

# **Jefferson Parish Professional Services Questionnaire**

**Resolution #145576**

**SOQ 25-005**

## **Sala Avenue Historic District Drainage Feasibility Analysis and Improvements Project**

**February 7, 2025**





February 7, 2025

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

Subject: Professional Engineering Services for the Sala Avenue Historic District  
Drainage Feasibility Analysis and Improvements Project

Dear Jefferson Parish Purchasing Department,

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

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

Our team, "Team MSMM," offers a cadre of professionals with extensive experience providing drainage infrastructure services for Jefferson Parish. MSMM alone has completed over 25 projects for Jefferson Parish, meaning that we are thoroughly familiar with the unique needs of the Parish. Among these 25+ projects are multiple drainage pump stations, including the recent Woodlake Pump Station and Clearview Pump Station. Our long-lasting relationship with Jefferson Parish is the result of our dedication to delivering past and future projects safely, on time, within budget, and at the highest level of quality. Each of our team members stands prepared to continue this support of Jefferson Parish throughout the life cycle of the Sala Avenue Historic District Drainage Feasibility Analysis and Improvements Project.

Sincerely,

A handwritten signature in blue ink, appearing to read "Manish Mardia", is positioned above the printed name.

Manish Mardia, P.E.  
President  
MSMM Engineering, LLC

## TEC Professional Services Questionnaire

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

Professional Engineering Services for the Sala  
Avenue Historic District Drainage Feasibility Analysis and Improvements  
Project  
SOQ 25-005; Resolution # 145576

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

  
4508 Clearview Parkway, Suite C  
Metairie, Louisiana 70006

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

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

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

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

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

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

**F. Is this submittal by a JOINT-VENTURE? Please check:**

YES ☐      NO ☒

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

### TEC Professional Services Questionnaire

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

**1. Not Applicable**

**2.**

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

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

<b>Name &amp; Address:</b>	<b>Specialty</b>	<b>Worked with Firm Before (Yes or No):</b>
<b>1. Mott MacDonald, LLC</b>  <b>650 Poydras Street, Suite 2550</b> <b>New Orleans, Louisiana 70130</b>	Green Infrastructure, Drainage Analysis, Landscape Architecture, Rail Coordination, and Utility Design	Yes
<b>2. Gulf South Engineering and Testing, Inc.</b>  <b>15 Veterans Memorial Boulevard</b> <b>Kenner LA 70062</b>	Geotechnical Engineering	Yes
<b>3. BFM Corporation, LLC</b>  <b>15 Veterans Memorial Boulevard</b> <b>Kenner LA 70062</b>	Surveying	Yes

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

\_\_\_\_\_ 25 \_\_\_\_\_



**TEC Professional Services Questionnaire**

<b>PROFESSIONAL IN CHARGE OF PROJECT:</b>
<b>Name &amp; Title:</b>
<b>Mark Wingate, P.E.</b> Executive Vice President
<b>Project Assignment:</b>
Program Manager
<b>Name of Firm with which associated:</b>
<b>MSMM</b> ENGINEERING, LLC
<b>Years' experience with this Firm:</b>
1 (2024)
<b>Education: Degree(s)/Year/Specialization:</b>
BS in Civil Engineering, 1989, University of New Orleans
<b>Active registration: Year first registered/discipline:</b>
Year First Registered: 2001 Discipline: <u>Civil</u> State: <u>Louisiana</u> License No.: <u>29419</u>
<b>Other experiences and qualifications relevant to the proposed Project:</b>
<p>Mark R. Wingate, P.E., serves as the Executive Vice President at MSMM Engineering, LLC. Mr. Wingate brings over three decades of USACE civil works experience to MSMM, comprising an impressive history in executive-level management experience for delivering flood risk management, hurricane and storm damage risk reduction, navigation, and environmental and coastal restoration/sustainability projects. He served for nearly 31-years with USACE, New Orleans District, which culminated with serving as the Lead Civilian (Deputy District Engineer for Programs and Project Management (DPM)) for nearly 9-years at the New Orleans District. Along the way, he also served in an acting capacity as the MS Valley Division Regional Business Director (SES position), Deputy Advisor on Infrastructure to the Executive Office of the President (EOP), and Chief of the Projects and Restoration Branch in the New Orleans District. Mr. Wingate received the inaugural R. King Milling Distinguished Coastal Service Award from the State of LA in December 2023.</p> <p><b><u>USACE – Delivery of the 14.6B Hurricane and Storm Risk Reduction System (HSDRRS)</u></b> As DPM for USACE, New Orleans (MVN), Mr. Wingate was responsible for the completion and the delivery of the ~\$14.6B Greater New Orleans Hurricane and Storm Damage Risk Reduction System (HSDRRS), a 130-mile-long perimeter system of levees, flood walls, pump stations, navigation gates, and other structures as well as environmental mitigation to reduce flood risk to SE LA. Coordinated closely with the State of LA, CODEL, landowners, levee districts, NGOs, and other key stakeholders to deliver this USACE-World Class System. Coordinated with MVD and Higher Authority on project issues and associated resolutions.</p> <p>Role: DPM/Program Manager</p>

<b>PROFESSIONAL IN CHARGE OF PROJECT:</b>
<b>Name &amp; Title:</b>
<b>Mark Wingate, P.E.</b> Executive Vice President
<b><u>USACE – New Orleans Branch Chief – Project Management</u></b> During his time at USACE, Mr. Wingate was responsible for delivering USACE Civil Works projects in the areas of Flood Risk Management, Ecosystem Restoration, and Navigation. Areas of responsibility included project delivery under RESTORE Act and Lower MS River Diversions, LA Coastal Area (LCA) Ecosystem Restoration, Mississippi River and Tributaries (MR&T), Continuing Authorities Program (CAP), Flood Plain Management Services (FPMS) and Planning Assistance to States (PAS). Coordinated closely with USACE HQ and Division, State and Federal Agencies, NGOs, Parishes, Municipalities, Tribal Nations, and project Stakeholders throughout Southern LA.  Role: Program Manager/Branch Chief  <b><u>USACE - West Shore Lake Pontchartrain (WSLP) – FRM Construction Project</u></b> As MVN DPM, Mr. Mingate oversaw and ensured the advancement of the USACE-WSLP project for St. Charles and St. John Parishes to deliver an 18-mile risk reduction system including earthen levees, T-walls, pump stations and control structures iaw with the feasibility and Chief’s report. Also drove advancement of small-scale non-structural solutions including various alignments of ring levees with pumps, access points, etc. for St. James Parish. Successfully secured unplanned funds and initiated a USACE General Reevaluation Report (GRR) to consider resiliency features.  Role: DPM/Program Manager

### TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Manish Mardia, P.E.</b> President
<b>Project Assignment:</b>
Quality Control Manager
<b>Name of Firm with which associated:</b>
<b>MSMM</b> ENGINEERING, LLC
<b>Years' experience with this Firm:</b>
13 (2011)
<b>Education: Degree(s)/Year/Specialization:</b>
M.S. in Civil Engineering, 1994, Louisiana State University B.S. in Civil Engineering, 1990, University of Jodhpur
<b>Active registration: Year first registered/discipline:</b>
Year First Registered: 1999 Discipline: <u>Environmental</u> State: <u>Louisiana</u> License No.: <u>28482</u> <i>Also registered in Mississippi (18522)</i>
<b>Other experiences and qualifications relevant to the proposed Project:</b>
<p>Manish Mardia is a registered professional civil and environmental engineer and is the President of MSMM Engineering, LLC. He is an experienced engineering manager and principal with over thirty years of experience in managing and designing public works projects. His experience includes environmental assessments, NEPA documentation, planning, design, and construction management for water, wastewater, and solid waste systems for industry and government, design, construction and management of industrial and municipal wastewater treatment facilities, landfill gas collection and control systems, study and management of infiltration and inflow of stormwater into public wastewater collection systems.</p> <p>Mr. Mardia has worked <i>on more than 100 projects for various departments of Jefferson Parish</i>. These projects were successfully completed on time and schedule. Project types include water line replacement design, Environmental Permitting; Hydraulic Modeling; Infiltration and Inflow; Water Treatment and Collection; Wastewater Collection, Distribution, and Treatment; Street and Roadways design; and Landfill Design and Permitting.</p> <p>For a representation of projects completed by Mr. Mardia, please see below:</p> <p><b><u>Jefferson Parish, East Bank Drainage Master Plan</u></b></p> <p>MSMM is performing electrical and instrumentation services for this Jefferson Parish East Bank Drainage Master Plan. The scope of work for these services includes updating existing conditions and analysis of high water conditions. MSMM is furnishing drawings, specifications, and schedules for the project.</p>

**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:****Name & Title:****Manish Mardia, P.E.**

President

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

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

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

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

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

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

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

### TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Jim Wilson, P.E., LEED® AP</b> Vice-President
<b>Project Assignment:</b>
Civil Engineer/Engineering Manager
<b>Name of Firm with which associated:</b>
<b>MSMM</b> ENGINEERING, LLC
<b>Years' experience with this Firm:</b>
11 (2014)
<b>Education: Degree(s)/Year/Specialization:</b>
B.S. in Civil Engineering, 1988, Michigan Technological University
<b>Active registration: Year first registered/discipline:</b>
Year First Registered: 1993 Discipline: <u>Civil</u> State: <u>Louisiana</u> License No.: <u>35456</u> <i>Also registered in Michigan (38800), Texas (128376), and Florida (85114)</i>
<b>Other experiences and qualifications relevant to the proposed Project:</b>
<p>Mr. Wilson is a senior civil/drainage engineer with over 25 years of experience in the public sector, successfully designing and managing drainage, sewerage, roadway, waterlines, and site development projects in multiple jurisdictions of Louisiana and Michigan. Mr. Wilson is the civil engineering manager at MSMM, where he is responsible for the direct design and oversight of civil design, including water line design and water meter replacement design across South Louisiana.</p> <p><b><u>Statewide Flood Control Program Grant Drainage Improvements Kenner, LA</u></b></p> <p>LDOTD's Statewide Flood Control Program grant funding was utilized to undertake stormwater drainage system improvements to two neighborhoods (University City and Audubon Place Subdivisions) in the city. The estimated project cost was \$4.57 million, with a grant amount of \$2.7 million. The project was conducted from beginning to conclusion, which included preparing the grant pre-application package, coordinating with the City and LDOTD staff, conducting hydraulic and hydrologic analyses (HYDRWIN and SWMM), communicating with LDOTD experts on the project's feasibility and technical merit, conducting multiple site visits with LDOTD experts and project staff to clarify project features and existing drainage infrastructure, and facilitating continuous communication with the City's elected representatives about the status of grant process. In the course of this project, an excellent working relationship was forged with LDOTD's SWFCP staff and experts. Significant coordination was required with LDOTD staff due to the unique drainage conditions in the New Orleans area and due to the SWMM models of the city's previous drainage master plan work required to be re-analyzed with LDOTD's HYDRWIN software. The project involved (i) the installation of new subsurface drainage pipes and inlets along three city streets and (ii) the upgrading of existing drainage features with larger subsurface pipes, inlets, and outfall pipes along three other city streets. The subsurface pipes ranged in size from small 18-inch diameter circular pipes to large 54"x88" arch pipes. Adjustment of sanitary sewer house connections, and numerous pavement restoration tasks were included in this project as well. This project</p>



<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Jim Wilson, P.E., LEED® AP</b> Vice-President
required continuous coordination with the DPW staff during this project. Most of the drainage improvements under this project were derived from the previously completed Master Drainage Plan, while the new improvements were compared with the Master Drainage Plan as well to ensure that no conflicts arose.
<b><u>New Orleans International Airport (MSY) Drainage Pump Station, Kenner, LA</u></b> MSMM completed design and EDC services for a 600 cfs stormwater drainage pump station and for all landside drainage as part of constructing a new airport terminal. The project involved working under an extremely compressed schedule while successfully delivering a truly multi-disciplinary effort spanning civil, structural, electrical, mechanical, and environmental engineering, hydraulic modeling, architectural services, cost estimating, environmental permitting, drafting, and agency coordination.
Role: Mr. Wilson was the lead civil engineer and designer of record for the project. He designed all the civil site work, provided engineering support during the advertisement (EDA) and construction (EDC), and provided periodic inspection reports of the construction progress.
<b><u>Aubry Street CDBG 10-Year Storm Drainage Improvement Roadway Construction, New Orleans, LA.</u></b> For this full reconstruction project, MSMM performed civil design engineering services for the roadway, sidewalks, driveway aprons, and sewer. MSMM was also tasked with developing the H&H model (using HYDRWIN) to calculate drainage characteristics within the project area. This information was compared with the capacity of existing drainage infrastructure to develop recommendations for upgrades to the drainage in the neighborhood. MSMM also performed utility research to identify conflicts and found that a 50-inch water line crossed the project area with below-average cover (3 ft.). The waterline relocation was approved for the project scope and approved in a new location through a mapping and drafting effort. MSMM completed the plans and specifications, provided bidding phase services and construction management services, and performed the Resident Inspection for the project.
Role: Mr. Wilson was the designer of record for the project.
<b><u>River Road Aquatic Ecosystem Restoration, San Antonio, TX</u></b> MSMM was contracted by USACE/San Antonio River Authority to provide 100% Design-Bid-Build for this large-scale project, which focuses on recreational usability and ecosystem restoration. MSMM's responsibilities include H&H analysis, stream restoration, landscape architecture, civil and structural design, cost estimating, and value engineering.
Role: Mr. Wilson is the project manager on this project.

**TEC Professional Services Questionnaire**

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>	
<b>Name &amp; Title:</b>	<b>Scott Chehardy, P.E.</b>
<b>Project Assignment:</b>	Civil Engineer
<b>Name of Firm with which associated:</b>	<b>MSMM ENGINEERING, LLC</b>
<b>Years' experience with this Firm:</b>	10 (2015)
<b>Education: Degree(s)/Year/Specialization:</b>	B.S. in Civil Engineering, 1994, University of Southwestern LA
<b>Active registration: Year first registered/discipline:</b>	Year First Registered: 1998 Discipline: <u>Civil</u> State: <u>Louisiana</u> License No.: <u>28532</u> <i>Also registered in Indiana (11700829)</i>
<b>Other experiences and qualifications relevant to the proposed Project:</b>	
<p>Mr. Chehardy has nearly three decades of civil design and hydraulic evaluation experience in Louisiana's coastal Parishes. He has successfully designed levees and floodwalls, pump stations and force mains, and canals and box culverts. His design and assessment experience spans levee and floodwall, roadway, water, sewer and drainage infrastructure elements. He has been an integral part of the study and design of the new 600 cfs drainage pump station in New Orleans International Airport, drainage study of Canal No. 17, Canal No. 7, and Parish Line Pump Station in Jefferson Parish, East Bank Subsurface Drainage Improvement Program in Jefferson Parish, Sewerage &amp; Water Board of New Orleans' SELA Urban Flood Control Projects (Claiborne Avenue Manifold Canal and South Claiborne Avenue Canal II), Hurricane Katrina Related Water Restoration Projects for S&amp;WBNO, etc. Mr. Chehardy's levee design work included West Bank &amp; Vicinity, Lake Cataouatche Pumping Station to Segnette State Park, Phase 2, First Lift. of a 20,250 linear foot segment of the hurricane protection system (\$41.3 M), West Bank &amp; Vicinity, Algiers Canal Levee West, Algiers Lock to Hwy. 23, Orleans &amp; Plaquemines Parish (EAR \$230M to \$425M), and West Bank &amp; Vicinity, Phase 2 Hurricane Protection, Algiers Canal (East), Hero Levee to Highway 23, WBV-49.2, Plaquemines Parish, LA (EAR \$474M to \$558M). Mr. Chehardy's responsibilities have included project management, design, permitting, and quality control.</p> <p><b><u>Cow Bayou Drainage Pump Station Complex, Orange, TX</u></b></p> <p>The preliminary design phase was a joint engineering effort between USACE New Orleans District, Galveston District, and MSMM. MSMM's design responsibilities included structural design, architectural design, civil site work, geotechnical evaluation and design, cost estimating, CAD drafting, and project management. MSMM was an integrated design team with New Orleans District, who provided mechanical and electrical design, while MSMM coordinated this mechanical and electrical design with the civil, structural, and geotechnical</p>	

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Scott Chehardy, P.E.</b>
engineering design.  Project features being designed by MSMM include dolphin structures, a pump station safe house, a fuel farm, and access roads. MSMM designed the project in MicroStation 3D and Civil 3D, also utilizing Revit BIM 3D modeling and CIM modeling for the facilities. MSMM engineers also designed permanent project structures associated with the pump station, including the horizontal and vertical pump intake and discharge structures, engine and pump support slabs, fuel tank foundation/containment, water tank foundation, west access bridge, and exterior semi-gantry and overhead bridge crane supports. The pump station and two-story safe house were designed utilizing STAAD software. MSMM's civil engineers provided the wastewater treatment facility design, layout of the entry roadways and parking lots, and the site grading and utility layout in compliance with UFC-201-01. Project Management included preparing a detailed communication plan which outlined procedures for coordination of activities and addressed scheduling, communication distribution structure, information collection and filing procedures, and a flow chart of personnel and project progression.  Role: Mr. Chehardy managed the Civil, Structural, and Architectural aspects of the project, while USACE led the Electrical and Mechanical aspects. He developed the civil/site work design, developed the utility documentation, prepared the detailed plans and specifications, and coordinated the development of the DDR.  <b><u>Kennedy Heights Sewer Pumpstation Improvements, Jefferson Parish, LA</u></b> MSMM is assisting Jefferson Parish in developing pump station improvements to the Kennedy Heights station on the West Bank. MSMM is evaluating the current state of the station, reviewing the as-built documentation and determining the best/most cost-efficient method to rehabilitate the station. Mr. Chehardy is leading the MSMM design efforts and is currently working on finalizing the preliminary design documentation.  <b>Role:</b> Civil Design, Engineer of Record  <b><u>City of Baton Rouge/Parish of East Baton Rouge System Analysis, Current Condition Evaluation and Rehabilitation Recommendation for Non-SSO Program Sewer Pump Stations, Baton Rouge, LA</u></b> The City of Baton Rouge/Parish of East Baton Rouge (C-P) has undertaken a comprehensive rehabilitation program for the portions of its sanitary sewer infrastructure that are plagued with chronic Sewer Sanitary Overflow (SSO) problems. In addition, the C-P was also suffering from severe reduction in functionality and associated increase in Operation & Maintenance costs in several sewer pump stations.  MSMM performed the evaluation, construction recommendation, design and construction administration on 15 pump stations that fall within the SSO program. MSMM evaluated pump curves, spreadsheets of pump station characteristics, pump station data from survey and GIS. We compared this data with previously available data on subject pump stations, identified conflicting data, and worked toward a common consensus with the project sponsors about the main issues for each pump station. MSMM submitted design packages for each of the identified pump stations.  <b><u>Role:</u></b> Engineer of Record, Engineering Manager

**TEC Professional Services Questionnaire**

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>	
<b>Name &amp; Title:</b>	<b>Chris Mills, PE</b> Civil Engineer and H&H Engineer
<b>Project Assignment:</b>	Civil Engineer and H&H Engineer; Hydraulic Analysis
<b>Name of Firm with which associated:</b>	<b>MSMM</b> ENGINEERING, LLC
<b>Years' experience with this Firm:</b>	5 (2019)
<b>Education: Degree(s)/Year/Specialization:</b>	BS in Civil Engineering, 2019, Louisiana State University
<b>Active registration: Year first registered/discipline:</b>	Year First Registered: 2023 Discipline: <u>Civil (PE)</u> State: <u>Louisiana</u> License No.: 47987
<b>Other experiences and qualifications relevant to the proposed Project:</b>	
<p>Mr. Mills has worked with MSMM for 5 years, emerging as a crucial component of our firm's municipal design projects. Mr. Mills is a talented professional engineer with experience designing over 20 municipal projects in Southeast Louisiana. His experience includes hydraulic modeling, general civil schematic design, engineering studies, marine infrastructure design, drainage channel revitalization, and pump station design. His referenced general civil design experience includes calculations and schematic design for drainage, water, sewer, and roadway infrastructure. He also served in a construction administration role for various design projects, meticulously managing construction to ensure that all work performed adhered to the design plans, specifications, and local ordinances. His proactive, collaborative, and accessible approach guarantees that each project meets the highest standards of quality and compliance, reflecting his commitment to excellence in every aspect of his work.</p> <p><b><u>East Bank Master Drainage Plan Development – Jefferson Parish, LA</u></b></p> <p>MSMM was contracted by Jefferson Parish to update the 2015 version of the East Bank Master Drainage Plan. MSMM's scope included the input of all major drainage projects (approximately 11 projects) throughout the Parish since 2015 into the SWMM model. Additionally, MSMM was tasked with analyzing the results of the 10-Year storm event for "high water conditions" in the conduits throughout Jefferson Parish. The WSE of the conduit was compared to the surrounding ground elevations to determine overburdened conduits. cursory explanations for the high-water events were then prepared to develop a priority scale for future work</p> <p>Role: Mr. Mills was lead engineer for the project, providing his professional analysis, reason, and judgement in a report provided to Jefferson Parish</p>	



**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:****Name & Title:****Chris Mills, PE**

Civil Engineer and H&amp;H Engineer

**Bucktown Marina Transient Boat Dock Design, Metairie, LA**

Mr. Mills served as Project Manager and Engineer of Record for the Bucktown Marina Boat Dock design project. The project involved the creation of a transient boat dock and service area. This area features an L-shaped, transient, and flexible dock, specifically designed for accommodating the commercial fishing fleet. He utilized Permatrac technology for composite concrete decking, ensuring a highly durable surface. The transient dock is comprised of a composite wood non-slip surface, prioritizing safety. His work encompassed the installation of piles, dredging operations, construction of a parking lot and walkway, as well as obtaining the necessary permits. This included securing a permits from DNR, CPRA, USACE, and the Levee Board.

Role: Mr. Mills served as Project Manager and Engineer of Record.

**Sankofa Silver Jackets- New Orleans, LA**

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

Role: Mr. Mills is the Project Management for Phase II of the modeling effort. Mr. Mills is responsible for the modeling, analysis, and final considerations for the project.

**Lincoln Manor Subdivision Drainage Improvements, Kenner, LA**

MSMM Engineering was tasked by the City of Kenner to provide professional services for the Lincoln Manor Subdivision Drainage Improvements Project. This project encompasses engineering design, bidding, resident inspection, and construction administration. The primary focus of the project is to enhance the drainage infrastructure along Tifton Street, Ohio Avenue, Dawson Street, and Utah Street, specifically targeting the drainage outfalls leading to Canal No. 13. The scope includes upsizing the drain lines, installing new drainage structures, and removal and replacement of roadways, driveways, and sidewalks as necessary to accommodate the new drainage improvements.

Role: Mr. Mills provided design and construction administration services including engineering project plans, producing project specifications and estimating project cost.

**Aubry Street CDBG 10-Year Storm Drainage Improvements and Roadway Construction, New Orleans, LA**

MSMM completed design of drainage and concrete full depth reconstruction of Aubry St. in the Gentilly neighborhood. The (4) block project included drainage improvements for a 10-year storm, the use of permeable pavement for sidewalks and new utilities for the entire reach. MSMM also performed construction management and resident inspection.

Role: Mr. Mills was responsible for utilities, drainage, and green infrastructure design.



**TEC Professional Services Questionnaire**

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>	
<b>Name &amp; Title:</b>	
<b>Stuart Seiler, PE, PMP</b> Civil Engineer and Project Manager	
<b>Project Assignment:</b>	
Civil Engineer and Project Manager	
<b>Name of Firm with which associated:</b>	
<b>MSMM</b> ENGINEERING, LLC	
<b>Years' experience with this Firm:</b>	
1 (2024)	
<b>Education: Degree(s)/Year/Specialization:</b>	
BS in Civil Engineering, 2016, Louisiana State University	
<b>Active registration: Year first registered/discipline:</b>	
Year First Registered: 2020 Professional Engineer- Discipline: <u>Civil</u> State: <u>Louisiana</u> License No.: 45472 Project Management Professional (PMP)- 2024- License No.: 3839836	
<b>Other experiences and qualifications relevant to the proposed Project:</b>	
<p>Mr. Seiler is a licensed Professional Civil Engineer (PE) and Project Management Professional (PMP) with extensive experience spanning both public and private sectors. His career encompasses civil design, program management, project management, and construction management. In the private industry, Mr. Seiler has designed design civil projects including roadways, water systems, sewer systems, civil facilities, and utility conflict resolution across multiple Parishes and municipalities in Louisiana. On the public sector front, he has managed the design and construction of over 1,250 blocks amounting to \$150 million for the Department of Public Works. This hands-on experience has deepened his understanding of program implementation, procurement, and public bid law. Notably, Mr. Seiler has represented the New Orleans Department of Public Works in Louisiana's legislative sessions, advocating for municipalities' interests on proposed amendments to Statute RS38:2212 M(5).</p> <p><b><u>Department of Public Works Catch Basin Cleanout Citywide project, New Orleans, LA</u></b></p> <p>After Hurricane IDA, the City of New Orleans received funding for a catch basin cleanout program as part of relief efforts. This program mandated the cleaning of every catch basin in the city along with over 500 drain lines within a constrained timeframe. Recognizing the urgency and complexity of the program, the Department of Public Works (DPW) determined that a structured approach was necessary. Consequently, DPW developed a comprehensive bidding package that outlined the scope of work, deliverables, deadlines, and segmented the catch basins into manageable task orders. Mr. Seiler was entrusted as Program Manager with the responsibility of conceptualizing, implementing, and overseeing the execution of this critical program.</p> <p>Role: Mr. Seiler was the Program Manager for Department of Public Works, New Orleans</p>	

**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:****Name & Title:**

**Stuart Seiler, PE, PMP**  
Civil Engineer and Project Manager

**Westside Creeks Restoration Project, San Antonio, TX**

MSMM was contracted by USACE's Fort Worth District for the ecosystem restoration and recreation for Martinez Creek, a tributary along the western side of San Antonio River mainstream. The purpose of the project is to restore the Riverine Ecosystem, adding pedestrian facilities, and maintain the channel's flood storage and hydraulic operation. Due to the added features, existing and projected drainage modeling are a vital component of the project. After every design consideration, a new drainage model is required to measure how the component effected the hydraulic operation of the channel, thus making this project an iteration design. Additionally, Martinez creek has 17 locations identified for required outfall structures designed to flow under the proposed pedestrian shared use path.

Role: Mr. Seiler was responsible for designing each unique concrete outfall structures.

**USACE Silver Jackets, Stormwater Watershed Management Study, New Orleans, LA**

MSMM was contracted by USACE's New Orleans District, to assess flood conditions in New Orleans East. The purpose of this project was to assess how flood stages will be affected by projected changes in future rain and sea-level conditions and recommend strategies for mitigating increased flood loss damages. MSMM performed the hydraulic modeling utilizing the EPA SWMM model to determine the existing and future conditions on over 50 percent of the Parish inside the levees for the 10-year, 25-year, and 100-year storm events.

Role: Mr. Seiler performed the hydraulic modeling performed on the project.

**Little Woods (RR100) Neighborhood FEMA Recovery Roads Repair, New Orleans, LA**

At the Department of Public Works, Mr. Seiler was the Project Manager for the +200 block RR100 Little Woods FEMA Recovery Program project, responsible for managing construction and representing the City's interest during the construction phase of the project. General design features included mill and overlay, complete roadway replacement, ADA-compliant ramps at intersections, traffic engineering for intersections, and design of new sub-surface utilities, including drainage, sewer, and water infrastructure. Mr. Seiler was also responsible for coordinating with Entergy, Cox, and AT&T to mitigate utility conflicts.

Role: Mr. Seiler was the Project Manager at Department of Public Works, New Orleans.

**Wastewater Treatment Collection System 5 MG Ground Storage Tank and Pump Station, Baton Rouge, LA**

As part of the USACE New Orleans District Environmental Infrastructure Program, MSMM provided the engineering design of two piles supported above-ground 5 million gallons (MG) prestressed concrete storage tanks, a 14,000gpm sewer pump station, and a CMU control building. The existing pump station will be connected to the new pump station with a 42" diameter pipe and overflow chamber with automatic slide gates to control when flows will be diverted. Additional design features include two large in-ground control valve junction boxes and concrete paved access roads around the tanks.

Role: Mr. Seiler's responsibilities include project management, pump station design, and sizing of gravity sewer piping and force mains.

**TEC Professional Services Questionnaire**

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>	
<b>Name &amp; Title:</b>	
<b>Barney Lighter, PLA</b> Landscape Architect	
<b>Project Assignment:</b>	
Landscape Architect	
<b>Name of Firm with which associated:</b>	
<b>MSMM</b> ENGINEERING, LLC	
<b>Years' experience with this Firm:</b>	
7 (2018)	
<b>Education: Degree(s)/Year/Specialization:</b>	
BLA, Landscape Architecture, LSU, 1991	
<b>Active registration: Year first registered/discipline:</b>	
N/A	
<b>Other experiences and qualifications relevant to the proposed Project:</b>	
<p>Barney Lighter is an experienced Landscape Architect and Design Principal; Mr. Lighter is responsible for developing creative initiatives and generating ideas that form the foundation of the firm's designs. He is involved throughout all phases of each project to ensure that the project's design vision remains strong and consistent at every level of detail and construction. His work has influenced our public parks, recreational facilities, golf courses, and some of New Orleans' and the greater region's streetscapes and memorials. Several projects with which Mr. Lighter was involved with at other firms won ASLA awards, including the Baytown Wetlands Mitigation Project in Baytown, Texas; Lakeshore East Park in downtown Chicago, Illinois; and a FedEx Technology Campus in Collierville, Tennessee</p> <p><b><u>East Baton Rouge Parish North Landfill Leachate Pond Abandonment, Pump Station, and Forcemain, Baton Rouge, LA</u></b> This project was developed to eliminate the lagoon treatment and discharge to a local stream. This would reduce negative environmental impact by pumping leachate landfill instead to a new forcemain that tied into the parish's sanitary sewer treatment facilities.</p> <p>Mr. Lighter's responsibilities included the design of a timber walkway extending from the pump station to the inlet structure in the leachate holding pond, planning and coordination for the fill and grading of the approximately 6-acre area to return to natural appearance, the preservation and restoration of existing building materials.</p> <p><b><u>Bayou Segnette State Park Improvements, Jefferson Parish, LA</u></b> MSMM was recently under contract with CPRA to perform all engineering services associated with developing ADA-compliant playground updates, improvements to the boat launch, and upcoming repairs to roads and parking areas. Improvements to the boat launch consist of pavement elevation for the roadway and parking lot, and in-water pavement work below the high tide line. MSMM was the Prime firm for this project and was tasked with providing 100% of the design</p>	

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Barney Lighter, PLA</b> Landscape Architect
and construction services for this project. Mr. Lighter provided the design of the playground and ensured compliance with ADA.
<u><b>Timber Creek Recreational Facility Design, Austin, TX</b></u> MSMM recently completed the design for the development of a new park in Austin, Texas. This Federal project designed through USACE involved the development site plan, detailed design of recreational features such as trails, picnic shelters, scenic overlooks, parking and roadway access and restroom facilities.
Mr. Lighter helped develop the recreational plan in a floodplain that is a reclamation of an old neighborhood. He was responsible for assisting in the site layout and ensuring the trail design met the strategic recreational plan for the area, aligning trail heads with the potential future expansion of the trail system. He also sighted and designed the scenic overlooks added to the park.



**TEC Professional Services Questionnaire**

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Marty Tittlebaum, Ph.D., P.E.</b> Project Engineer, QA/QC
<b>Project Assignment:</b>
Environmental Engineer
<b>Name of Firm with which associated:</b>
<b>MSMM</b> ENGINEERING, LLC
<b>Years' experience with this Firm:</b>
9 (2013)
<b>Education: Degree(s)/Year/Specialization:</b>
Ph.D. in Environmental Engineering, 1979, University of Louisville ME in Environmental Engineering, 1972, University of Louisville BE in Civil Engineering, 1971, University of Louisville
<b>Active registration: Year first registered/discipline:</b>
Year First Registered: 1980 Discipline: <u>Civil &amp; Environmental</u> State: <u>Louisiana</u> License No.: <u>18997</u> <i>Also registered in Kentucky (9563)</i>
<b>Other experiences and qualifications relevant to the proposed Project:</b>
<p>Marty E. Tittlebaum, the past Edward G. Schlieder Chair for Urban Waste Management and Research and Professor of Civil and Environmental Engineering, possesses expertise in the areas of hazardous and industrial waste remediation, environmental permitting and environmental engineering research and project management, water and wastewater treatment and reuse, resource recovery, and hazardous waste management. Dr. Tittlebaum has received over \$8 million in state, national and international research funding, written over 75 refereed technical journal articles and been an invited lecturer of over 100 papers. Dr. Tittlebaum has served on several technical advisory panels, including the U.S Corps of Engineers hazardous waste evaluation program.</p> <p>At MSMM, Mr. Tittlebaum serves as our Principal Quality Control Engineer, and he reviews all design products. He is also responsible for leading all of our environmental permitting activities and has an excellent working relationship with all of the permitting agencies.</p> <p><b><u>New Orleans International Airport (MSY) Drainage Pump Station, Kenner, LA</u></b> MSMM completed design and EDC services for a 600 cfs stormwater drainage pump station and for all landside drainage as part of constructing a new airport terminal. The project involved working under an extremely compressed schedule, while successfully delivering a true multi-disciplinary effort spanning various engineering disciplines, hydraulic modeling, architectural services, cost estimating, environmental permitting, drafting, and agency coordination.</p> <p>Role: Dr. Tittlebaum provided the quality control design for the project. He reviewed all design submittals for</p>



**KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:****Name & Title:****Marty Tittlebaum, Ph.D., P.E.**

Project Engineer, QA/QC

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

**Cow Bayou Drainage Pump Station Complex, Orange, TX**

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

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

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

**Sankofa Silver Jackets- New Orleans, LA**

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

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

**TEC Professional Services Questionnaire**

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>	
<b>Name &amp; Title:</b>	<b>George Grimes</b> Resident Inspector
<b>Project Assignment:</b>	Resident Inspector
<b>Name of Firm with which associated:</b>	<b>MSMM</b> ENGINEERING, LLC
<b>Years' experience with this Firm:</b>	4 (2021)
<b>Education: Degree(s)/Year/Specialization:</b>	Southeastern Louisiana University, B.A. Marketing 1988 - Hammond, LA
<b>Active registration: Year first registered/discipline:</b>	N/A
<b>Other experiences and qualifications relevant to the proposed Project:</b>	
<p>Mr. Grimes has a unique skill set having owned a construction company since 2010 that focuses on the construction in the greater New Orleans area, as well as providing construction inspection and construction administration duties for government infrastructure projects such as roadways, public utilities, coastal restoration, and vertical housing projects. Mr. Grimes serves as MSMM's lead inspector, inclusive of training new inspectors and managing the inspection team. Mr. Grimes regularly deals with managing construction progress, coordinating takeoffs and quantities for construction payment applications, and organizing, reviewing, applying for, and implementing construction permits.</p> <p><b><u>Hardrock Hotel Collapse Canal Street Improvement, New Orleans, LA</u></b></p> <p>Mr. Grimes provides Resident Inspection services for roadway reconstruction within the vicinity of the Hardrock Hotel Collapse site. The construction for the project has been expedited ahead of the 2025 Super Bowl in New Orleans. This project is considered a high priority of the City of New Orleans and requires 7 days a week construction. Mr. Grimes has thoroughly documented, coordinated, and provided insight on construction challenges throughout the project. He has regularly coordinated with City officials, utility companies, and other government agencies. This project met the rigorous schedule challenges ahead of the Super Bowl.</p> <p><b><u>West End Neighborhood Group B (RR 194) Roadway</u></b></p> <p>Mr. Grimes provided Resident Inspection services for roadway reconstruction within the West End neighborhood of New Orleans. His responsibilities include the daily oversight of the construction work, development of daily reports highlighting completed work, coordination with the City of New Orleans DPW and various entities inclusive of Entergy and the Sewerage and Water Board, and the daily calculation and reporting of construction quantities. Mr. Grimes is also responsible for ensuring safety measures are in place, and the construction crews are not putting the public in danger based on the ongoing construction activities.</p>	

**TEC Professional Services Questionnaire**

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>	
<b>Name &amp; Title:</b>	<b>Eric M. Curson</b> Design Manager
<b>Project Assignment:</b>	GIS Specialist GIS/CADD
<b>Name of Firm with which associated:</b>	<b>MSMM</b> ENGINEERING, LLC
<b>Years' experience with this Firm:</b>	9 (2015)
<b>Education: Degree(s)/Year/Specialization:</b>	
Associates: Southeastern College of Technology Some Classes: Purdue University	
<b>Active registration: Year first registered/discipline:</b>	
	N/A
<b>Other experiences and qualifications relevant to the proposed Project:</b>	
<p>Eric Curson is a GIS Specialist, geospatial, and CAD manager at MSMM, where his project experience encompasses a variety of geospatial and software initiatives within the Federal and local market in southeast Louisiana. Mr. Curson has worked extensively on projects that require the use of ESRI ArcGIS and Microsoft SQL Server for Federal clients including the USACE New Orleans District. He has been instrumental in leading the GIS database creation and management for several MSMM projects including the Jefferson Parish I&amp;I project, and the Chitimacha and Ascension Parish GIS planning tool initiatives. With a background in both CAD and GIS, Mr. Curson understands the similarities and differences between the two systems and has played an important role in working through any conversion issues that have arisen through the digitization and database creation process. As the lead drafter at MSMM, Mr. Curson has been instrumental in the development of project plans, working in conjunction with the engineering staff to finalize all submittals.</p> <p><b><u>Coventry Court Drainage Evaluation Feasibility Report, Jefferson Parish, LA</u></b></p> <p>In early 2017, following repetitive street flooding in the Coventry Court area of River Ridge, MSMM Engineering worked with the Jefferson Parish District 2 office to propose a solution to the flooding issues in the area. The MSMM engineering team identified several potential options that could be evaluated. In 2018, the Jefferson Parish Council tasked our staff with developing a multi-phase feasibility report to evaluate several drainage solutions in the area.</p> <p>As part of the Coventry Court evaluation, the Jefferson Parish drainage department requested that MSMM investigate and determine the feasibility of providing improved drainage. The investigation consisted of the following:</p> <ul style="list-style-type: none"><li>- Evaluation Phase/Data Review – collection and analysis of existing information</li></ul>	

## KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

### Name & Title:

**Eric M. Curson**

Design Manager

- Field Reconnaissance and Preliminary Survey – collection of relevant field information
- Model Runs and Calibration – updated the HEC-RAS model with the area's data for 10-year, 50-year and 100-year storm events.
- Cost Estimating of Multiple Alternatives – provided detailed cost breakouts consisting of vendor furnished pricing data for materials
- Development of a Prioritized List of Recommendations – the alternatives developed were prioritized based on our engineering recommendations.

MSMM is the only entity to envision and develop the Coventry Court drainage pump station concept. The final report was completed in less than 6 months, and the final recommendation is to design a new drainage pump station on a vacant parcel owned by the parish between Coventry Court and Lee Court, westerly of Jefferson Highway. This 90 cfs (120 cfs ultimate) pump station with a 48' open cut discharge forcemain placed down Colonial Heights Road and over the Mississippi River levee. Other project features consist of a discharge dolphin in the Mississippi River and upsizing of the Jefferson Highway drainage crossings and downstream conveyance. This recommended alternative provides the greatest pumping capacity while requiring the least amount of permanent drainage servitudes.

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

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

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

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

**TEC Professional Services Questionnaire**

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>	
<b>Name &amp; Title:</b>	
	<b>Binh Le</b> Engineering Technician
<b>Project Assignment:</b>	
	CADD and BIM/CIM
<b>Name of Firm with which associated:</b>	
	<b>MSMM</b> ENGINEERING, LLC
<b>Years' experience with this Firm:</b>	
	1 (2023)
<b>Education: Degree(s)/Year/Specialization:</b>	
	Bachelor's in Architecture, 1979, University of Saigon
<b>Active registration: Year first registered/discipline:</b>	
	N/A
<b>Other experiences and qualifications relevant to the proposed Project:</b>	
<p>Mr. Le is an Engineer Technician and BIM/CIM Modeler who has spent 43 years specializing in highway projects, architectural projects, and structural projects. His relevant expertise includes collecting information, preparing site plans, and organizing design variables/documents for the EOR on various infrastructure such as floodwalls and levees, pump stations, sewer treatment plants, drainage plans, and landscaping details. He has worked on major local interstate, bridge, renovation, and flood protection projects and has extensive experience in AUTOCAD major, REVIT, Autodesk BIM, Twinmotion, and MicroStation.</p> <p><b><u>River Road Aquatic Ecosystem Restoration- San Antonio, TX</u></b></p> <p>MSMM was contracted by USACE/San Antonio River Authority to provide 100% Design-Bid-Build of this large-scale project, which focused on recreational usability as well as ecosystem restoration. MSMM's responsibilities included H&amp;H analysis, stream restoration, landscape architecture, civil and structural design, cost estimating, and value engineering.</p> <p>Role: Mr. Le provided engineering tech services to the design team. He utilized google earth to search for potential obstructions and organized the project files accordingly. He was also the BIM/CIM for the project, creating models for bird-watching platforms, water features, and Fishing Piers using Autodesk BIM software.</p> <p><b><u>Woodlake Estates/Seton Park Subdivision Drainage Pump Station, Jefferson Parish, LA</u></b></p> <p>MSMM was tasked by the Jefferson Parish Council to evaluate drainage pump station alternatives to solve the issue of long-term flooding within the Woodlake and Seton Park neighborhoods within the City of Kenner. In 2018, MSMM completed a feasibility study that developed multiple drainage pump station alternatives that bypass the capacity limitations of the canals and alleviate stormwater flooding in the area. At the completion of the feasibility report, the following alternatives were identified:</p>	



<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Binh Le</b> Engineering Technician
<ul style="list-style-type: none"><li>- A new drainage pump station at the corner of Canal 17 and Canal 7 (west end of Joe Yenni Blvd.), a discharge forcemain westwards, with a discharge basin in the West Return Canal.</li><li>- A new drainage pump station at the northeast corner of Vintage Drive and Platt Street on Canal 17, a discharge forcemain westwards, with a discharge basin in the West Return Canal.</li><li>- A new inline drainage pump station at or near the corner of Canal 17 and Canal 7 with discharge into the canals and also with a discharge forcemain westwards to a discharge basin in the West Return Canal</li></ul> <p>Mr. Le worked with the civil and hydraulic engineering staff to develop GIS shapefiles for inclusion in the model. He also mobilized to the field to identify catch basins, inlets, manholes, and other drainage features, for which he grabbed coordinates and uploaded them into the model. Finally, Mr. Le developed project alternatives in GIS and provided conceptual-level design in CAD.</p>



## TEC Professional Services Questionnaire

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

### **PROJECT NO. 01**

<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p style="text-align: center;"><b>Mirabeau Garden Stormwater Management and Flood Mitigation Modeling</b></p> <p style="text-align: center;"><b>City of New Orleans Department of Public Works</b></p> <p style="text-align: center;"><b>Megan Williams Stormwater Program Manger 504-658-8065</b></p>	<p>The Mirabeau Gardens Green Infrastructure project involved the intake of water from the Mirabeau trunk line into the project site via a forebay, followed by pumps, vegetated filtration ponds, freshwater swimming pool, woodlands, washes and bioswales, recreational, educational and sports amenities, and eventual discharge into the Mirabeau trunk line. Downstream discharge into Mirabeau trunk line is planned for storms exceeding 10-year intensity, while for all lesser intensity storms, the stormwater will be stored and infiltrated within the site.</p> <p>During the design stage, MSMM conducted hydrologic and hydraulic (H&amp;H) modeling, derived model predicted flood depths, and mapped flooded areas and flood depths. This data was utilized by FEMA to calculate benefit-cost ratio (BCR) of the project. MSMM's H&amp;H model efforts and deliverables proved to be key elements that facilitated BCR of greater than 1.0. Our evaluation utilized both SWMM and HEC-RAS models, reviewed and reconciled the elevation parameters, evaluated the interconnectivity and the numerical model flows between 2 storm sewer systems (DPS03 &amp; DPS04), reviewed information on calibration and model adjustments that were made to derive expected depth of flow in the storm sewers adjacent to the project, SWMM model data, developed stormwater flow rate and volume at multiple drainage nodes around the subject site for 2-year, 5-year, 10-year, and 100-year storms, developed maps of modeled drainage nodes, developed profiles of modeled storm drains, calculated drainage area acreages and prepared maps. We also developed drainage sub-basin delineation maps to facilitate analysis of backwater in the storm drains acting as 'upstream' areas, and relationship of drainage area boundaries to the status of flow within the storm sewer. Based on our modeling efforts, the project was full designed and will be constructed in 2025.</p>	
<b>Completion Date (actual or estimated):</b>	<b>Estimated Cost (in thousands):</b>	
	<b>Entire Project</b>	<b>Work for which Firm was Responsible:</b>
2025	\$1,100	\$380



## TEC Professional Services Questionnaire

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

### PROJECT NO. 02

**Project Name, Location and Owner's contact information:**

**Nature of Firm's Responsibility:**

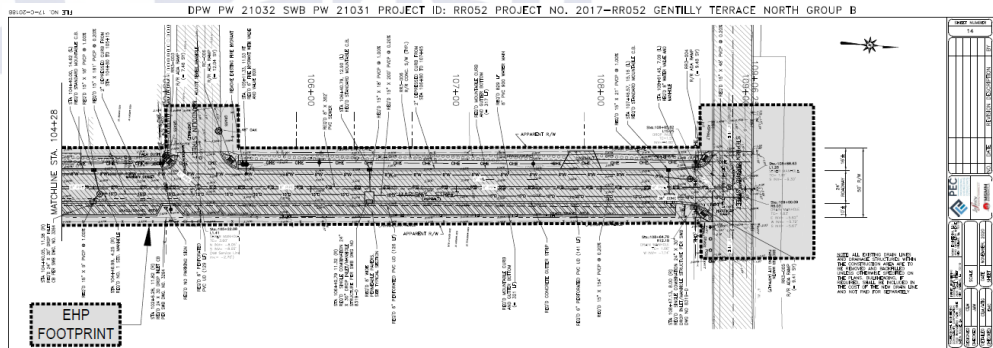
**Gentilly Terrace North  
Group B (RR052)  
Neighborhood Roadway  
Design, New Orleans,  
LA**

**City of New Orleans –  
Department of Public  
Works**

**John Shires, PE – PEC  
504-309-5360**

MSMM has been tasked with providing complete reconstruction roadway design for eight (8) streets of this Gentilly Terrace project, and approximately six (6) streets of patch, mill, overlay design as a subconsultant to PEC. The main portion of the project includes mostly full depth replacement and waterline design. Other services include the development of drainage calculations and drainage features, the re-establishment of base course and new roadway, and curb, gutter, roadway, sidewalk, and street surface improvements on the referenced blocks where full reconstruction was not required.

One unique feature of our design was the incorporation of permeable pavers on Marigny Street. This Green Infrastructure component was featured in the design during the 35% design submittal to alleviate water ponding in the roadway and



to provide additional drainage support to the area. This feature is well received within the neighborhood and our engineering team will continue to evaluate additional areas of the project where similar Green Infrastructure measures can be incorporated.

To date, we have provided 65% design for the blocks including in our scope. We are currently addressing comments on the intermediate design submittal and will soon provide the 90% design. We will also be responsible for providing construction administration on the blocks we designed.

**Completion Date (actual or estimated):**

**Estimated Cost (in thousands):**

**Entire Project**

**Work for which Firm was Responsible:**

2024


\$950

\$250

## TEC Professional Services Questionnaire

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

### **PROJECT NO. 03**

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:
<p><b>Woodlake Drainage Pump Station, Hydraulic Modeling and Preliminary Design, Kenner, LA</b></p> <p><b>Jefferson Parish Drainage Department</b></p> <p><b>Mitch Theriot, PE – Drainage Director (504) 736-6751</b></p> 	<p>The Woodland Estates &amp; Seton Park subdivision areas are located at the confluence of Canal 7 and Canal 17 in Kenner. The current drainage system consists of an enclosed gravity storm sewer system that outlets at various locations in the canals. The distance the stormwater within the canal must travel before it is pumped is excessive (nearly 2 miles to the Duncan Canal Pump Station and 2.25 miles to the Parish Line Pump Station). Due to the excessive distance, the water within the canal typically backs up, creating an increased head situation where the gravity drainage pipes are unable to discharge as intended. This generates a backwater flow condition, which causes repeated flooding in the area. Because of the existing conditions in the area, MSMM completed a drainage evaluation report that evaluated options for removing the backflow condition in this area.</p> <p>MSMM is currently in the process of designing this project to the 65% stage as follows: a 120 CFS pump station located in Seton Park as well as a below ground retention feature within Seton Park to capture peak flows. The retention area within the park will consist of a below ground HDPE piping network covering a roughly 75x300 ft. area fed by an overflow junction box. The pump station will be fed from a 60" drain pipe on St. Elizabeth Drive. The two 60" diameter pipes crossing Platt Street and Joe Yenni Blvd to discharge into Canal 7 and 17 would be interconnected to feed the intake of the pump station. Both 60" pipes would be fitted with flapper type gates so that low flows or flows exceeding the pump station capacity could bypass into the canal. The pump station would utilize three pumps and a single 48" force main to discharge the storm water over the West Return Wall. The force main would be approximately 1,200 linear feet and discharge the storm water over the West Return Canal Levee Wall and into the West Return Canal (part of the Lake Pontchartrain drainage system).</p> <p>The subsurface drainage was modeled using the US EPA Storm Water Management Model (SWMM), and the canals and pump station utilized the River Analysis System (HEC-RAS) software. The HEC-RAS model conducted existing conditions and other simulations under design storms of 10-year, 50-year, and 100-year intensities. The resulting conditions were utilized for comparison purposes. The alternate iterations result in varying degrees of water surface lowering and flooding reduction. Extents of improvement projects, associated cost opinions, and required</p>

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

**PROJECT NO. 03**

<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
	ancillary items such as right-of-way acquisitions, etc., were considered to select the most optimum combination which will provide the most flooding reduction. The modeling process indicated that both the subsurface drainage system and high-water elevations in the canal during a 10-year storm event are contributing to flooding issues in the project area. The recommendation was made to construct an in-line 120 cfs drainage pump station directly benefiting the two neighborhoods, as the pump station will be the new outlet, therefore no longer relying on the canal system. This alternative will indirectly benefit the entire area by removing the runoff created from these subdivisions from entering the canal system, therefore freeing up canal capacity from other areas.	
<b>Completion Date (actual or estimated):</b>	<b>Estimated Cost (in thousands):</b>	
	<b>Entire Project</b>	<b>Work for which Firm was Responsible:</b>
2024	\$671	\$506



### TEC Professional Services Questionnaire

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

#### **PROJECT NO. 04**

<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>USACE Silver Jackets Program Jefferson Parish Infrastructure and Watershed Master Plan Development</b></p> <p><b>USACE New Orleans District</b></p> <p><b>Nik Richard, USACE Project Manager</b> <b>504-862-2411</b></p> <p><b>Michelle Gonzales, CFM – Director, Ecosystem and Coastal Management</b> <b>504-736-6653</b></p>	<p>MSMM recently developed the Jefferson Parish Watershed Management Master Plan. Development of the Jefferson Parish Watershed Management Master Plan, (WMP) gave MSMM the dual opportunities of assisting parish leadership in developing strategies to prepare the drainage system for future sea level rise and of assisting the parish residents in lowering their flood insurance rates. Working through the US Army Corps of Silver Jackets program, MSMM provided lead assistance in the ongoing process of acquiring National Flood Insurance Program (NFIP) credit for developing the WMP as part of the Community Rating System (CRS).</p> <p>The NFIP considers a WMP to be the result of a hydrologic and hydraulic study of the watershed using a hydrograph approach, examining both existing and future development conditions, and under different management scenarios. For CRS credit it must model at least the 100-year fully developed watershed at a scale sufficient to determine local problems. Utilizing the parish's existing SWMM models, MSMM adjusted input parameters for rising sea levels, changing storm patterns as projected in the NOAA Atlas 14 rain models, and changing development plans as projected in the Jefferson Parish future land use plan. The output from this modeling effort was then quantified in terms of water surface elevation changes.</p> <p>Utilizing modeling results, FEMA CRS guidance criteria, Jefferson Parish planning studies, input from the parish, and MSMM broad experience from previous drainage and flood studies; a series of recommended watershed management strategies were developed. These recommendations ranged from proposed implementation of standard low impact development principles, such as use of permeable pavements and bio-swales, to specific unique recommendations for Jefferson Parish watershed management regarding pump maintenance considerations, generation capacity and levee resiliency planning.</p>	
<b>Completion Date (actual or estimated):</b>	<b>Estimated Cost (in thousands):</b>	
	<b>Entire Project</b>	<b>Work for which Firm was Responsible:</b>
2021	\$180	\$180



### 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. 05**


<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Lincoln Manor Subdivision Drainage Improvements, Kenner LA</b></p> <p><b>City of Kenner</b></p> <p><b>Tom Schreiner, P.E, Deputy CAO – PW 504-468-7515</b></p>	<p>The City of Kenner has recently contracted with MSMM for the necessary drainage improvements for the Lincoln Manor Subdivision in Kenner, LA. Design of new drainage outfalls at Canal No, 13 for Tifton St., Ohio St., and Utah St. are included in the design package, as well as the inclusion of the full restoration of Dawson Street. The improvements for both phases of the project include upsizing the drainage pipes from 15” to 24”, adding new drainage structures, and removing and replacing existing roadways, driveways, and sidewalks as a means to upgrade the drainage features. Utility relocations, inclusive of water and sewer, were also required as part of the new design packages.</p> <p>MSMM's scope includes geotechnical, engineering design, construction bidding, resident inspection, and construction administration for this project. As the prime, MSMM is providing full engineering design, which will include a preliminary phase, design phase, bidding phase, and construction phase for specification and drawing productions.</p> <p>During construction, MSMM will be responsible for all resident inspection and construction administration services. This will include reviewing and addressing the project schedule, pay applicants, RFIs, material submittals, and progress meetings. Additionally, we will have an inspector on site at all times to observe all the work done by the contractor. MSMM will review, measure, and record all work completed for the production of daily field reports and verification of adequate traffic and site safety procedures.</p>	
<b>Completion Date (actual or estimated):</b>	<b>Estimated Cost (in thousands):</b>	
	<b>Entire Project</b>	<b>Work for which Firm was Responsible:</b>
2021	\$900	\$180



### TEC Professional Services Questionnaire

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

#### **PROJECT NO. 06**


Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>South Kenner Pump to the River Feasibility Study, Kenner, LA</b></p> <p><b>Jefferson Parish Drainage Department</b></p> <p><b>Mitch Theriot, PE, Director (504) 736-6751</b></p> 	<p>For this project, MSMM provided key modeling and coordination roles for developing the South Kenner Pump to the River Feasibility Study. Examining the feasibility of the project gave our engineering staff the opportunity to assist Parish leadership in advancing a concept which has been considered a “no-go” strategy in previous studies. Utilizing a knowledge base of the storm drain system and the canal-pump station system that has been developed through years of working with Kenner and the Parish on drainage problems in the area, MSMM was able to leverage their knowledge base and analytical skills to develop a plan that resurrected the Pump to the River (PTR) concept as a viable strategy for decreasing flood stages over a broad area of Kenner and unincorporated Jefferson Parish.</p> <p>The modeling effort for this study involved analysis of the South Kenner EPA SWMM model and performing hydrology and hydraulic analyses utilizing the HEC-HMS and HEC-RAS models approved by FEMA and the Army Corps of Engineers. These models were used to identify runoff volume and storm flood stages expected in the watershed of the Duncan Canal and Soniat Canal. The Harahan Pump-to-the-River system was added to the HEC-RAS “Jefferson East Bank HSDRRS Project Model” so the model would reflect the projected pump conditions that would exist when the Kenner PTR system would be brought online. Rigorous modeling efforts culminated in the finding that a significant area of flooding could be reduced by extending the conveyance system to the larger reach of the Duncan Canal. In terms of value as measured by the cost of canal and pump station per of volume of water removed from the system, the PTR system was found to provide significant economies because of the short distance of conveyance to the river when compared to the long distance and multiple constrictions involved in conveyance to Lake Pontchartrain.</p>	
Completion Date (actual or estimated):	Estimated Cost (in thousands):	
	Entire Project	Work for which Firm was Responsible:
2014	\$150	\$150



## TEC Professional Services Questionnaire

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

### **PROJECT NO. 07**

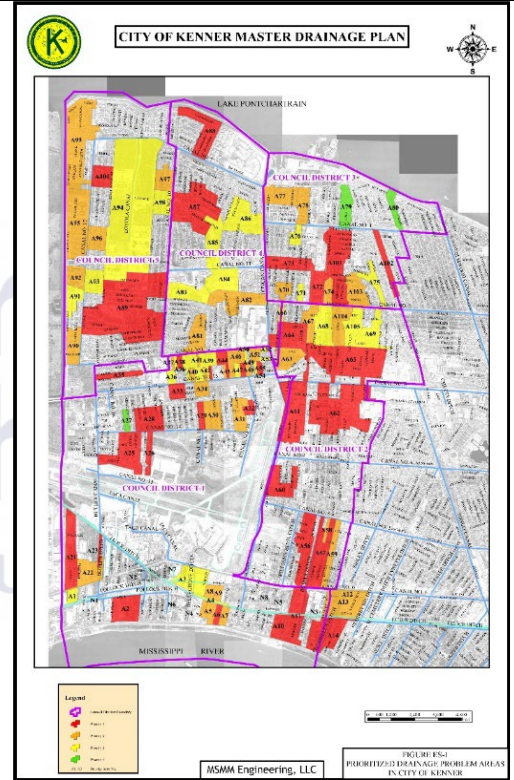
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p style="text-align: center;"><b>Coventry Court Drainage Evaluation Feasibility Modeling Report and Subsurface Design River Ridge, LA</b></p> <p style="text-align: center;"><b>Jefferson Parish Drainage Department</b></p> <p style="text-align: center;"><b>Mitch Theriot, PE – Drainage Director (504) 736-6751</b></p> 	<p>In early 2017 and following repetitive street flooding in the Coventry Court area of River Ridge, MSMM Engineering worked with the Jefferson Parish District 2 office to propose a solution to the flooding issues in the area. The MSMM engineering team identified several potential options that could be evaluated, and in 2018 the Jefferson Parish Council tasked our staff with developing a multi-phase feasibility report to evaluate several drainage solutions in the area. As part of the Coventry Court evaluation, the Jefferson Parish drainage department requested that MSMM investigate and determine the feasibility of providing improved drainage. The investigation consisted of the following:</p> <ul style="list-style-type: none"> <li>- Evaluation Phase/Data Review – collection and analysis of existing information</li> <li>- Field Reconnaissance and Preliminary Survey – collection of relevant field information</li> <li>- Model Runs and Calibration – updated the HEC-RAS model with the area's data for 10-year, 50-year and 100-year storm events.</li> <li>- Cost Estimating of Multiple Alternatives – provided detailed cost breakouts consisting of vendor furnished pricing data for materials</li> <li>- Development of a Prioritized List of Recommendations</li> </ul> <p>The final report was completed in less than 6 months, and the final recommendation was to design a new drainage pump station on a vacant parcel owned by the parish between Coventry Court and Lee Court, westerly of Jefferson Highway. This 90 cfs (120 cfs ultimate) pump station with a 48' open cut discharge forcemain placed down Colonial Heights Road and over the Mississippi River levee. Other project features consist of a discharge dolphin in the Mississippi River and upsizing of the Jefferson Highway drainage crossings and downstream conveyance. This recommended alternative provides the greatest pumping capacity while requiring the least amount of permanent drainage servitudes.</p>	
Completion Date (actual or estimated):	Estimated Cost (in thousands):	
	Entire Project	Work for which Firm was Responsible:
2018	\$299	\$299

## TEC Professional Services Questionnaire

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

### PROJECT NO. 08

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





## TEC Professional Services Questionnaire

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



### **PROJECT NO. 09**

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>New Orleans International Airport North Terminal Comprehensive Hydraulic and Hydrologic Modeling Study, Kenner, LA</b></p> <p><b>New Orleans Aviation Board</b></p> <p><b>Chris Spann, Program Manager (913) 940-1301</b></p> 	<p>MSMM performed the hydraulic and hydrologic aspect of the North Terminal Expansion Project at the New Orleans International Airport. MSMM adopted the existing hydraulic models such as the 1992 Jefferson Parish UNET model, the 2005 Corps of Engineers HEC-RAS model, and the 2012 Jefferson Parish HEC-RAS model and supplemented them with recent field and record data, creating the new 2013 Airport hydraulic model. From this it was determined the airport would mitigate its peak rate of discharge to include all previous improvements from 1992 to the present. This was commonly known as "Catch-up Mitigation". The difference from the peak runoff from 1992 to the peak runoff from the 2013 conditions as well as the improvements from the North Terminal Expansion were used to size the new drainage pump station along with the drainage conveyance systems for both airside and landside drainage. MSMM worked with airport personnel to determine different mitigation options including on-site pumping, on-site storage or capacity enhancements to Parish owned pumping facilities. MSMM completed a comprehensive analysis of existing as-builts from projects completed at the airport since 1992; completed a field walk-through investigation to inventory existing drainage features; collected data for model calibration; completed a hydrology analysis of the storm sewer system for both the 1992 and 2013 conditions and completed a storm sewer hydraulic grade line analysis. As a result, MSMM prepared numerous Hydraulic and Hydrologic studies including the Phase 1 North Terminal Expansion, Catch-up Mitigation, Phase 2 North Terminal Expansion, Parking Garage Upgrades and the North Wooded Area. MSMM utilized the model to design airside and landside drainage features including more than five miles of drainage piping ranging in sizes from 12" to 72", open channels, box culverts, and the connection to the Butler Canal box culvert, and a new 600 CFS drainage pump station.</p>	
Completion Date (actual or estimated):	Estimated Cost (in thousands):	
	Entire Project	Work for which Firm was Responsible:
2016	\$500	\$500

### TEC Professional Services Questionnaire

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

#### **PROJECT NO. 10**

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p style="text-align: center;"><b>Statewide Flood Control Program Grant Drainage Improvements, Phase 1, 2, &amp; 3 Kenner, LA</b></p> <p style="text-align: center;"><b>City of Kenner – Department of Public Works, Jefferson, LA</b></p> <p style="text-align: center;"><b>Tom Schreiner, Public Works Director 504-468-7515</b></p>	<p>MSMM personnel led the design, construction management, and resident inspection of multiple phases of the Statewide Flood Control Program (SWFCP) grant drainage improvements in Kenner. LDOTD's Statewide Flood Control Program grant funding was utilized to undertake stormwater drainage system improvements to two neighborhoods (University City and Audubon Place Subdivisions) in the city. The estimated project cost was \$4.57 million, with a grant amount of \$2.7 million. MSMM personnel conducted the project from beginning to conclusion, which included preparing the grant pre-application package, coordinating with the City and LDOTD staff, conducting hydraulic and hydrologic analyses (HYDRWIN and SWMM), preliminary and final design, construction management and resident inspection. Significant coordination was required with LDOTD staff due to the unique drainage conditions and due to the SWMM models of the city's previous drainage master plan work, which required re-analyzation with LDOTD's HYDRWIN software. The project involved installation of new subsurface drainage pipes and inlets along three city streets, and upgrading existing drainage features with larger subsurface pipes, inlets, and outfall pipe along three other city streets. The subsurface pipes ranged in size from small 18-inch diameter circular pipes to large 54" x 88" arch pipes. Adjustment of sanitary sewer house connections, and concrete pavement restoration of the roadways, sidewalks and driveways was also required.</p> <div style="display: flex; justify-content: space-around;">   </div>	
Completion Date (actual or estimated):	Estimated Cost (in thousands):	
	Entire Project	Work for which Firm was Responsible:
2016	\$500	\$500

### TEC Professional Services Questionnaire

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

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
Not Applicable	Not Applicable	Not Applicable

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

MSMM Engineering, LLC (MSMM) is one of the fastest-growing small businesses in the greater New Orleans area. Specializing in drainage infrastructure assessment and design, MSMM offers experienced personnel with an extremely diverse skill set. MSMM engineers total over 150 years of design experience and, combined, have designed over 25 projects for Jefferson Parish. The principals of MSMM alone have designed over two hundred Jefferson Parish projects. We are extremely proficient in providing feasibility/drainage phase, design phase, and construction phase services for drainage infrastructure projects.

#### **1. PROFESSIONAL TRAINING AND EXPERIENCE IN RELATION TO THE TYPE OF WORK REQUIRED FOR THE ENGINEERING SERVICES:**

MSMM is one of the most knowledgeable firms about subsurface drainage in general, and Jefferson Parish drainage in particular. Since the beginning of the SELA program, MSMM's Principal Mr. Manish Mardia has been involved with large scale canal improvement and pump station projects in Jefferson Parish (Harahan Pump to the River, and Soniat Canal improvements). MSMM has modeled, designed, and provided construction inspection and management on several subsurface drainage improvement projects in Kenner (Jefferson Parish), analyzed the entire drainage system of the New Orleans International airport in Jefferson Parish, and conducted complete design of the 600 cfs airport drainage pump station that was recently constructed. The airport drainage work required MSMM to conduct hydraulic modeling, which included the entire east bank of Jefferson Parish, and included recent SELA improvements as well. MSMM's principals also analyzed the entire subsurface drainage system of a prominent Jefferson Parish community (Kenner) through the Woodlake and Seton Park drainage evaluation. We have developed a feasibility study for the community, conducted hydraulic modeling, and applied for a state grant to implement the drainage improvements. Furthermore, MSMM President Mr. Mardia managed several phases of the Harahan Pump to the River project, and Vice President Mr. Chehardy was the designer of record of multiple phases of the project. Our lead Civil Engineer and Co-Vice President, Mr. Wilson, was the designer of record for the Sauv  Road drainage pump station and the new drainage pump station at the airport. MSMM also offers experience with green infrastructure (*see Block L projects 7 and 8*), as well as a trusted team of Resident Inspectors with extensive experience managing construction phase activities in Jefferson Parish.

Since the early 1990s, the President of MSMM Engineering, LLC has worked on **more than one hundred projects for various departments of Jefferson Parish**. Project types designed by MSMM engineering staff include drainage evaluation/pump stations, roads and bridges, stormwater and wastewater system assessment, funding and construction administration, environmental site assessments, permitting and NEPA documentation, and hurricane hazard mitigation design for drainage and sewerage facilities. MSMM's

Principals have worked on Jefferson Parish contracts for the past 20 years and have a history of successful project execution starting from grant applications, through environmental permitting and design, to construction administration and grant management. At no point during the 20+ year career of producing project plans and specifications has any member of MSMM been involved in projects involving design inadequacies, cost over-runs or assertions of fault.

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

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

MSMM has a total of twenty-five personnel that will be available to work on this project. Though labeled as a small DBE firm, our modeling and engineering qualifications rival those of larger firms in the region. We were selected by the USACE Ft. Worth and New Orleans Districts for Prime small business contracts to perform A-E Design and Project and Program Management on Federal projects. We have also received a prime engineering design contract by the RTA of New Orleans. Our most recent Jefferson Parish work has primarily involved hydraulic modeling, and these modeling reports have been widely successful and have been reviewed and approved by top Parish officials.

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

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

MSMM prides itself in completing projects on time and under budget. Since the inception of MSMM, our staff engineers have completed over one hundred design projects, including multiple drainage pump stations (as detailed above). We also have experience utilizing SWMM, HEC-RAS and HEC-HMS models that will be instrumental in the development of this project. Having prior knowledge of running these models for the Parish and meeting deadlines will be critical for any firm. Waiting to win the contract, acquiring the software and training staff will not be a successful strategy for this project, and our staff currently runs these programs daily, and can be seen in the chart below, has ample availability to continue serving the needs of the Parish. Our 200+ Jefferson Parish projects were successfully completed within the identified schedule and met the quality standard Jefferson Parish expects in design performance. The Jefferson Parish references identified in the response to question #7 can attest to the quality standard and timely completion of Parish projects by MSMM and our personnel. Please reach out to them to better understand our firm abilities/accomplishments.



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

#### **4. PAST PERFORMANCE BY PERSON OF FIRM ON DISASTER RECOVERY AND CDBG CONTRACTS:**

Our staff were intimately involved in the evaluation, inspection, and post-disaster design response to Hurricane Katrina in New Orleans and have accumulated an extensive design portfolio of civil works projects with USACE. This design portfolio consists of the execution of over 80 Task Orders for Hurricane Storm Damage Risk Reduction System (HSDRRS) and Mississippi River Levees (MRL) systems, dealing with subjects such as Risk Management of hydraulic structures (levees, dams, floodwalls, etc.), design of flood risk reduction features such as floodwalls, channels, hydraulic and marine structures, and drainage pump stations.

MSMM's experience with Community Development Block Grant (CDBG)-funded projects enables MSMM to support communities accessing and managing these funds effectively, ensuring successful project outcomes. In previous work with the CDBG program, and in all of our relevant work, MSMM provides immediate solutions to existing problems as well as a mitigation plan that will minimize future damage from natural disasters. We consider not only the present issue at hand, but all incoming factors and how those will relate to existing and future infrastructure. We also consider who will retain ownership upon project completion, and how to ensure that operation and maintenance of the project is sustainable once it is out of our hands.

MSMM's professional services provided by CDBG-funded projects encompass guidance on project implementation, procurement, construction administration, and inspection, and monitoring. Our team has also worked on FEMA funded projects, playing a key role in designing food risk reduction measures and ensuring the safety and stability of communities affected by natural disasters.

Our CDBG projects include:

- Hurricane Isaac CDBG Disaster Recovery Funding Program Management, St. Tammany Parish
- Aubry Street CDBG 10-year Storm Drainage Improvement and Roadway Construction, New Orleans, LA

Our funding and implementation strategy additionally involves other outside funded projects, for which we provide early advisement on potential federal funding opportunities. Our senior leadership is involved in strategies across the state of Louisiana that help to maximize federal funds for nonstructural measures and coastal protection and restoration implementation.



**A listing of other Jefferson Parish projects completed by MSMM engineering staff:**

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

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

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

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

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

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

We offer the following references that can attest to our previous work history regarding hydraulic modeling

utilizing SWMM and HEC-RAS modeling, along with the appropriate fieldwork it will require to supply accurate data to the model.

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

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

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

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

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

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

Print Name: Manish Mardia, PE

Title: President

PE Date: February 7, 2025

# Louisiana Professional Engineering and Land Surveying Board

*Hereby Certifies that*

**MSMM Engineering, Inc.**

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

*Baton Rouge, Louisiana · 08/15/2011*



*License Number 4896*

*Ali Mustafa*  
\_\_\_\_\_  
*Chairman*

*[Signature]*  
\_\_\_\_\_  
*Secretary*




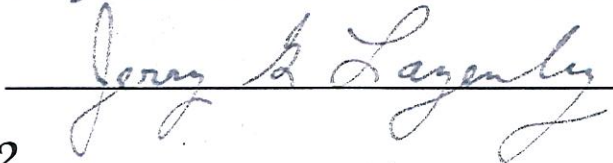
# The Louisiana State Board of Registration for Professional Engineers and Land Surveyors

*Hereby Certifies that*  
**Manish Mardia**

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



*Baton Rouge, La. July 13, 1999*

  
Chairman  
  
Secretary

Registration No. 28482



# LOUISIANA UNIFIED CERTIFICATION PROGRAM

## Disadvantaged Business Enterprise Program

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

### MSMM Engineering, LLC

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

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

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

### **Certificate Eligibility: January 13, 2025- January 13, 2026**

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

**Keziah L. Cawthorne, DBE Program Administrator II**

*Regional Transit Authority*



## TEC Professional Services Questionnaire

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

**SOQ 25-005 Provide Professional Engineering Services for the Sala Avenue Historic District Drainage Feasibility Analysis and Improvements Project  
Resolution No 145576.**

**B. Firm Name & Address:**


**Mott MacDonald, LLC**  
650 Poydras Street  
Suite 2550  
New Orleans, Louisiana 70130

**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:**

**J. Brent Rawson, PE**

**Principal Project Manager**

E-mail: james.rawson@mottmac.com

Phone: 251.287.9443

LA PE: #43835

**D. Name and contact information of employee who is 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.**

**Austin Kittok, PE**

**Senior Project Manager**

E-mail: austin.kittok@mottmac.com

Phone: 504.779.0448

LA PE: #45850

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

<u>54</u>	Administrative	<u>6</u>	Estimators	<u>2</u>	Specification Writers
<u>32</u>	Architects (Licensed)	<u>14</u>	Geologist	<u>144</u>	Structural Engineers
<u>6</u>	Chemical Engineers	<u>84</u>	Geotechnical Engineers	<u>270</u>	Graduate Engineers
<u>338</u>	Civil Engineers	<u>1</u>	Interior Designers	<u>188</u>	Project Managers
<u>51</u>	Construction Engineers	<u>1</u>	Landscape Architects	<u>37</u>	Clerical
<u>2</u>	Ecologist	<u>203</u>	Land Surveyor	<u>7</u>	Grant/Funding Specialist
<u>170</u>	Electrical Engineers	<u>114</u>	Mechanical Engineers	<u>16</u>	Sanitary Engineers
<u>45</u>	Engineer Intern	<u>38</u>	Environmental Engineers		
<u>15</u>	Professional Land Surveyors			<b><u>1,838</u></b>	<b>Total</b>

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

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

## TEC Professional Services Questionnaire

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

1. N/A

2.

**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. N/A	N/A	N/A
2.		
3.		

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

We estimate 13 individuals may assist in completing drainage analysis, green infrastructure, rail coordination, and utility design for the Sala Ave. project. More employees can be added, as necessary, should it be needed.

## 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:**

**Austin Kittok, PE, Senior Project Manager**

**Project Assignment:**

Project Manager/Engineer-of-Record

**Name of Firm with which associated:**

Mott MacDonald

**Years' experience with this Firm:**

With the firm: 8      With other firms: 0.5

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

BS, 2016, Civil Engineering

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

Professional Engineer: 2021, LA #PE.0045850; 2024, FL #98495

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

Austin is responsible for supervising Mott MacDonald's engineering endeavors in Louisiana. He holds the position of office manager at our New Orleans office, which serves as the hub for our transportation operations in Louisiana. His main responsibility entails offering project management and engineering assistance for a range of civil infrastructure projects across the states of Louisiana, Alabama, and Florida. His expertise spans a multitude of areas, including concrete and asphalt roadways, tunnels, aviation, and water/wastewater systems. He is adept in design aspects like hydrologic and hydraulic (H&H) drainage modeling, geometric roadway, and water pressure pipe design, as well as overseeing open cut and trenchless (horizontal direction drilling [HDD] and pipe bursting) water and sewer main installation. His software proficiency encompasses tools such as StormCAD, SewerGEMs, AutoCAD Civil 3D, AutoTurn, and GIS. On the management front, Austin excels in handling municipal projects in Louisiana, where he manages financial, project, and construction reporting, traffic control planning, permitting, public outreach coordination, and inspection staff oversight.

**Bourbon Street Rehabilitation Phase I (Canal Street to St. Louis Street), City of New Orleans DPW, New Orleans, LA:** Project Engineer assisting on the design-build efforts for Bourbon Street (Canal St. – St. Louis St.) within the New Orleans French Quarter. Completed H&H modeling of the new drainage system which included 15" – 36" single pipe alignments, dual 24" pipe alignments, CIPP lining, and drainage siphons to avoid underground electrical utilities and conflict boxes. Assisted in the plan development and utility coordination efforts of the overall utility design along the corridor.

**Bourbon Street Rehabilitation Phase II (St. Louis Street to Dumaine Street), City of New Orleans DPW, New Orleans, LA:** Deputy Project Manager responsible for design, construction administration, and inspection services associated with the full reconstruction of Bourbon Street (St. Louis Street – Dumaine Street) within the New Orleans French Quarter. Lead the H&H modeling efforts for the new drainage system which included 15" – 30" single pipe alignments, and CIPP lining, within the congested urban utility right-of-way. Additional drainage efforts were completed on 1 block of St. Ann Street (Bourbon – Dauphine) as part of emergency work added during construction. Coordinated with utilities companies during design to ensure utilities were relocated out of conflict prior to construction.

**DPW661 Conti Street Rehabilitation (Bourbon Street to N. Peters Street), City of New Orleans DPW, New Orleans, LA:** Engineer of Record for the full reconstruction of four blocks of Conti Street (Bourbon Street – N Peters Street) within the New Orleans French Quarter. Oversaw the H&H modeling efforts completed for the new drainage system which consisted of several urban basins within the French Quarter.

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

The final drainage design consisted of 18" – 36" drainage pipes and modified catch basin grates to limit debris from entering the drainage system for long term maintenance. All drainage efforts were coordinated with local utility companies to ensure constructability due to the congested urban utility right-of-way. The water design included the replacement of the existing 12" watermain and 30" transmission main repair, and sewer rehabilitation utilizing CIPP lining of the existing 8"-12" gravity systems.

**RR197 West End (Group E), City of New Orleans DPW, New Orleans, LA:** Engineer of Record responsible for the full reconstruction of 14 blocks of Bellaire Drive (NO Hammond Hwy – 32nd Street). Oversaw the H&H modeling efforts for the new drainage system which included 15" – 36" storm drains and incorporation of green infrastructure for two blocks. The Project also included the replacement of the existing sewer to meet 10-state standards (8-inch to – 12-inch gravity systems). Oversaw the geometric PCCP roadway design and pedestrian sidewalk and ADA improvements. Coordinated with stakeholders and adjacent projects to verify project upgrades would correspond with future improvements.

**RR130 Milneburg (Group A), City of New Orleans DPW, New Orleans, LA:** Project Engineer for the drainage design associated with replacing existing grass swales with new underground drainage pipes for four neighborhood blocks to elevate existing flooding concerns. Design was modeled utilizing LADOTD Hydraulic standards, 10-year design storm, and StormCAD modeling software. New drainage consisted of 15" – 36" drainage pipes.

**RR070 Lake Terrace and Lake Oaks (Group B), City of New Orleans DPW, New Orleans, LA:** Engineer of Record for the full reconstruction of nine (9) blocks within the Lake Terrace neighborhood. Completed H&H modeling to design a new drainage system capable of meeting LADOTD's 10-year design storm which consisted of 15" – 42" drainage pipes. Completed sewer modeling to meet 10-state standards (8" – 12" gravity systems). Oversaw the geometric PCCP roadway design efforts.

**RR072 Lake Terrace and Lake Oaks (Group D), City of New Orleans DPW, New Orleans, LA:** Project Engineer responsible for full reconstruction roadway project within the Lake Oaks neighborhood, consisting of full subsurface utility replacement (drainage, water, sewer) on Oriole Street, Killdeer Street, and Jay Street. Provided H&H modeling of the new drainage system which consisted of 15" – 60" drainage pipe alignments, sewer modeling to meet 10-state standards (8-inch to 12-inch gravity systems), and the design of the new 8-inch & 12-inch water distribution system.

**DPW144 Old Spanish Trail (Nottingham Dr. to Sherwood Dr.), City of New Orleans DPW, New Orleans, LA:** Project manager provided plan development for the reconstruction of Old Spanish Trail (Nottingham Dr. to Sherwood Dr.). Project consisted of PCCP roadway and full replacement of all underground utilities (water, drainage, sewer) from Nottingham Drive to Sherwood Drive. Project Manager for the construction administration efforts of the project. (Design: 2020) (CA: 2020 – Present)

**A220 Hangar, Airbus FAL USA Expansions 2022, HPM, Mobile, AL:** Project Engineer responsible for the civil portions of the design-build of the A220 aircraft hangar, for the Airbus FAL USA Expansion project. Completed design documents for the contractor associated with the proposed hangars site development including the underground drainage design consisting of 36" – 60" pipes, horizontal placement of the fire and domestic water utilities, sanitary sewer lift station, electric duct banks, telecommunication duct banks, gas utilities, and placement of hydraulic lines.

**South Parking Lot, Airbus FAL USA Expansions 2022, HPM, Mobile, AL:** Project Engineer responsible for the drainage design and H&H modeling associated with the South Parking Lot improvements, for the Airbus FAL USA Expansion project located at the Mobile Airport. The proposed design included 15" – 48" drainage pipes and a by-pass system to ensure post developments matched existing runoff conditions.

**Taxiway A, Airbus FAL USA Expansions 2022, HPM, Mobile, AL:** Project Engineer assisting in the drainage design of Taxiway A, for the Airbus FAL USA Expansion project. Completed H&H modeling associated with the improvements of the proposed aircraft concrete apron, aircraft hardstand, and vehicle access road for the Mobile Airport.



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>J. Brent Rawson, PE, Principal Project Manager</b>
<b>Project Assignment:</b>
Principal-In-Charge
<b>Name of Firm with which associated:</b>
Mott MacDonald
<b>Years' experience with this Firm:</b>
With the firm: 20      With other firms: 22
<b>Education: Degree(s)/Year/Specialization</b>
BS, 1981, Civil Engineering
<b>Active registration: Year first registered/discipline:</b>
Professional Engineer: 1986, LA #22345; AL; FL; GA; TX; CO
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Brent has more than 40 years of experience providing services on a variety of transportation and roadway projects. His experience includes project management for all types of roadway projects spanning the past 30 years. In the course of these projects he was responsible for technical oversight of roadway design, stormwater design, transportation planning, maintenance of traffic plans, and integration of other design elements into the overall project plans (structural, electrical, etc.). Mr. Rawson has also managed several Project Development and Environment (PD&amp;E) Studies, with responsibilities including oversight of the engineering and environmental document preparation needed to complete the NEPA process and qualify these needed roadway improvements for Federal funding. Brent has provided project management and engineering design for a number of clients including California High Speed Rail Authority (CHSRA), Departments of Transportation in Florida, Alabama, Texas, and Louisiana; along with multiple cities, counties, and private clients. He has served as a senior engineer and technical advisor on Design-Build and Public Private Partnership (P3) pursuits. Brent's design experience includes; extensive experience in roadway geometrics including layout of multi-level interchanges, stormwater drainage analysis and design, maintenance of traffic/sequence of construction, railroad and utility coordination.</p> <p><b>Aransas County CDBG, Aransas County, TX (Project No. 507102346):</b> Project Manager. Mott MacDonald was selected by Aransas County as the engineer for eight projects funded by Community Development Block Grants (CDBG). The projects are proposed improvements to local area street and drainage infrastructure in low-income areas. Mr. Rawson was part of the team that developed the scopes of work, estimates, and schedules for the projects in order to complete the grant applications and secure the funding. Mr. Rawson will also be part of the design team. Mott MacDonald's services will include survey, geotechnical engineering, environmental assessment and permitting, design, and construction engineering and inspection.</p> <p><b>Conti Street Reconstruction, City of New Orleans Department of Public Works, New Orleans, LA:</b> QA/QC for project design of the full reconstruction of Conti Street (Bourbon – N Peters). Assisted in constructability reviews throughout the project life cycle.</p> <p><b>McDonald Road Full Depth Reclamation, Mobile County, Pay-As-You-Go, Mobile, AL (Project No. 382212):</b> Project Manager: McDonald Road is a rural two-lane road in Mobile County that was significantly damaged by heavy truck traffic during the construction of the Walmart distribution center. Mobile County Engineering had the road on schedule to be resurfaced, but realized the level of damage and decided to make repairs to the base as well as the surfacing. Mott MacDonald was selected for this project to perform the survey, design, environmental permitting, and construction engineering and inspection. Mr. Rawson was the project manager responsible for coordinating of all design efforts for the project including, the full-depth reclamation (FDR), drainage design, traffic control, erosion control, stormwater permitting, and preparation of plans and bid documents.</p>

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

**Cottage Hill Road and McFarland Road, Mobile County, AL (Project No. 502100375):** Cottage Hill Road from Dawes Road to McFarland Road and McFarland Road from Cottage Hill Road to Jeff Hamilton Road will be expanded from 2-lane to 5-lane roadways. Mott MacDonald will provide all survey and right-of-way services, preliminary and final roadway design and coordination and oversight on all geotechnical and environmental services. The project will include extensive drainage analysis and design and detailed MOT plans. Mr. Rawson will provide senior oversight of the geometric design, drainage design, traffic control design, and will provide oversight in plans preparation and submittals.

**CR 13 at CR 32, Baldwin County, AL (Project No. 502100215):** Project Principal. This project involved improvements to the intersection of CR13 and CR32. Mott MacDonald is contracted with Baldwin County Highway Department to design a roundabout at this location. The project includes survey, coordination of all geotechnical activities, obtaining environmental clearances and all aspects of the preliminary and final roadway design of the roundabout. Mr. Rawson provided senior oversight of the geometric design and layout of the roundabout, drainage, and the plans preparation. Mr. Rawson also was a chief client contact.

**Natchez Trace Road and John Paul Road Roadway Improvements (PAYGO), Mobile County Commission, Mobile, AL (Project Number 502100001-001):** Project Manager. This project included the design surveys, right-of-way surveys, right of way acquisition, engineering design, construction quality assurance, and geotechnical firm's preliminary and construction testing. Mr. Rawson's responsibilities included acting as the client liaison, coordination of subconsultants, civil design including geometric layout, right of way, grading, drainage, paving, and traffic design; specifications and bid package.

**Joyce Circle, Williams Road, Lloyd Road Roadway Improvements (PAYGO), Mobile County Commission, Mobile, AL (Project Number 502100001-003):** Project Manager. This project included the design surveys, right-of-way surveys, right of way acquisition, engineering design, construction quality assurance, and geotechnical firm's preliminary and construction testing. Mr. Rawson's responsibilities included acting as the client liaison, coordination of subconsultants, civil design including geometric layout, right of way, grading, drainage, paving, and traffic design; specifications and bid package.

**Roseland Outfall, Mobile County Commission, Mobile AL:** Project Manager. Located in Semmes, AL, Mott MacDonald was tasked to perform an emergency repair of a severely eroded outfall ditch and a failing underground pipe network that was affecting adjacent homes in the subdivision. Our team coordinated with Army Corps of Engineers for permitting of a stream restoration that will stabilize and enhance the outfall ditch.

**County Farm Rd and McDonald Rd Roadway Improvements (PAYGO), Mobile County Commission, Mobile, AL:** Project Manager. This project included the design surveys, right-of-way surveys, right of way acquisition, engineering design, construction quality assurance, and geotechnical firm's preliminary and construction testing. Mr. Rawson's responsibilities included acting as the client liaison, coordination of subconsultants, civil design including geometric layout, right of way, grading, drainage, paving, and traffic design; specifications and bid package, and construction engineering along with overall project management.

**SR 292 (Sorrento Road) Final Design – Theo Baars Bridge to Blue Angel Parkway, Escambia County Commission, Pensacola, FL:** Project manager for the final design of Sorrento Road using the recommendations from the PD&E Study. Project includes design of an urban and rural four-lane divided roadway, open and closed drainage systems, stormwater management, design of signalized intersection, MOT and the design of a parallel bridge structure over the Intercoastal Waterway.

**SR 87 – Vonnie Tolbert Road to 2 miles south of the Yellow River (Segment 4), Florida Department of Transportation (FDOT), Santa Rosa County, FL:** Project Manager for the design of a four-lane divided rural roadway in Santa Rosa County. The project includes detailed MOT plans, open and closed drainage systems, detailed stormwater management design, a new one-mile-long bridge crossing of the Yellow River, access management, and close coordination with permitting agencies, utilities, and Eglin Air Force Base.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Steven White, PE, Principal Engineer - Civil
<b>Project Assignment:</b>
Stormwater Modeling QA/QC
<b>Name of Firm with which associated:</b>
Mott MacDonald
<b>Years' experience with this Firm:</b>
With the firm: 18      With other firms: 10
<b>Education: Degree(s)/Year/Specialization</b>
BS, 1996, Civil Engineering
<b>Active registration: Year first registered/discipline:</b>
Professional Engineer: 2002, FL #58809
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Steven possesses more than 28 years of expertise in roadway drainage design and stormwater modeling projects. When not acting as the engineer-of-record on projects, he serves as a quality assurance and quality control on drainage projects along the gulf coast. His proficiency includes a comprehensive understanding of software such as StormCAD, ICPR, POND5 V3.2, HydroCad v.10.0, PondPack v8i, and ASAD.</p> <p><b>Bourbon Street Reconstruction, City of New Orleans Department of Public Works, New Orleans, LA:</b> Project Engineer completing QA/QC of drainage analysis completed on the project. Reviewed design considerations and StormCAD assumptions during modeling efforts of drainage siphons and catchment areas for the project for a 10-year design storm.</p> <p><b>DPW661 Conti Street Reconstruction, City of New Orleans Department of Public Works, New Orleans, LA:</b> Project Engineer completing QA/QC of drainage analysis completed on the project. Reviewed design considerations and StormCAD assumptions during modeling efforts of the four blocks of drainage design.</p> <p><b>Gulf Breeze Drainage Improvements, City of Gulf Breeze, FL:</b> Project Manager and Engineer of Record for various drainage improvements to the City, including the construction of approximately 6,050 LF of stormwater collection/transmission facilities, transmission facilities (of which approximately 1,850 LF function as exfiltration trench), 1 new stormwater lift station and the interconnection of 2 existing stormwater lift stations with control upgrades, approximately 1,646 LF of 12 stormwater force main, and two new stormwater. The project areas lie within two established residential neighborhoods with a significant number of underground utilities.</p> <p><b>Carver Drainage Improvements, Escambia County BOCC, Pensacola, FL:</b> Project Manager responsible for the design and permitting of the drainage improvements to alleviate intermittent flooding with a portion of the Carver area in Escambia County Florida. The design included pipes ranging from 18" to 60" diameter, negotiations with International Paper for an easement to install and maintain a single dry detention pond.</p> <p><b>Lake Charlene Drainage Study, Escambia County, FL:</b> Stormwater Modeling Engineer to evaluate existing conditions and design alternative conditions during the various storm events for the Lake Charlene area and associated stormwater infrastructure. Mott MacDonald utilized gridded Dual Pol radar data to model the April 2014 storm event to approximate depths and extents of flooding and modeled and evaluated various design alternatives to reduce/alleviate flooding.</p> <p><b>Crockett Street and Crestfield Circle Drainage Improvements, Escambia County, Pensacola, FL:</b> Project manager, responsible for engineering design for drainage improvements to alleviate flooding at the intersections of West Roberts Road and Crockett Street and of West Roberts Road and Crestfield Circle and improvements to the existing Escambia County Blue Pit stormwater facility to add storage capacity as necessary to serve the new infrastructure and to remediate erosion resulting from overland flows entering the facility from Pine Forest Road. System analysis consisted of a site visit to survey and observe existing conditions, as well as preparation of an ICPR model to evaluate hydraulic conveyance.</p>

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

**Grande Lagoon Subdivision Drainage Area Improvements, Escambia County, Pensacola, FL:** Civil engineer of record for the Grande Lagoon Subdivision Drainage Area Improvements. Project was a two-phase project to design and permit drainage improvements recommended by the Grande Lagoon Lakes Drainage Study previously performed by Mott MacDonald. The project included the design of upgrades from a single 24" RCP cross drain to quadruple 30" RCP cross drains along Ponte Verde Drive as well as the upgrade of the existing lake system outfall control structure from a 15' weir with single 30" RCP cross drain to a 40' weir with triple 3'x7' box culverts.

**Pensacola Stormwater Master Plan Update, City of Pensacola, Pensacola, FL:** Project manager for the City of Pensacola's Stormwater Master Plan, which was last updated in 1987. This project involved gathering existing data, topographic survey of drainage structures and subsurface systems, topographic survey of basin areas, and hydrologic and hydraulic modeling.



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>W. Michael Clark, PE, LEED AP, ENV SP, Principal Engineer</b>
<b>Project Assignment:</b>
Green Infrastructure QA/QC
<b>Name of Firm with which associated:</b>
Mott MacDonald
<b>Years' experience with this Firm:</b>
With the firm: 8          With other firms: 9
<b>Education: Degree(s)/Year/Specialization</b>
BS, 2010, Sustainability; BS, 2006, Civil Engineering
<b>Active registration: Year first registered/discipline:</b>
Professional Engineer: AZ, PA, NY, VA, MA, DC LEED Accredited Professional: 2009, #0010098605; Envision Sustainability Professional: 2017, #12497
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Michael specializes in hydrology and hydraulics, urban stormwater management, green infrastructure, and low-impact development. His project experience includes green stormwater infrastructure, water main relay and combined sewer reconstruction design, and numerous stormwater and land development projects.</p> <p><b>Green Stormwater Infrastructure (GSI):</b> Tarken Streets 3, Philadelphia Water Department/City of Philadelphia, PA: Project Manager and Project Engineer for the conceptual and detailed design of multiple green stormwater practices. The project includes stormwater bumpouts and subsurface storage trenches. The 15 proposed GSI systems are expected to manage and treat over 8.8 acres of impervious area. The project includes four blocks of water main replacement.</p> <p><b>Green Stormwater Infrastructure (GSI):</b> 49th Street Medians, Philadelphia Water Department/City of Philadelphia, PA: Project Engineer for the conceptual and detailed design of 15 green stormwater practices. The GSI systems include swales, bumpouts, tree trenches, and storage trenches which are expected to manage and treat over eight acres of impervious area.</p> <p><b>Green Stormwater Infrastructure (GSI):</b> S-40736-FRDG, Northern Liberties, Philadelphia Water Department/City of Philadelphia, PA: Project Engineer for the conceptual design of multiple green stormwater practices in the Northern Liberties portion of the city. The project includes subsurface storage trenches and rain gardens. The seven proposed GSI systems were designed to manage and treat over 2.14 acres of impervious area. The GSI portion of the project was done in addition to the large box sewer and water main improvements along Germantown Avenue and Master Street.</p> <p><b>Green Stormwater Infrastructure (GSI):</b> Newtown Creek, New York Department of Environmental Protection/New York City Economic Development Corporation (NYCDEP/NYCEDC), Brooklyn NY: Project Engineer for the evaluation, design, and implementation of green infrastructure practices at schools, parks, and housing authority locations. Responsibilities included client communication and reporting, schedule development and updates, coordinating subconsultants, and the review of design submittals including reports, drawings, and specifications.</p> <p><b>Green Stormwater Infrastructure (GSI):</b> McMenamy Torresdale, Philadelphia Water Department/City of Philadelphia, PA: Project Manager and Project Engineer for the conceptual and detailed design of multiple green stormwater practices. The project includes bumpouts, tree trenches, and subsurface storage trenches. The 12 proposed GSI systems are expected to manage and treat over four acres of impervious area.</p> <p><b>Green Stormwater Infrastructure (GSI):</b> Cedar Hill Cemetery Streets, Philadelphia Water Department/City of Philadelphia, PA: Project QA/QC reviewer for the conceptual and detailed design of multiple green stormwater practices. The project includes stormwater bumpouts and tree trenches with subsurface storage trenches. The 10 proposed GSI systems are expected to manage and treat over 5.3 acres of impervious area. Project includes three blocks of water main relay.</p>

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

**Green Stormwater Infrastructure (GSI):** Loretto Avenue Greening, Philadelphia Water Department/City of Philadelphia, PA: Project QA/QC reviewer for the conceptual and detailed design of multiple green stormwater practices. The project includes stormwater tree trenches and subsurface storage trenches. The 14 proposed GSI systems are expected to manage and treat over 14 acres of impervious area. Project includes three blocks of water main relay.

**Green Stormwater Infrastructure (GSI):** Woodbine Avenue, Philadelphia Water Department/City of Philadelphia, PA: Project Manager and Project Engineer for the conceptual and detailed design of multiple green stormwater practices. The project includes rain gardens and subsurface storage trenches. The 15 proposed GSI systems are expected to manage and treat over 8.2 acres of impervious area.

**Green Stormwater Infrastructure (GSI):** Wyalusing Avenue, Philadelphia Water Department/City of Philadelphia, PA: Project Manager and Project Engineer for the conceptual and detailed design of multiple green stormwater practices. The project includes stormwater tree trenches and subsurface storage trenches. The 10 proposed GSI systems are expected to manage and treat over 5 acres of impervious area. Project included eight blocks of water main relay and sewer reconstruction.

**Green Stormwater Infrastructure (GSI):** Central Cumberland Corridor, Philadelphia Water Department/City of Philadelphia, PA: Project Manager and Project Engineer for the conceptual and detailed design of multiple green stormwater practices. The project includes stormwater tree trenches and subsurface storage trenches. The 15 proposed GSI systems are expected to manage and treat over 5 acres of impervious area. Project includes water main relay and sewer reconstruction.

**Green Stormwater Infrastructure (GSI):** Summerdale Streets 1, Philadelphia Water Department/City of Philadelphia, PA: Project QA/QC reviewer for the conceptual and detailed design of multiple green stormwater practices. The project includes stormwater bumpouts and subsurface storage trenches. The 13 proposed GSI systems are expected to manage and treat over 8.7 acres of impervious area.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Lila Lasecki, PE, Senior Engineer - Civil</b>
<b>Project Assignment:</b>
Project Engineer - Stormwater Lead
<b>Name of Firm with which associated:</b>
Mott MacDonald
<b>Years' experience with this Firm:</b>
With the firm: 9      With other firms: 2
<b>Education: Degree(s)/Year/Specialization</b>
BS, 2015, Civil Engineering
<b>Active registration: Year first registered/discipline:</b>
Professional Engineer: 2019, LA #0044145; 2019, AL #38458
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Lila joined Mott MacDonald in 2015 with a specialization in stormwater management and construction engineering. She is skilled in site design using Civil 3D and stormwater modeling utilizing StormCAD. She has completed trainings in Applied Fluvial Geomorphology and River Morphology and Applications.</p> <p><b>Bourbon Street Rehabilitation (Canal Street to Dumaine Street), New Orleans, LA (City of New Orleans, Department of Public Works):</b> Civil design support. Mott MacDonald provided engineering, construction administration, and resident inspection services for the repair of Bourbon Street surface and underground infrastructure from Canal Street to Dumaine Street as part of the Citywide Public Safety Improvement Program. The project commenced in April 2017 and will take approximately nine months to complete. Mott MacDonald coordinated and sequenced construction after engaging the City of New Orleans, Department of Public Works, the Sewerage and Water Board, residents, business owners, utilities, and contractors.</p> <p><b>West End Group E, New Orleans, LA (New Orleans DPW):</b> Assisted with Civil Design including hydraulic modelling. The project scope of work includes conducting topographic and boundary surveys, developing preliminary design plans, final plans and specifications, and bid documents for the full reconstruction of all subsurface utilities located on Bellaire Drive (NO Hammond Hwy – 32nd Street). Mott MacDonald is responsible for coordinating with utility owners and providing construction administration services.</p> <p><b>Carriage Canal Widening, St. Charles Parish, LA (St. Charles Parish Public Works Department):</b> Project Manager and performed civil design for the canal widening project located in St. Charles Parish. The project scope of work includes developing design plans, specifications, and bid documents as well as performing construction administration and resident inspection services.</p> <p><b>Milneburg Group A, New Orleans, LA (New Orleans DPW):</b> Performed Construction Administration of full reconstruction of four blocks. Mott MacDonald conducted detailed field surveys to identify locations and extents of damage that has occurred as a result of natural disasters. Mott MacDonald is responsible for providing data regarding features to be reconstructed in order to obtain FEMA funds. The project scope of work includes conducting topographic and boundary surveys, developing preliminary design plans, final plans and specifications, and bid documents for use in the reconstruction of damaged roadways, curbs, utilities, and driveways.</p> <p><b>Airbus Final Assembly Line (FAL)-USA Program Management, Brookley Aeroplex, Mobile, AL (HPM):</b> The overall project consists of the provision of Professional Program Management Services for the construction of Airbus's first Final Assembly Line (FAL) in the United States. The project infrastructure includes enabling works, aircraft hangars and related support facilities, airfield pavements, management offices and ancillary buildings, parking lots, and landscaping. The project encompasses an area of approximately 90 acres. Assisted in the Civil the design of the Enabling Works Phase of the project which included mass grading, site erosion control and installation of permanent drainage structures as bypass systems and the permanent outfall system into Mobile Bay. Was responsible for the design of the Civil Bridging Documents for three design build packages. Assisted with peer reviews of design submittals, procurement of design consultants, and permitting assistance and oversight.</p>

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

**Gulf Coast High Speed Rail Corridor Passenger Rail Station Plan Development and Architectural Design Services, Mobile, AL (City of Mobile):** Assistant Project Manager responsible for managing the site planning/conceptual design and architectural design services in support of a new Gulf Coast High Speed Rail Corridor-Passenger Rail facility in downtown Mobile, which includes a documented analysis of the existing site and site constraints, existing freight rail system, proposed passenger rail service and a new passenger rail terminal. Responsible for the Civil Design of the site, including drainage and access analysis.

**Canterbury Creek Restoration, Daphne, AL (MBNEP):** Project Manager and Engineer of Record. This project consists of stream stabilization using natural stream restoration techniques. The project is located in Daphne, AL.

**City of Daphne Recreation Fields Trione Sport Complex, Daphne, AL (City of Daphne):** Civil design support. Alongside the Project Manager, the team provided engineering and architectural design services for the proposed parking area, multiuse fields and concessions and maintenance buildings at Trione Park. Design services included three multiuse fields, access drives, parking lots, lighting, landscaping, irrigation, site utilities including water, sewer, electrical and drainage. Design also included concessions and maintenance buildings and corresponding electrical, mechanical and other components for the proposed buildings.

**Baldwin County Emergency Repairs, Baldwin County, AL:** Civil design support. Mott MacDonald was selected by Baldwin County to replace drainage structures that were damaged from flooding in 2015 in Lillian, AL and Silverhill, AL. Assisted in providing inspection services for the duration of the project. She also compiled the files and records for the project.

**Donette Drainage, Baldwin County, Daphne, AL:** Construction Inspection. Mott MacDonald was selected by Baldwin County to place drainage structures in the Lake Forest neighborhood in Daphne, AL. Provided inspection services for the duration of the project.

**Roseland Outfall, Semmes, AL (Mobile County Commission):** Engineer of Record. Located in Semmes, AL, Mott MacDonald was tasked to perform an emergency repair of a severely eroded outfall ditch and a failing underground pipe network that was affecting adjacent homes in the subdivision. Our team coordinated with Army Corps of Engineers for permitting of a stream restoration that will stabilize and enhance the outfall ditch.

**D'Olive Creek Restoration, Baldwin County, AL (MBNEP):** Civil design support. The project includes stream stabilization design, construction oversight, and long-term monitoring by Mott MacDonald. The team established a control baseline, property boundaries and stream centerline as well as provided topographic and cross section survey. The design implemented features used in natural stream restoration, including employing natural rock and log structures for stabilization and modification of the stream to resemble a natural riffle, run, and pool profile. The new design also provided the stream with a larger, shallower floodplain allowing easier and more effective energy dissipation for higher flows. This design will decrease erosion rates and improve habitat. Assisted the development of bid documents, completion of training in Applied Fluvial Geomorphology.



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Kathryn DePippo, PE, ENV SP, Senior Project Engineer</b>
<b>Project Assignment:</b>
Project Engineer - Green Infrastructure Lead
<b>Name of Firm with which associated:</b>
Mott MacDonald
<b>Years' experience with this Firm:</b>
With the firm: 13      With other firms: N/A
<b>Education: Degree(s)/Year/Specialization</b>
MS, 2011, Civil Engineering; BS, 2010, Civil Engineering
<b>Active registration: Year first registered/discipline:</b>
Professional Engineer: 2015, NY #095187; 2022, NJ #24GE05794800 Envision Sustainability Professional, 2014
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Kathryn has experience in the practice of water resources engineering, including stormwater management and green infrastructure projects. Ms. DePippo's stormwater management and green infrastructure expertise led to an invitation to present at the 2017 Urban Drainage Group conference of the Chartered Institution of Water and Environmental Management (CIWEM) in the United Kingdom. She is involved in all aspects of project development, from initial conceptual phase through final delivery, including the preparation of design documents, permitting materials, cost estimates, and specifications.</p> <p><b>Green Infrastructure/Porous Pavement Installations - Bronx River and Westchester Creek Watershed, New York City Department of Design and Construction (NYCDDC), Bronx, NY:</b> Project Manager for the evaluation, design, and implementation of porous pavement concrete panels (PPCPs). As part of NYCDEP's Green Infrastructure Program, the agency has expanded the standard designs to include porous concrete panels for locations throughout the city where other green infrastructure practices are not sufficient. The project scope includes a siting analysis for ideal PPCP locations, geotechnical investigations to determine soil suitability, and design of approximately 50,000 lf of porous pavement. Responsibilities include the completion of the siting analysis, execution of suitability evaluations through geographic information system (GIS) mapping, subcontractor onboarding and management, and production of construction contract documents.</p> <p><b>Green Infrastructure Program - Newtown Creek, New York City Department of Environmental Protection/ New York City Economic Development Corporation (NYCDEP/NYCEDC), Brooklyn, NY:</b> Project Manager for the evaluation, design, and implementation of green infrastructure practices at schools, parks, and housing authority locations. Responsibilities include ongoing client communication and reporting, schedule development, coordinating subconsultants, preparing invoices, and the preparation review of design submittals, including reports, drawings, and specifications. The designs include two subsurface storage systems at an elementary school and 11 subsurface storage systems at New York City Housing Authority (NYCHA) properties.</p> <p><b>Green Infrastructure Program (BB-005), New York City Department of Environmental Protection (NYDEP), Jackson Heights, Queens, NY:</b> Project Engineer responsible for the design of over 100 right-of-way bioswales, stormwater greenstreets, and right-of-way greenstrips across a 500-acre area. Additional responsibilities include quality control of each drawing package submittal, coordination with various utility and city agencies, and overseeing client review meetings. Responsible for the management of the geotechnical investigation phase, which included over 350 boring and permeability tests along city streets and oversight of five construction crews. Additional responsibilities include site walkthroughs to identify potential locations for right-of-way bioswales and stormwater green streets, preparing boring plans, and data management.</p>

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

**Kelly Drive Green Stormwater Infrastructure, Philadelphia Streets Department/City of Philadelphia, Philadelphia, PA:** Project Engineer for the design of stormwater bioretention areas along a highly trafficked city trail and state road. The design included an hydraulic analysis of the existing area, including a steep ridge and roadway adjacent to the Schuylkill River. Responsibilities included sizing calculations for the proposed bioswales and check dams, cost estimates, and drawing production.

**Northern Liberties Flood Relief Program Phases IV, V, and VI, Philadelphia Water Department/City of Philadelphia, PA:** Assisted in the conceptual design and calculations for Green Stormwater Infrastructure as (GSI) part of the Northern Liberties Flood Relief Program. Developed cost estimates for each phase of the project, which involves large box sewer reconstruction on Laurel Street and Germantown Avenue, and incorporates stormwater improvements as part of the street restoration. Green stormwater infrastructure includes stormwater trenches in the footway which will infiltrate and/or detain the first inch of runoff from the right-of-way.

**Green Streets Stormwater Program, West Philadelphia Phases IV and V, Philadelphia Water Department/City of Philadelphia, PA:** Assisted in the design of several projects as part of the City's Long Term Combined Sewer Overflow (CSO) Control Plan. Responsibilities included developing drawings, cost estimates, and specifications. The designs utilized infiltration and evapotranspiration through landscaping, cascading bioretention basins in a large traffic island, sidewalk planter boxes, and stone storage trenches incorporating tree plantings for evapotranspiration.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>	
<b>Name &amp; Title:</b>	
Kevin Morgan, PE, Senior Engineer - Civil	
<b>Project Assignment:</b>	
Project Engineer - Stormwater Support	
<b>Name of Firm with which associated:</b>	
Mott MacDonald	
<b>Years' experience with this Firm:</b>	
With the firm: 13      With other firms: 12	
<b>Education: Degree(s)/Year/Specialization</b>	
BS, 1998, Civil Engineering	
<b>Active registration: Year first registered/discipline:</b>	
Professional Engineer: 2009, AL #30426; 2010, FL #71350	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<p>Kevin is a senior project manager and transportation engineer. His experience includes providing drainage, general civil, and projects ranging from dredge and fill permitting activities to roadway drainage design. Mr. Morgan has also successfully completed numerous pond siting reports for a wide range of projects with Mott MacDonald.</p> <p><b>Langley Avenue Roundabout, City of Pensacola, Pensacola, FL:</b> Project Engineer for designing and preparing construction documents for converting a local intersection to a roundabout for traffic claiming, reduce accidents, and stormwater improvements. The roundabout included pedestrian sidewalks, crosswalks, bio-swales, signage, and landscaping. Services included roadway and drainage design, utility coordination, and permitting. Prepared design documents, construction cost quantities, design plans and stormwater pollution prevention plans.</p> <p><b>Robinson Estates and Arbor Place Subdivisions, SNS Realty, Pace, FL:</b> Senior Project Manager for the new development of over 250 residential lots on a 145-acre parcel of land. Tasks included subdivision platting, permitting, and construction review. The development required close coordination with Santa Rosa County due to the need for property re-zoning and the drainage problems in the area. To address the drainage impacts for the project in light of the known flooding issues, the development was designed to meet the 10-year pre-development runoff conditions in the 100-year post development event. The project includes the design of over 2 miles of roadway with concrete sidewalk, utility design, and installation of a sanitary lift station and section of low-pressure sewer.</p> <p><b>Camp Branch Tributary Drainage Hazard Mitigation, City of Bonifay, Bonifay, FL:</b> Senior Project Manager. This FEMA funded project will alleviate flooding of an evacuation route through Bonifay's downtown, as well as flooding at the waste water treatment plant based on 25-year events. Aspects of the project include drainage basin modeling and analysis, and engineering design related to stormwater conveyance facilities such as bridges, major culverts, piping, stabilized ditch reconstruction, and highway infrastructure. Our team worked closely with FEMA to submit an application for the Hazard Mitigation Grant Program.</p> <p><b>John King Road Improvements, Okaloosa County, Crestview, FL:</b> Senior Project Manager. Responsible for design of \$2.2M roadway improvements to add lanes and expand capacity of the County road. Roadway improvements will include horizontal and vertical geometry, drainage, stormwater pond, and utility coordination. This was completed under Okaloosa County's Engineering Services Contract C14-2080-PW.</p> <p><b>Pavement Testing and Pavement Management Services, Jefferson Parish, Jefferson Parish, LA:</b> The specific scope of services includes road testing, data gathering, pavement analysis and inventory update of streets owned by the Parish of Jefferson. Principal sub to Fugro.</p> <p><b>Main Street Improvements, City of Pensacola, Pensacola, FL:</b> Engineer of Record. Engineered for traffic calming and pedestrian safety, coupled with a lush landscaping design, this project transformed an industrial four-lane artery into an aesthetic, pedestrian-friendly multi-modal corridor that connects the historic downtown shopping and restaurant district with City Hall and the new Community Maritime Park. It features wide corner plazas with ornamental plantings, wall seating, and crosswalks and lights at each plaza.</p>	

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

**9th Avenue Drainage Improvements, City of Pensacola, Pensacola, FL:** Project Engineer for designing and preparing construction documents for resiliency improvements of 9th Avenue during larger storm events and future sea level raise. This project will raise the roadway, on-street parking, and sidewalks on 9th Avenue to help minimize the effects of water stages and climate change. Drainage inlets and a new storm drain outfall will be installed adjacent to the existing outfall to increase capacity of the City's drainage system.

**Olive Road West Resurfacing, Escambia County, Pensacola, FL:** Project Engineer for designing and preparing construction documents for approximately 2.1 miles of two-lane undivided rural roadway along the existing Olive Road corridor. The roadway resurfacing began just west of Sears Road and extended east to Davis Highway. Drainage improvements were made along Old Palafox Highway from Olive Road to Interstate 10, at the pipe culvert just west of Cody Lane, and at the intersection of Whitmire Drive.

**US 331 Widening, Walton County, FL. Project Engineer. The Florida Department of Transportation (FDOT) entered into an agreement with Walton County to design a segment of US 331 from Owl's Head Road to Edgewood Circle. The project was split into two separate projects:** North of Owl's Head Road to approximately 1.6 miles north near the northern property line of Nokuse Plantation; and the second at the northern property line of Nokuse Plantation which ends approximately 2.6 miles north which is just south of Edgewood Circle. These two improvement projects total approximately 4.2 miles in length. Improvements for both segments included reconstructing the existing two-lane rural undivided roadway into a new four-lane divided highway. These projects contained paved outside shoulders, a grassed median, drainage system improvements including stormwater management facilities for treatment, access management including median openings, landscaping, utility relocation, signing and pavement markings and other appropriate improvements. Segment one also include fencing and several wildlife crossing structures.

**Ramblewood Drive Drainage Project, Santa Rosa County, Gulf Breeze, FL:** Project Engineer for drainage improvements along Ramblewood Drive. Ramblewood Drive due to localized flooding which caused damage to several homes, limited residential access, and prevented emergency evacuation. Services included drainage design and analysis, and coordination of stormwater and wetland permitting. Prepared drainage design document, construction cost quantities, design plans and stormwater pollution prevention plans.



## **TEC Professional Services Questionnaire**

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Conner Wick, EI, Engineer III - Civil</b>
<b>Project Assignment:</b>
Engineer Intern - Stormwater Support
<b>Name of Firm with which associated:</b>
Mott MacDonald
<b>Years' experience with this Firm:</b>
With the firm: 4      With other firms: N/A
<b>Education: Degree(s)/Year/Specialization</b>
BS, 2020, Civil Engineering
<b>Active registration: Year first registered/discipline:</b>
Engineer Intern: 2021, LA #34873
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Conner has experience providing engineering support for a range of projects including civil/site developments, gravity stormwater systems, and roadway construction. Mr. Wick is experienced in the development of cost estimates, quantity calculations, drainage design, stormwater management plans, geometric design, erosion control, maintenance-of-traffic, preparation of specifications, and construction inspection. Mr. Wick has completed the ATSSA Traffic Control Supervisor, Technician and Flagger Work Zone Training Program.</p> <p><b>DPW661 Conti Street Reconstruction (Bourbon – N Peters), City of New Orleans, New Orleans, LA:</b> Engineer Intern provided plan development and CA assistance for the full reconstruction of Conti Street surface and subsurface infrastructure from Bourbon Street to Chartres Street. Mott MacDonald is currently coordinating the design of Phase II (Royal Street to N Peters Street) of this project alongside Entergy to complete potholing exploratory investigations after engaging the City of New Orleans, Department of Public Works, the Sewerage and Water Board of New Orleans, residents, business owners, and other local utilities. Responsibility included contractor coordination, utility coordination, utility design, answering RFI's, and reviewing pay applications.</p> <p><b>RR197 West End (Group E), City of New Orleans, New Orleans, LA:</b> Engineer Intern assisting in design services for FEMA-eligible street repairs in the West End neighborhood. Responsible for assisting in the plan development of the full reconstruction of 13 blocks along Bellaire Drive (NO Hammond Hwy – 32nd Street). The project scope of work includes conducting topographic and boundary surveys, developing preliminary design plans, final plans and specifications, and bid documents for the full reconstruction of all subsurface utilities located on Bellaire Drive (NO Hammond Hwy – 32nd Street). Designed 8" and 12" water mains, gravity sewer system, and drainage improvements. Coordinated with utility companies throughout design to identify conflict locations and coordinated with Department of Public Works and Sewerage and Water Board during the development of the plan set.</p> <p><b>RR070 Lake Terrace and Lake Oaks (Group B), City of New Orleans, New Orleans, LA:</b> Engineer Intern assisting in design services for FEMA-eligible street rehabilitation in the Lake Terrace neighborhood. Responsible for the drainage, sewer, and water design to develop preliminary design plans, final plans and specifications, and bid documents for the full reconstruction of all subsurface utilities located in nine (9) neighborhood blocks.</p> <p><b>RR130 Milneburg (Group A), City of New Orleans, New Orleans, LA:</b> Engineer Intern providing surveying, design, and construction administration assistance for the FEMA-eligible street repairs within the Milneburg neighborhood for the Department of Public Works. Responsible for answering RFI's, reviewing pay applications, coordination with local utility companies, and contractor coordination. Efforts also included daily coordination with resident inspection crews onsite for the project area. Coordinated with Sewerage and Water Board, Department of Public Works concerning ongoing construction throughout the project lifecycle.</p>

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

**RR070 Lake Terrace and Lake Oaks (Group B), City of New Orleans, New Orleans, LA:** Engineer Intern assisting in design and surveying services for FEMA-eligible street rehabilitation in the Lake Terrace neighborhood. The project scope of work includes conducting topographic and boundary surveys, drainage, sewer, and water design to develop preliminary design plans, final plans and specifications, and bid documents for the full reconstruction of all subsurface utilities located in nine (9) neighborhood blocks. Mott MacDonald is responsible for coordinating with utility owners and providing construction administration services.

**RR072 Lake Terrace and Lake Oaks (Group D), City of New Orleans, New Orleans, LA:** Engineer Intern providing construction administration assistance for FEMA-eligible street repairs in the Lake Oaks neighborhood. The project scope of work includes conducting topographic and boundary surveys, developing preliminary design plans, final plans and specifications, and bid documents for the full reconstruction of all subsurface utilities located on Oriole Street, Killdeer Street, and Jay Street. Reviewed contractor pay applications, RFI's, change orders, and coordinated with resident inspectors daily. Mott MacDonald is responsible for coordinating with utility owners and providing construction administration services.

**DPW144 Old Spanish Trail (Nottingham Dr. to Sherwood Dr.), City of New Orleans, New Orleans, LA:** Engineer Intern assisting in plan review, inspection, and construction administration services for the reconstruction of Old Spanish Trail (Nottingham Dr. to Sherwood Dr.) surface and subsurface infrastructure from Nottingham Drive to Sherwood Drive. Coordinated with the construction contractor through construction and local utility companies to identify unknown utilities and resolve within the field.

**Carriage Canal Widening, St. Charles Parish, LA:** Engineer Intern provided specification development and design review assistance for the canal widening drainage project along the Carriage Canal. Assisted in canal cross sectional detailing.

**LAX MSC South, Los Angeles World Airports, Los Angeles, CA:** Engineer Intern assisting in the design of LAX MSC South preliminary and final grading plans. Coordinated with other consultants to ensure proper design. Coordinated with multiple Mott MacDonald offices from around the world on different elements within the project scope. The project scope involves building the MSC-South concourse and all the different design group involved such as Civil, Water, Sanitary Sewer, Pavement & Apron Demolition, etc.

## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
<b>Name &amp; Title:</b>	
Lucy Lyons, EI, Engineer II - Civil	
<b>Project Assignment:</b>	
Engineer Intern - Stormwater Support	
<b>Name of Firm with which associated:</b>	
Mott MacDonald	
<b>Years' experience with this Firm:</b>	
With the firm: 2                      With other firms: N/A	
<b>Education: Degree(s)/Year/Specialization</b>	
BS, 2022, Civil Engineering	
<b>Active registration: Year first registered/discipline:</b>	
Engineer Intern: 2023, LA #EI.0035352	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<p>Lucy joined Mott MacDonald in 2023 and has experience providing engineering support for a range of projects including civil/site developments, lift stations, gravity stormwater systems, and roadway construction within both Louisiana and Florida. She is experienced in the development of cost estimates, quantity calculations, pressure pipe design, preparation of specifications, and construction inspection.</p> <p><b>DPW661 Conti Street Rehabilitation (Bourbon Street to North Peters Street), City of New Orleans, New Orleans, LA:</b> Engineer Intern provided plan development assistance for the full reconstruction of Conti Street surface and subsurface infrastructure from Royal to N Peters. Responsible for the water design associated with the project to replace the existing 12-inch and 30-inch water main including water meters, valves, and hydrants. Coordinating the design phase alongside Entergy to complete potholing exploratory investigations after engaging the City of New Orleans, Department of Public Works, the Sewerage and Water Board of New Orleans, residents, business owners, and other local utilities.</p> <p><b>DPW760 Bourbon Street Bollard Assessment &amp; Replacement, City of New Orleans, New Orleans, LA:</b> Engineer Intern for the public safety assessment and bollard alternative replacement design for Bourbon Street (Canal – Dumaine). Responsibilities included public outreach coordination with NOPD, VCC, French Quarter Management District, Homeland Security, Department of Public Works, and Sewerage and Water Board throughout the design and construction phase of the project. Identified bollard alternatives for the replacement of the existing bollard systems on Bourbon Street. Coordinated with local utility companies to avoid conflicts with the proposed design alternative. Currently assisting with construction administration services reviewing contractor pay applications, RFI's, pre-pour inspections, and inspection crew coordination.</p> <p><b>RR070 Lake Terrace and Lake Oaks (Group B), City of New Orleans, New Orleans, LA:</b> Engineer Intern assisting in design services for FEMA-eligible street rehabilitation in the Lake Terrace neighborhood. Responsibilities include developing preliminary design plans, final plans and specifications, and bid documents for the full reconstruction of all subsurface utilities located in nine (9) neighborhood blocks. Coordinating with utility owners (Entergy, AT&amp;T, Cox) to identify conflicts with the project limits.</p> <p><b>RR130 Milneburg (Group A), City of New Orleans, New Orleans, LA:</b> Engineer Intern providing construction administration assistance for the FEMA-eligible street repairs within the Milneburg neighborhood for the Department of Public Works. Responsible for answering RFI's, reviewing pay applications, coordination with local utility companies, and contractor coordination. Efforts also included daily coordination with resident inspection crews onsite for the project area. Coordinated with Sewerage and Water Board, Department of Public Works concerning ongoing construction throughout the project lifecycle.</p> <p><b>RR216 East Carrolton Group B &amp; C, New Orleans, LA:</b> Engineer Intern provided field inspection services for the full reconstruction of roadway, drainage, sewer, and water infrastructure within the Carrolton neighborhood as part of the \$30M full reconstruction RR216 project. Verified contractor was following plans and specifications accordingly throughout construction while documenting efforts through Procore software.</p>	

## **TEC Professional Services Questionnaire**

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Jason Harkins, RLA, LLA, Principal Landscape Architect</b>
<b>Project Assignment:</b>
Landscape Architect - Green Infrastructure Support
<b>Name of Firm with which associated:</b>
Mott MacDonald
<b>Years' experience with this Firm:</b>
With the firm: 19      With other firms: 1
<b>Education: Degree(s)/Year/Specialization</b>
BS, 2005, Landscape Architecture; AA, 2000, Computer Information Systems
<b>Active registration: Year first registered/discipline:</b>
Licensed Landscape Architect: 2011, NJ #21AS00109800 Registered Landscape Architect: 2016, NY #002572-1; 2016, PA #LA003194
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Jason is responsible for the management and design of site/landscape projects, from concept design through construction. He also assist in the development of high-quality visual renderings. He has developed considerable professional experience in landscape architecture, site planning, and master planning. He has been involved in a wide range of projects including municipal park and recreation planning and design, linear paths, green infrastructure projects, private, commercial, and residential site development, and wetland restorations for both private and governmental clients.</p> <p><b>Trumbull Street Park, Trumbull Street Flood Control Project, City of Elizabeth, Union County, NJ:</b> Lead Landscape Architect responsible for site design, including site layout, grading, and landscaping/lighting, for the park portion of the Trumbull Street Flood Control Project. The park includes a large rain garden split up by pathways that direct users through the rain gardens, enhancing the neighborhood aesthetics and providing an educational green infrastructure installation for the City.</p> <p><b>Green Stormwater Infrastructure (GSI) – Newtown Creek Area, New York City Economic Development Corp., Brooklyn, NY:</b> Responsible for GSI planning, including tributary drainage analyses, management of field data and associated plans/database, and geotechnical submission for more than 700 soil borings. Services also include the preparation of contract drawings and specifications for the installation of more than 200 right-of-way bioswales and stormwater bump-outs.</p> <p><b>North Union Streetscape Improvements, City of Olean, Cattaraugus County, NY:</b> Lead Landscape Designer for this "Complete Green Street" project, responsible for the design of landscape improvements for all planting areas along the corridor including street tree/median plantings, as well as the stormwater bumpouts included at intersections and crosswalk areas. This project reduced the number of travel lanes on North Union Street from four to two by adding bicycle lanes and a landscaped center media. Seven traffic signals were removed and replaced with five roundabouts. Distinctive street lighting, Green Stormwater Infrastructure (GSI), and other streetscape amenities were also included.</p> <p><b>Green Stormwater Infrastructure (GSI):</b> Morris Park, Philadelphia Water Department/City of Philadelphia, PA: Lead Landscape Architect for landscape design of 20 green stormwater practices, including bumpouts, rain gardens, tree trenches, and storage trenches, which are expected to manage and treat over 8 acres of impervious area.</p> <p><b>Green Stormwater Infrastructure (GSI):</b> Frankford Creek Greenway West, Philadelphia Water Department/City of Philadelphia, PA: Lead Landscape Architect for the conceptual and detailed design of multiple green stormwater practices around Frankford Creek. The project primarily includes bumpouts as well as a tree trench. The nine proposed GSI systems are expected to manage and treat approximately 8 acres of impervious area.</p>



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

**Green Stormwater Infrastructure (GSI):** West Callowhill Raingarden, Philadelphia Water Department/City of Philadelphia, PA: Lead Landscape Architect responsible for the landscape design for multiple green stormwater practices along West Callowhill Street. The project, which includes eight GSI systems, including a rain garden, tree trenches, and bumpouts, is expected to manage and treat runoff from approximately 6 acres of impervious area.

**Philadelphia Green Schoolyards, City of Philadelphia, PA:** Prepared conceptual plans and presentation graphics for the “greening” opportunities at five school sites within the City. Green techniques include porous pavement/ playground surfacing, street trees, infiltration basins, rain gardens, orchards, and community gardens.

**West Philadelphia Green Streets, City of Philadelphia, PA:** Responsible for planting design and the preparation of renderings for the West Philadelphia phase of the City’s Green Streets Program. Responsible for the design and plant selection for the streetscape and raised infiltration planter boxes at four areas within the City, and the creation of a rain garden within an existing traffic island.

## **TEC Professional Services Questionnaire**

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Paul Worley, CPM, Principal Specialist - Rail and Transit</b>
<b>Project Assignment:</b>
Rail Right-of-Way Coordinator
<b>Name of Firm with which associated:</b>
Mott MacDonald
<b>Years' experience with this Firm:</b>
With the firm: 7      With other firms: 30+
<b>Education: Degree(s)/Year/Specialization</b>
BA, 1988, Communications
<b>Active registration: Year first registered/discipline:</b>
Certified Public Manager: 2000, NC
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Paul is a Rail and Transit Lead for Mott MacDonald in North America and has thorough knowledge of multimodal transportation issues from a public sector point of view, with a focus on rail passenger and freight services, safety, funding, and public policy. In addition to his experience as Director of the North Carolina Department of Transportation (NCDOT) Rail Division and working with public and private clients across the country, Paul brings 36 years of experience in the management of rail programs and projects involving federal, state, and local governments. He is known for developing productive and lasting collaborations among governments and rail industry stakeholders that have resulted in improved system safety, delivery of capacity improvements, and economic growth.</p> <p><b>Kingfish Yard Design, NOPB, New Orleans, LA:</b> Assisted in coordination efforts for the development of construction plans for the proposed Kingfish storage yard. This project included the rehabilitation of existing track and the addition of four new storage tracks each approximately 2800 ft long. Mott MacDonald also assisted in grant submittal documentation.</p> <p><b>France Street Yard, NOPB, New Orleans, LA:</b> Assisted in coordination efforts for the development of a conceptual master plan for the expansion of France Street Yard. The project included the addition of 229 hopper cars.</p> <p><b>Agreement Development Support, NCDOT, Raleigh, NC:</b> Provided advisory support and expertise in the delivery of rail projects, operations, and acquisition of rail corridors. Developed negotiation strategies, funding approaches, agreement key terms and conditions, service plan requirements, and governance approaches.</p> <p><b>Public Funding Strategy Support, R. J. Corman Railroad Group, Nicholasville, KY:</b> Supported the railroad's efforts in acquiring a 43-mile branch line and leasing 20 miles of track from Norfolk Southern in North Carolina to create the company's 19th railroad, the Raleigh &amp; Fayetteville Railroad. Developed public funding strategies and presentation of a capital plan to improve the railroad. Convened and supported meetings with Office of the NC Speaker of the House, and members of the NC General Assembly and leaders at the NC Department of Transportation.</p> <p><b>Crossing Safety Improvements, Norfolk Southern Railway, Virginia Corridors:</b> Provided subject matter expert support in federal and state crossing policy and diagnostic studies for potential crossing safety initiatives. Work included consolidation of three crossings.</p> <p><b>Virginia Rail Passenger Corridors Acquisition, Virginia Department of Rail and Public Transportation, Richmond, VA:</b> Provided advisory support and expertise in the acquisition of rail corridors, including more than 350 miles of railroad right-of-way and 225 miles of track from CSX Transportation between Washington, DC, and Richmond, VA; Doswell and Clifton Forge, VA, and Petersburg, VA into North Carolina. Developed negotiation strategies, agreement key terms and conditions, service plan requirements, and governance approaches.</p>

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

**North Carolina Piedmont Improvement Program, NC Department of Transportation, Rail Division, Raleigh-Charlotte, NC:** Led project executive management team for the implementation of the \$554M Piedmont Improvement Program (PIP) between Charlotte and Raleigh on the North Carolina Railroad Company (NCRR)/Norfolk Southern (NS) corridor. Involved approximately 22 main projects and some 45 sub-projects in the program with the outcome of extra capacity, safety and efficiency for two additional round trips of Piedmont passenger service. Development, review, and negotiation of essential agreements between parties including NCDOT, NS and NCRR.

**Sugar Creek Road Grade Separation, NC Department of Transportation, Rail Division, Charlotte, NC:** Executive level management of Sugar Creek Road Grade Separation to improve efficiency, safety, and mobility at one of the state's busiest rail crossings that involves both freight, passenger, and light rail transit. Reviewed agreements for work and funding that involved the transit authority, railroad, municipality and NCDOT.

**O-Line Commuter Rail Alignment Study, NC Department of Transportation Rail Division and Charlotte Area Transit System (CATS), Charlotte to Mooresville, NC:** Executive level management of white paper to review the proposed Red Line commuter rail project and define the various challenges facing the Red Line project as per stated Norfolk Southern passenger policy and their anticipated and strategic use of the rail line for freight operations. Presented findings to federal, state and local officials.

**Connector Track and New Yard, NC Department of Transportation, Rail Division, Greenville, NC:** Led and directed project team in a \$8.2M program to identify solutions to trains blocking critical at-grade crossings, plan improvements, negotiate agreements with railroad partners, and design/construct rail line connectors and other track improvements in Greenville, NC, to streamline rail operations and eliminate the blocking of crossings by freight trains. Study work included analysis of rail operations and a Traffic Separation Study.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Christopher Riley, Designer V - Civil</b>
<b>Project Assignment:</b>
CADD Technician
<b>Name of Firm with which associated:</b>
Mott MacDonald
<b>Years' experience with this Firm:</b>
With the firm: 17      With other firms: 8
<b>Education: Degree(s)/Year/Specialization</b>
AS, 2000, Drafting and Design Technology; Completed 3-day land development training course, CAD Resources, Inc. 2000
<b>Active registration: Year first registered/discipline:</b>
N/A
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Christopher has served as a designer in the Mott MacDonald team since 2007. His work includes many stormwater management, master planning, 3D modeling, hydrologic/hydraulic watershed modeling, water quality, drainage improvement, and flood control projects. His work also includes numerous roadway design/restoration projects, utility relocation/upgrade projects, and private, commercial and residential developments. Mr. Riley has extensive expertise in AutoCAD, Land Desktop, Civil 3D and AutoTurn, Architectural Desktop, and Microstation.</p> <p><b>RR070 Lake Terrace and Oaks Group B, New Orleans Department of Public Works, New Orleans, LA:</b> CADD Technician assisting with drainage design and alignment of the project corridor utilizing Civil 3D.</p> <p><b>RR072 Lake Terrace and Oaks Group D, New Orleans Department of Public Works, New Orleans, LA:</b> CADD Technician assisting with drainage and roadway alignment throughout the project life cycle utilizing Civil3D.</p> <p><b>DPW661 Conti Street Reconstruction, New Orleans Department of Public Works, New Orleans, LA:</b> CADD Technician assisting with the drainage and water design alignment for the project utilizing Civil 3D.</p> <p><b>Eleven Mile Creek Drainage Basin Plan and Stormwater Management Plan, Escambia County, FL:</b> CADD technician/Designer for the third of three total studies performed by Mott MacDonald within the basin. This study focused on the upper Eleven Mile Creek watershed and assessed existing drainage and conveyance systems, updated existing model, provided a detailed study to identify and assess existing and potential flood prone areas, developed conceptual design solutions, prepared an economic analysis of designs, recommended the most viable solutions, and prioritized the solutions based on overall impact, feasibility, and economics.</p> <p><b>Meigs Road Drainage Improvements, Okaloosa County Public Works, Shalimar, FL:</b> CADD technician/Designer for this roadway improvement project. Mr. White provided civil engineering design, environmental assessment and permitting assistance for improvements to Meigs Drive.</p> <p><b>Pensacola Stormwater Master Plan Update, City of Pensacola, Pensacola, FL:</b> CADD technician/Designer for the City of Pensacola's Stormwater Master Plan, which was last updated in 1987. This project involved gathering existing data, topographic survey of drainage structures and subsurface systems, topographic survey of basin areas, and hydrologic and hydraulic modeling.</p> <p><b>Beachview Drive Stormwater Improvements, Okaloosa County, Fort Walton Beach, FL:</b> CADD technician/Designer for alternatives analysis and design. The project involved replacement of the existing stormwater system and design of proposed outfall to Garnier Bayou. This was completed under Okaloosa County's Engineering Services Contract C14-2080-PW.</p>



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

**Camp Branch Tributary Drainage Hazard Mitigation, City of Bonifay, Bonifay, FL:** CADD technician/Designer. This FEMA funded project will alleviate flooding of an evacuation route through Bonifay's downtown, as well as flooding at the waste water treatment plant based on 25-year events. Aspects of the project include drainage basin modeling and analysis, and engineering design related to stormwater conveyance facilities such as bridges, major culverts, piping, stabilized ditch reconstruction, and highway infrastructure. Our team worked closely with FEMA to submit an application for the Hazard Mitigation Grant Program.

**Gulf Breeze Drainage Improvements, City of Gulf Breeze, FL:** CADD technician/Designer for various drainage improvements to the City, including the construction of approximately 6,050 LF of stormwater collection/transmission facilities, n/transmission facilities (of which approximately 1,850 LF function as exfiltration trench), 1 new stormwater lift station and the interconnection of 2 existing stormwater lift stations with control upgrades, approximately 1,646 LF of 12 stormwater force main, and two new stormwater. The project areas lie within two established residential neighborhoods with a significant amount of underground utilities.

**Catholic High Basin Stormwater Management Master Plan, Escambia County Commission, Escambia County, FL:** Stormwater management master plan for a 1.5 square mile, highly developed watershed which included watershed modeling, inventory of existing drainage conveyance systems, identification of flooding areas, conceptual design solutions, assessment of future developed conditions, water quality issues, economic analysis, prioritization, and recommended improvement plan.

**Beverly Parkway Basin Stormwater Management Master Plan, Escambia County Commission, Escambia County, FL:** Stormwater management master plan for a 6.2 square mile, highly developed watershed which included watershed modeling, inventory of existing drainage conveyance systems, identification of flooding areas, conceptual design solutions, assessment of future developed conditions, water quality issues, economic analysis, prioritization, and recommended improvement plan.

**Warrington Basin Stormwater Management Master Plan, Escambia County Commission, Escambia County, FL:** Stormwater management master plan for a 14.6 square mile watershed which included watershed modeling, inventory of existing drainage conveyance systems, identification of flooding areas, conceptual design solutions, assessment of future developed conditions, water quality issues, economic analysis, prioritization, and recommended improvement plan.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Gordon Edwards III, Designer V - Civil</b>
<b>Project Assignment:</b>
CADD Technician
<b>Name of Firm with which associated:</b>
Mott MacDonald
<b>Years' experience with this Firm:</b>
With the firm: 32      With other firms: 7
<b>Education: Degree(s)/Year/Specialization</b>
High School, 1985
<b>Active registration: Year first registered/discipline:</b>
N/A
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Gordon has served as a designer in the Mott MacDonald team since 1992. His work includes many stormwater management, master planning, hydrologic/hydraulic watershed modeling, water quality, drainage improvement, and flood control projects. Furthermore, he has assisted in permitting projects with the various agencies such as local governmental authorities, utility authorities. Mr. Edwards has extensive expertise with AutoCAD Civil 3D, Partner, EDS, EDSC, Eagle Point, Soft Desk, and Land Desktop. He has specialized expertise in AutoTURN up to AutoTURN 8.0 and AeroTURN up to AeroTURN Pro 4 as well as experience in Architectural Desktop and Microstation V8i.</p> <p><b>DPW760 Bourbon Street Bollards Assessment and Replacement, New Orleans Department of Public Works, New Orleans, Louisiana:</b> CAD Designer for the City of New Orleans roadway project associated with replacing roadway, bollards, and sidewalks along Bourbon Street and Frenchmen Street. Also responsible for the grading and geometric layout components along Frenchmen (Esplanade – Chartres).</p> <p><b>Yoakum Phase II Power Transmission line, Yoakum, Needville, Texas:</b> CAD Coordinator/Designer, responsible for 8 separate civil site designs (Power, Pipeline Launch, Meter and Receiver Stations) and driveway/temporary driveway permit drawing packages for Texas Department of Transportation. Including typical sections for pipeline route re-grading along the Brazos Canal.</p> <p><b>Muscogee Road (County Road 184 – State Route 112), Escambia County, Florida:</b> Stormwater drainage design for roadway widening and paving improvements to Muscogee Road for Escambia County Engineering Department.</p> <p><b>Alcaniz Street Corridor Redevelopment, Pensacola, Florida:</b> Drainage and roadway design for Alcaniz Street. Obtained the appropriate permits from Florida Department of Transportation and the City of Pensacola for stormwater, sidewalk and roadway construction.</p> <p><b>Daniel Drive/ Shoreline Drive Realignment, Gulf Breeze, Florida:</b> Drainage and roadway design for Daniel Drive. Obtained the appropriate permits from Florida Department of Transportation and the City of Gulf Breeze for right-of-way acquisition, storm water drainage, sidewalk and roadway construction, roadway lane realignment and traffic signalization.</p> <p><b>Woodbine Springs Drainage Improvements, Pace, Florida:</b> Drainage Improvements for Pattock Street and Abel Avenue in Woodbine Springs Plantation Subdivision in Pace, Florida.</p> <p><b>Ferry Pass Zone-II, Phase-IV Drainage Improvements / Binkley Street Sewer Expansion, Escambia County Engineering Department, Escambia County, Florida:</b> Designer responsible for modeling, design and permitting of a joint project between Escambia County and ECUA involving the design and construction of approximately 9,050 lf of 8" gravity sanitary sewer and approximately 9,620 lf of storm sewer within an existing residential development containing approximately 138 acres. Permitting services included an environmental resource permit through the North West Florida Water Management District and sanitary sewer permit through ECUA.</p> <p><b>Piedmont Road Emergency Repairs, City of Pensacola, Florida:</b> Emergency roadway design for roadway reconstruction, stormwater system rehabilitation and paving improvements to Piedmont Road which was destroyed during a 500-year rainfall event, for City of Pensacola Engineering Department.</p>


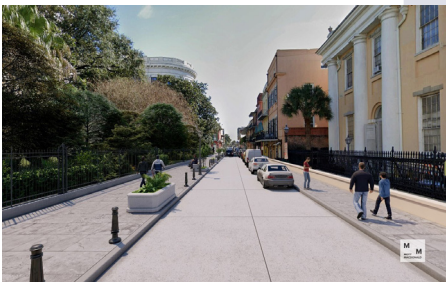
## TEC Professional Services Questionnaire

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

### PROJECT NO. 1

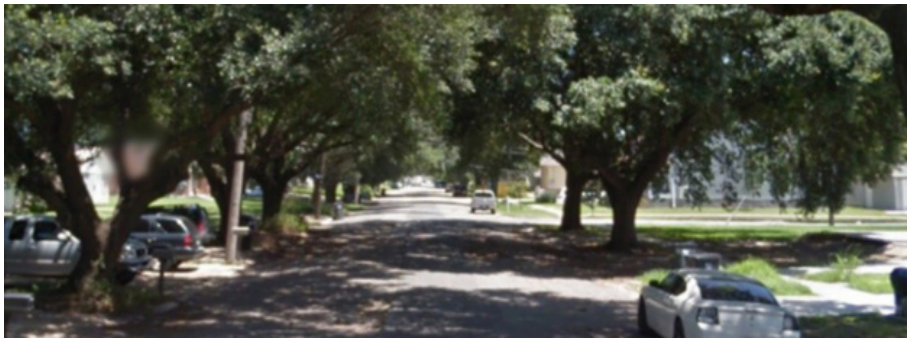
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>Bourbon Street Reconstruction (Phases I and II)</b> New Orleans, LA</p> <p>City of New Orleans Public Works Khalid Saleh, PhD 1300 Perdido St., Suite 6W03 New Orleans, LA 70112 504.658.8208</p> <p style="background-color: #f0f0f0; padding: 5px;">"The condition of Bourbon Street and its underground infrastructure has been rapidly declining for decades, But you know what? No longer." New Orleans Mayor LaToya Cantrell</p> <div style="display: flex; justify-content: space-around;">   </div> <p style="background-color: #f0f0f0; padding: 5px;">"It's an important project because this is a massive part of New Orleans history." Ramsey Green, Deputy CAO of Infrastructure and Chief Resilience Officer, City of New Orleans, 2019</p>	<p><b>Revitalizing an aging infrastructure for today's environment</b></p> <p><b>Opportunity</b> The City of New Orleans needed to fully reconstruct eight blocks of utilities underneath Bourbon Street without detracting from the historical aspects of the French Quarter. Mott MacDonald was selected to creatively address the sensitive design needs. Understanding that Bourbon Street had not undergone any reconstruction in over 90 years, the City of New Orleans saw a need for a major infrastructure improvement.</p> <p><b>Solution</b> Mott MacDonald devised a strategy to tackle the time limitations and uncertainties associated with the existing underground utilities and infrastructure during the design phase through exploratory surveys and extensive utility as-built coordination with utility companies. This step was instrumental to minimize the negative effects of construction on stakeholders along the corridor.</p> <p>Throughout both the design and construction stages of the project, engaging with stakeholders was of utmost importance for its success. Mott MacDonald created visual representations of the proposed enhancements for public gatherings and conducted regular community outreach meetings on-site during construction. These efforts aimed to address public concerns and garner support throughout the entire duration of the project.</p> <p>A unique construction sequence was created to guarantee businesses could continue operating and pedestrians could safely navigate through each block under construction without being affected by the ongoing improvements related to the project.</p> <p><b>Outcome</b> Mott MacDonald not only aimed to replace the current infrastructure and enhance public safety, but also recognized an opportunity to enhance sustainability and promote environmental awareness. This was achieved by designing customized stormwater inlet grates within the project boundaries to minimize litter from Bourbon Street entering the new stormwater system. This initiative not only contributes to a healthier environment but also alleviates maintenance issues faced by the City's operations.</p> <p>There were numerous positive outcomes as a result of the completion of this project, including: economic growth, improved public safety, value-added and insightful utility upgrades, stormwater system meeting today's environment, and bringing the City of New Orleans a final project design that will survive the challenging conditions on Bourbon Street.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2020	\$20.7M	\$2.5M

## TEC Professional Services Questionnaire

<b>PROJECT NO. 2</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p><b>Conti Street Reconstruction (Bourbon Street to N Peters Street)</b> New Orleans, LA</p> <p>City of New Orleans Public Works Khalid Saleh, PhD 1300 Perdido St., Suite 6W03 New Orleans, LA 70112 504.658.8208</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;">   </div>	<p><b>Opportunity</b> The City of New Orleans required a comprehensive reconstruction of four blocks of drainage systems beneath Conti Street to address the drainage issues observed in the corridor. Mott MacDonald was chosen due to our extensive expertise in utility design within the French Quarter of New Orleans and our capability to integrate a 10-year drainage design within an urban setting characterized by utility constraints.</p> <p><b>Solution</b> Mott MacDonald initiated the assessment of underground utility limitations by reaching out to all utility companies situated along the corridor to pinpoint design constraints for the new drainage system meeting a 10-year design standard. Following this initial field assessment, a comprehensive basin analysis was conducted to delineate the drainage area contributing to the project boundaries. This analysis revealed a drainage basin encompassing several blocks beyond the project limits, which would subsequently be modeled using rational method, standards outlined in the LADOTD Hydraulic Manual, and StormCAD modeling software. After establishing the new drainage alignment, further coordination with utility companies along the corridor was essential to confirm the feasibility of the proposed design for construction. Recognizing potential economic repercussions of construction delays on local businesses underscored the importance of conducting a constructability review. This review was crucial in identifying the locations and sizes of existing utility facilities within the right-of-way and assessing any potential conflicts with the proposed design. Following potholing and surveying conducted by the utility companies, the drainage design was adjusted to circumvent conflicts where utilities could not be relocated.</p> <p>Throughout both the design and construction phases, stakeholder engagement was critical to the project's success. Mott MacDonald developed visual representations of the proposed improvements for public meetings and held regular community outreach sessions on-site during construction. These initiatives were designed to address public concerns and build support throughout the project's duration. A distinctive construction sequence was devised to ensure that businesses could remain operational and that pedestrians could safely navigate through each block undergoing construction, all while the project improvements were being implemented.</p> <p><b>Outcome</b> Mott MacDonald sought not only to replace existing infrastructure but also to seize the opportunity to enhance sustainability and foster environmental consciousness. This objective was realized through the design of tailored stormwater inlet grates within the project area, aimed at reducing the amount of litter from the French Quarter that enters the new stormwater system. This initiative not only promotes a healthier environment but also mitigates the maintenance challenges encountered by the City's operations. The completion of this project will yielded numerous positive outcomes, including economic development, enhanced public safety, valuable and innovative utility upgrades, a stormwater system that aligns with contemporary environmental standards, and a final project design for the City of New Orleans that is resilient to the demanding conditions of the French Quarter.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2025	\$9M	\$1.2M



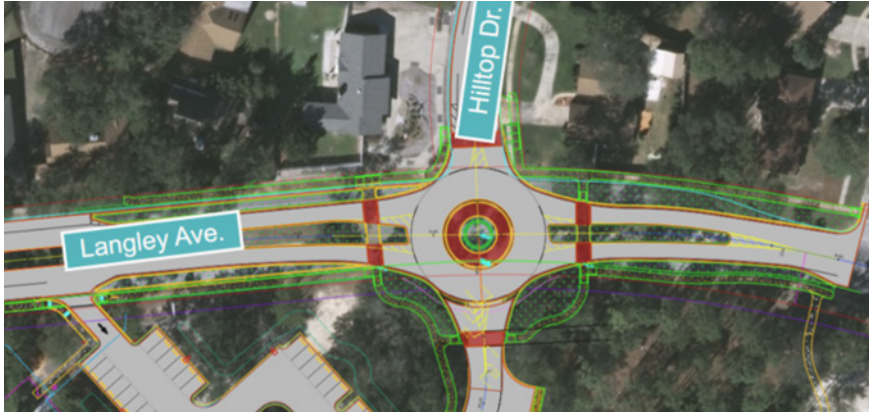
## TEC Professional Services Questionnaire

PROJECT NO. 3						
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:					
<p><b>RR197 West End Group E</b> New Orleans, LA</p> <p>City of New Orleans Department of Public Works Khalid Saleh, PhD 1300 Perdido St., Suite 6W03 New Orleans, LA 70112 504.685.8208</p>	<p><b>Opportunity</b> On August 29, 2005, Hurricane Katrina caused significant breaches in the flood walls of New Orleans, Louisiana. In response to this catastrophic incident, FEMA allocated funds to the City of New Orleans under the JIRR Program to aid in the recovery of communities affected by the storm. The West End neighborhood experienced severe damage due to the failure of the 17th Street Canal flood wall. The City engaged Mott MacDonald to develop a comprehensive reconstruction plan for 14 continuous blocks of Bellaire Drive, extending from 32nd Street to Old Hammond Highway.</p> <p><b>Solution</b> Mott MacDonald developed a new underground drainage system that complies with the Louisiana Department of Transportation and Development's (LADOTD) 10-year design standard for the designated project area. Subsequent field evaluations revealed areas of unmaintained green infrastructure within the project limits, specifically between Spencer Avenue and Hay Place. After consultations with the U.S. Army Corps of Engineers (USACE) and the City, this segment of the project was incorporated into the overall scope to enhance the area, which included the installation of French drains between the sidewalk and the roadway edge. A thorough basin analysis was performed for the project limits, which was modeled using the rational method, in accordance with the guidelines set forth in the LADOTD Hydraulic Manual, as well as utilizing StormCAD modeling software.</p> <p>Once the new drainage alignment was established, it was imperative to engage in further coordination with Parks and Parkways to ensure the proposed design's feasibility for construction. Given the presence of historic large oak trees along the roadway edges, considerations for root pruning and adjustments to the roadway were prioritized due to concerns regarding the placement of inlets.</p> <p><b>Outcome</b> Mott MacDonald's final design encompassed a new drainage system capable of handling a 10-year design storm while also maintaining the neighborhoods historic character and existing landscaping. The completion of this project will yield a stormwater system that aligns with contemporary environmental standards for the City of New Orleans that is resilient to the area.</p> <div style="text-align: center;">  </div>					
<p><b>Completion Date (Actual or estimated):</b></p> <p style="text-align: center;">2026</p>	<p style="text-align: center;"><b>Estimated Cost:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%; padding: 5px;">Entire Project:</th> <th style="width: 70%; padding: 5px;">Work for which Firm was Responsible:</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 5px;">\$16M</td> <td style="text-align: center; padding: 5px;">\$550,000</td> </tr> </tbody> </table>		Entire Project:	Work for which Firm was Responsible:	\$16M	\$550,000
Entire Project:	Work for which Firm was Responsible:					
\$16M	\$550,000					

## TEC Professional Services Questionnaire

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>Aransas Country CDBG Program</b> Aransas, TX</p> <p>Aransas County, Texas Darrell Seibert, PE County Engineer 1931 FM 2165 Rockport, TX 78382 361.790.0152</p> 	<p><b>Opportunity</b> In 2017, Hurricane Harvey inflicted severe flooding upon Aransas County, Texas, as a consequence of the substantial rainfall brought by the sluggishly advancing storm. This led to the saturation of numerous drainage systems, resulting in extensive damage to homes throughout the region. In response, Aransas County successfully obtained a Community Development Block Grant (CDBG) to facilitate recovery initiatives aimed at improving stormwater management and reconstructing damaged roadways.</p> <p><b>Solution</b> Mott MacDonald has been delivering services to numerous <b>counties and cities across the Southeast for CDBG projects since the early 1980s</b>, showcasing the necessary experience and proficiency to execute engineering services for grant projects and associated programs within the stipulated timeframe of Aransas County. Mott MacDonald was appointed as the engineering firm responsible for overseeing Aransas County's CDBG program for the subsequent projects.</p> <ul style="list-style-type: none"> <li>• Copano Heights      • Rattlesnake Point Road</li> <li>• Holiday Beach      • Ruby Allen Street</li> <li>• Liden Street      • Southeast Aransas County Drainage</li> <li>• Loop 1781      • Southwest Aransas County Drainage</li> </ul> <p>Each initiative was crucial for the recovery of the region and for enhancing future stormwater resilience. Mott MacDonald conducted <b>hydrology and hydraulics (H&amp;H) modeling</b> for the drainage areas associated with each initiative to pinpoint drainage issues and develop designs that would effectively address the anticipated design storm. Each initiative presented its own distinct challenges related to drainage. This included box culvert replacements along state routes such as Liden Street, the widening of drainage canals and the installation of control structures for Ruby Allen, as well as multiple box culvert replacements for the Southwest Aransas County project. Mott MacDonald employed a collaborative approach through a multi-office drainage team for both drainage and roadway designs, facilitating a concurrent project execution. Following the completion of the designs, Mott MacDonald provided support during the bidding process and oversaw construction, as well as assisted in managing the oversight of the <b>Community Development Block Grant (CDBG) funding</b>.</p> <p><b>Outcome</b> Mott MacDonald has supported Aransas County in the successful execution of eight projects financed by CDBG, aimed at enhancing stormwater management resilience in regions heavily impacted by Hurricane Harvey.</p>	
<p><b>Completion Date (Actual or estimated):</b></p>	<p><b>Estimated Cost:</b></p>	
	<p><b>Entire Project:</b></p>	<p><b>Work for which Firm was Responsible:</b></p>
2025	\$36.8M	\$5.1M

## TEC Professional Services Questionnaire

PROJECT NO. 5								
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:							
<p><b>Langley Avenue Roundabout</b> Pensacola, FL</p> <p>City of Pensacola Brad Hinote, PE City Engineer 222 West Main Street Pensacola, FL 32502 850.435.1685 bradhinote@cityofpensacola.com</p>	<p><b>Opportunity</b> The junction of Langley Avenue and Hilltop Drive encountered significant inbound traffic attributed to the proximity of the Hitzman Park complex. Furthermore, the City faced flooding issues downstream of the intersection, a consequence of extensive impervious surfaces in the area.</p> <p><b>Solution</b> The City of Pensacola engaged Mott MacDonald to devise strategies aimed at alleviating traffic issues and mitigating flooding observed downstream of the project site. A roundabout was conceptualized to ensure safe access to and from the Hitzman Park complex, while also managing the traffic flow along Langley Avenue. The Langley Avenue Roundabout is the first roundabout in the City of Pensacola.</p> <p>The project featured numerous aesthetic improvements, such as vibrant landscaping, brick paver surfaces, and low-impact development techniques, which encompass bioswales for effective stormwater management. Mott MacDonald was responsible for the design and preparation of construction documents aimed at transforming a local intersection into a roundabout. The deliverables for this project included the design of roadway geometry, drainage calculations, construction cost estimates, construction plans, traffic control plans, permitting, and assistance with bidding.</p> <p><b>Outcome</b> The City of Pensacola has implemented improvements to create a safer intersection for daily traffic, aimed at alleviating congestion and minimizing flooding through the use of green infrastructure features. The bioswales incorporated in this initiative will manage roadway runoff by utilizing nearby swales and native vegetation to effectively capture and filter the runoff during typical storm events.</p>							
								
<p><b>Completion Date (Actual or estimated):</b></p>	<p style="text-align: center;"><b>Estimated Cost:</b></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;">2020</td> <td style="text-align: center; padding: 5px;">\$633,000</td> </tr> <tr> <td style="text-align: center; padding: 5px;"></td> <td style="text-align: center; padding: 5px;">\$43,000</td> </tr> </table>		Entire Project:	Work for which Firm was Responsible:	2020	\$633,000		\$43,000
Entire Project:	Work for which Firm was Responsible:							
2020	\$633,000							
	\$43,000							

## TEC Professional Services Questionnaire

PROJECT NO. 6	
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:
<p><b>Green Stormwater Infrastructure in Philadelphia</b> Philadelphia, PA</p> <p>City of Philadelphia Water Department (PWD) Jillian Simmons Director of Green Stormwater and Stream Design Unit 1101 Market Street Jefferson Center, 2nd Floor Philadelphia, PA 19107 215.685.4963</p>	<p><b>Opportunity</b> Like many older US cities, more than half of Philadelphia is served by “combined” sewers that carry both sewage and stormwater. Heavy rain or snow can cause combined sewer overflows (CSOs) to fill basements or discharge into local rivers through the city’s 164 outfalls.</p> <p>In 2009, Mayor Michael Nutter of Philadelphia announced Greenworks, an ambitious plan to make his city the greenest in the country. Among the Greenworks initiatives was a stormwater management plan called “Green City, Clean Waters.”</p> <p>Rather than build multimillion-dollar tunnels to store excess stormwater, the city decided to use green techniques including <b>stormwater tree trenches, stormwater curb extensions or “bump-outs,” stormwater planters, pervious pavement, green roofs, rain barrels, rain gardens, and flow-through planters.</b></p> <p><b>Solution</b> The City of Philadelphia is at the forefront of GSI implementation and Mott MacDonald has been involved since the beginning. Mott MacDonald has worked closely with the PWD in planning, creating designs and construction support for the stormwater management delivering the PWD’s vision. Mott MacDonald began designing pilot projects for the City in 2009 to flush out new conceptual ideas to evaluate if they are feasible so the City can avoid unnecessary CSO Program expenses. Since Mott MacDonald has been involved with the Philadelphia GSI program from the very beginning, the team has been able to adjust to meet the ever-evolving criteria of the program. The Mott MacDonald Team has helped to streamline the City’s program by designing master GSI standards. Mott MacDonald has been working with the City in an ongoing capacity since 2009 on a variety of projects, some of which are summarized below:</p> <ul style="list-style-type: none"> <li>• <b>Northern Liberties:</b> Stormwater control measures included bump-outs, <b>infiltration trenches that water trees and store stormwater, and sidewalk planters that collect drainage from the street utilizing native species for planters and sidewalk trees.</b></li> <li>• <b>West Philadelphia:</b> Redesigned of traffic islands into a <b>multi-pool rain garden planted with native grasses and shrubs.</b> Runoff is conducted into the rain garden through decorative trench drains connected to the street through curb cuts. Mott MacDonald also <b>designed tree trenches within the sidewalks, including waterproof barriers</b> where trenches were close to buildings and utilities. Raised planter boxes captured street runoff, <b>enhanced the streetscape,</b> and provided a teaching tool for a nearby school.</li> <li>• <b>Eastwick-Elmwood Park:</b> Green Stormwater Infrastructure design and related park improvements in several area of West Philadelphia. Elements included <b>tree trenches within the sidewalks of each site, planted with native street trees.</b> Trees and other plant material incorporated into these systems provided general improvement to this region of Philadelphia and offered the additional value of helping reduce the urban heat island.</li> </ul>



## TEC Professional Services Questionnaire

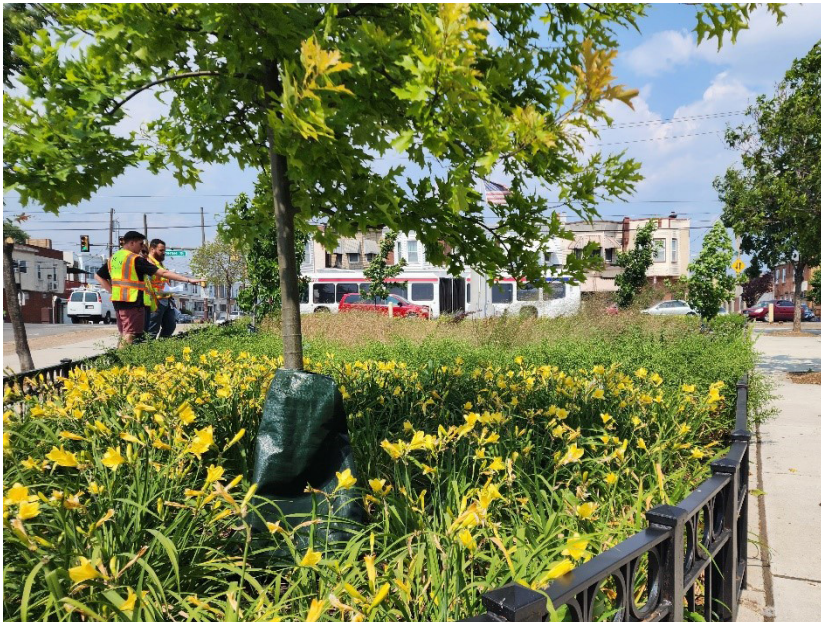
### PROJECT NO. 6

- **Clearview Park and Morris Estate:** The project included two **stormwater tree trench systems** along Cheltenham Avenue, a pedestrian path across the new **rain garden** at Clearview Park, and two rain gardens connected in series at Morris Estate Park.
- **Lawncrest and Tarken recreation centers:** The project included new **stormwater detention and infiltration systems** that temporarily stored/infiltrated street and sidewalk runoff during rain events and **enhanced the streetscape with trees and other plantings**. This project involved a total of 14 systems and created approximately 26 Greened Acres.
- **Aramingo/port Richmond and Francis Myers:** The project was designed to mitigate the impact of the impervious cover (streets and sidewalks) by designing a **large cascading rain garden** in an existing traffic island.

#### Outcome

“Our commitment to sustainability is making Philadelphia a green city, attracting clean tech companies and increasing quality of life in our neighborhoods,” said Mayor Nutter in 2011. According to PWD, the Green City, Clean Waters program offers a variety of benefits:

- **Environmental:** Including benefits such as reducing carbon dioxide, removing pollutants, decreasing sewer overflows, reducing heat island impacts, and improving air quality.
- **Economic:** The program creates local jobs, increases property values, promotes local investments, and promotes recreation and associated tourism.
- **Social:** Improving the urban land and waterways provides better recreation areas for hiking, biking, boating, fishing, and enjoying nature. The program collaborates with local residents empowering communities and the added greenery has been found to foster social equity. Mott MacDonald is proud to be a part of the team contributing to these improvements in the City of Philadelphia.




Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Ongoing	\$81M	\$18M



## TEC Professional Services Questionnaire

PROJECT NO. 7						
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:					
<p><b>North Union Street Transformation</b>  Olean, NY</p> <p>City of Olean  Mary George  Project Manager  101 East State Street  Olean, NY 14760-0668  716.376.5647</p> <div style="display: flex; flex-direction: column; align-items: center;">   </div>	<p style="color: #808000;">Complete streets design improves environment, mobility, accessibility, and economic vitality</p> <p style="color: #008000;"><b>Mott MacDonald was the prime consultant for a team of engineers, architects, landscape architects and planners completing the scoping and preliminary design phases of the North Union Street “complete street” transformation.</b></p> <p><b>Opportunity</b>  The North Union Street Transformation converted a four-lane automobile oriented commercial district to a two-lane “complete street” that improves mobility and accessibility for all users, increases economic vitality, provides a welcoming destination for commerce, and improves the environment with innovative stormwater treatment. The transformation of the street included a center median, bicycle lanes and permeable parking pavement. Existing pull-in diagonal parking was changed to back-in diagonal parking to improve safety for drivers and bicyclists and roundabouts replaced existing traffic signals to calm traffic and reduce delay and crashes along the corridor.</p> <p><b>Solution</b>  Mott MacDonald guided the development of streetscape designs options and presented four alternatives to the public and City leaders to gauge support for various design elements. We designed green stormwater infrastructure (GSI), evaluated traffic operations and guided the comprehensive public outreach initiative. We assisted the City in applying for funding from transportation sources and will also prepare grant applications for stormwater/sustainable development funding opportunities.</p> <p><b>Outcome</b>  The streetscape designs incorporate “complete streets” concepts to encourage pedestrian and bicycle usage, calm traffic, and spur economic activity. The preferred alternative included five modern roundabouts to promote traffic calming and improve safety. Aesthetically pleasing, functional stormwater treatments was incorporated to treat runoff and enhance the streetscape by using appropriate materials such as permeable pavements, landscaped bioretention areas and stormwater tree trenches.</p> <p>GSI infrastructure will reduce inflow to the current combined stormwater overflow system. Bicycling and walking improvements help promote a healthy, active lifestyle. The replacement of traffic signals with modern roundabouts will improve traffic flow, reducing fuel consumption and vehicular emissions.</p> <div style="text-align: center;">  </div>					
<p><b>Completion Date (Actual or estimated):</b></p> <p style="text-align: center;">2013</p>	<p style="text-align: center;"><b>Estimated Cost:</b></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;">\$10M</td> <td style="text-align: center; padding: 5px;">\$219,412</td> </tr> </table>		Entire Project:	Work for which Firm was Responsible:	\$10M	\$219,412
Entire Project:	Work for which Firm was Responsible:					
\$10M	\$219,412					

## TEC Professional Services Questionnaire

PROJECT NO. 8							
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:						
<p><b>Bowery Bay Green Infrastructure</b> Queens, NY</p> <p>New York Department of Environmental Protection (NYCDEP) Adriana Kocovic Director, Office of Green Infrastructure 59-17 Junction Blvd Flushing, NY 11368 718.595.4828</p>	<p><b>Opportunity</b> The drainage area of Bowery Bay is densely developed, with very few unpaved or green areas, causing stormwater runoff from impervious surfaces. As part of a broader effort to control combined sewer overflows (CSOs) in New York City, this area was targeted for the development of green infrastructure.</p> <p><b>Solution</b> Mott MacDonald was assigned approximately 600 acres within the Tributary Drainage Area of Bowery Bay, Queens, and tasked with the development of two major phases for the development of green infrastructure: Site Selection, Design and Design Service During Construction. Mott MacDonald's scope of work includes project management, field assessment and inspection, drainage area analysis, geotechnical assessment, surveying, and design.</p> <p>The Site Selection phase included the development of a block-by-block drainage area analysis for all 600 acres, identification of potential green infrastructure locations and types, geotechnical investigations and surveying.</p> <p>Over 400 geotechnical borings and permeability tests were conducted throughout this highly urbanized area of New York City to determine the feasibility of the potential green infrastructure locations. Once the green infrastructure locations proved sufficient for stormwater capacity, infiltration and/or storage of runoff, the areas were then surveyed to prepare for the Design Phase.</p> <p>The Design Phase included the development of construction plans, bidding documents and cost estimates for over 100 right-of-way bioswales, infiltration basins and greenstrips. Additionally, coordination with adjacent green infrastructure projects allowed for contractor efficiencies and collaboration. The project is currently in the construction phase and Mott MacDonald continues to provide assistance as part of Design Services During Construction phase of the project including tracking of assets, contractor completions and verification of maintenance services by the contractor.</p> <p><b>Outcome</b> The project goal is to reduce CSOs and improve the quality of receiving water bodies, while removing CSO runoff from the sewer system through detention, retention, infiltration, and evapotranspiration. Reducing discharges to the City's sewers and waterways lessens the flow load to the wastewater treatment plant and protects the waterway ecosystem.</p> <p>The main source of pollutants in urban watersheds is typically stormwater runoff. Green infrastructure is a resilient and low-energy approach to the reduction of combined sewer overflows. Green infrastructure captures precipitation and returns it to the soil before it causes flooding or overflowing sewers. Bioswales, stormwater "bumpouts," pervious paving, rain gardens, and other techniques reduce demand on sewer systems, improve air quality, and create a cleaner, more attractive urban environment.</p>						
							
	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center; padding: 5px;">Estimated Cost:</th> </tr> <tr> <th style="width: 50%; padding: 5px;">Entire Project:</th> <th style="width: 50%; padding: 5px;">Work for which Firm was Responsible:</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 5px;">Ongoing</td> <td style="text-align: center; padding: 5px;">\$4M</td> </tr> </tbody> </table>		Estimated Cost:		Entire Project:	Work for which Firm was Responsible:	Ongoing
Estimated Cost:							
Entire Project:	Work for which Firm was Responsible:						
Ongoing	\$4M						

## TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>Newtown Creek Green Infrastructure</b> Brooklyn, NY</p> <p>New York City Economic Development Corp. (NYCEDC) Brian Larsen 110 William Street New York, NY 10038 212.312.3740 blarsen@nycedc.com</p>	<p><b>Opportunity</b> Newtown Creek was one of the most polluted industrial sites in America. Fifteen feet of polluted sludge covered the creek bed from years of industrial shipping.</p> <p>According to the Newtown Creek Alliance, which is dedicated to restoring the area, the creek has no natural flow because its freshwater sources have been covered over. <i>"Flow exclusively consists of contaminated stormwater runoff, carrying trash from numerous bridges, unsewered and wholly paved streets and industrial sites, waste transfer stations, and combined sewer overflows (CSOs) from the city's sewer system."</i></p> <p>To help reduce the last of these impacts and address the provisions of the Clean Water Act, the New York City Department of Environmental Protection implemented a Green Infrastructure Plan.</p> <p><b>Solution</b> The NYCEDC green infrastructure project called for <b>installing right-of-way bioswales and stormwater green streets</b> throughout a portion of the Newtown Creek CSO tributary area in Brooklyn. Bioswales and stormwater green streets capture rainwater runoff that would otherwise enter combined sewers, allowing it to infiltrate the soil and be absorbed by vegetation. <b>Impervious surfaces are replaced with permeable substrate, organic topsoil, and vegetation.</b></p> <p>The project required working in a densely developed urban community with a mix of residential and commercial areas. Coordination with multiple city agencies and concurrent design contracts was required. An aggressive schedule required the design to be completed in less than a year. As the prime consultant, Mott MacDonald was responsible for the following:</p> <ul style="list-style-type: none"> <li>• Analysis of tributary drainage (approximately 525 acres)</li> <li>• Design of over 200 right-of-way bioswales</li> <li>• Site walkthroughs and selection</li> <li>• Geotechnical investigation</li> <li>• Bidding assistance</li> <li>• Construction oversight</li> </ul> <p><b>Outcome</b> Thanks to the efforts of various stakeholders and the design and construction of <b>over 200 green infrastructure systems</b>, the Newtown Creek Alliance says that life is returning to the creek. <i>"You can find blue crabs at the mouth, fish swim in its waters, and waterfowl are prevalent. Wetland plants are taking over the abandoned bulkheads and sediment piles."</i></p> <p>Installation of the green infrastructure systems was in 2016 and has since been doing its part in helping Newtown Creek recover. By reducing the volume and quantity of CSOs, it is improving the water quality in the creek. The planting of trees and other vegetation will improve air quality and make the area more attractive.</p>	
<p><b>Completion Date (Actual or estimated):</b></p>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
Ongoing	\$11.5M	\$3.8M



## TEC Professional Services Questionnaire

PROJECT NO. 10	
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:
<p><b>Trumbull Street Flood Control Project</b>  Elizabeth, NJ</p> <p>City of Elizabeth  John Papetti Jr.  Director of Public Works  50 Winfield Scott Plaza  Elizabeth, NJ 07201  908.820.4101</p>	<p><b>Opportunity</b>  Trumbull Street intersects with Sixth Street in Elizabeth, NJ, just west of the New Jersey Turnpike and next to a large rail yard. Frequent flooding in the area disrupts transportation between local industrial areas and nearby highways. Flooding in the Trumbull Street area was traced to a combined sewer that could not handle its flows. Mott MacDonald designed a solution that combines flood inlets and an underground tank and will offer an attractive rain garden park for local residents.</p> <p><b>Solution</b>  The City of Elizabeth retained Mott MacDonald to develop solutions to reduce the frequency and severity of flooding. Mott MacDonald created an InfoWorksCS model of the local drainage system from field-surveyed data and calibrated it to metered flows. We determined that the flooding was caused by inadequate capacity in an egg-shaped combined sewer made of brick and measuring 3 feet 9 inches wide by 5 feet 7 inches high.</p> <p>The solution was to acquire a triangular plot of land adjacent to the flooding area and install a 1.0-million-gallon subsurface concrete tank to store excess runoff until the storm abated and the flow could be pumped back to the combined sewer. The newly purchased property also serves as an opportunity to provide passive park space for the community defined by a network of <b>rain gardens</b> that capture street runoff. Runoff that exceeds the capacity of the <b>rain gardens</b> overflows to <b>subsurface storage tank</b>.</p> <p>Flood inlets located off the curb line will allow existing drainage patterns to continue until the intersection begins to flood. Once the existing system is overwhelmed, the flood inlets will convey flow to storage tank.</p> <div style="text-align: center;">  </div>

## TEC Professional Services Questionnaire

PROJECT NO. 10		
<p>Mott MacDonald provided the following services:</p> <ul style="list-style-type: none"> <li>• Secured and administered NJEIT funding</li> <li>• Hydraulic modeling and feasibility study</li> <li>• Development of conceptual plans</li> <li>• Landscape Architecture/ Public Space Design</li> <li>• Permitting services</li> <li>• Coordination with utilities</li> <li>• Subsurface geotechnical and environmental investigation</li> <li>• LSRP services to manage remedial activities for contaminated soil.</li> <li>• Construction inspection services</li> </ul> <p><b>Outcome</b></p> <p>Using a construction methodology for the underground tank that is new to the city, Mott MacDonald designed a flooding solution that would cost an estimated \$5.3 million, versus as much as \$40 million for some alternatives. The use of flood inlets achieve optimal utilization of the proposed storage facility. Pumping station controls are tied to the level in the sewer, maximizing the volume of combined sewage reaching the treatment plant. The surface will be available as a rain garden park for the enjoyment of local residents. The project will reduce the overall volume of combined sewage discharge to Newark Bay.</p>		
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2022	\$5.5M	\$873K



## 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	Mott MacDonald does not have any prior and/or on-going litigation with Jefferson Parish.
2.		
3.		
4.		

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

**The following information will elaborate on Mott MacDonald's qualifications, specifically addressing the evaluation criteria outlined in the request for Statements of Qualifications.**

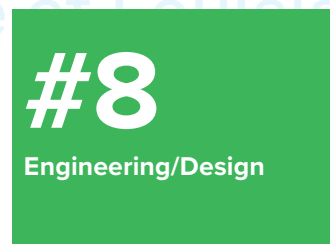
### Professional training and experience

Mott MacDonald is a leader in planning and design of Green Stormwater Infrastructure (GSI) and offers extensive engineering solutions for drainage and utility infrastructure in urban environments.

Mott MacDonald's Stormwater Management practice has engaged in every facet of design for drainage management systems, ranging from local streets to highways and bridges across North America. The ability to devise innovative solutions to design challenges, adhere to project timelines, and execute cost-effective initiatives is fundamentally rooted in the skills and expertise of our personnel.

Our clients face some of the world's most intricate challenges. As a global engineering and management firm, we face those challenges with our clients by selecting project team members with the right combination of technical expertise and local work experience. Mott MacDonald has a profound understanding of the Greater New Orleans metropolitan area, especially concerning stormwater management initiatives.

This local expertise, coupled with our capabilities in green infrastructure and urban utility design throughout various municipalities in North America, equips Jefferson Parish with a diverse array of innovative and state-of-the-art solutions to transform the Sala Avenue corridor in Westwego, Louisiana.



Engineering/Design



Stormwater/Drainage

**Figure 1.** According to Engineering News Record's 2023 ranking of top global design firms and top environmental firms.

### Green infrastructure

We are familiar with the challenges of integrating green infrastructure in corridors and designing with maintenance in mind. In order to optimize the environmental advantages and minimize the expenses associated with green infrastructure projects in the long run, it is essential to consider maintenance during the design phase of these projects. Mott MacDonald's green infrastructure experience allows us to incorporate the correct element for which the environment it is installed in. Mott MacDonald's recent expertise in Green Infrastructure (GI) components is presently being implemented across the United States and globally to address the challenges posed by heightened stormwater runoff resulting from urban development.

## TEC Professional Services Questionnaire

These efforts aim to enhance air quality and foster a cleaner, more appealing urban landscape through the utilization of various GI elements. A few examples of these elements are shown below:

- Porous pavement
- Bioswales
- Stormwater “bumpouts”
- Linear vegetation embankments
- Linear structures planter boxes
- Rain gardens
- Tree wells (silva cells or structural soil)



**Figure 2.** Temple Green Streets GSI project during construction.

### **H&H modeling**

Hydraulic and hydrologic (H&H) modeling represents a core area of expertise at Mott MacDonald. Our team possesses substantial experience with a variety of H&H modeling software, including EPASWMM, InfoWorksCS, PSCWMM, XPSWMM, EPANET, WaterGEMS, HEC-RAS, HEC-HMS, HydroCAD, and StormCAD, allowing us to tailor our approach to meet the specific requirements of each project and client standards. The stormwater management specialists at Mott MacDonald evaluate both existing and post-development runoff constraints for each corridor, identifying locations that necessitate drainage improvements.

### **CDBG experience**

Mott MacDonald recognizes the significance of effectively managing Community Development Block Grant funding and the essential procedures required to furnish the administrator with comprehensive project cost estimates, engineering documentation, construction plans, and the necessary records for the successful completion of CDBG-funded initiatives. With a track record of over 30 completed CDBG projects, Mott MacDonald is well-versed in the origins and regulations governing CDBG programs and acknowledges the critical role they will serve to Jefferson Parish.

### **Urban utility design**

Mott MacDonald has a thorough grasp of the design limitations associated with managing urban utility construction in historic areas, leveraging our vast experience in locations such as the New Orleans French Quarter, as well as in other older cities like Philadelphia and New York. We take pride in our knowledge of best practices in urban utility design, ensuring that enhancements to new facilities are evaluated for constructability. This approach guarantees that our clients receive designs that are not only cost-effective but also practical for implementation, thereby minimizing the risk of construction delays and public discontent.

### **Rail coordination**

Transportation projects involving rail right-of-way necessitate a higher level of coordination compared to typical projects. Mott MacDonald possesses specialized knowledge in railway design and coordination, catering to both public and private sector clients. The firm has a comprehensive understanding of multimodal transportation challenges from a public sector viewpoint and offers significant expertise in rail passenger and freight services, safety, funding, and public policy. In particular, familiarity with railroad crossing standards and right-of-way coordination will be crucial for the successful construction of Sala Avenue.

### **How Mott MacDonald makes the difference**

Behind every successful project is a team of dedicated professionals — engineers, project managers, landscape architects, environmental scientists, designers, and technicians—who understand that in addition to technical excellence, success depends on sustained coordination and synergy between clients, engineers, regulatory agencies, and stakeholders. Finding innovative solutions to design problems, meeting project milestones, and developing cost-effective, sustainable projects comes down to the skills and experience of our people.

## TEC Professional Services Questionnaire

Mott MacDonald offers our clients superior resources to accomplish their project goals. We capitalize on our local presence, employing skilled engineering and project managers, and enhance the project team with additional regional staff recognized as national experts in their respective fields. We have the expertise and depth of an international company while maintaining the high level of customer service and attention to quality associated with smaller firms. We've built strong, lasting relationships with clients by putting them first and ensuring the highest standards of professional ethics in everything we do.

### Size of firm

Mott MacDonald is a \$2 billion global, full-service engineering, management, and development firm and one of the world's largest employee-owned companies, with 20,000 employees and over 180 offices.

Mott MacDonald in North America stands as a dynamic entity in infrastructure development and engineering, boasting more than 60 offices and a workforce of 2,600 across the United States and Canada.



# 24

water resource  
engineers  
nationwide

# 21

civil engineers  
servicing the Gulf  
Coast Region

# 54

Professionals in  
Louisiana

## TEC Professional Services Questionnaire

### Capacity for timely completion

Mott MacDonald possesses the capacity to manage the expected tasks related to this project, taking into account both current and projected workloads as well as staff obligations.

Our organization has a substantial array of resources that can be deployed to meet the anticipated project timeline. Mott MacDonald frequently undertakes significant projects through a multi-office approach, ensuring that personnel with the appropriate skills and experience are assigned to the relevant project tasks. Consequently, beyond utilizing local resources, we possess the capability to involve staff from other offices as necessary.

### Past performance

Refer to **Section L**.

### Location

Our local office is located at 650 Poydras Street, Suite 2550, New Orleans, Louisiana.

Mott MacDonald has invested heavily in our cloud-based IT infrastructure to deliver projects effectively and successfully in a secure environment utilizing staff from multiple offices. This allows us to put the right people on each assignment regardless of where they are located, and to work together as if they were in the same office. Not only does this enable us to collaborate more effectively with internal and external stakeholders, but also helps our clients optimize workflow and meet requirements and timelines.

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

**Signature:**



**Print Name:**

David Skipper, PE

**Title:**

Senior Vice President

**Date:**

January 21, 2025

## Statement of Qualifications

### AFFIDAVIT

STATE OF Florida

PARISH/COUNTY OF Santa Rosa

BEFORE ME, the undersigned authority, personally came and appeared: \_\_\_\_\_  
David Skipper, PE, (Affiant) who after being by me duly sworn, deposed and said that  
he/she is the fully authorized Senior Vice President of Mott MacDonald (Entity),  
the party who submitted a Statement of Qualifications (SOQ) to provide engineering services for the  
Sala Avenue historic district drainage feasibility analysis and improvements (Briefly describe the services the SOQ  
will cover), to the Parish of Jefferson.

Affiant further said:

#### Campaign Contribution Disclosures

**(Choose A or B, if option A is indicated please include the required attachment):**

**Choice A** \_\_\_\_\_ Attached hereto is a list of all campaign contributions, including the date and amount of each contribution, made to current or former elected officials of the Parish of Jefferson by Entity, Affiant, and/or officers, directors and owners, including employees, owning 25% or more of the Entity during the two-year period immediately preceding the date of this affidavit or the current term of the elected official, whichever is greater. Further, Entity, Affiant, and/or Entity Owners have not made any contributions to or in support of current or former members of the Jefferson Parish Council or the Jefferson Parish President through or in the name of another person or legal entity, either directly or indirectly.

**Choice B** X there are **NO** campaign contributions made which would require disclosure under Choice A of this section.



Affiant further said:

Debt Disclosures

**(Choose A or B, if option A is indicated please include the required attachment):**

**Choice A** \_\_\_\_\_ Attached hereto is a list of all debts owed by the affiant to any elected or appointed official of the Parish of Jefferson, and any and all debts owed by any elected or appointed official of the Parish to the Affiant.

**Choice B** X \_\_\_\_\_ There are **NO** debts which would require disclosure under Choice A of this section.

Affiant further said:

Solicitation of Campaign Contribution Disclosures

**(Choose A or B, if option A is indicated please include the required attachment):**

**Choice A** \_\_\_\_\_ Attached hereto is a list of all elected officials of the Parish of Jefferson, whether still holding office at the time of the affidavit or not, where the elected official, individually, either by **telephone or by personal contact**, solicited a campaign contribution or other monetary consideration from the Entity, including the Entity's officers, directors and owners, and employees owning twenty-five percent (25%) or more of the Entity, during the two-year period immediately preceding the date the affidavit is signed. Further, to the extent known to the Affiant, the date of any such solicitation is included on the attached list.

**Choice B** X \_\_\_\_\_ there are **NO** solicitations for campaign contributions which would require disclosure under Choice A of this section.

Affiant further said:

Subcontractor Disclosures

**(Choose A or B, if option A is indicated please include the required attachment):**

**Choice A** \_\_\_\_\_ Affiant further said that attached is a listing of all subcontractors, excluding full time employees, who may assist in providing professional services for the aforementioned SOQ.

**Choice B** X \_\_\_\_\_ There are **NO** subcontractors which would require disclosure under Choice A of this section.

Affiant further said:

That Affiant has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for Affiant; and

*[The remainder of this page is intentionally left blank.]*

That no part of the contract price received by Affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for Affiant.

  
\_\_\_\_\_  
Signature of Affiant

David Skipper, PE  
\_\_\_\_\_  
Printed Name of Affiant

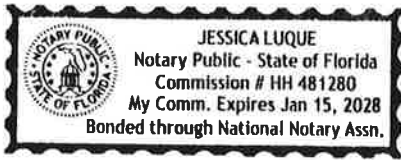
SWORN AND SUBSCRIBED TO BEFORE ME  
ON THE 21<sup>st</sup> DAY OF January, 2025.

  
\_\_\_\_\_  
Notary Public


Jessica Luque  
\_\_\_\_\_  
Printed Name of Notary


HH 481280  
\_\_\_\_\_  
Notary/Bar Roll Number


My commission expires 1/15/2028.




## TEC Professional Services Questionnaire

 <p><b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LAPELS)</b> 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com</p>
<p><b>Mr. Austin Michael Kittok</b></p> <p>License/Certificate Type - Number <b>PE.0045850</b></p> <p>Status: <b>Active</b>      Exp Date: <b>03/31/2026</b></p>
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>


 <p><b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LAPELS)</b> 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com</p>
<p><b>Mr. James Brent Rawson</b></p> <p>License/Certificate Type - Number      Expiration Date <b>PE.0022345</b>      <b>09/30/2026</b></p> <p>Status: <b>Active</b></p>
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>

 <p>Ron DeSantis, Governor</p> <p>Melanie S. Griffin, Secretary</p> <p><b>STATE OF FLORIDA</b></p> <p><b>BOARD OF PROFESSIONAL ENGINEERS</b></p> <p>THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE PROVISIONS OF CHAPTER 471, FLORIDA STATUTES</p> <p><b>WHITE, STEVEN D.</b> 4106 BERRY CIRCLE PACE FL 32571</p> <p><b>LICENSE NUMBER: PE58809</b> <b>EXPIRATION DATE: FEBRUARY 28, 2025</b></p> <p>Always verify licenses online at MyFloridaLicense.com</p> <p>Do not alter this document in any form. This is your license. It is unlawful for anyone other than the licensee to use this document.</p>
--

CLARK WILLIAM MICHAEL	
<b>LICENSEE INFO</b>	
<b>Address</b>	PHILADELPHIA PA
<b>Profession</b>	Professional Engineering (016)
<b>License Number</b>	099144
<b>Date of Licensure</b>	February 02, 2018
<b>Status</b>	Registered
<b>Registered through Date</b>	June 30, 2026
<b>Additional Qualifications</b>	• None
 <p>April 3, 2024 02:19 PM (ET)  <a href="https://www.op.nysed.gov/verification-search?licenseNumber=099144&amp;professionCode=016">https://www.op.nysed.gov/verification-search?licenseNumber=099144&amp;professionCode=016</a> </p>	



## TEC Professional Services Questionnaire



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

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

**Ms. Lila Jean Lasecki**

License/Certificate Type - Number  
**PE.0044145**

Status: **Active**

Exp Date: **03/31/2026**

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).


LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

SEE BACK FOR IMPORTANT INFORMATION

*The University of the State of New York*  
Education Department  
Office of the Professions  
**REGISTRATION CERTIFICATE**  
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License Number: 095187-01


Certificate Number: 2645892



DEPIPO KATHRYN LYNN  
1330 WILLOW AVENUE  
APT 323  
HOBOKEN NJ 07030-0000

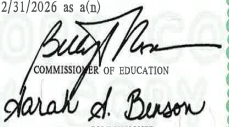
is registered to practice in New York State through 12/31/2026 as a(n)  
**PROFESSIONAL ENGINEER**

LICENSED REGISTRANT



EXECUTIVE SECRETARY

COMMISSIONER OF EDUCATION



DEPUTY COMMISSIONER  
FOR THE PROFESSIONS

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Ron DeSantis, Governor

Melanie S. Griffin, Secretary



**STATE OF FLORIDA**  
**DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION**  
**BOARD OF PROFESSIONAL ENGINEERS**

THE PROFESSIONAL ENGINEER HEREIN IS LICENSED UNDER THE  
PROVISIONS OF CHAPTER 471, FLORIDA STATUTES



**MORGAN, KEVIN M.**  
11766 ARLINGTON BLVD.  
SPANISH FORT AL 36527

**LICENSE NUMBER: PE71350**


**EXPIRATION DATE: FEBRUARY 28, 2025**

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

**Mr. Conner Bryan Wick**

License/Certificate Type - Number  
**EI.0034873**

Status: **Active**


Exp Date: **09/30/2026**

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.



## TEC Professional Services Questionnaire



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

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

**Ms. Lucy Marie Lyons**

License/Certificate Type - Number  
**EI.0035352**

Status: **Active** Exp Date: **09/30/2025**

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

THIS DOCUMENT IS PRINTED ON WATERMARKED PAPER, WITH A MULTI-COLORED BACKGROUND AND MULTIPLE SECURITY FEATURES. PLEASE VERIFY AUTHENTICITY.

**State Of New Jersey  
New Jersey Office of the Attorney General  
Division of Consumer Affairs**

THIS IS TO CERTIFY THAT THE  
Board of Architects

HAS LICENSED

**Jason R. Harkins  
17 Sherman Circle  
Somerset NJ 08873**

FOR PRACTICE IN NEW JERSEY AS A(N): **Licensed Landscape Architect**

05/13/2024 TO 05/31/2026  
VALID



Signature of Licensee/Registrant/Certificate Holder

**21AS00109800**  
LICENSE/REGISTRATION/CERTIFICATION #




ACTING DIRECTOR

*The University of the State of New York  
Education Department  
Office of the Professions*

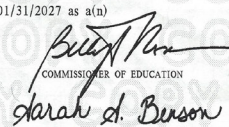
**REGISTRATION CERTIFICATE**  
*Do not accept a copy of this certificate*

License Number: 002572-01

Certificate Number: 2699978



HARKINS JASON ROBERT  
17 SHERMAN CIRCLE  
SOMERSET NJ 08873-0000

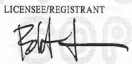


COMMISSIONER OF EDUCATION

*Starah d. Benson*  
DEPUTY COMMISSIONER  
FOR THE PROFESSIONS

is registered to practice in New York State through 01/31/2027 as a(n)  
**LANDSCAPE ARCHITECT**

LICENSEE/REGISTRANT



EXECUTIVE SECRETARY

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## TEC Professional Services Questionnaire

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

Professional Engineering Services for the  
**Sala Avenue Historic Distric Drainage Feasibility Analysis and Improvements Project**

**SOQ 25-005 | Resolution No. 145576**

**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:**

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

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

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

## TEC Professional Services Questionnaire

<b>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.</b>		
1. N/A		
2.		
<b>H. Has this JOINT-VENTURE previously worked together? Please check:</b> YES_____ NO_____ N/A		
<b>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.</b>		
Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. N/A		
2.		
3.		
<b>J. Please specify the total number of support personnel that may assist in the completion of the Project:</b> 30 (all personnel will be available for assignment to the project)		

## TEC Professional Services Questionnaire

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

### PROFESSIONAL IN CHARGE OF PROJECT:

**Name & Title:**

**Chad M. Poché, P.E.**

Executive Vice President / Registered Professional Geotechnical Engineer

**Project Assignment:**

Geotechnical Engineer / Principal In Charge

**Name of Firm with which associated:**



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

**Years' experience with this Firm:**

14 years (founded Gulf South in 2011);  
32 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.

**Bonnabel Boulevard Drainage Improvements (Phase 1; Veterans Canal to Metairie Road) Geotechnical Exploration Report, Metairie, Jefferson Parish, LA.** Gulf South prepared a Geotechnical Exploration Report for the project which included the installation of a below grade box culvert. The study included drilling three soil test borings and the performance of soil mechanics laboratory tests to evaluate the soil's physical characteristics. Engineering analyses were made and based on field and lab test data to develop recommendations for the project. (\$6,500 (fee); 2024)

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


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

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

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

**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)

## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
<b>Name &amp; Title:</b>	
<b>Bryson S. Beard, EIT, ACI</b> Associate Geotechnical Engineer/Field Engineer	
<b>Project Assignment:</b>	
Associate Geotechnical Engineer/Field Engineer	
<b>Name of Firm with which associated:</b>	
<div style="display: flex; align-items: center;">  <div> <b>ENGINEERING AND TESTING, INC.</b>            Geotechnical &amp; Materials Consultants         </div> </div>	
<b>Years' experience with this Firm:</b>	
3 years (joined Gulf South in 2022); 4 years total (2021)	<i>Gulf South Engineering and Testing, Inc.   2022 to present</i> <i>TetraTech, Inc.   2021 to 2022</i>
<b>Education: Degree(s)/Year/Specialization:</b>	
B.S., Geological Engineering (2021; University of Mississippi)	
<b>Active Registration: Year first registered/discipline:</b>	
Louisiana P.E. License Passed October 2023 Georgia, Engineering Intern (No. EIT029180, 2022)	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<p>Bryson S. Beard, EIT, 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><b>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.</b></p> <p><b>Bonnabel Boulevard Drainage Improvements (Phase 1; Veterans Canal to Metairie Road) Geotechnical Exploration Report, Metairie, Jefferson Parish, LA.</b> Gulf South prepared a Geotechnical Exploration Report for the project which included the installation of a below grade box culvert. The study included drilling three soil test borings and the performance of soil mechanics laboratory tests to evaluate the soil's physical characteristics. Engineering analyses were made and based on field and lab test data to develop recommendations for the project. (\$6,500 (fee); 2024)</p>	

## TEC Professional Services Questionnaire

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

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

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

**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)

**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)

**Roosevelt Boulevard Roadway Pavement Improvements (West Metairie Ave. to West Napoleon Ave.), City of Kenner, Jefferson Parish, LA.** Geotechnical investigation for paved roadway improvements for Roosevelt Boulevard between West Metairie Avenue and West Napoleon Avenue in Kenner, LA. Gulf South's scope of services includes drilling 14 borings (depths of 10 feet below pavement surface), laboratory testing, engineering analyses (including pavement design) and general construction procedures and recommendations. (\$14,000 (fee); 2022)

## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
<b>Name &amp; Title:</b>	
<b>Joseph H. “Trey” Binder, III, ACI</b> Laboratory Manager	
<b>Project Assignment:</b>	
Laboratory Manager; Laboratory Technician	
<b>Name of Firm with which associated:</b>	
<div style="display: flex; align-items: center;">  <div> <b>ENGINEERING AND TESTING, INC.</b>            Geotechnical &amp; Materials Consultants         </div> </div>	
<b>Years’ experience with this Firm:</b>	
14 years (joined Gulf South in 2011); 14 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>
<b>Education: Degree(s)/Year/Specialization:</b>	
A.D., General Studies (2006; Nunez Community College)	
<b>Active Registration: Year first registered/discipline:</b>	
HAZMAT Awareness HAZMAT Operations Training ACI Aggregate Base Testing Technician ACI Concrete Strength Testing Technician	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<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><b>Bonnabel Boulevard Drainage Improvements (Phase 1; Veterans Canal to Metairie Road) Geotechnical Exploration Report, Metairie, Jefferson Parish, LA.</b> Gulf South prepared a Geotechnical Exploration Report for the project which included the installation of a below grade box culvert. Study included drilling three soil test borings and the performance of soil mechanics lab tests to evaluate the soil’s physical characteristics. Engineering analyses were made and based on field and lab test data to develop recommendations for the project. (\$6,500 (fee); 2024)</p> <p><b>Drainage Infrastructure Improvements, South Avondale Subdivision, Avondale, Jefferson Parish, LA.</b> Geotechnical investigation for drainage improvements on S. Jamie Boulevard in Avondale, LA. Gulf South's scope includes drilling five undisturbed soil borings to depths of 20 feet,</p>	



## TEC Professional Services Questionnaire

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

lab testing, and engineering analyses including allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction procedures and recommendations. (\$7,000 (fee); 2018)

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

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


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

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

**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)

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

## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
<b>Name &amp; Title:</b>	
<b>Eric A. Paille, C.E.T., ACI</b> Construction Services Manager	
<b>Project Assignment:</b>	
Construction Services Manager	
<b>Name of Firm with which associated:</b>	
<div style="display: flex; align-items: center;">  <div> <b>ENGINEERING AND TESTING, INC.</b>            Geotechnical &amp; Materials Consultants         </div> </div>	
<b>Years' experience with this Firm:</b>	
14 years (joined Gulf South in 2011); 37 years total (1988)	<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>
<b>Education: Degree(s)/Year/Specialization:</b>	
High School Diploma	
<b>Active Registration: Year first registered/discipline:</b>	
<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>	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<p>Eric A. Paille, C.E.T., ACI, serves as Gulf South's Construction Services Manager as well as the manager of Gulf South's Gonzales, LA 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. <b>Mr. Paille is one of the most knowledgeable people in our industry.</b></p> <p><b>FEMA Submerged Roads Program (CMT): Phase 3, Metairie, Jefferson Parish, LA.</b> Perform asphalt and roadway testing and inspection as requested. Scope of services provided by Gulf South included asphalt and/or concrete testing and inspection, field density tests, on-site inspection and documentation, and laboratory testing. Gulf South also provided asphalt batch plant inspection. (\$10,000 (fee); 2016)</p> <p><b>Metairie Lawn Drainage Improvements, Jefferson Parish, LA.</b> 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))</p>	

## TEC Professional Services Questionnaire

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

**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)

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

**Submerged Roads Program: District 5, Project 1, Jefferson Parish, LA.** Gulf South performed asphalt testing and inspection as instructed by the client. (\$12,000 (fee); 2013)

**Academy Drive Development – New Roadway & Infrastructure Improvements, City of New Orleans, LA.** Geotechnical investigation for new subdivision infrastructure improvements which consist of new roadways and subsurface sewer and drainage. Gulf South drilled 3 borings to 10 feet in depth and perform laboratory testing and geotechnical engineering analyses consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, rigid paving design recommendations, and general construction recommendations. (\$3,500 (fee); 2013)


**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)

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

**FEMA Submerged Roads Program (CMT): Phase 4, Metairie, Jefferson Parish, LA.** Project consisted of the construction of new paving and roadways for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Our scope of services included performing concrete and asphalt testing and inspection, and earthwork testing and inspection including soil sampling and field density tests. (\$7,500 (fee); 2015)

**New Channel and Roads for Fish Bayou Control Structure (Alligator Bayou Road), Ascension Parish, LA.** Geotechnical engineering services for the construction of a flood control structure and paved roadway improvements along Alligator Bayou Road within Ascension Parish, LA. Gulf South's scope includes drilling five undisturbed soil borings to depths of 6 & 30 feet below the ground surface, laboratory testing, engineering analyses (pavement recommendations and slope stability analyses) and general construction procedures and recommendations. (\$7,900 (fee); 2021)

## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
<b>Name &amp; Title:</b>	
<b>Brandon A. Paille, ACI</b> Construction Materials Testing (CMT) Supervisor/Project Manager	
<b>Project Assignment:</b>	
Construction Materials Testing (CMT) Supervisor/Project Manager	
<b>Name of Firm with which associated:</b>	
<div style="display: flex; align-items: center;">  <div> <b>ENGINEERING AND TESTING, INC.</b>            Geotechnical &amp; Materials Consultants         </div> </div>	
<b>Years' experience with this Firm:</b>	
13 years (joined Gulf South in 2012); 15 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>
<b>Education: Degree(s)/Year/Specialization:</b>	
High School Diploma	
<b>Active Registration: Year first registered/discipline:</b>	
APNGA Nuclear Gauge Safety ACI Field Technician Level 1 OSHA Safety Training – 8 hr.	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<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><b>Bissonet Drainage Outfall Improvements, Metairie, Jefferson Parish, LA.</b> 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); 2024)</p> <p><b>New Pump/Lift Station, Airline Park Boulevard at West Metairie Avenue, Jefferson Parish, LA.</b> 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)**

**Papworth Avenue and Rose Street Wet Well, 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. (\$2,000 (fee); 2023)

**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))

**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)

**Upper Barataria Risk Reduction Segment 2 - Sunset Levee & Des Allemands Boat Launch, Lafourche Basin Levee District, St. Charles 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. Part of CPRA Project BA-0220. (\$200,000 (fee); ongoing)

**Materials Testing Services for the Milan Group A (RR129) Project, City of New Orleans, LA.** Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes asphalt inspection, backfill compaction testing, concrete testing, soil density tests, and earthwork inspection and testing. (\$77,000 (fee); ongoing)

**As-Needed Materials Testing Services at the Louisiana International Terminal, Violet, St. Bernard Parish, LA.** Gulf South provided as-needed construction materials testing and inspection during construction of the Port of New Orleans' new \$1.8 billion container terminal project. Project elements have included vibration and noise monitoring, notably in the vicinity of the W. Smith Junior Elementary School. (\$45,000 (fee); 2024)

**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)

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

**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 backfill compaction testing, concrete testing, soil density tests, earthwork inspection and testing, pile inspection and modeling, and vibration monitoring. (\$15,000 (fee); 2019)



## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
<b>Name &amp; Title:</b>	
<b>Tyler W. Pregeant, ACI</b> Graduate Geotechnical Engineer	
<b>Project Assignment:</b>	
Engineering Technician; CMT/Laboratory Technician	
<b>Name of Firm with which associated:</b>	
<div style="display: flex; align-items: center;">  <div> <b>ENGINEERING AND TESTING, INC.</b>            Geotechnical &amp; Materials Consultants         </div> </div>	
<b>Years' experience with this Firm:</b>	
6 years (joined Gulf South in 2019); <span style="float: right;">Gulf South Engineering and Testing, Inc.   2019 to present</span> 8 years total (2017)	
<b>Education: Degree(s)/Year/Specialization:</b>	
High School Diploma Currently attending UNO in Civil Engineering Program	
<b>Active Registration: Year first registered/discipline:</b>	
ACI Concrete Field Testing Technician - Grade I (02206931)	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<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><b>Woodlake Drainage Pump Station - Geotechnical Exploration Report, Kenner, Jefferson Parish, LA.</b> 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><b>Metairie Lawn Drainage Improvements, Jefferson Parish, LA.</b> 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

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

**Bonnabel Boulevard Drainage Improvements (Phase 1; Veterans Canal to Metairie Road) Geotechnical Exploration Report, Metairie, Jefferson Parish, LA.** Gulf South prepared a Geotechnical Exploration Report for the project which included the installation of a below grade box culvert. The study included drilling three soil test borings and the performance of soil mechanics laboratory tests to evaluate the soil's physical characteristics. Engineering analyses were made and based on field and lab test data to develop recommendations for the project. (\$6,500 (fee); 2024)

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

**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); 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)

**West End Group B (RR194), New Orleans, LA.** Gulf South is provided construction materials testing and inspection during construction of the Mid City Group B Project. Gulf South's scope of work includes soil density tests, concrete inspection and testing, vibration monitoring, and earthwork testing. (\$21,691 (fee); 2023)

**Central City Group A (RR021), City of New Orleans, LA.** Gulf South is providing construction materials testing and inspection during construction of the Central City Group A Project. Gulf South's scope of work includes soil density tests, concrete inspection and testing, vibration monitoring, and earthwork testing. (\$49,062 (fee); 2023)

**MLK Boulevard, Claiborne to St. Charles Avenue (DPW573), City of New Orleans, LA.** Gulf South is providing construction materials testing and inspection during construction of the project. Gulf South's scope of work includes soil density tests, concrete inspection and testing, vibration monitoring, and earthwork testing. (\$52,000 (fee); 2023)

## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
<b>Name &amp; Title:</b>	
<b>Ian Kerner Poché, ACI</b> Assistant Laboratory Supervisor	
<b>Project Assignment:</b>	
Assistant Laboratory Supervisor	
<b>Name of Firm with which associated:</b>	
<div style="display: flex; align-items: center;">  <div> <b>ENGINEERING AND TESTING, INC.</b>            Geotechnical &amp; Materials Consultants         </div> </div>	
<b>Years' experience with this Firm:</b>	
8 years (joined Gulf South in 2017); 8 years total (2017)	<i>Gulf South Engineering and Testing, Inc.   2017 to present</i>
<b>Education: Degree(s)/Year/Specialization:</b>	
High School Diploma	
<b>Active Registration: Year first registered/discipline:</b>	
ACI Concrete Field Testing Technician - Grade 1 (exp 2028 03) ACI Aggregate Testing Technician - Level 1 (exp 2029 02 27)	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<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><b>Lake Cataouatche Drainage Pump Station Replacement (Chighizola Lane), Grand Isle, Jefferson Parish, LA.</b> 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><b>Bonnabel Boulevard Drainage Improvements (Phase 1; Veterans Canal to Metairie Road) Geotechnical Exploration Report, Metairie, Jefferson Parish, LA.</b> Gulf South prepared a Geotechnical Exploration Report for the project which included the installation of a below grade box culvert. The study included drilling three soil test borings and the performance of soil mechanics laboratory tests to evaluate the soil's physical characteristics. Engineering analyses were made and based on field and lab test data to develop recommendations for the project. (\$6,500 (fee); 2024)</p>	

## TEC Professional Services Questionnaire

Other experience and qualifications: **Ian Kerner Poché, 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)

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

**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)

**Roosevelt Boulevard Roadway Pavement Improvements (West Metairie Ave. to West Napoleon Ave.), City of Kenner, Jefferson Parish, LA.** Geotechnical investigation for paved roadway improvements for Roosevelt Boulevard between West Metairie Avenue and West Napoleon Avenue in Kenner, LA. Gulf South's scope of services includes drilling 14 borings (depths of 10 feet below pavement surface), laboratory testing, engineering analyses (including pavement design) and general construction procedures and recommendations. (\$14,000 (fee); 2022)

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

## TEC Professional Services Questionnaire

<b>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.</b>		
<b>PROJECT NO. 1</b>		
<b>Project Name, Location, and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Bonnabel Boulevard Drainage Improvements (Phase 1; Veterans Canal to Metairie Road)</b> <b>Geotechnical Exploration Report,</b> Metairie, Jefferson Parish, Louisiana  <b>ECM Consultants, Inc.</b> 4409 Utica Street Suite 200 Metairie LA 70006  <b>Sunina Shrestha, P.E.,</b> 504-885-4080 sshrestha@ecmconsultants.com	Gulf South prepared a Geotechnical Exploration Report for the three-phase project which consisted of drainage improvements along Veterans Boulevard and Bonnabel Boulevard in Metairie, LA. This included the installation of a below grade 8 ft. deep by 10 ft. wide box culvert. We understand the scope of Phase 1 is approximately 1,200 lf of improvements from Veterans Canal to the first U-Turn at Bonnabel Boulevard. The study included drilling three soil test borings (depths of 20 and 25 ft) utilizing truck-mounted drilling rigs 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.	
<b>Completion Date (Actual or estimated:)</b>	<b>Estimated Cost:</b>	
August 2024	<b>Entire Project:</b>  N/A	<b>Work for which Firm was Responsible:</b>  \$6,500 (fee)

<b>PROJECT NO. 2</b>		
<b>Project Name, Location, and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Metairie Lawn and Ridgelake Drive Roadway &amp; Utility Project,</b> Metairie, Jefferson Parish, Louisiana  <b>Ardurra Group, Inc.</b> 3012 26th Street Metairie LA 70002  <b>Joe Becker, P.E.,</b> 504-454-3866 jbecker@ardurra.com	Geotechnical engineering services for construction of a new roadway paving and below grade drainage pipeline in Metairie, LA. Gulf South's scope includes drilling five (5) auger borings to a depth of 20 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations.	
<b>Completion Date (Actual or estimated:)</b>	<b>Estimated Cost:</b>	
January 2021	<b>Entire Project:</b>  N/A	<b>Work for which Firm was Responsible:</b>  \$8,500 (fee)



## TEC Professional Services Questionnaire

<b>PROJECT NO. 3</b>		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<b>Drainage Infrastructure Improvements, South Avondale Subdivision</b> , Avondale, Jefferson Parish, Louisiana  <b>Phoenix Global Construction</b> 2901 Independence St Ste 103 Metairie LA 70006  <b>Jack Lo</b> , 504-883-9021 phoenixglobal@bellsouth.net	Geotechnical investigation for drainage improvements on S. Jamie Boulevard in Avondale, LA. Gulf South's scope includes drilling five undisturbed soil borings to depths of 20 feet, lab testing, and engineering analyses including allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction procedures and recommendations.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
January 2018	N/A	\$7,000 (fee)

<b>PROJECT NO. 4</b>		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<b>Drainage Improvements, Citrus Road &amp; Greg Court</b> , Metairie, Jefferson Parish, Louisiana  <b>Buchart Horn</b> 18163 E Petroleum Drive, Suite A Baton Rouge LA 70809  <b>Alan Krouse, P.E.</b> , 225-308-2009 akrouse@bucharthorn.com	Geotechnical investigation for drainage improvements (2000 lf) along Citrus Road & Greg Court (to Jefferson Highway) in Metairie, LA. Gulf South's scope includes pavement coring and drilling five undisturbed soil borings each to 20 feet below ground surface, lab testing, and engineering analyses (including allowable soil bearing values, bedding and backfill recommendations), estimates of settlement, pavement design recommendations, and general construction recommendations.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
May 2017	N/A	\$8,500 (fee)

## TEC Professional Services Questionnaire

<b>PROJECT NO. 5</b>		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<b>David Drive Drainage Improvements (West Esplanade Avenue to Bruin Drive),</b> Jefferson Parish, Louisiana  <b>Rahman &amp; Associates, Inc.</b> 3645 Williams Blvd Ste 208 Kenner LA 70065  <b>Tafoor Hameed, P.E.,</b> 504-469-0022 tafoor@bellsouth.net	Geotechnical investigation for the reconstruction of David Drive and the construction of drainage improvements (approx. 3000 ft.) along David Drive from W. Esplanade Avenue to Bruin Drive in Metairie. Gulf South's scope includes drilling four soil borings each to a depth of 20 feet, lab testing, and geotechnical engineering analysis including allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, pavement design recommendations, and general construction recommendations.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
December 2015	N/A	\$7,500 (fee)

<b>PROJECT NO. 6</b>		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<b>Trudeau Drive Drainage Improvements at West Metairie Canal,</b> Metairie, Jefferson Parish, Louisiana  <b>Hatch Mott MacDonald</b> 650 Poydras Street, Suite 2025 New Orleans LA 70130  <b>Many Heymann, P.E.,</b> 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

<b>PROJECT NO. 7</b>		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<b>Airline Park Boulevard Rehabilitation and Drainage Upgrade (West Napoleon to Camphor), Jefferson Parish, Louisiana</b>  <b>PECC</b> 3702 Bienville Avenue, Suite C New Orleans LA 70119  <b>John Shires, P.E., 800-749-2810</b> jshires@pecla.com	Geotechnical investigation for pavement rehabilitation, new drain lines, and a new pump station from W. Napoleon to Camphor in Metairie, LA. Gulf South's scope of work included drilling four soil borings to depths of 15 and 50 feet, laboratory testing (strength and classification), and geotechnical engineering analysis consisting of allowable soil bearing values, allowable pile load capacities, estimates of settlement, pavement recommendations, bedding and backfill recommendations, and general construction recommendations.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
February 2015	N/A	\$8,500 (fee)

<b>PROJECT NO. 8</b>		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<b>Kinler &amp; Paul Fredrick Roadway &amp; Drainage Improvements, Luling, St. Charles Parish, Louisiana</b>  <b>EJES Inc.</b> 2626 Canal Street, Suite 202 New Orleans LA 70119  <b>Paul Foley, P.E., 504-218-7103</b> pfoley@ejesinc.com	Geotechnical investigation for paved roadway improvements for two streets in Luling, LA. Scope included drilling a total of 10 undisturbed soil borings. Geotechnical laboratory testing was performed in accordance with appropriate ASTM standards; this included strength tests (unconfined and/or triaxial) and classification tests (Atterberg Limits and/ or particle size). Following the collection of the field and laboratory data, a geotechnical engineer performed the evaluations necessary to characterize the subsoil conditions of the site and develop the engineering recommendations and analyses. This included current pavement materials and thicknesses, flexible pavement design recommendations, and general construction procedures and recommendations.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
June 2022	N/A	\$7,500 (fee)

## TEC Professional Services Questionnaire

<b>PROJECT NO. 9</b>		
<b>Project Name, Location, and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Brewster Road/LA 1077 Drainage Improvements</b> , Madisonville, St. Tammany Parish, Louisiana  <b>N-Y Associates, Inc.</b> 2750 Lake Villa Drive Metairie LA 70002  <b>Fred Mortali, P.E.</b> , 504-885-0500 fmortali@n-yassociates.com	Geotechnical engineering services for a drainage improvements project at the existing parish canal off LA-1077 and Galatas Road in Madisonville, St. Tammany Parish, LA. Gulf South's scope includes drilling five undisturbed soil borings to depths of 20 feet (2 locations) and 30 feet (3 locations) below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. Gulf South provided design recommendations for net allowable soil bearing values, estimates of settlement, bedding and backfill, slope stability analyses, and lateral earth pressures.	
<b>Completion Date (Actual or estimated:)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
December 2022	N/A	\$20,000 (fee)

<b>PROJECT NO. 10</b>		
<b>Project Name, Location, and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Drainage Upgrades and Green Infrastructure Improvements, Hagan Avenue &amp; Lafitte Avenue</b> , City of New Orleans, Louisiana  <b>City of New Orleans Department of Public Works</b> 1300 Perdido Street, Suite 6W02 New Orleans LA 70112  <b>Jennifer Larmeu, P.E.</b> , 504-658-8000 jjlarmeu@nola.gov	Geotechnical investigation for new drainage upgrades and green infrastructure improvements between Hagan & Lafitte Avenues (to Orleans Avenue and Broad Street) in New Orleans, LA. Gulf South's scope includes drilling 13 soil borings with five borings to a depth of 30 feet and eight to a depth of 20 feet below existing paved/ground surface, laboratory testing, and engineering analyses for net allowable soil bearing values, estimates of settlement, bedding and backfill recommendations, lateral earth pressures, rigid and/or flexible pavement design recommendations, infiltration/permeability rates of near-surface soils, and general construction procedures and recommendations. Phase 2 includes piezometer well installations.	
<b>Completion Date (Actual or estimated:)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
December 2016	N/A	\$21,799 (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.**



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

### 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 30 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 accredited 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 project 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 geotechnical and CMT needs required for the projects that may be issued under this contract.

Activity is dependent on the scope of work as well as site access and conditions, however; typically soil borings can be started within one week of receiving notice to proceed with a final product delivered within 3 to 4 weeks of completing the borings. Gulf South's workload & scheduling,

## TEC Professional Services Questionnaire

N. continued.

coupled with our headquarters being nearby, will allow for assignment of key personnel shortly after any project is assigned.

Gulf South 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 ON CDBG PROJECTS

Gulf South completes hundreds of geotechnical and construction materials testing projects throughout the year. As a subconsultant, our clients do not divulge funding sources at the time of contract & services and, as such, we do not track this information. A majority of our projects are through the design-bid-build process. We have participated in CMAR and design—build projects but at a much less frequent rate than traditional design-bid-build.

### 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.

### 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:

## TEC Professional Services Questionnaire

N. continued.

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

**Ben Lepine, P.E., 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)

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

**Daniel P. Hill, P.E., Director, St. Tammany Parish Department of Engineering**  
(985-898-2552 | engineering@stpgov.org)

**Eric Poché, Director, Ascension Parish Planning and Zoning Department**  
(225-450-1366 | eric.poché@apgov.us)

**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)

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

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: January 14, 2025

## TEC Professional Services Questionnaire

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

Professional Engineering Services for the  
**Sala Avenue Historic Distric Drainage Feasibility Analysis and Improvements Project**

**SOQ 25-005 | Resolution No. 145576**

**B. Firm Name & Address:**



**BFM Corporation, LLC**

15 Veterans Memorial Boulevard | Kenner LA 70062

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

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

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

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

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

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

504-468-8800 | 504-468-8800 cell | ralph@bfmcorporation.com

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

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

<u>4</u>	Administrative	<u>          </u>	Estimators	<u>          </u>	Specification Writers
<u>          </u>	Architects (Licensed)	<u>          </u>	Geologists	<u>          </u>	Structural Engineers
<u>          </u>	Chemical Engineers	<u>1</u>	Geotechnical Engineers	<u>          </u>	Graduate Engineers
<u>          </u>	Civil Engineers	<u>          </u>	Interior Designers	<u>2</u>	Project Managers
<u>          </u>	Construction Inspectors	<u>          </u>	Landscape Architects	<u>          </u>	Clerical ( <i>see Administrative</i> )
<u>          </u>	Ecologists	<u>1</u>	Land Surveyor ( <i>Apprentice</i> )	<u>          </u>	Grant/Funding Specialist
<u>          </u>	Electrical Engineers	<u>          </u>	Mechanical Engineers	<u>          </u>	Sanitary Engineers
<u>          </u>	Engineer Intern	<u>          </u>	Environmental Engineers	<u>1</u>	<i>Researcher/Archivist</i>
<u>2</u>	Professional Land Surveyors	<u>          </u>		<u>2</u>	<i>CADD Technicians</i>
				<u>5</u>	<i>Survey Crew Chief</i>
				<u>4</u>	<i>Survey Crew Instrumentman</i>
				<u>22</u>	<b>TOTAL</b>

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

**If marked “no”, skip to Section I. If marked “yes”, complete Sections G-H.**



## TEC Professional Services Questionnaire

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

1.  
N/A

2.

**H. Has this JOINT-VENTURE previously worked together? Please check:**

YES\_\_\_\_\_ NO\_\_\_\_\_ N/A

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

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

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

22 (all personnel will be available for assignment to the project)

## TEC Professional Services Questionnaire

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

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

**Name & Title:**

**Ralph P. Fontcuberta, Jr., PLS**

Executive Vice President / Registered Professional Land Surveyor

**Project Assignment:**

Registered Professional Land Surveyor

**Name of Firm with which associated:**

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

**Years' experience with this Firm:**

43 years (Founding Principal of BFM in 1982);      Gulf South Engineering and Testing, Inc. | 2017 to present  
58 years total (1967)      BFM Corporation, LLC | 1982 to present  
Surveys, Inc. | 1967 to 1982  
The Boeing Company | 1964 to 1967

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

2 yr, Building Trade Curriculum, Delgado, New Orleans  
2 yr, Mathematics Curriculum, University of New Orleans

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

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

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

**Ralph P. Fontcuberta, Jr., PLS has provided services on an almost incalculable number of surveying projects throughout southeastern Louisiana in the past half century and has been a registered Professional Land Surveyor (PLS) since 1974.** He is thoroughly knowledgeable in all aspects of surveying: topographic, hydrographic, boundary, right-of-way surveying, and all facets thereof. He has provided surveying services for residential, plant, and industrial layout projects, ranging from small private lots & buildings to multi-million-dollar programs, including the New Orleans FEMA Streets/Recovery Roads Program. Since the beginning of his career, his work has entailed computations, drafting, and field work for various industrial, commercial, municipal, and private clients.

Project work has included topographic surveying needed for a wide variety of engineering, architectural, construction, and other related endeavors. This has included projects for numerous branches of virtually every regional city/parish/town government, multiple State agencies (LA Dept. of Natural Resources (LADNR), Coastal Protection & Restoration Administration (CPRA), LA

## TEC Professional Services Questionnaire

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

Dept. of Transportation & Development (LADOTD), MS Dept. of Transportation (MDOT), and others), Federal agencies (U.S. Army Corps of Engineers (USACE), Dept. of the Navy, etc.), private/public companies (Entergy, BellSouth, Cox Cable, etc.), and numerous other public/private entities.

**Mr. Fontcuberta's surveying experience with Jefferson Parish can be traced back to BFM's inception in 1982, and to 1967 then while working as a surveyor with another firm.** He has over half a century of experience with surveying throughout the region and specifically with Jefferson Parish. He has served as the PLS for projects throughout every corner of Jefferson Parish. Relevant project history includes, but is certainly not limited to, the following:

- Mounes Street Subsurface Drainage (Phase IV, Dickory Ave to Elmwood Park Blvd), Jefferson Parish, LA
- Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, LA
- Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA
- Orange Lane Drainage Pump Station Project (Drainage Mapping), Grand Isle, Jefferson Parish, LA
- Bissonet Plaza Drainage Improvements (Phase 1, Elmwood Pkwy & Craig Ave), Jefferson Parish, LA
- Lafitte Drainage Project, Town of Jean Lafitte, Jefferson Parish, LA
- Central Avenue Roadway Drainage & Water Main Improvements, Jefferson Parish, LA
- Taft Park Pump Station and Drain Line Path, Jefferson Parish, LA
- West Bank Expressway, Phase I Drainage Map (Peters Rd to Manhattan Blvd), Jefferson Parish, LA
- Coventry Drainage Pump Stations, River Ridge, Jefferson Parish, LA
- Paillet - Maplewood Drainage Improvements, Jefferson Parish, LA
- Jack & Bores Survey (Drainage Project), Waggaman, Jefferson Parish, LA
- Taft Park Pump Station and Drain Line Path, Jefferson Parish, LA
- Mazoue Ditch Improvements, Phase I, Jefferson Parish, LA
- Emergency Generators at 13 Pump Station Sites, Jefferson Parish, LA
- Oakwood/Terrytown Drainage Improvements, Jefferson Parish, LA
- Massachusetts Avenue Drainage Improvements, Jefferson Parish, LA
- Orleans Village Subdivision Drainage Improvements, Jefferson Parish, LA
- Morton & Ingrid Pump Station, Jefferson Parish, LA
- Hoey's Canal Drainage Improvements (Deckbar Ave to Labarre Rd), Jefferson Parish, LA
- Drainage Pump Station, Veterans North & South, Right-of-Way, 17th Street Canal, Jefferson Parish, LA
- Mounes Subsurface Drainage Phase I, Jefferson Parish, LA
- Marlin Court Drainage Project, Jefferson Parish, LA
- Woodland West Drainage Improvements - Phase 2A, Vulcan Dr & Telestar St, Jefferson Parish, LA
- Sub-Basin 3 Proposed Improvements (Meadow St & Myrtle St), Bunche Village, Jefferson Parish, LA
- Avenue D Drainage Improvements, Jefferson Parish, LA
- Oakwood Terrytown Drainage Improvements (Carol Sue Drainage Improvements), Jefferson Parish, LA

## TEC Professional Services Questionnaire

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

- West Bank Subsurface Drainage Improvement Program Ph II (Maplewood & Paillet), Jefferson Parish, LA
- Hillings Ditch/Drolla/Suave Road Drainage Improvements, Jefferson Parish, LA
- Route Topographic (including Lift Station/Force Main) Surveying Services, Jefferson Parish, LA
- Paillet Pump Station Access Road and Drainage Improvements, Jefferson Parish, LA
- Westgate Subdivision Subsurface Drainage Improvements, Jefferson Parish, LA
- Canal No. 17 Bank Stabilization Phase II, Jefferson Parish, LA
- Clearview Drainage Pump Station and St. Peter's Ditch, Jefferson Parish, LA
- Johnson Street Drainage Improvements (Phases I & II), Jefferson Parish, LA
- Hero Pump Station, Harvey, Jefferson Parish, LA
- West Bank Subsurface Drainage Improvement Project, Phase II, Bellemeade Boulevard to the Violet Canal Discharge, Jefferson Parish, LA
- Hilling Ditch Drainage Improvements, Jefferson Parish, LA
- Upper Kraak Pump Station, Jefferson Parish, LA
- Mason Ditch Drainage Improvements, Jefferson Parish, LA
- Hurricane Gustav Drainage Canal Repairs, East Bank, Jefferson Parish, LA
- Bannerwood Drainage Improvements, Jefferson Parish, LA
- Improvements to Bayou Segnette Drainage Pump Station No. 1, Jefferson Parish, LA
- Sena Drive Subsurface Drainage Improvements, Jefferson Parish, LA
- Drainage Improvements to the Canal No. 2 Culvert Crossing at California Avenue, Jefferson Parish, LA
- Kawanee Drive Drainage Improvements, Jefferson Parish, LA
- Mazoue Ditch Drainage Improvements Phase IV, Jefferson Parish, LA
- Mazoue Ditch Drainage Improvements (Rose Crest Lane to Darby Lane), Jefferson Parish, LA
- Breaux Ditch Improvements, East Ames Boulevard (Leo Kenner Parkway), Jefferson Parish, LA
- Manson Ditch (ICRR Ditch) Survey, Jefferson Parish, LA
- Drainage Improvements, Metairie Lawn to Labarre Drive, Jefferson Parish, LA
- Cleary Avenue & West Napoleon Lift Station & Force Main, Jefferson Parish, LA
- Canal #5 (West Metairie) Drainage Improvements, Williams Blvd to Waldo St, Jefferson Parish, LA
- Woodland West Subdivision Drainage Improvements, Marrero, Jefferson Parish, LA
- Earhart and Clearview Interchange Drainage Study, Jefferson Parish, LA
- Hickory Drainage Study, Jefferson Parish, LA
- Crown Point Drainage Flood Control Structures, Jefferson Parish, LA
- Gulizo Canal Drainage Improvements, Jefferson Parish, LA
- Bannerwood Drainage Improvements (Mt. Laurel Bridge & Oakwood Canal), Jefferson Parish, LA
- 18th Street Drainage Improvements (18th St; Division to West Esplanade Avenue), Jefferson Parish, LA

## TEC Professional Services Questionnaire

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

**Name & Title:**

**Chad M. Poché, P.E.**

Executive Vice President / Registered Professional Geotechnical Engineer

**Project Assignment:**

Engineering Liaison

**Name of Firm with which associated:**

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

**Years' experience with this Firm:**

8 years (became partial owner of BFM in 2017);  
32 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 an Executive Vice President with (and partial owner of) BFM Corporation, LLC, and a co-founder of BFM's sister company, Gulf South Engineering and Testing, Inc. He has been a consulting geotechnical engineer for nearly 30 years in South Louisiana, working on traditional and unique geotechnical engineering projects (shallow and deep foundation design, slope stability, pavement design, etc.). Mr. Poché has also provided construction oversight for waste facilities and virtually every type of earthwork related project. He has been the geotechnical engineer of record for thousands of projects throughout his career.

Mr. Poché's experience includes the development of appropriate scopes of work and proposals for a broad range of projects; planning and coordinating analyses; preparing technical reports; foundation and geotechnical engineering design; construction recommendations; Miss. River facility permitting; managing personnel and office operations, and; serving as an Expert Witness. Mr. Poché has logged soil borings; overseen the installation of ground water monitoring wells, piezometers, and inclinometers; overseen and evaluated pile load tests; overseen, performed, and evaluated dynamic pile testing (PDA and PIT); performed CMT field testing and inspection; and performed laboratory testing.



## TEC Professional Services Questionnaire

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

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

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

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

**Broadmoor Neighborhood Roadway & Drainage Project, City of New Orleans, LA.** BFM prepared boundary and topographic surveys for multiple streets in the Broadmoor Neighborhood area for a major drainage project. Both full and partial Route Topographic Surveys were executed; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. Surveying locations included fifty intersections and a dozen lots, as well as neighborhood parks. As part of a contract amendment, BFM provided additional boundary and topographic surveying services for multiple streets in the Broadmoor/St. Andrew area. (\$1,050,471 (fee); 2017)

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

**Central Avenue Roadway Drainage & Water Main Improvements, Jefferson Parish, LA.** BFM provided surveying services for the project which consisted of verifying pipe sizes and inverts for drainage structures along the west side (only) of Central Avenue (located during a previous BFM survey). BFM located any new drainage structures within the previous survey limits and determined the depth, size, and type of pipes within each drainage structure which were shown on the previous survey. This included catch basins, drop inlets, and ditch culvert pipes. Alterations/updates were noted on an updated version of the previous survey. (\$2,850 (fee); 2022)

## TEC Professional Services Questionnaire

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

**Name & Title:**

**Gary J. Lambert, Jr., PLS**

Vice President / Registered Professional Land Surveyor

**Project Assignment:**

Project Manager/Drafting Supervisor

**Name of Firm with which associated:**

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

**Years' experience with this Firm:**

7 years (joined BFM in 2018);  
14 years total (2011)

*BFM Corporation, LLC | 2018 to present*  
*Riverlands Surveying | 2016 to 2018*  
*Bertucci Contracting | 2011 to 2016*

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

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

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

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

2021, Professional Land Surveyor (Louisiana No. 5929)

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

Gary J. Lambert, Jr., is a registered Professional Land Surveyor in Louisiana and provides Project Management and Drafting Oversight for BFM Corporation. He is the first point of contact for clients on technical matters, scheduling, and deliverables for project work, and conducts meetings with engineering, architectural, and government officials to discuss various project needs. His project work has encompassed all manner of surveying services, from basic home lots to 100+ acre tract boundary surveys.

In the field, Mr. Lambert has provided services as a Survey Crew Chief, using both traditional and robotic surveying methods, since the start of his professional career, and has experience with Leica, Hypack, AutoCAD, AutoCAD 3D, Trimble, and RTK surveying technologies. He further trains employees in the use of an aerial drone, laser scanner, and remote-controlled hydrographic survey boat. This survey experience includes topographic, boundary, ALTA/NSPS, FEMA, and various construction surveying. Mr. Lambert has also conducted hydrographic surveys in the Mississippi River and various other bodies of water throughout the Gulf Coast area.

Mr. Lambert has completed Basic OSHA Training and holds license with the Gulf Coast Safety Council (08SSV, ID429523).

## TEC Professional Services Questionnaire

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

**Bissonet Plaza Drainage Improvements (Phase 1), Metairie, Jefferson Parish, LA.** BFM prepared a Route Topographic Survey for Phase 1 of the project, located at Elmwood Parkway and Craig Avenue. This project built upon work executed by the firm for a previous extensive surveying project involving Bissonet Plaza subdivision; this allowed for BFM to build upon established surveys to save time and expenses. Surveying for each element of the project included services included confirming all controls and benchmarks, topographic features, location of improvements and utilities, location of natural elements as applicable, and notation of right-of-way points. (\$7,980 (fee); 2020)

**Broadmoor Neighborhood Roadway & Drainage Project, City of New Orleans, LA.** BFM prepared boundary and topographic surveys for multiple streets in the Broadmoor Neighborhood area for a major drainage project. Both full and partial Route Topographic Surveys were executed; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. Surveying locations included fifty intersections and a dozen lots, as well as neighborhood parks. As part of a contract amendment, BFM provided additional boundary and topographic surveying services for multiple streets in the Broadmoor/St. Andrew area. (\$1,050,471 (fee); 2017)

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

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

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

## TEC Professional Services Questionnaire

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

**Name & Title:**

**Christopher Lemley**  
Field Operations Manager/Survey Crew Chief

**Project Assignment:**

Field Operations Manager/Survey Crew Chief

**Name of Firm with which associated:**

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

**Years' experience with this Firm:**

11 years (joined BFM in 2014); BFM Corporation, LLC | 2014 to present  
19 years total (2006) G.E.C., Inc. | 2010 to 2014  
Krebs, LaSalle, LeMieux Consultants, Inc. | 2006 to 2010

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

High School Diploma

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

American Traffic Safety Service Assn. – Traffic Flagger  
Louisiana Boater Education - Boating Safety Certificate  
Norfolk Southern Roadway Worker Protection Contractor Safety Certificate

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

Chris Lemley's services as BFM's Field Operations Manager includes overseeing all field work and activity by company personnel. His surveying experience includes over 8 years as a Survey Crew Chief. His survey software experience includes projects involving Trimble, Topcon, Leica, and Hypack, and has maintained and operated GPS, Auto-Level, and Total Station. Notable past project work has included the New Orleans Museum of Art, Jackson Barracks Restoration, US Highway 11, NASA Michoud Cells 3 & 4, the St. Bernard Lot Next Door Program, and multiple Orleans Parish School Recovery projects.

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

## TEC Professional Services Questionnaire

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

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

**Broadmoor Neighborhood Roadway & Drainage Project, City of New Orleans, LA.** BFM prepared boundary and topographic surveys for multiple streets in the Broadmoor Neighborhood area for a major drainage project. Both full and partial Route Topographic Surveys were executed; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. Surveying locations included fifty intersections and a dozen lots, as well as neighborhood parks. As part of a contract amendment, BFM provided additional boundary and topographic surveying services for multiple streets in the Broadmoor/St. Andrew area. (\$1,050,471 (fee); 2017)

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

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

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



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>	
<b>Name &amp; Title:</b>	
<b>John Philip Thayer</b> Procurement Director (Proposals & Project Management Support)	
<b>Project Assignment:</b>	
Project Management Support	
<b>Name of Firm with which associated:</b>	
 <b>BFM CORPORATION, LLC</b> Professional Land & Hydrographic Surveying	
<b>Years' experience with this Firm:</b>	
17 years (joined BFM in 2008); 18 years total (2007)	<i>BFM Corporation, LLC   2008 to present</i> <i>Delle Land Surveying   2007 to 2008</i>
<b>Education: Degree(s)/Year/Specialization:</b>	
Certificate, 2015, Land Surveying Services B.S., 2007, Physical Education, Trevecca Nazarene University	
<b>Active Registration: Year first registered/discipline:</b>	
N/A	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<p>Phil Thayer serves as BFM's Procurement Director, providing proposal preparation and Project Management Support, having considerable experience in field surveying services, including ALTA/as-built surveying, construction layout, boundary, topographic, cross-sections, GPS use, and numerous other surveying types.</p> <p><b>Central Avenue Roadway Drainage &amp; Water Main Improvements, Jefferson Parish, LA.</b> BFM Corporation provided surveying services for the project; the scope of which consisted of verifying pipe sizes and inverts for drainage structures along the west side (only) of Central Avenue, which was located during a previous BFM project. BFM located any new drainage structures within the previous survey limits and determined the depth, size, and type of pipes within each drainage structure which were shown on the previous survey. This included catch basins, drop inlets, and ditch culvert pipes. Alterations/updates were noted on an updated version of the previous survey. (\$2,850 (fee); 2022)</p> <p><b>Massachusetts Avenue Drainage Improvements, Jefferson Parish, LA.</b> BFM provided topographic surveying services for the project, which extended from W Napoleon Avenue to Veterans Memorial Boulevard. (\$28,515 (fee); 2009)</p> <p><b>Avenue D Drainage Improvements, Jefferson Parish, LA.</b> BFM provided topographic surveying for the project. (SP 576-26-0028) (\$25,195 (fee); 2009)</p>	

## TEC Professional Services Questionnaire

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

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

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

**Veterans Boulevard Pump Station, Metairie, Jefferson Parish, LA.** BFM executed a Survey Control Verification for the project; scope included locating and verifying the horizontal and vertical control points from a previous BFM surveying project (2013/2014); a minimum of 2 horizontal and 1 vertical control points were to be provided per site. Project deliverables included a detailed indelible print with an aerial background image clearly showing point location, Northing, Easting, elevation, and description, and a high-resolution PDF of the document. (\$2,975 (fee); 2023)

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

**Manhattan Boulevard Southbound Lanes Widening, Harvey, Jefferson Parish, LA.** BFM executed a Route Topographic Survey of the Manhattan Boulevard southbound lanes from the West Bank Expressway to Gretna Boulevard; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. Work consisted of multiple project elements over several years. (\$77,733 (fee); 2018)

**Lapalco Boulevard Survey Update, Jefferson Parish, LA.** BFM prepared a Site Specific Update Survey for the Lapalco Boulevard project, which built on previous BFM surveys for the location. The field survey recovered and verified the horizontal and vertical control (from previous BFM projects noted). Spot elevations were taken; existing improvements within the designated Limits of Survey were noted. The survey also located utilities, pipes (drainage, water, sewerage), and trees. For the update, BFM specifically located newly-installed steel power poles and steel transmission towers, as well as the structures fronting along Lapalco Boulevard. Project deliverables included comprehensive/updated physical and digital files combining all new & previous survey data. (\$20,480 (fee); 2021)

## TEC Professional Services Questionnaire

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

**Name & Title:**

**Dawn Hoffman**  
Researcher/Archivist

**Project Assignment:**

Researcher/Archivist

**Name of Firm with which associated:**

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

**Years' experience with this Firm:**

16 years (joined BFM in 2009);  
28 years total (1997)

*BFM Corporation, LLC | 2009 to present*  
*Fluor Corporation | 2007 to 2009*  
*Geographic Computer Technologies, LLC | 2000 to 2007*

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

A.D., 1999, Computer-Aided Drafting, Southeast College of Technology  
Certificate, 2003, Introduction to ArcGIS, Louisiana State University

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

N/A

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

Dawn Hoffman serves as BFM's primary researcher and has more than 25 years of experience in this field. She is extremely knowledgeable with researching in various parishes and cities.

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

**Broadmoor Neighborhood Roadway & Drainage Project, City of New Orleans, LA.** BFM prepared boundary and topographic surveys for multiple streets in the Broadmoor Neighborhood area for a major drainage project. Both full and partial Route Topographic Surveys were executed; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. Surveying locations included fifty intersections and a dozen lots, as well as neighborhood parks. As part of a contract amendment, BFM provided additional boundary and topographic surveying services for multiple streets in the Broadmoor/St. Andrew area. (\$1,050,471 (fee); 2017)

## TEC Professional Services Questionnaire

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

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

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

**Central Avenue Roadway Drainage & Water Main Improvements, Jefferson Parish, LA.** BFM Corporation provided surveying services for the project; the scope of which consisted of verifying pipe sizes and inverts for drainage structures along the west side (only) of Central Avenue, which was located during a previous BFM project. BFM located any new drainage structures within the previous survey limits and determined the depth, size, and type of pipes within each drainage structure which were shown on the previous survey. This included catch basins, drop inlets, and ditch culvert pipes. Alterations/updates were noted on an updated version of the previous survey. (\$2,850 (fee); 2022)

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

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

## TEC Professional Services Questionnaire

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

**Name & Title:**

**Brandon Silva**  
Professional Surveyor Apprentice

**Project Assignment:**

Surveyor Apprentice

**Name of Firm with which associated:**

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

**Years' experience with this Firm:**

3 years (joined BFM in 2022); BFM Corporation, LLC | 2022 to present  
3 years total (2022)

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

B.A., 2023, Geomatics, Nicholls State University  
Currently attending UNO in Civil Engineering Program

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

N/A

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

Brandon Silva is a Professional Surveyor Apprentice with BFM Corporation. He executes services as a Surveyor-in-Training, assisting in Field Crew Supervision and Project Management. Mr. Silva also specializes in Laser Scanning and Drone Surveying. Project experience includes all manner of topographic, route, lot, and construction layout surveys, as well as Point Cloud Processing and serving as Data QA/QC Manager. His software experience includes AutoCAD and ArcGIS Pro, and is versatile in Survey Data Processing Applications.

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

**Route Topographic & Right-of-Way Survey for Sonia Place, Jefferson Parish, LA.** BFM prepared a Route Topographic Survey for the project which involved a total of approximately 1400 LF. The scope of work involves establishment of a baseline along each route, establishing TBMs, spot elevations, location of improvements, utilities, pipes, and natural elements. (\$15,120 (fee); 2023)



## TEC Professional Services Questionnaire

Other experience and qualifications: **Brandon Silva (continued)**

**EAT Fat City Center and Transportation Hub Project (Resubdivision), Metairie, Jefferson Parish, LA.** BFM Corporation prepared a Resubdivision Survey for the EAT Fat City Center and Transportation Hub Project in Metairie, LA. The first phase of this two-phase project included provision of a boundary survey (as per Louisiana Administrative Code) and included multiple lots on both Division Street and Hessmer Avenue in both the Simone Garden and Hemmer Farms subdivisions. Phase 2 of the project included resubdivision of said lots into three lots-of-record as per Jefferson Parish directive, and involve establishing baseline, setting Construction Benchmarks, location of improvements and utilities as well as trees, and taking spot elevations. In addition to the plan and baseline profiles (AutoCAD), BFM provided a Three-Point Tie Worksheet, as well as Construction Benchmarks and Metes-and-Bounds Legal Descriptions for each new lot of record. (\$53,950 (project fee); 2023)

**Coquille Detention Pond, St. Tammany Parish, LA.** BFM provided topographic, boundary, and HEC-RAS surveying services. Scope included establishing a baseline and TBMs. All topographic surveys include deliverables in GRID coordinates, both AutoCAD DWG files and Point Files. All outfall pipes into channels were measured at the flowlines on both the outfall and the collector. The Existing Channel element included a survey of the approx. 1,600 LF existing channel (Soap & Tallow Branch Tributary). For the Non-Channel element, the topographic survey included detention ponds, constructions sites, facilities design, and other areas of this type. The HEC-RAS Modeling element included cross-sections and located all major grade breaks, flowline, manmade features, drainage structures within channel banks, channel confluences, culverts bridges, piers, abutments, and other elements. (\$182,140 (fee); 2024)

**FEMA Elevation Certificate for Fisher School, Jefferson Parish Public School System, Jefferson Parish, LA.** BFM Corporation provided surveying services for a final FEMA Elevation Certificates for ten buildings located on the Fisher Middle-High School Campus in Marrero; part of a larger project involving Hurricane Ida Mitigation & Repairs. The project's field services extended from January 8, 2024 to January 22, 2024; deliverables included FEMA Elevation Certificates for each structure as requested. (\$3,000 (fee); 2024)

**Fire Station 38, City of Kenner, LA.** BFM prepared a survey update for the project (Square 104, University City Subdivision), which built upon a previous survey executed by BFM in 2019. Scope included establishing a baseline throughout the project site, locating the surcharge area, taking spot elevations within the Limits of Survey, which extended 10 ft. around the area of the surcharge. Project deliverables included indelible prints, a high-resolution PDF, a Three-Point Tie Worksheet, and a CSV file containing the points collected during this survey. (\$4,925 (fee); 2024)

**St. Ville Elementary School (formerly Helen Cox High School) Surveying Services, Harvey, Jefferson Parish, LA.** BFM provided surveying services for the project site, including an Elevation Survey with Construction Benchmark (CBM), locating the exterior of the existing gymnasium, and preparing an Elevation Survey with spot elevation for differential settlement changes. Boundary and topographic survey was executed, establishing a new CBM and Temporary Benchmark (TBM) on site. Utilities were located. A Route Topographic & Right-of-Way Survey was executed establishing baseline, TBMs, and locating existing improvements as well as above-ground & underground utilities and drainage, sewerage, & water structure pipes. Property corners were located to establish right-of-way and servitudes/easements. (\$45,500 (cumulative fee); 2024)

## TEC Professional Services Questionnaire

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

**Name & Title:**

**Anthony Watson**

CADD Technician (AutoCADD Drafting Services)

**Project Assignment:**

CADD Technician (AutoCADD Drafting Services)

**Name of Firm with which associated:**

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

**Years' experience with this Firm:**

14 years (joined BFM in 2011);

34 years total (1991)

*BFM Corporation, LLC | 2011 to present*

*Krebs LaSalle Lemieux / GEC | 2008 to 2011*

*Doug Connally and Associates Land Surveying (Dallas, TX) | 1995-2008*

*Electrician | 1991 to 1995*

*City of Plano TX (Part-Time Drafting Services) | 1991*

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

Coursework - CAD, Avatech Solutions, Los Colinas, TX

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

N/A

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

Anthony Watson has experience as a draftsman/survey technician, having started his career as an intern with the Surveying Department of the City of Plano, Texas. His experience through the years includes manual and computer-aided drafting for a wide range of projects, ranging from small lot surveys to subdivisions to municipal treatment and private industrial plants. He has experience in all facets of surveying (boundary, topographic, ALTA/ACSM, plan & profile, etc.) in both drafting and field environments.

**Central Avenue Roadway Drainage & Water Main Improvements, Jefferson Parish, LA.** BFM Corporation provided surveying services for the project; the scope of which consisted of verifying pipe sizes and inverts for drainage structures along the west side (only) of Central Avenue, which was located during a previous BFM project. BFM located any new drainage structures within the previous survey limits and determined the depth, size, and type of pipes within each drainage structure which were shown on the previous survey. This included catch basins, drop inlets, and ditch culvert pipes. Alterations/updates were noted on an updated version of the previous survey. (\$2,850 (fee); 2022)

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

## TEC Professional Services Questionnaire

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

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

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

**Bissonet Plaza Drainage Improvements (Phase 1), Metairie, Jefferson Parish, LA.** BFM prepared a Route Topographic Survey for Phase 1 of the project, located at Elmwood Parkway and Craig Avenue. This project built upon work executed by the firm for a previous extensive surveying project involving Bissonet Plaza subdivision; this allowed for BFM to build upon established surveys to save time and expenses. Surveying for each element of the project included services included confirming all controls and benchmarks, topographic features, location of improvements and utilities, location of natural elements as applicable, and notation of right-of-way points. (\$7,980 (fee); 2020)

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

**Brewster Road Subsurface Drainage Improvements & Proposed Detention Pond, St. Tammany Parish, LA.** BFM provided multiple surveying services (including Boundary, Route Topographic, Right-of-Way, Drainage Study, Property Acquisition) for the project. The Limits of Survey included the area of Brewster Road between LA HWY 1077 and LA HWY 21; BFM provided Temporary Benchmarks, location of all improvements (natural and man-made) and utilities (including drainage, sewer, and water structures), limits of all properties, and coordination with State and Local agencies. BFM took cross-sections at 100 ft. intervals and property corners along the route to determine rights-of-way. (\$203,320 (fee); 2020)

## TEC Professional Services Questionnaire

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

**Name & Title:**

**Kevin A. Roberts**

CADD Technician (AutoCADD Drafting Services)

**Project Assignment:**

CADD Technician (AutoCADD Drafting Services)

**Name of Firm with which associated:**

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

**Years' experience with this Firm:**

7 years (joined BFM in 2018);  
40 years total (1985)

*BFM Corporation, LLC | 2018 to present*  
*J.V. Burkes and Associates | 2017 to 2018*  
*Evans-Graves Engineers | 2003 to 2017*  
*J. Ray McDermott | 2002 to 2003*  
*MECO (Drafting Dept) | 2002 to 2003*  
*Advanced Commercial Contracting (Drafting Dept) | 1999 to 2002*  
*SOTEC (Drafting Dept) | 1999*  
*UNO Purchasing & Physical Plant Depts. | 1985 to 1997*

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

A.D., 1999, Drafting & Design, Louisiana Technical College  
Coursework, 1994-1997, Nunez Community College  
Coursework, 1984-1988, Delgado Community College  
Coursework, 1982-1983, University of New Orleans

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

N/A

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

Kevin Roberts has direct drafting experience with civil engineering, offshore engineering, water purification systems, and general architectural and construction design & terminology. He joined BFM in 2018 and provides drafting services to the firm.

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

## TEC Professional Services Questionnaire

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

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

**Bissonet Plaza Drainage Improvements (Phase 1), Metairie, Jefferson Parish, LA.** BFM prepared a Route Topographic Survey for Phase 1 of the project, located at Elmwood Parkway and Craig Avenue. This project built upon work executed by the firm for a previous extensive surveying project involving Bissonet Plaza subdivision; this allowed for BFM to build upon established surveys to save time and expenses. Surveying for each element of the project included services included confirming all controls and benchmarks, topographic features, location of improvements and utilities, location of natural elements as applicable, and notation of right-of-way points. (\$7,980 (fee); 2020)

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

**Manhattan Boulevard Southbound Lanes Widening, Harvey, Jefferson Parish, LA.** BFM executed a Route Topographic Survey of the Manhattan Boulevard southbound lanes from the West Bank Expressway to Gretna Boulevard; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. Work consisted of multiple project elements over several years. (\$77,733 (fee); 2018)

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

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



## TEC Professional Services Questionnaire

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

**Name & Title:**

**Curtis "Jay" Barrios**  
Survey Crew Chief

**Project Assignment:**

Survey Crew Chief

**Name of Firm with which associated:**

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

**Years' experience with this Firm:**

35 years (joined BFM in 1990);  
40 years total (1985)

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

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

*High School Diploma*

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

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

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

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

**Central Avenue Roadway Drainage & Water Main Improvements, Jefferson Parish, LA.** BFM provided surveying services; the scope consisted of verifying pipe sizes and inverts for drainage structures along the west side (only) of Central Avenue, which was located during a previous BFM project. BFM located any new drainage structures within the previous survey limits and determined the depth, size, and type of pipes within each drainage structure which were shown on the previous survey. This included catch basins, drop inlets, and ditch culvert pipes. Alterations/updates were noted on an updated version of the previous survey. (\$2,850 (fee); 2022)

**Lafitte Drainage Project, Town of Jean Lafitte, Jefferson Parish, LA.** BFM provided Route Topographic Surveying services for a proposed drainage servitude project which built on a previous BFM project (No. 10309). The project also included provision of boundary surveying in order to provide a servitude plat with legal description. The topographic survey element included

## TEC Professional Services Questionnaire

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

establishing a baseline along the route, location of existing improvements, location of drainage, sewerage, and water structures, locating trees and drip lines, and taking spot elevations. For the Servitude Survey, BFM located property corners on the affected properties, and adjacent lots, to verify the boundary. Deliverables included a detailed indelible prints and high-resolution PDFs, cross sections & Three-Point TIE worksheet, a metes-and-bounds legal description of the servitude, and AutoCAD drawing files in DWG format. (\$11,875 (fee); 2022)

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

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

**Bissonet Plaza Drainage Improvements (Phase 1), Metairie, Jefferson Parish, LA.** BFM prepared a Route Topographic Survey for Phase 1 of the project, located at Elmwood Parkway and Craig Avenue. This project built upon work executed by the firm for a previous extensive surveying project involving Bissonet Plaza subdivision; this allowed for BFM to build upon established surveys to save time and expenses. Surveying for each element of the project included services included confirming all controls and benchmarks, topographic features, location of improvements and utilities, location of natural elements as applicable, and notation of right-of-way points. (\$7,980 (fee); 2020)

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

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

## TEC Professional Services Questionnaire

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

**Name & Title:**

**Eric Gladney II**  
Survey Crew Chief

**Project Assignment:**

Survey Crew Chief

**Name of Firm with which associated:**

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

**Years' experience with this Firm:**

11 years (joined BFM in 2014);  
24 years total (2001)

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

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

*High School Diploma*

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

*American Traffic Safety Service Assn. – Traffic Flagger*  
*Basic OSHA Training Class Completion*  
*Norfolk Southern Roadway Worker Protection Contractor Safety Certificate*  
*Transportation Work Identification Card (TWIC)*

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

Eric Gladney's surveying experience includes topographic, boundary, and hydrographic surveying throughout the region. He has been a Survey Crew Chief on many hundreds of projects. He has had ATSSA certification, completed Basic OSHA Training Class, is Transportation Work Identification Card (TWIC) certified, and completed Norfolk Southern Roadway Worker Protection Contractor Safety Certification.

**Central Avenue Roadway Drainage & Water Main Improvements, Jefferson Parish, LA.** BFM Corporation provided surveying services for the project; the scope of which consisted of verifying pipe sizes and inverts for drainage structures along the west side (only) of Central Avenue, which was located during a previous BFM project. BFM located any new drainage structures within the previous survey limits and determined the depth, size, and type of pipes within each drainage structure which were shown on the previous survey. This included catch basins, drop inlets, and ditch culvert pipes. Alterations/updates were noted on an updated version of the previous survey. (\$2,850 (fee); 2022)

## TEC Professional Services Questionnaire

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

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

**Brewster Road Subsurface Drainage Improvements and Proposed Detention Pond, St. Tammany Parish, LA.** BFM provided multiple surveying services (including Boundary, Route Topographic, Right-of-Way, Drainage Study, Property Acquisition) for the project. The Limits of Survey included the area of Brewster Road between LA HWY 1077 and LA HWY 21; BFM provided Temporary Benchmarks, location of all improvements (natural and man-made) and utilities (including drainage, sewer, and water structures), limits of all properties, and coordination with State and Local agencies. BFM took cross-sections at 100 ft. intervals and property corners along the route to determine rights-of-way. (\$203,320 (fee); 2020)

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

**River Glen Drainage Project (FEMA Letter of Map Revision Survey), St. Tammany Parish, LA.** BFM Corporation provided surveying services to provide a FEMA Letter of Map Revision Survey for the River Glen Drainage Project and involved surveying of multiple private properties within the project limits. For the initial task, BFM's surveying services verified as-built elevation data on the drainage improvements performed in the River Glen Drainage Improvements construction project plans dated 2018 June 26 and updated previous BFM Project No. 8820 to reflect the drainage improvements completed. All field survey data and deliverables adhered to published FEMA standards. The next task included surveying of cross-sections of drainage ways and crossings within the western drainage sub-basin in the vicinity of Branch Crossing Drive and Airport Road (Study Basin 56). Overall, the survey included over 200 Cross Section locations and over 3 dozen Drainage Structure locations. (\$102,895 (fee); 2021)

## 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:						
<b>Mounes Street Subsurface Drainage (Phase IV, Dickory Avenue to Elmwood Park Boulevard),</b> Jefferson Parish, Louisiana  <b>APTIM</b> 2424 Edenborn Avenue Suite 450 Metairie LA 70001  <b>Gene S. Gillen, P.E.,</b> 504-832-4881 info@aptim.com	BFM provided topographic surveying services for Phase IV of the project, part of a multiphase program to improve drainage issues on Mounes Street. Phase IV of the project involved a topographic survey of the project, extending from Dickory Avenue to Elmwood Park Boulevard. Services provided by BFM included establishment of a baseline, setting temporary benchmarks (TBMs), elevation surveys, locating improvements and utilities as well as natural elements, and right-of-way surveying.						
Completion Date (Actual or estimated:)	Estimated Cost:						
	<table> <tr> <th style="text-align: center;">Entire Project:</th><th style="text-align: center;">Work for which Firm was Responsible:</th></tr> <tr> <td style="text-align: center;">December 2017</td><td> <table> <tr> <td style="text-align: center;">N/A</td><td style="text-align: center;">\$23,540 (fee)</td></tr> </table> </td></tr> </table>	Entire Project:	Work for which Firm was Responsible:	December 2017	<table> <tr> <td style="text-align: center;">N/A</td><td style="text-align: center;">\$23,540 (fee)</td></tr> </table>	N/A	\$23,540 (fee)
Entire Project:	Work for which Firm was Responsible:						
December 2017	<table> <tr> <td style="text-align: center;">N/A</td><td style="text-align: center;">\$23,540 (fee)</td></tr> </table>	N/A	\$23,540 (fee)				
N/A	\$23,540 (fee)						

### PROJECT NO. 2

Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:						
<b>Metairie Road Drainage Evaluation,</b> Metairie, Jefferson Parish, Louisiana  <b>GEC, Inc.</b> 3445 N Causeway Blvd Ste 401 Metairie LA 70002-3779  <b>Jerome Lohmann,</b> 504-207-6926 jlohmann@gecinc.com	BFM provided Route Topographic Surveying for this Drainage Evaluation Project (PW 2018-024-DR) in Jefferson Parish. The scope of services included a full Route Topographic Survey (includes all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work) from gutter line to gutter line along Metairie Road from the westerly apparent right-of-way (ROW) of Causeway Boulevard to easterly apparent R/W of Focis Street. The project encompassed approximately 10,400 linear feet, with cross-sections and elevations surveyed included as part of the scope.						
Completion Date (Actual or estimated:)	Estimated Cost:						
	<table> <tr> <th style="text-align: center;">Entire Project:</th><th style="text-align: center;">Work for which Firm was Responsible:</th></tr> <tr> <td style="text-align: center;">May 2020</td><td> <table> <tr> <td style="text-align: center;">N/A</td><td style="text-align: center;">\$18,350 (fee)</td></tr> </table> </td></tr> </table>	Entire Project:	Work for which Firm was Responsible:	May 2020	<table> <tr> <td style="text-align: center;">N/A</td><td style="text-align: center;">\$18,350 (fee)</td></tr> </table>	N/A	\$18,350 (fee)
Entire Project:	Work for which Firm was Responsible:						
May 2020	<table> <tr> <td style="text-align: center;">N/A</td><td style="text-align: center;">\$18,350 (fee)</td></tr> </table>	N/A	\$18,350 (fee)				
N/A	\$18,350 (fee)						



## TEC Professional Services Questionnaire

<b>PROJECT NO. 3</b>		
<b>Project Name, Location, and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Avenue D Drainage Improvements (Phase VIII: Allo Street)</b> , Metairie, Jefferson Parish, Louisiana  <b>Hartman Engineering, Inc.</b> 527 W Esplanade Ave Ste 300 Kenner LA 70065  <b>Jared Monceaux, P.E.</b> , 225-313-4617 jmonceaux@harteng.com	BFM Corporation executed a Route Topographic Survey for the Allo Street project area, which extended from 4th Street to 6th Street. A baseline was established along the centerline of Allo Street, with Temporary Benchmarks at each intersection along the route. Cross sections taken on a 25 ft. grid. Existing improvements were located within the designated Limits of Survey, as were visible above-ground and underground utilities, piping, and natural features including trees and shrubbery.	
Completion Date (Actual or estimated:)	<b>Estimated Cost:</b>	
	Entire Project:	Work for which Firm was Responsible:
April 2019	N/A	\$12,855 (fee)

<b>PROJECT NO. 4</b>		
<b>Project Name, Location, and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Orange Lane Drainage Pump Station Project (Drainage Mapping)</b> , Grand Isle, Jefferson Parish, Louisiana  <b>AIMS Group, Inc.</b> 4421 Zenith Street Metairie LA 70001  <b>Lowell Pitré, P.E.</b> , 504-887-7045 lip@aimsgroupinc.com	The project consists of a new storm water pumping station on the intersection of Orange Lane at Orleans Avenue in Grand Isle, Louisiana. The scope of services includes obtaining topographical survey information and the preparation of a drainage map for the project. Phase 1 of the project involved the topographic and right of way surveying services; BFM conducted a site topographic survey at the proposed lift station site and provided boundary surveying to determine rights of way. Phase 2 of the project established the Drainage Map. BFM located all drainage structures within the Limits of Survey; this included ditches, culverts, drain inlets, and catch basins. A drone survey was executed to gather a 25 ft elevation grid throughout the project area.	
Completion Date (Actual or estimated:)	<b>Estimated Cost:</b>	
	Entire Project:	Work for which Firm was Responsible:
August 2020	N/A	\$32,280 (fee)

## TEC Professional Services Questionnaire

<b>PROJECT NO. 5</b>		
<b>Project Name, Location, and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Bissonet Plaza Drainage Improvements (Phase 1, Elmwood Parkway and Craig Avenue),</b> Metairie, Jefferson Parish, Louisiana  <b>Meyer Engineers Ltd.</b> 4937 Hearst St. Ste. B Metairie LA 70001  <b>Ana Theriot, P.E.,</b> 504-885-9892	BFM prepared a Route Topographic Survey for Phase 1 of the project, located at Elmwood Parkway and Craig Avenue. This project built upon work executed by the firm for a previous extensive surveying project involving Bissonet Plaza subdivision; this allowed for BFM to build upon established surveys to save time and expenses. Surveying for each element of the project included services included confirming all controls and benchmarks, topographic features, location of improvements and utilities, location of natural elements as applicable, and notation of right-of-way points.	
<b>Completion Date (Actual or estimated:)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
March 2020	N/A	\$7,980 (fee)

<b>PROJECT NO. 6</b>		
<b>Project Name, Location, and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Lafitte Drainage Project,</b> Town of Jean Lafitte, Jefferson Parish, Louisiana  <b>Professional Engineering &amp; Environmental Consultants, Inc.</b> 1065 Muller Pkwy Ste B Westwego LA 70094  <b>Jeffrey P. Meyers, P.E.,</b> 225-268-6925 jeff@peecinc.com	BFM provided Route Topographic Surveying services for a proposed drainage servitude project which built on a previous BFM project (No. 10309). The project also included provision of boundary surveying in order to provide a servitude plat with legal description. The topographic survey element included establishing a baseline along the route, location of existing improvements, location of drainage, sewerage, and water structures, locating trees and drip lines, and taking spot elevations. For the Servitude Survey, BFM located property corners on the affected properties, and adjacent lots, to verify the boundary. Deliverables included a detailed indelible prints and high-resolution PDFs, cross sections & Three-Point TIE worksheet, a metes-and-bounds legal description of the servitude, and AutoCAD drawing files in DWG format.	
<b>Completion Date (Actual or estimated:)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
July 2022	N/A	\$11,875 (fee)

## TEC Professional Services Questionnaire

<b>PROJECT NO. 7</b>		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<b>Central Avenue Roadway Drainage &amp; Water Main Improvements</b> , Jefferson Parish, Louisiana  <b>Jefferson Parish</b> <b>Department of Capital Projects</b> 1221 Elmwood Park Blvd Ste 906 Jefferson LA 70123  <b>Neil Schneider</b> , 504-736-6833 nschneider@jeffparish.net	BFM provided surveying services for the project; the scope of which consisted of verifying pipe sizes and inverts for drainage structures along the west side (only) of Central Avenue, which was located during a previous BFM project. BFM located any new drainage structures within the previous survey limits and determined the depth, size, and type of pipes within each drainage structure which were shown on the previous survey. This included catch basins, drop inlets, and ditch culvert pipes. Alterations/updates were noted on an updated version of the previous survey.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
April 2023	N/A	\$2,850 (fee)

<b>PROJECT NO. 8</b>		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<b>Taft Park Pump Station and Drain Line Path</b> , Jefferson Parish, Louisiana  <b>Burk-Kleinpeter, Inc.</b> 4176 Canal Street New Orleans LA 70119  <b>Mr. Rhett Mouton, E.I.</b> , 504-483-6271	BFM executed Topographic Surveying services involving location & elevations of the drainage structures for monitoring of the Taft Park Pump Station. The survey encompassed the area extending from 33rd Street (Vernon Street) to West Napoleon Avenue. The scope included establishing a project baseline that could be recovered for construction; elevations & spot elevations, and; cross sections. The survey also plotted the location of improvements within the designated limits of survey.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
July 2009	N/A	\$23,531 (fee)

## TEC Professional Services Questionnaire

<b>PROJECT NO. 9</b>		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<b>Broadmoor Neighborhood Roadway &amp; Drainage Project</b> , City of New Orleans, Louisiana  <b>CDMSmith, Inc.</b> 1515 Poydras Street, Suite 1000 New Orleans LA 70112  <b>Jessica Watt</b> , 504-799-1100 WattsJL@cdmsmith.com	BFM prepared boundary and topographic surveys for multiple streets in the Broadmoor Neighborhood area for a major drainage project. Both full and partial Route Topographic Surveys were executed; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. Surveying locations included fifty intersections and a dozen lots, as well as neighborhood parks. As part of a contract amendment, BFM provided additional boundary and topographic surveying services for multiple streets in the Broadmoor/St. Andrew area.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
September 2017	N/A	\$1,052,171 (fee)

<b>PROJECT NO. 10</b>		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<b>Brewster Road Subsurface Drainage Improvements and Proposed Detention Pond</b> , St. Tammany Parish, Louisiana  <b>N-Y Associates, Inc.</b> 2750 Lake Villa Drive Metairie LA 70002  <b>Fred Mortali, P.E.</b> , 985-422-8331 fmortali@n-yassociates.com	BFM provided multiple surveying services (including Boundary, Route Topographic, Right-of-Way, Drainage Study, Property Acquisition) for the project. The Limits of Survey included the area of Brewster Road between LA HWY 1077 and LA HWY 21; BFM provided Temporary Benchmarks, location of all improvements (natural and man-made) and utilities (including drainage, sewer, and water structures), limits of all properties, and coordination with State and Local agencies. BFM took cross-sections at 100 ft. intervals and property corners along the route to determine rights-of-way.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
September 2020	N/A	\$203,320 (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>BFM Corporation 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.**

# BFM CORPORATION, LLC

## Professional Land & Hydrographic Surveying

### CRITERIA 1 | PROFESSIONAL TRAINING AND EXPERIENCE

Established in 1982, **BFM Corporation, LLC, Professional Land & Hydrographic Surveying**, provides services to public & private concerns throughout Louisiana and the Gulf South. For over 40 years, BFM has provided surveying services covering all facets of engineering, construction, and forensics; topographic and hydrographic, as well as drone-based surveying, LiDAR and photogrammetry, and high-definition laser scanning. BFM further offers a complete Builder's Package (featuring boundary survey and certificates for construction benchmark (CBM), form board, top-of-slab, and final FEMA elevation) as well as construction layout and stakeout services for any construction project, large or small.

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

Our capabilities include the following and more:

- Topographic Surveying
- Drone Surveying; Photogrammic & LiDAR and 3D Laser Scanning
- Bathymetric / Hydrographic Surveys
- Property, Boundary, and Right-of-Way Surveys



## TEC Professional Services Questionnaire

N. continued.

- Maps, Cross-Sections, & Data Sets; Benchmarks
- Construction-Related Surveying and Builder's Package Surveys
- American Land Title Association (ALTA) Surveys

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

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

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

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

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

**Please refer to our projects included in Item L and in our personnel listings in Item K for specific type project examples and an overview of our surveying experience with this project type.**

### CRITERIA 2 | SIZE OF FIRM

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

## TEC Professional Services Questionnaire

N. continued.

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

### CRITERIA 3 | CAPACITY FOR TIMELY COMPLETION

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

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

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

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

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

### CRITERIA 4 | PAST PERFORMANCE ON CDBG PROJECTS

BFM Corporation completes hundreds of projects throughout the year and for a multitude of private and governmental entities; however, as a sub-consultant, our clients do not divulge funding sources at the time of contract & services and, as such, we do not track this information.

### CRITERIA 5 | LOCATION OF THE PRINCIPAL OFFICE

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

## TEC Professional Services Questionnaire

N. continued.

### CRITERIA 6 | LEGAL STATEMENT

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

### CRITERIA 7 | PRIOR SUCCESSFUL COMPLETION OF PROJECTS

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

**Mark R. Drewes, P.E., Director, Public Works Department, Jefferson Parish**

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

**Angela DeSoto, P.E., Director, Engineering Department, Jefferson Parish**

(504-736-6511 | ADeSoto@jeffparish.net)

**Ben Lepine, Acting Director, Drainage Department, Jefferson Parish**

(504-736-6751 | JPDrainage@jeffparish.net)

**Neil Schneider, CCM, P.E., Director, Capital Projects, Jefferson Parish**

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

**Sid Trouard, P.E., Program Manager, Sewerage Capital Improvement Program, Jefferson Parish**

(504-736-6386 | STrouard@jeffparish.net)

**José A. Gonzales, CAO, City of Kenner**

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

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

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

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

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

Signature: 

Print Name: Chad M. Poché, P.E.

Title: Executive Vice President

Date: January 15, 2025