p> <p>Jefferson Parish Drainage Department Jefferson Parish Government Mitchell T. Theriot, P.E., Director of Drainage 1221 Elmwood Park Blvd Jefferson, Louisiana 70123 (504)736-6753</p>	<p>All South prepared a topographic survey at the site of the proposed pump station on the northern shore of Lake Cataouatche. The new site lies south of the existing pump station and just north of the flood wall. The survey included cross sections of the proposed site and adjacent canal, location of improvements, the existing discharge pipes, roadways and the floodwall.</p> <div style="text-align: center;"> </div>					
<p>Completion Date (Actual or estimated):</p>	<p style="text-align: center;">Estimated Cost:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px; vertical-align: top;">Entire Project:</td> <td style="width: 50%; padding: 5px; vertical-align: top;">Work for which Firm was Responsible:</td> </tr> <tr> <td style="width: 50%; padding: 5px; text-align: center;">N/A</td> <td style="width: 50%; padding: 5px; text-align: center;">Survey Cost: \$4,495</td> </tr> </table>		Entire Project:	Work for which Firm was Responsible:	N/A	Survey Cost: \$4,495
Entire Project:	Work for which Firm was Responsible:					
N/A	Survey Cost: \$4,495					
<p>May 2019</p>						


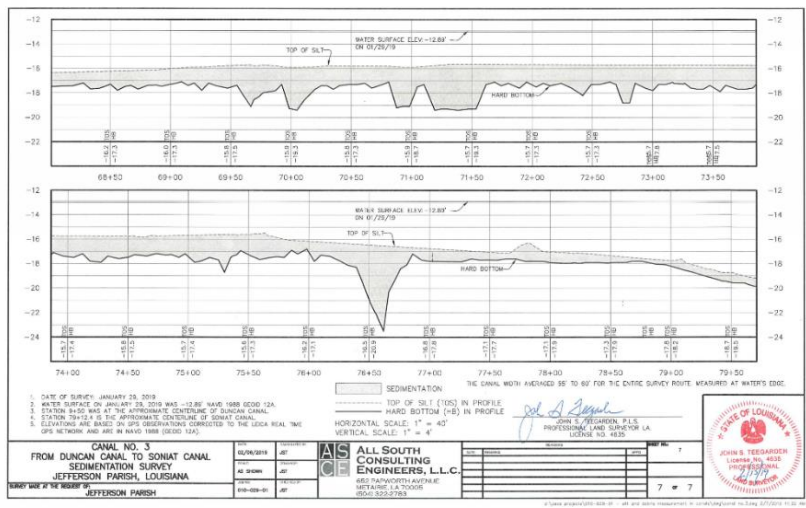
TEC Professional Services Questionnaire

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Tudor and Tallulah Drainage Improvements, <i>Jefferson Parish, Louisiana</i></p> <p>Jefferson Parish Government Neil Schneider, Capital Projects 1221 Elmwood Park Blvd. Jefferson, Louisiana 70123 (504) 736-6500</p>	<p>All South was selected by Jefferson Parish to analyze the drainage requirements in this project area. The goal of this analysis is to provide a master plan that will result in no street flooding due to the 10-yr, 24-hr rainfall event. This report includes the study results, drainage recommendations and cost estimate with recommended phasing.</p> <p>The Tudor and Tallulah project area is located in River Ridge, Louisiana and includes Caroline Street, Tudor Avenue, Tallulah Avenue, Russell Street, Stephen Drive and South Lester Avenue from the Mississippi River to Canal #6 and from Florida Avenue to Soniat Canal. This area is located in Jefferson Parish and regularly experiences significant street flooding within the project area.</p> <p>All South performed a hydrologic and hydraulic analysis on each drainage area to examine the existing drainage patterns. Existing topography, culvert sizes and slopes were used to determine the adequacy of the existing system. A 10-year storm event with a rainfall of 7.8 inches in a 24-hour period was used to analyze each system. Peak flows were determined using the EPA SWMM method. Using the same design storm and criteria, an analysis of the required drainage capacity was also performed to help identify improvements.</p> <p>All South provided the study and recommendations with cost analysis to improve the systems. As a result of this report, All South was tasked with the permitting, design and construction management of increased capacity collection system, new pumping station, and out fall system. Collection system improvements include the removal 1,000 feet of 54" reinforced concrete pipe and installation of new 72" RC P. This process involves the relocation of several utilities and the design of concrete conflict box. This 72" RCP will be installed within a 96" steel Pipe jack and bored under an existing CN Railroad track. As part of the permit, All South will design a cofferdam system for approval by CN Railroad. The new pumping station will have a 165 CFS capacity, generated with three vertical mixed flow pumps with controls. The out fall will consist of 36" steel pipes out falling into an existing drainage canal. The existing drainage canal will be outfitted with new concrete headwalls and bottom slab to prevent erosion. As part of this project All South's survey crews collected data on existing drainage structures along the CN Railroad right of way.</p>	
		
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
July 2017	\$260,000	Survey Fee: \$60,000


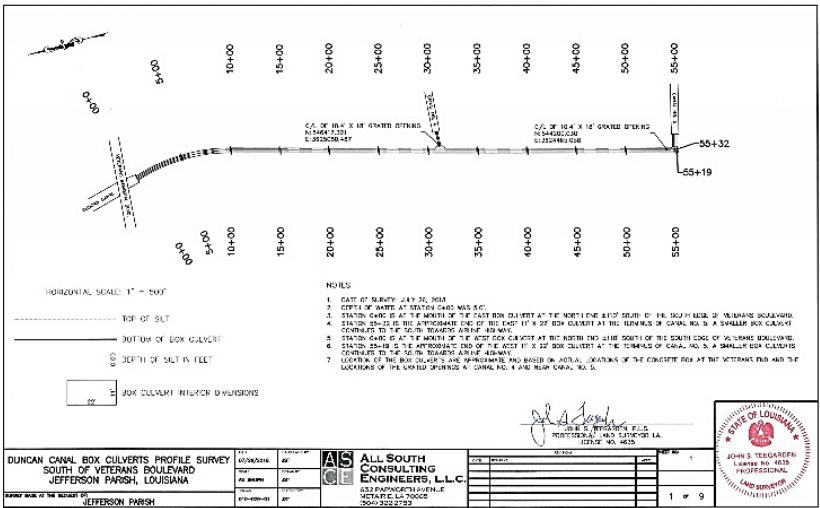
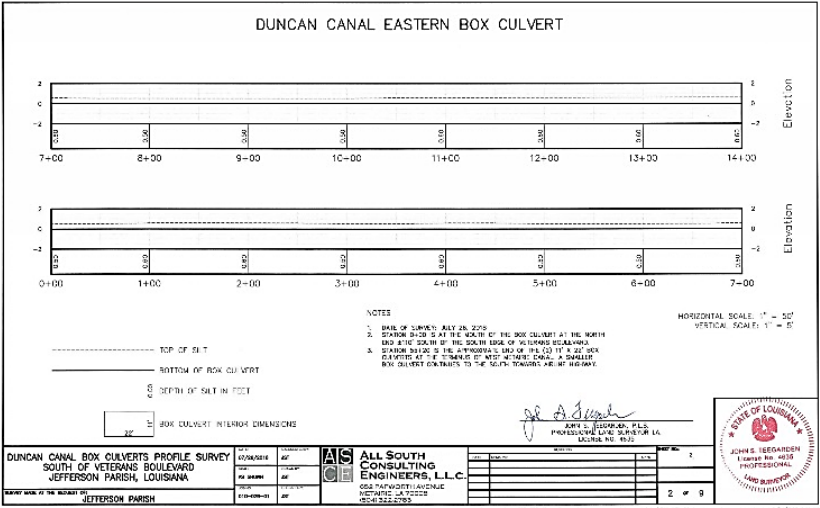

TEC Professional Services Questionnaire

PROJECT NO. 7						
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:					
<p>Alidore Drainage Improvements and Statewide Flood Control <i>Lafourche Parish, Louisiana</i></p> <p>Lafourche Parish Government James Barnes Public Works Director P.O. Box 425 Mathew, LA 70375 (985) 532-8235</p>	<p>The Lafourche Parish Government asked All South to develop a drainage plan to improve drainage in the Alidore community. This community, which is over 30 years old, consists of small lots, and very tight drainage and utility features.</p> <p>In order to properly plan these improvements, All South conducted a topographic survey of this area for this project. This survey included cross sections of the roadside ditches, location of drainage culverts and drop inlets, and hydrographic surveys using GPS of the main drainage canals that bordered the survey area. The survey data was used to create a model of the area to be used in sizing the pumps for a new pumping station.</p> <p>Surveying Services:</p> <ul style="list-style-type: none"> Topographic Survey Hydrographic Survey Courthouse Research Research Courthouse Records to establish right of way for drainage, pipeline and railroads Prepared Right of Way Plat for new pump station 					
<p>Completion Date (Actual or estimated):</p>	<div style="text-align: center;">  </div>					
<p>Completion Date (Actual or estimated):</p>	<p style="text-align: center;">Estimated Cost:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%; padding: 5px;">Entire Project:</th> <th style="width: 50%; padding: 5px;">Work for which Firm was Responsible:</th> </tr> <tr> <td style="width: 50%; padding: 5px; text-align: center;">\$3,230,645</td> <td style="width: 50%; padding: 5px; text-align: center;">Survey Fee: \$15,000</td> </tr> </table>		Entire Project:	Work for which Firm was Responsible:	\$3,230,645	Survey Fee: \$15,000
Entire Project:	Work for which Firm was Responsible:					
\$3,230,645	Survey Fee: \$15,000					
<p style="text-align: center;">July 2020</p>	<p style="text-align: center;">\$3,230,645</p>	<p style="text-align: center;">Survey Fee: \$15,000</p>				



TEC Professional Services Questionnaire

PROJECT NO. 8					
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:				
<p>Jefferson Parish Canal Sedimentation and Debris Surveys <i>Jefferson Parish, Louisiana</i></p> <p>Jefferson Parish Government Mitchell T. Theriot, P.E., Director of Drainage 1221 Elmwood Park Blvd Jefferson, Louisiana 70123 (504)736-6753</p>	<p>All South is performing hydrographic surveys of selected drainage canals and box culverts in the Jefferson Parish Drainage System. The purpose of these surveys is to monitor the amount of sediment accumulating in the drainage system. All South utilizes its Z-Boat (a 6-foot long remotely controlled hydrographic survey boat) to perform these surveys. The Z-Boat is equipped with a single beam dual frequency echo sounder capable of defining the amount of sediment accumulating in the canals and drainage structures. This is accomplished by using two frequency during the survey. The high frequency sound waves are reflected by the top of the sediment layer and the low frequency sound waves penetrate the sediment and are reflected by the solid bottom. These surveys are presented as profiles and show the top of sediment elevations and the elevation of the solid bottom.</p> <div style="text-align: right; margin-top: 10px;">  </div>				
					
Completion Date (Actual or estimated):	<p style="text-align: center;">Estimated Cost:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px;">Entire Project:</td> <td style="width: 50%; padding: 5px;">Work for which Firm was Responsible:</td> </tr> <tr> <td style="text-align: center; padding: 5px;">N/A</td> <td style="text-align: center; padding: 5px;">Survey Cost: \$75,000</td> </tr> </table>	Entire Project:	Work for which Firm was Responsible:	N/A	Survey Cost: \$75,000
Entire Project:	Work for which Firm was Responsible:				
N/A	Survey Cost: \$75,000				
Project is Ongoing by Task Assignments					

TEC Professional Services Questionnaire

PROJECT NO. 9					
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:				
<p style="text-align: center;">Duncan Canal Box Culverts <i>Kenner, Louisiana</i></p> <p>Jefferson Parish Government Mitchell T. Theriot, P.E., Director of Drainage 1221 Elmwood Park Blvd Jefferson, Louisiana 70123 (504)736-6753</p>	<p>All South was tasked with providing a survey to show the depth of silt that has accumulated within the 11' x 22' box culverts that start south of Veterans Boulevard to a point south of the intersection with Canal No. 5 (West Metairie Avenue) and the end of the double box culvert. All South's remotely controlled boat was utilized with a dual frequency echosounder to obtain depths to the top of silt and the concrete bottom of the box culvert. The deliverable for this project was a report of the survey results and plotted profile sheets prepared for each box.</p> <div style="text-align: right; margin-top: 20px;">  </div>				
	 <p style="text-align: center;">DUNCAN CANAL EASTERN BOX CULVERT</p>  <div style="text-align: right; margin-top: 20px;">  </div>				
Completion Date (Actual or estimated):	Estimated Cost:				
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%; text-align: center;">Entire Project:</th> <th style="width: 50%; text-align: center;">Work for which Firm was Responsible:</th> </tr> <tr> <td style="text-align: center; height: 40px;">N/A</td> <td style="text-align: center;">Survey Cost: \$11,000</td> </tr> </table>	Entire Project:	Work for which Firm was Responsible:	N/A	Survey Cost: \$11,000
Entire Project:	Work for which Firm was Responsible:				
N/A	Survey Cost: \$11,000				
September 2018					

TEC Professional Services Questionnaire

PROJECT NO. 10								
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:							
<p>Breakwater Drive Improvements <i>New Orleans, Louisiana</i></p> <p>City of New Orleans 1300 Perdido Street New Orleans, LA 70112 (504) 658-8000</p> <div style="text-align: center; margin-top: 20px;">  </div>	<p>All South conducted a topographic survey that included cross sections of the existing rock jetty and extending inward to the far edge of Breakwater Drive, location of existing utilities and improvements. Standard hydrographic soundings were obtained within Lake Pontchartrain bordering Breakwater Drive and extending into the harbor. Side scan sonar imaging was also performed on the Lake side to assist in the location of submerged dolphins, pilings, existing boat ramps, the extent of the rock jetties and any other encumbrance that couldn't otherwise be located with standard soundings. A georeferenced 3D image was also generated for easy readability of said submerged objects. It was also used to determine the condition of the boat ramps and concrete break-wall</p> <div style="text-align: center; margin-top: 20px;">  </div>							
<p>Completion Date (Actual or estimated):</p>	<p style="text-align: center;">Estimated Cost:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%; padding: 5px;">Entire Project:</th> <th style="width: 50%; padding: 5px;">Work for which Firm was Responsible:</th> </tr> <tr> <td style="text-align: center; padding: 5px;">September 2020</td> <td style="text-align: center; padding: 5px;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center; padding: 5px;">\$5,924,000</td> <td style="width: 50%; text-align: center; padding: 5px;">Survey Cost: \$649,000</td> </tr> </table> </td> </tr> </table>		Entire Project:	Work for which Firm was Responsible:	September 2020	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center; padding: 5px;">\$5,924,000</td> <td style="width: 50%; text-align: center; padding: 5px;">Survey Cost: \$649,000</td> </tr> </table>	\$5,924,000	Survey Cost: \$649,000
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\$5,924,000	Survey Cost: \$649,000							

TEC Professional Services Questionnaire

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

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1. IMC Construction	Jefferson Parish	Jefferson Parish filed 3 rd party demand to All South Consulting Engineers, LLC. Status is pending
2.		
3.		
4.		

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



All South Consulting Engineers, LLC is a Limited Liability Company owned by Timothy Bonura, Jens J. Nielsen Jr., and Stephen Smith. Established in May 2004, All South is a multi-disciplinary firm that provides Civil and Structural Engineering, Land and Hydrographic Surveying, Program and Grant Management, Construction Administration and Inspection, and Disaster Management to federal, state, and municipal agencies, as well as private clients throughout the Gulf Coast.

» PROFESSIONAL TRAINING AND EXPERIENCE «

All South Consulting Engineers, LLC is a Louisiana Licensed multi-disciplinary firm that provides Civil and Structural Engineering, , Land and Hydrographic Surveying, Construction Administration, and Resident Inspection Services. (LA Engineering License No. EF.0003140; LA Survey License No. VF.0000730)

All South offers outstanding surveying services from leading professionals, including our Professional Land Surveyor. As Vice President and Survey Division Manager, Mr. John S. Teegarden, PLS has extensive experience in all aspects of land surveying which he has acquired over his 30-year career.

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

Name:		Public Address:		
All South Consulting Engineers, LLC		652 Papworth Avenue Metairie, Louisiana 70005		
License/Certificate Information w/ Supervision				
License	Status	First Issuance Date	Expiration Date	Supervisor(s)
VF.0000730	Active	12/02/2014	03/31/2023	Mr. John S. Teegarden # PLS.0004635 - Active

TEC Professional Services Questionnaire

The resumes included in Section K of the SOQ provide a clear illustration of the qualifications, experience, and expertise of our proposed staff. Our team of Professional Land Surveyors, Land Survey Interns, Survey Party Chief, and Survey Technicians Inspectors obtain professional qualifications that allow for satisfactory work, which cumulatively include:

- ✓ ATSSA Traffic Control Supervisor
- ✓ ATSSA Traffic Control Technician
- ✓ ATSSA Traffic Control Flagger
- ✓ OSHA Heat Illness Prevention for Workers in General Industry
- ✓ Transportation Worker Identification Credential

SURVEYING CAPABILITIES

All South's Surveying Division has a client list that includes the following parishes, municipal and state organizations: Jefferson Parish, Plaquemines Parish, St. Bernard Parish, Orleans Parish, St. Tammany Parish, Lafourche Parish, Terrebonne Parish, East Baton Rouge Parish, Livingston Parish, Ascension Parish, Coastal Protection and Restoration Authority, City of Gretna and City of Slidell. Projects range from topographic surveys for design of new facilities and infrastructure to bathymetric surveys for coastal restoration and drainage maintenance. All South Firm capabilities and services include but are not limited to the following:

✓ Boundary/ALTA-NSPS Survey	✓ Elevation Survey	✓ Hydrographic Survey
✓ Construction Survey	✓ Expert Witness	✓ Pipeline Survey
✓ Control Survey	✓ GIS Data Acquisition	✓ Topographic Survey
✓ Data Processing	✓ HDS Laser Scanning	✓ Right of Way

All South possesses the staff and capability to offer licensed surveying services, including land and hydrographic survey services. Our land survey crews have completed multiple coastal and flood protection relation projects through the pre-site survey, setting project control points, dredging and borrow quantity measurement, and as-built surveys.

All South is also a leading provider of hydrographic surveying services. We are experienced with single-beam, multi-beam, and side-scan sonar surveys and efficiently process hydrographic data with HYPACK software. Our 26' survey vessel is outfitted with a dual-frequency echosounder to take on large hydro projects. The 6' Z-Boat remote survey boat allows us to access sites where a manned boat can't be used.



EQUIPMENT & SOFTWARE:

- GPS (Global Positioning System)
- Leica GS-14 GPS Receivers
- AutoCAD Stations Civil 3D, Microstation, InRoads, CadConform
- 26' Scully Aluminum Boat with Dual 150 HP motors
- 14' Aluminum Flat Boat
- 6' Z-boat, remotely operated hydrographic survey boat
- Odom Hydrographic CV100 dual frequency Echosounde
- Trittech Starfish 990F side scan sonar
- Getac X500 Laptop with Hypack Hydrographic Software
- G-882 Magnetometer
- Four wheel off road vehicles / marsh buggies
- Hypack – Hydrographic software
- LEICA Geo – GPS Software

TEC Professional Services Questionnaire

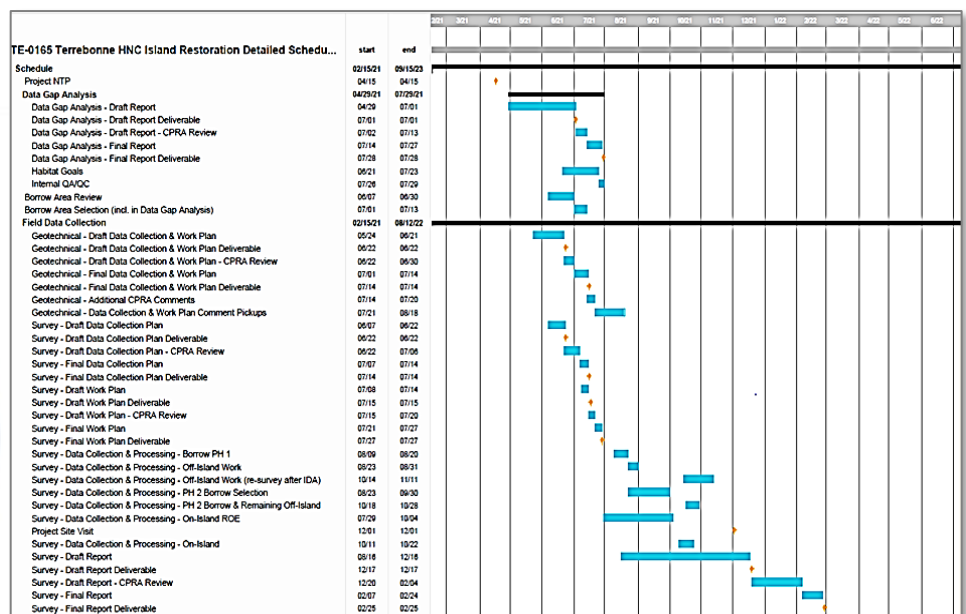
» SIZE OF FIRM «

The All South staff includes 76 professionals driven to excellence and focused on our clients' needs. We are made up of 14 Louisiana Licensed Professional Engineers, 8 Engineering Interns, **2 Professional Land Surveyors, 2 Survey Party Chiefs, and 3 Survey Technicians.** Our staff also includes program managers, CADD technicians/draftsmen, grant specialist, field monitors and administrative support staff, all of which provide years of experience to help ensure that our work is exceptional.

» CAPACITY FOR TIMELY COMPLETION «

With over 70 employees and ample resources, All South has more than enough capacity to meet any deadlines that the Parish requests. Our team is committed to and capable of meeting all schedules and deadlines that the Parish requests to ensure timely completion of all projects.

Additionally, we will utilize Team Gantt software for this project as a means of communication and accountability between consultants and Parish personnel. Team Gantt is an excellent project management tool designed to help create, manage, and finish projects on time and on budget. This software allows us to change start and end dates, reorder tasks, and adjust timelines seamlessly. It allows us to see every project update and document on a single page and quickly share them with both internal and external stakeholders. Team Gantt allows us to effectively manage resources, stay on budget, and ensure everyone is working but not overloaded. We can compare the original timeline projection with the actual timeline of the project with a baseline report. Parish personnel will be issued access to Team Gantt, so they can remain updated on the progress of the project at their own convenience.



All South takes pride in the quality control taken to ensure our survey and management practices account for accuracy, schedule, and costs for every project. If selected, All South will implement our quality control and assurance principles to Jefferson Parish projects through our qualified staff, innovative scheduling and surveying software, and innovative practices to control cost.

» PRIOR SUCCESSFUL COMPLETION «

Please refer to the project descriptions listed above to see All South's prior successful completion of similar projects, as well as their respective verifiable references.

All South has maintained a strong and successful working relationship with Jefferson Parish since 2004 and has continuously received positive feedback from Parish officials and personnel. We have completed several successful surveying projects for Jefferson Parish and look forward to continuing this great relationship.

TEC Professional Services Questionnaire

» PAST PERFORMANCE «

Over the past 20 years, All South has developed an outstanding reputation as one of the Gulf South's leading Engineering and Surveying firms. Aside from our technical experience, which is displayed throughout this proposal, All South stands out amongst competitors because of our unrivaled devotion to our clients and ability to meet their needs.

Our past performance within Jefferson Parish has given us a keen and nuanced understanding of the inner working of the various Parish departments, as well as the likings and needs of the Parish as a whole.

Our background has bred a sense of commitment, comradery, and the willingness to fight for our clients through every phase of a project. The satisfaction expressed by our clients can be directly accredited to not only our ability to deliver exceptional work that meets all contractual, time, and budgetary obligations, but also the genuine and lasting relationships we build throughout the process. As a direct result, our clients continue to choose All South. We believe this trend speaks very highly to our staff, our commitment, and our results. The staff members included in this proposal will employ these same levels of client devotion and satisfaction to Jefferson Parish.

» LOCATION OF THE PRINCIPAL OFFICE «

All South's home office is located at 652 Papworth Avenue, Metairie, Louisiana 70005.

» ADVERSARIAL LEGAL PROCEEDINGS «

Please refer to section M of this TEC Questionnaire.

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

Signature: John S. Teegarden

Print Name: John S. Teegarden, P.L.S.

Title: Vice President/ Survey Division Manager

Date: August 23, 2024