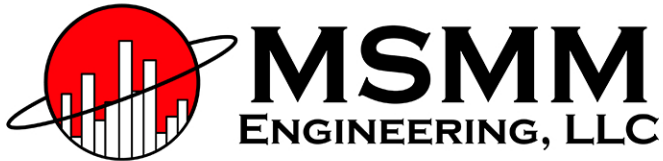
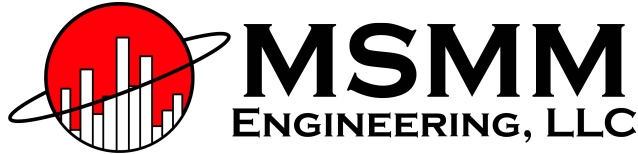


Professional Architectural & Engineering services
on and as-needed basis for Architectural type
projects located throughout Jefferson Parish
SOQ 20-20, Resolution No. 136764
January 20, 2021



In Association With





Architectural and Engineering Services for
Projects Located Throughout Jefferson Parish
(Resolution No. 136764)
Response to Request for SOQ

January 20, 2021

Jefferson Parish Council
C/o Ms. Eula Lopez, Parish Clerk
200 Derbigny Street, Suite 6700
Gretna, LA 70053

Subject: Professional Architectural and Engineering Services on an As-Needed Basis
for Architectural Type Projects Located Throughout Jefferson Parish.
(Resolution No. 136764).
Response to Request for Statements of Qualifications.

Dear Ms. Lopez:

It is our pleasure to respond to your Request for Statements of Qualification on the subject Architectural and Engineering Services for projects on an as-needed basis for architectural type projects located throughout Jefferson Parish. Accordingly, enclosed please find one (1) electronic copy of the proposal sent via the Central Bidding website.

MSMM Engineering, LLC (MSMM) is a certified DBE firm whose principals have more than 26 years of experience completing public works projects in the greater New Orleans metropolitan area, and Jefferson Parish in particular. MSMM's Principal, Mr. Manish Mardia, has been involved with multiple large scale design projects within the Parish including Harahan Pump to the River, Soniat Canal, Sauv  Road, and the drainage pump station at the New Orleans International Airport. Over the past couple of years, MSMM has provided extensive Architectural services to the United States Army Corps of Engineers (USACE) as we have designed a new Federal management building at a USACE managed lake in Texas, provided safe house design for several Federal drainage pump stations, and have been selected to initiate architectural design nationwide for the United States Air Force.

In addition to our portfolio of architectural projects identified above, MSMM has provided construction management, administration, and inspection services to the Parish on several projects of varying type inclusive of roadway, drainage, sewerage and water projects. In addition, MSMM has provided field data collection and analysis of the entire Jefferson Parish wastewater collection system. Furthermore, MSMM has also recently

Website: www.msmmeng.com

Main Office: 4640 S. Carrollton Avenue, Suite 220, New Orleans, LA 70119

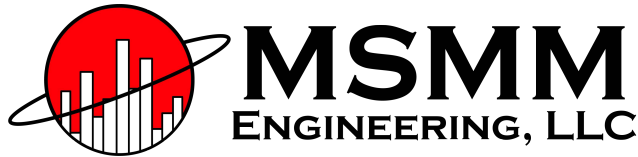
Metairie Office: 4508 Clearview Parkway, Metairie, La 70006

Baton Rouge Office: 16018 Highway 73, Prairieville, La 70769

504-570-6098

504-559-1897

225-313-4429



Architectural and Engineering Services for
Projects Located Throughout Jefferson Parish
(Resolution No. 136764)
Response to Request for SOQ

provided construction management and administration services several municipalities and the Federal government in Louisiana and Texas.

Our staff members consist of registered professional architects, as well as civil, structural, electrical, mechanical, and environmental engineers with extensive experience designing and managing architectural projects in addition to public works projects such as roadways, culverts, bridges, subsurface drainage, drainage pump stations, wastewater collection system, wastewater treatment plants, and sewer lift stations. We also have staff with experience in environmental permitting, agency coordination, construction management, resident inspection and report writing.

As we have described above, MSMM provides a staff with tremendous experience working on multiple architectural projects that span extensive business lines and utility systems. Thus, we offer a team fully capable of providing excellent design and construction administration services for architectural and engineering projects for Jefferson Parish.

Please feel free to contact us at 504-559-1897 if you require any additional information.

Sincerely,
MSMM Engineering, LLC

Manish Mardia, P.E.
President

Enclosures

Website: www.msmmeng.com

Main Office: 4640 S. Carrollton Avenue, Suite 220, New Orleans, LA 70119

Metairie Office: 4508 Clearview Parkway, Metairie, La 70006

Baton Rouge Office: 16018 Highway 73, Prairieville, La 70769

504-570-6098

504-559-1897

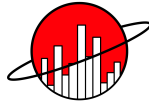
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TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

**Professional Architectural & Engineering Services
for Architectural Type Projects Located Throughout the Parish
Resolution No. 136764**

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



MSMM
ENGINEERING, LLC

4508 Clearview Parkway
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

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
LA License No. 28482

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

1	Administrative	_____	Estimators	_____	Specification Writers
1	Architects (Licensed)	_____	Geologists	1	Structural Engineers
_____	Chemical Engineers	_____	Geotechnical Engineers	_____	Graduate Engineers
4	Civil Engineers	_____	Interior Designers	3	Project Managers
3	Construction Inspectors	_____	Landscape Architects	_____	Clerical
_____	Ecologists	_____	Land Surveyor	_____	Grant/Funding Specialist
1	Electrical Engineers	1	Mechanical Engineers	_____	Sanitary Engineers
2	Engineer Intern	2	Environmental Engineers	1	Administrative/Accounting
_____	Professional Land Surveyors	4	CAD Draftsman	25	TOTAL
1	Environmental Scientist	_____	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.

General 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. N/A		
2. N/A		
H. Has this JOINT-VENTURE previously worked together? Please check: YES <input type="checkbox"/> NO <input type="checkbox"/>		
I. List all subcontractors anticipated for this Project. Please note that <u>all subcontractors must submit a fully completed copy of this questionnaire</u>, applicable licenses, and any other information required by the advertisement. See Jefferson parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.		
Name & Address:	Specialty	Worked with Firm Before (Yes or No):
1. Gulf South Engineering and Testing, Inc. 2201 Aberdeen Street, Suite B Kenner, LA 70062	Geotechnical Investigation, Construction Materials Testing	Yes
2. BFM Corporation, LLC 534 Williams Boulevard Kenner, LA 70062	Survey, Right-of-Way Research, Utility Investigation	Yes
J. Please specify the total number of support personnel that may assist in the completion of this Project: <div style="margin-left: 20px;"><u>25</u></div>		

TEC Professional Services Questionnaire

PROFESSIONAL IN CHARGE OF PROJECT:
Name & Title:
Manish Mardia, P.E. President
Project Assignment:
Principal
Name of Firm with which associated:

Years' experience with this Firm:
10 (2011)
Education: Degree(s)/Year/Specialization:
M.S. in Civil Engineering, 1994, Louisiana State University B.S. in Civil Engineering, 1990, University of Jodhpur
Active registration: Year first registered/discipline:
Year First Registered: 1999 Discipline: <u>Environmental</u> State: <u>Louisiana</u> License No.: <u>28482</u> <i>Also registered in Mississippi (18522)</i>
Other experiences and qualifications relevant to the proposed Project:
<p>Mr. Mardia is a registered professional civil and environmental engineer with over 25 years of experience managing public works projects within Jefferson Parish. His project experience includes management and design of wastewater facilities, streets, roads and bridges, environmental assessments, NEPA documentation, civil and environmental design, and construction administration and design for water, sewerage, drainage, streets and public infrastructure projects within Jefferson Parish. Mr. Mardia's public works experience also extends to associated hydraulic modeling of sanitary sewer systems, design of pump stations, usage of modeling software such as InfoWorks, and SewerCAD, GIS and CAD design of complex projects and development of environmental solutions on projects in Jefferson Parish and across Southern Louisiana. Mr. Mardia is intimately familiar with GPS surveys, GIS databases and GIS mapping associated with public sector infrastructure projects inclusive of wastewater, streets, roads, bridges, drainage, environmental, planning and construction.</p> <p>Mr. Mardia has successfully completed over 250 public works projects for construction management, disaster mitigation, disaster recovery, roadways, drainage, sewerage, airports, flood control, permitting, environmental assessments and HTRW studies. He has worked <i>on more than 200 projects for various departments of Jefferson Parish</i>. These projects were successfully completed on time and schedule. Projects ranges from 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. Mr. Mardia has coauthored several journal articles and presented in various conferences. His memberships include ASCE, SAME, WEF and LES.</p> <p>Specific project experience of Mr. Mardia is detailed below:</p>

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Manish Mardia, P.E.
President

Hillaryville Sewer Liftstation and Force Main Design, Ascension Parish, LA. MSMM recently completed full engineering and design of a sewer lift station and force main in the community of Hillaryville in Ascension Parish, LA. This project was designed under a partnership between the USACE New Orleans Parish and cost sharing partner Ascension Parish. Public infrastructure needs in Ascension Parish were due to a wastewater sewer system that was antiquated and could not support future population growth. The project involved full engineering, design, construction administration and engineering during construction of a new effluent pump station and effluent discharge line. The discharge lines and effluent pump station were designed to be a 562 gpm effluent sewer pump station to serve the existing Hillaryville Wastewater Treatment Plant which was approximately 3,500 linear feet of 10" effluent forcemain, crossing the Mississippi River levee, and dolphin support structure in the river for the pipe outlet, electrical and control panel, generator and fuel tank. Mr. Manish acted as the Principal in Charge while handling QA/QC and Client Interface/Interaction.

New Orleans International Airport Drainage Pump Station, Kenner, LA. Complete design services for the new 600 cfs stormwater drainage pump station and for all landside drainage as part of constructing a new airport terminal in the New Orleans International airport. The pump station will add 600 cfs of capacity to Jefferson Parish east bank's current capacity of 19,935 cfs, and project accomplishments included envisioning, assessing and designing this important addition to the region's flood protection abilities. The \$45 million of drainage mitigation design is a part of the highly anticipated \$826 million of airport improvements to be completed in time for the city's tricentennial anniversary in 2018. The project involved working under extremely compressed schedule, while successfully delivering on a true multi-disciplinary effort spanning civil, structural, electrical, mechanical and environmental engineering, hydraulic modeling (HEC-HMS and HEC-RAS), architectural services, cost estimating, environmental permitting, drafting (CAD, Civil 3D, REVIT, GIS), and agency coordination (COE, CPRA, EJLD, SLFPA-E, LDNR, Entergy, City of New Orleans, City of Kenner, and Jefferson Parish). The station was designed to contain four 150 cfs pumps with 900 HP motors. Mr. Mardia was the Program Manager responsible for daily delivery of the program. See Section L - Project 01 for additional information.

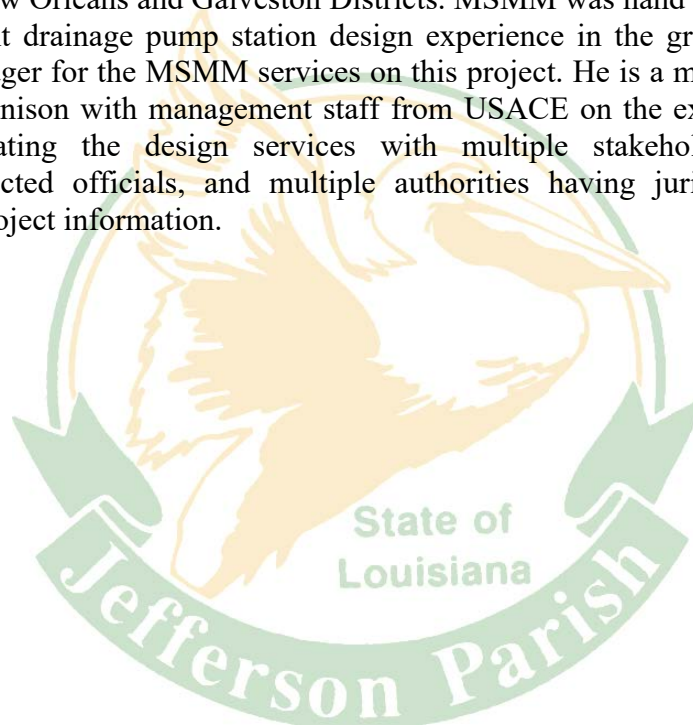
Ascension Parish Regional Wastewater Treatment Plant, Ascensions Parish, LA. Through a Federal program to fund Environmental Infrastructure programs within local municipalities, MSMM, representing the USACE New Orleans District, is working with the Ascension Parish Government (non-Federal sponsor) to design a regional wastewater treatment plant (WWTP) adjacent to recent MSMM designed sewer pump stations. MSMM will be responsible for providing 100% bid ready plans and specifications (in USACE format) for a new 1.5 million gallon per day (average daily flow) WWTP to increase treatment capacity and facilitate regionalization of the Parish. Mr. Manish acted as the Principal in Charge while handling QA/QC and Client Interface/Interaction. See Section L - Project 04 for additional information.

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Manish Mardia, P.E.
President

Cow Bayou Drainage Pump Station Complex, Orange, TX. MSMM is currently designing an 8,190 cfs drainage pump station in Orange County Texas as part of the Sabine Pass to Galveston Bay Texas Coastal Storm Risk Management and Ecosystem Restoration project. MSMM is responsible for all design activities for the features of work associated with the Sabine to Galveston, Cow Bayou Complex. The Cow Bayou Complex includes the design efforts for tie-in levee's, transition floodwall tying the floodwall into the levee section, multiple T-wall monoliths (both straight and P.I. monoliths), Drainage Structures (sluice gate structures & culverts through the floodwall) that are used to maintain flows of existing bayous, horizontal and vertical lift gates, a sector gate monolith for navigational traffic, and the 8190 cfs pumping station. This project is being designed for the USACE New Orleans and Galveston Districts. MSMM was hand selected by USACE to design this project, based on recent drainage pump station design experience in the greater New Orleans area. Mr. Mardia is the program manager for the MSMM services on this project. He is a member of the USACE project delivery team, working in unison with management staff from USACE on the execution of the project. He is also involved in coordinating the design services with multiple stakeholders, including the inland waterways board, local elected officials, and multiple authorities having jurisdiction. See Section L - Project 03 for additional project information.



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	Jim Wilson, P.E. Lead Civil Engineer
Project Assignment:	Civil Engineer
Name of Firm with which associated:	
Years' experience with this Firm:	7 (2014)
Education: Degree(s)/Year/Specialization:	B.S. in Civil Engineering, 1988, Michigan Technological University
Active registration: Year first registered/discipline:	Year First Registered: 1992 Discipline: <u>Civil</u> State: <u>Louisiana</u> License No.: <u>35456</u> <i>Also registered in Michigan (38800)</i>
Other experiences and qualifications relevant to the proposed Project:	
<p>Mr. Wilson is a senior civil/drainage engineer with over 26 years of experience in the public sector, successfully designing and managing drainage, sewerage, roadway, waterlines, and site development projects in Jefferson Parish. Mr. Wilson is currently designing multiple projects in Louisiana that require intimate knowledge of the unique soil characteristics experienced in Southern Louisiana. Mr. Wilson is intimately familiar with the characteristics, existing infrastructure, and design practices in Jefferson Parish. As a result of designing multiple projects in this area within a short period of time, Mr. Wilson has developed excellent working relationship with many of the local authorities having jurisdiction (AHJ) over the features, utilities, properties and regulatory requirements in Jefferson Parish, Kenner, Slidell and Ascension Parish, such as U.S. Army Corps of Engineers, Coastal Protection & Restoration Authority of Louisiana (CPRA), LDEQ, LDNR Office of Coastal Management, U.S. Coast Guard, and the East Jefferson Levee District (EJLD).</p> <p><i>New Orleans International Airport Drainage Pump Station, Kenner, LA.</i> MSMM recently completed full engineering design services for a new 600 cfs drainage pump station and for all landside drainage, as part of constructing the new airport terminal at the New Orleans International Airport. The FAA funded project consisted of \$45M of drainage mitigation design inclusive of landside and airside drainage. Mr. Wilson was the lead Civil Engineer and design of record for the project. He was responsible for developing the Civil Design Plans and Bid ready documents. He also provided construction phase services, RFI response and show drawing review. See Section L - Project 01 for additional project information.</p> <p><i>Sludge Line to the River from Carrollton Water Purification Plant, New Orleans, LA.</i> This project involved design and permitting to install one new 36" sludge line from the Sewerage and Water Board of New Orleans Carrollton Water Purification Plant to discharge into the Mississippi River. The roughly 4,300 ft</p>	

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Jim Wilson, P.E.
Lead Civil Engineer

distance of sludge line traveled along (3) densely populated neighborhood streets, crossed multiple railroad tracks, crossed an existing flood protection levee on the Mississippi River, and crossed over the existing bike path on the levee crown. Mr. Wilson was the designer of record for this project. See Section L - Project 06 for additional project information.

Granger Lake Management Office, Granger Lake, TX. Granger Lake Management Office design package completed by MSMM consisted of the development of a construction package for the remediation and demolition of the existing 5,890 SF lake management facility located at 3100 Granger Dam Road, Granger, TX, and the design of a new facility across Granger Dam Road from the existing facility. The new facility will be one story and is designed for approximately 4,856 SF in gross area. The design of the new facility includes site development, new construction inclusive of all required services (i.e. electrical/mechanical/ fire protection/life safety/civil/structural/architecture). Design activities also included the design of landscaping, new paving, paving repairs, and force protection. The new facility will house offices for lake management staff, and a conference room to accommodate up to 60 people with tables and chairs. Site lighting was designed, along with parking for visitors and staff. Additionally, the fencing design required for the government vehicle and equipment compound behind the new office, was designing and included with the construction documents. Mr. Wilson was the lead Civil Engineer for the project. He was responsible for site development design, inclusive of grading, the septic system, bollard and fence design, and design of the drive apron, parking lot and RV pull-off area. See Section L - Project 02 for additional project information.

Sauvé Road Drainage Improvements, Jefferson Parish, LA. Design and construction administration for subsurface drainage improvements to the Sauve Road and Jefferson Highway area consisting of the construction of a 40 cfs drainage pump station and force main discharging into the Mississippi River. The project also consisted of gravity line installations, any street work, and utility adjustments necessitated by the work. Mr. Wilson performed 100% of the planning, engineering phase services, and construction phase services for the construction of a drainage pump station. Through a collaboration between the USACE New Orleans District and Jefferson Parish, the project resulted in the design and construction of a 60 cfs (27,000 gpm) drainage pumping station, 2,600 linear feet of 30" and 36" discharge forcemains and 60" gravity drainage. To this date, this project has been viewed as one of the most successful post Katrina storm risk reduction measures constructed in Jefferson Parish, as the flooding impact on the neighborhood has been greatly diminished.

Hillaryville Sewer Liftstation and Force Main Design, Ascension Parish, LA. MSMM recently completed full engineering and design of a sewer lift station and force main in the community of Hillaryville in Ascension Parish, LA. This project was designed under a partnership between the USACE New Orleans Parish and cost sharing partner Ascension Parish. Public infrastructure needs in Ascension Parish were due to a wastewater sewer system that was antiquated and could not support future population growth. The project involved full engineering, design, construction administration and engineering during construction of a new effluent pump station and effluent discharge line. The discharge lines and effluent pump station were designed to be a 562 gpm effluent sewer pump station to serve the existing Hillaryville Wastewater Treatment Plant which was approximately 3,500 linear feet of 10" effluent forcemain, crossing the Mississippi River levee, and dolphin support structure in the river for the pipe outlet, electrical and control panel, generator and fuel tank. Mr. Wilson was the Engineer of Record and responsible for construction administration for the project.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	Scott Chehardy, P.E. Vice-President
Project Assignment:	Senior Project Manager
Name of Firm with which associated:	
Years' experience with this Firm:	5 (2016)
Education: Degree(s)/Year/Specialization:	B.S. in Civil Engineering, 1994, University of Southwestern LA
Active registration: Year first registered/discipline:	<p style="text-align: center;">Year First Registered: 1998</p> <p style="text-align: center;">Discipline: <u>Civil</u> State: <u>Louisiana</u> License No.: <u>28532</u></p>
Other experiences and qualifications relevant to the proposed Project:	
<p>Mr. Chehardy has over two decades of civil design and hydraulic evaluation experience in Louisiana's coastal Parishes. He has successfully designed levees and floodwalls, pump stations and forcemains, and canals and box culverts. His design and assessment experience spans 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 & 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&WBNO, etc. Mr. Chehardy's levee design work included West Bank & 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 & Vicinity, Algiers Canal Levee West, Algiers Lock to Hwy. 23, Orleans & Plaquemines Parish (EAR \$230M to \$425M), and West Bank & 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><i>New Orleans International Airport Drainage Pump Station, Kenner, LA.</i> Complete design services for a new 600 cfs stormwater drainage pump station and for all landside drainage as part of constructing a new airport terminal in the New Orleans International airport. The pump station will add 600 cfs of capacity to Jefferson Parish east bank's current capacity of 19,935 cfs, and project accomplishments included envisioning, assessing and designing this important addition to the region's flood protection abilities. The \$45 million of drainage mitigation design is a part of the highly anticipated \$826 million of airport improvements to be completed in time for the city's tricentennial anniversary in 2018. The project involved working under</p>	

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Scott Chehardy, P.E.
Vice-President

extremely compressed schedule, while successfully delivering on a true multi-disciplinary effort spanning civil, structural, electrical, mechanical and environmental engineering, hydraulic modeling (HEC-HMS and HEC-RAS), architectural services, cost estimating, environmental permitting, drafting (CAD, Civil 3D, REVIT, GIS), and agency coordination (COE, CPRA, EJLD, SLFPA-E, LDNR, Entergy, City of New Orleans, City of Kenner, and Jefferson Parish). The station was designed to contain four 150 cfs pumps with 900 HP motors and 60" discharge pipes of more than 4,000 ft combined run. Mr. Chehardy conducted hydraulic calculations, designed pumps and forcemain, developed quantity and cost estimates, reviewed shop drawings, observed manufacture and testing of pump station automated bar screens and responded to multiple requests for information (RFI). See Section L - Project 01 for additional project information.

Kennedy Heights Sewer Pumpstation Improvements, Jefferson Parish, LA. 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 was the Engineer of Record and lead the MSMM design efforts. See Section L - Project 10 for additional project information.

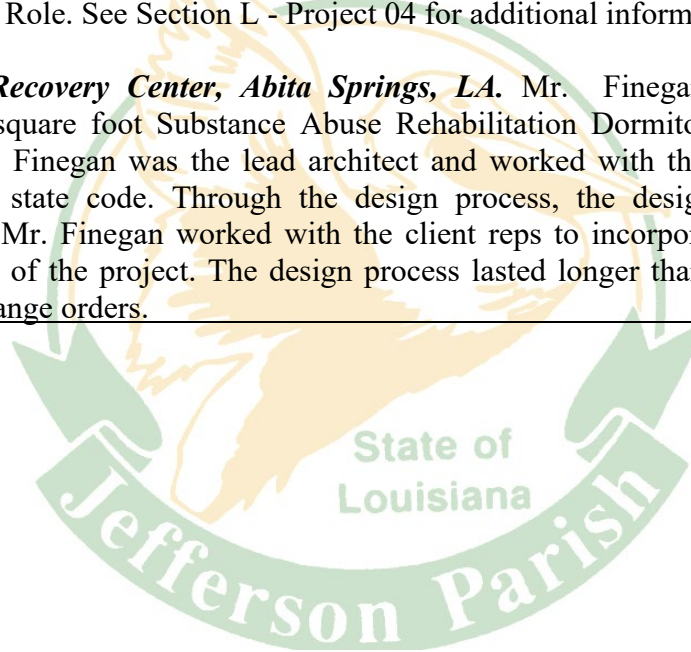
Cow Bayou Drainage Pump Station, Orange, TX. MSMM has been tasked with providing the civil and structural design for the Cow Bayou Complex, a component of the Sabine Pass to Galveston Bay, Orange project. This 8,000 CFS drainage pump station is currently under design via USACE MVN for New Orleans and Galveston Districts. The pump station site is located on remote vacant lot; therefore, site development, include site access, is required in addition to the pump station design. Mr. Chehardy is providing the site development design, including new utilities, roadways, and drainage features. See Section L - Project 03 for additional project information.

Ascension Parish Regional Wastewater Treatment Plant, Ascensions Parish, LA. Through a Federal program to fund Environmental Infrastructure programs within local municipalities, MSMM, representing the USACE New Orleans District, is working with the Ascension Parish Government (non-Federal sponsor) to design a regional wastewater treatment plant (WWTP) adjacent to recent MSMM designed sewer pump stations. MSMM will be responsible for providing 100% bid ready plans and specifications (in USACE format) for a new 1.5 million gallon per day (average daily flow) WWTP to increase treatment capacity and facilitate regionalization of the Parish. Mr. Chehardy is the lead Civil Engineer and designer of record for the project. He is responsible for leading the multi-disciplinary engineering team and incorporating all engineering/architectural design additions/changes into the final design drawings. See Section L - Project 04 for additional information.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	Steve Finegan, AIA Architect
Project Assignment:	Architect
Name of Firm with which associated:	
Years' experience with this Firm:	5 (2016)
Education: Degree(s)/Year/Specialization:	Master of Architecture, Tulane University, 1984
Active registration: Year first registered/discipline:	Year First Registered: 1987 Discipline: Architect State: Louisiana License No.: 3898 <i>Also Licensed in TX (No. 25434); TN (No. 106064); MS (No. 2873); AL (No. 5101)</i>
Other experiences and qualifications relevant to the proposed Project:	
<p>Mr. Finegan has been a licensed Architect in Louisiana since 1987 and has provided lead Architectural services for hundreds of commercial and industrial projects of all sizes including hotels, restaurants, warehouses, offices, etc. Since joining MSMM, Mr. Finegan has worked on the development of architectural plans for Government clients, inclusive of following all Federal guidelines when providing design services.</p> <p>Granger Lake Management Office Replacement, Granger Lake, TX MSMM is providing full architectural and engineering design for the approximate 6,000 square foot office building replacement for the Ft. Worth District of U.S. Army Corps of Engineers. Mr. Finegan is the lead architect for the project and is responsible for leading the design charrette, providing conceptual drawings, developing and providing detailed drawings of the building, site, security layout and utilities. Currently, MSMM has provided the 60% design drawings and is awaiting feedback from the USACE Ft. Worth District. This project will be bid at the end of the current fiscal year. The landside drainage design effort required continuous close coordination with the roadway drainage designers, the terminal designers, and the apron designers. This required extreme flexibility and adaptability to incorporate numerous changes to other designs into drainage design via multiple hydraulic modeling exercises, and multiple pipe networking and sizing. More than 5 miles of drainage piping (size range of 15" to 72" diameter), open channels and box culverts were designed to route stormwater flow from the terminal to its discharge points. See Section L - Project 02 for additional project information.</p> <p>Cow Bayou Drainage Pump Station Complex Design, Orange County TX. MSMM has been tasked with providing the civil and structural design for the Cow Bayou Complex, a component of the Sabine Pass to Galveston Bay, Orange project. This 8,000 CFS drainage pump station is currently under design via USACE MVN for New Orleans and Galveston Districts. The pump station site is located on a remote, vacant</p>	

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Steve Finegan, AIA Architect
lot; therefore, site development, include site access, is required in addition to the pump station design. Mr. Finegan is the lead Architect on the project. He is responsible for providing design services for the safe house which will house all facilities required for the staff, inclusive of restrooms, dormitory housing and dining hall facilities. See Section L - Project 06 for additional project information.
<i>Ascension Parish Regional Wastewater Treatment Plant, Ascensions Parish, LA.</i> Through a Federal program to fund Environmental Infrastructure programs within local municipalities, MSMM, representing the USACE New Orleans District, is working with the Ascension Parish Government (non-Federal sponsor) to design a regional wastewater treatment plant (WWTP) adjacent to recent MSMM designed sewer pump stations. MSMM will be responsible for providing 100% bid ready plans and specifications (in USACE format) for a new 1.5 million gallon per day (average daily flow) WWTP to increase treatment capacity and facilitate regionalization of the Parish. Role. See Section L - Project 04 for additional information.
<i>Longbranch Retreat and Recovery Center, Abita Springs, LA.</i> Mr. Finegan recently completed design services for a new 11,000 square foot Substance Abuse Rehabilitation Dormitory in Abita Springs, LA for Longbranch Healthcare. Mr. Finegan was the lead architect and worked with the client to provide all design services to meet local and state code. Through the design process, the design approach was continually modified by the client, and Mr. Finegan worked with the client reps to incorporate all changes and design a facility that met the end use of the project. The design process lasted longer than a year, and the facility was constructed with minimal change orders.



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Joshua Carson Business Development Manager / Project Manager
Project Assignment:
Project Manager
Name of Firm with which associated:

Years' experience with this Firm:
5 (2016)
Education: Degree(s)/Year/Specialization:
B.S. in Biology, 2007, Baldwin-Wallace University M.S. in Environmental Policy, 2011, Johns Hopkins University
Active registration: Year first registered/discipline:
None
Other experiences and qualifications relevant to the proposed Project:
<p>Mr. Carson is a former USACE project manager who was responsible for managing USACE projects across all business lines, inclusive of navigation, environmental restoration, military design, IIS and flood risk management. Mr. Carson currently manages MSMM design project for multiple clients, inclusive of City of New Orleans DPW roadway design projects. He is tasked with developing schedules, managing budgets and working with client reps to ensure scope and schedule compliance, identify risk, adhere to the design quality management plan and develop scheduling solutions for projects with multiple stakeholders/authorities having jurisdiction.</p> <p><i>New Orleans International Airport Drainage Pump Station, Kenner, LA.</i> Complete design services for a new 600 cfs stormwater drainage pump station and for all landside drainage as part of constructing a new airport terminal in the New Orleans International airport. The pump station added 600 cfs of capacity to Jefferson Parish east bank's current capacity of 19,935 cfs, and project accomplishments included envisioning, assessing and designing this important addition to the region's flood protection abilities. The \$45 million of drainage mitigation design is a part of the highly anticipated \$826 million of airport improvements to be completed in time for the city's tricentennial anniversary in 2018. The project involved working under extremely compressed schedule, while successfully delivering on a true multi-disciplinary effort spanning civil, structural, electrical, mechanical and environmental engineering, hydraulic modeling, architectural services, cost estimating, environmental permitting, drafting, and agency coordination. The station was designed to contain (4) 150 cfs pumps with 900 HP motors. Mr. Carson served as the day-to-day project manager for this project. He worked with the Client and the Airport to establish contract documents, establish deliverable timelines, ensure quality control of deliverables, and briefed the client on weekly updates. Mr. Carson was also involved in environmental permitting decision making. See Section L - Project 01 for additional project information.</p>

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Joshua Carson
Business Development Manager/Project Manager

Ascension Parish Infrastructure, Ascension Parish, LA. Through a collaboration with Ascension Parish and the New Orleans District (MVN), MSMM identified a project to route effluent discharge away from a neighborhood ditch and properly treat it to be within LA DEQ regulations. This consisted of the design and construction of a sewerage project that consisted of a 562 gpm sewerage pump station and 4,068 feet of discharge pipe that travels underneath two (2) state highways and over the Mississippi River Levee before discharging into the Mississippi River. The project required extensive permitting through the following agencies: LADODT, LADEQ, CPRA and USACE. Mr. Carson led the permitting process and obtained all required permits within an expedited timeframe to meet the deadline established by the Corps to meet the Federal budgeting cycle. The project was recently constructed and all permitting requirements were met. Follow-up sampling requirements outlined in the LADEQ permit have now also been implemented and are being met. Section L - Project 08 for additional project information.

Granger Lake Management Office, Granger Lake, TX. Granger Lake Management Office design package completed by MSMM consisted of the development of a construction package for the remediation and demolition of the existing 5,890 SF lake management facility located at 3100 Granger Dam Road, Granger, TX, and the design of a new facility across Granger Dam Road from the existing facility. The new facility will be one story and is designed for approximately 4,856 SF in gross area. The design of the new facility includes site development, new construction inclusive of all required services (i.e. electrical/mechanical/ fire protection/life safety/civil/structural/architecture). Design activities also included the design of landscaping, new paving, paving repairs, and force protection. The new facility will house offices for lake management staff, and a conference room to accommodate up to 60 people with tables and chairs. Site lighting was designed, along with parking for visitors and staff. Additionally, the fencing design required for the government vehicle and equipment compound behind the new office, was designing and included with the construction documents. Mr. Carson was the primary project manager responsible for leading the design team and being the liaison between the design team and the Federal government. See Section L - Project 02 for additional project information.

Hillaryville Sewer Liftstation and Force Main Design, Ascension Parish, LA. MSMM recently completed full engineering and design of a sewer lift station and force main in the community of Hillaryville in Ascension Parish, LA. This project was designed under a partnership between the USACE New Orleans Parish and cost sharing partner Ascension Parish. Public infrastructure needs in Ascension Parish were due to a wastewater sewer system that was antiquated and could not support future population growth. The project involved full engineering, design, construction administration and engineering during construction of a new effluent pump station and effluent discharge line. The discharge lines and effluent pump station were designed to be a 562 gpm effluent sewer pump station to serve the existing Hillaryville Wastewater Treatment Plant which was approximately 3,500 linear feet of 10"effluent forcemain, crossing the Mississippi River levee, and dolphin support structure in the river for the pipe outlet, electrical and control panel, generator and fuel tank. Mr. Carson was the liaison between USACE and the non-Federal client. He relayed information between the two parties, established regular communication and coordinated deliverable timelines, review procedures and budget information between the two parties.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	Tom Willis, P.E. MBA - Hydraulic Engineer
Project Assignment:	Hydraulic Modeler
Name of Firm with which associated:	
Years' experience with this Firm:	5 (2016)
Education: Degree(s)/Year/Specialization:	M.B.A., 1989, Louisiana State University B.S., 1981, Civil Engineering, Louisiana State University
Active registration: Year first registered/discipline:	Year First Registered: 1991 Discipline: <u>Civil and Environmental</u> State: <u>Louisiana</u> License No.: <u>24205</u>
Other experiences and qualifications relevant to the proposed Project:	
<p>Mr. Willis has been a Senior Project Manager at MSMM Engineering, LLC since September 2012, where he is conducting civil engineering design and hydrologic and hydraulic analyses of the stormwater drainage systems associated with roadways, bridges, highways, and airports in Kenner, New Orleans, Jefferson Parish and St. Tammany Parish areas. Mr. Willis is a registered civil and environmental engineer with over 31 years of experience in the public works engineering field. Prior to joining MSMM, Mr. Willis conducted numerous design, analysis and inspection activities at airports, conducted master planning, feasibility studies, environmental studies, highway drainage design and permitting.</p> <p>Mr. Willis has successfully completed numerous road, bridge and highway design work around the US, especially related to drainage infrastructure associated with these arteries as presented below:</p> <p><i>Southern University Drainage Outfall Ravine and Riverbank Instability Study, Baton Rouge, LA.</i> As part of the Silver Jackets at the USACE - New Orleans District, MSMM performed a feasibility study to identify the appropriate courses of action to resolve ongoing erosion and flooding problems on the Southern University Campus. Mrs Willis ran a HEC-RAS model and developed project alternative design to address erosion problems at the several areas on campus. His analysis provided solutions for the following issues: paving reparis and ravine side deterioration area, Baranco-Hill health center perimeter and outfall bank land-loss areas and the outfall ravine lower reach channel degradation area.</p> <p><i>New Orleans International Airport Taxiway Golf and Taxiway Bravo Extension, Kenner, LA.</i> MSMM was responsible for performing hydraulic modeling and drainage design features as part of the extension at the airport. MSMM design features consisted of utility relocation, perimeter fence design, drainage feature design, and the covering of a concrete box culvert intake channel. Mr. Willis completed the drainage model</p>	

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Tom Willis, P.E. MBA - Hydraulic Engineer

associated with the project. He was responsible for preparing H&H model by analyzing the existing drainage conditions, researching and obtaining as-built information for the perimeter access roads, updating the parish H&H model, and proving proposed drainage options for sizing the pipes.

Mirabeau Gardens Stormwater Management and Flood Mitigation Green Infrastructure Project, New Orleans, LA. MSMM performed the hydraulic modeling for this green infrastructure project that involved intake of water from the Mirabeau trunk line into the project site vis a forebay, followed by pumps, vegetated filtration ponds, freshwater swimming pool, woodlands, washes and bioswales, recreational, education and sports amenities, and eventual discharge into the Mirabeau trunk line. Mr. Willis conducted the H&H modeling, derived model predicated flood depths, and mapped flooded areas and flood depths. This data was utilized by FEMA to calculate benefit cost ration (BCR) of the project. The modeling efforts and deliverables proved to be key elements that facilitated a BCR of greater than 1.0, which allowed the project to be ready to bid.

New Orleans International Airport Drainage Study, Kenner, LA. MSMM determined the runoff contribution of the New Louis Armstrong New Orleans International airport facility and determined the incremental runoff generated by the overall airport facility. Mr. Willis performed all the H&H modeling for the project. He was responsible for identifying restrictive structures/obstructions and combing Airport hydraulics with Jefferson Parish wide hydraulics. He was also responsible for determining the runoff contributions and sizing the drainage pump station that MSMM designed.

Woodlake Estates/Seton Park Subdivision Drainage Pump Station, Jefferson Parish, LA. MSMM was tasked by the Jefferson Parish council to evaluate drainage pump station alternatives to solve the issue of long-term flooding in 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 which bypass the capacity limitations of the canals and alleviate stormwater flooding in the area. Mr. Willis was the hydraulic modeler for this feasibility study. He modeled all the project alternatives and ran multiple iterations of pump station features for development of the project cost estimates. Mr. Willis helped the MSMM engineering staff find the most preferred site for each station and developed the benefits expected from each alternative.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Harry Hawney, P.E., MBA Sr. Electrical Engineer
Project Assignment:
Electrical Engineer
Name of Firm with which associated:

Years' experience with this Firm:
9 (2012)
Education: Degree(s)/Year/Specialization:
B.Eng. (Electronics Engineering), National University of Ireland, 1970 MBA, Trinity College, Dublin, Ireland, 1971
Active registration: Year first registered/discipline:
Year First Registered: <u>1981</u> Discipline: <u>Electrical</u> State: <u>Louisiana</u> License No.: <u>19229</u>
Other experiences and qualifications relevant to the proposed Project:
<p>Mr. Hawney has over 40 years of power and electrical engineering experience, inclusive of electrical system inspection, planning, design and reporting. His electrical engineering experience has been utilized in projects as varied as roadways, airports, airfield lighting, upgrade and controls for drainage pump stations, power plants, water treatment plants, wastewater treatment plants, sewer pump stations, power distribution, instrumentation, control systems, and auxiliary power provision at public and private infrastructure facilities throughout southeast Louisiana. He has worked for local area engineering firms on public works projects, and for private clients such as industrial plants and oil refineries. He has also performed design of electrical substations for industrial projects, inclusive of initial system conceptualization, design, start-up, and operation. Mr. Hawney has special and unique capabilities with regards to system rehabilitation, system upgrading, system reliability performance, and interrelation of power and control schemes.</p> <p><i>New Orleans International Airport Drainage Pump Station, Kenner, LA.</i> Complete design services for a new 600 cfs stormwater drainage pump station and for all landside drainage as part of constructing a new airport terminal in the New Orleans International airport. The pump station will add 600 cfs of capacity to Jefferson Parish east bank's current capacity of 19,935 cfs, and project accomplishments included envisioning, assessing and designing this important addition to the region's flood protection abilities. The \$45 million of drainage mitigation design is a part of the highly anticipated \$826 million of airport improvements to be completed in time for the city's tricentennial anniversary in 2018. The project involved working under extremely compressed schedule, while successfully delivering on a true multi-disciplinary effort spanning civil, structural, electrical, mechanical and environmental engineering, hydraulic modeling (HEC-HMS and HEC-RAS), architectural</p>

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Harry Hawney, P.E., MBA
Sr. Electrical Engineer

services, cost estimating, environmental permitting, drafting (CAD, Civil 3D, REVIT, GIS), and agency coordination (COE, CPRA, EJLD, SLFPA-E, LDNR, Entergy, City of New Orleans, City of Kenner, and Jefferson Parish). The station was designed to contain four 150 cfs pumps with 900 HP motors. Another key part of the pump station design involved power, automation, and control/SCADA. Electrical design included 3750 kva transformer, 5 kv Paralleling Switchgear (PSG-1), 2000 kw generators with 500 gallon base tank, 5 kv Motor Control Center (MCC) VFD start with FVNR x 800 HP starters, interior, exterior and emergency lighting, pump Control Panel with level control, 5 kv Load Bank, wiring, conduit, 20,000 gallon above grade diesel fuel tank, and piping for generators. Mr. Hawney was the electrical engineer responsible for the pump station and safe house design. See Section L - Project 01 for additional project information.

Ascension Parish Regional Wastewater Treatment Plant, Ascension Parish, LA. Through a Federal program to fund Environmental Infrastructure programs within local municipalities, MSMM, representing the USACE New Orleans District, is working with the Ascension Parish Government (non-Federal sponsor) to design a regional wastewater treatment plant (WWTP) adjacent to recent MSMM designed sewer pump stations. MSMM will be responsible for providing 100% bid ready plans and specifications (in USACE format) for a new 1.5 million gallon per day (average daily flow) WWTP to increase treatment capacity and facilitate regionalization of the Parish. Mr. Hawney is the lead electrical engineer for the project. He is responsible for providing the electrical schedules, site plans, aeration electrical plan, admin building power and lighting plan, operation control power plan, and MCC on 1-line diagrams. See Section L - Project 04 for additional information.

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. Hawney provided all electrical design for the pump station, provided shop drawing review of the electrical components, and engineering during construction.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	Robert W. Yokum, P.E. Sr. Structural and Levee Engineer
Project Assignment:	Sr. Structural and Levee Engineer
Name of Firm with which associated:	
Years' experience with this Firm:	7 (2014)
Education: Degree(s)/Year/Specialization:	B.S., 1975, Civil Engineering M.S., 1980, Civil Engineering
Active registration: Year first registered/discipline:	Year First Registered: <u>1984</u> Discipline: <u>Civil</u> State: <u>Louisiana</u> License No.: <u>21422</u>
Other experiences and qualifications relevant to the proposed Project:	
<p>Mr. Yokum has over three decades of experience in professional engineering, working on USACE water resource projects. Including 12 years of experience at USACE New Orleans District serving as a senior structural engineer for locks, dams, levee, floodwalls, floodgates and flood control structures.</p> <p><i>New Orleans International Airport Drainage Pump Station, Kenner, LA</i> MSMM recently completed design services for a new 600 cfs stormwater drainage pump station and for all landside drainage as part of constructing a new airport terminal in the New Orleans International airport. The pump station added 600 cfs of capacity to Jefferson Parish east bank's current capacity of 19,935 cfs, and project accomplishments included envisioning, assessing and designing this important addition to the region's flood protection abilities. The \$45 million of drainage mitigation design is a part of the highly anticipated \$826 million of airport improvements to be completed in time for the city's tricentennial anniversary in 2018. The project involved working under extremely compressed schedule, while successfully delivering on a true multi-disciplinary effort spanning civil, structural, electrical, mechanical and environmental engineering, hydraulic modeling (HEC-HMS and HEC-RAS), architectural services, cost estimating, environmental permitting, drafting (CAD, Civil 3D, REVIT, GIS), and agency coordination (COE, CPRA, EJLD, SLFPA-E, LDNR, Entergy, City of New Orleans, City of Kenner, and Jefferson Parish). The station was designed to contain four 150 cfs pumps with 900 HP motors. Mr. Yokum performed all of the construction oversight activities on the pile driving operation for the new pump station. See Section L - Project 01 for additional project information.</p> <p><i>Ascension Parish Regional Wastewater Treatment Plant, Ascensions Parish, LA.</i> Through a Federal program</p>	

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Robert W. Yokum, P.E.
Sr. Structural and Levee Engineer

to fund Environmental Infrastructure programs within local municipalities, MSMM, representing the USACE New Orleans District, is working with the Ascension Parish Government (non-Federal sponsor) to design a regional wastewater treatment plant (WWTP) adjacent to recent MSMM designed sewer pump stations. MSMM will be responsible for providing 100% bid ready plans and specifications (in USACE format) for a new 1.5 million gallon per day (average daily flow) WWTP to increase treatment capacity and facilitate regionalization of the Parish. Mr. Yokum is the lead structural engineer for the project. He is responsible for designing the foundation design for each of the buildings and equipment, which includes a mix of pile support structures and slabs of different size/type. See Section L - Project 04 for additional information.

Cow Bayou Drainage Pump Station, Orange, TX. MSMM has been tasked with providing the civil and structural design for the Cow Bayou Complex, a component of the Sabine Pass to Galveston Bay, Orange project. This 8,000 CFS drainage pump station is currently under design via USACE MVN for New Orleans and Galveston Districts. The pump station site is located on remote vacant lot; therefore, site development, include site access, is required in addition to the pump station design. Mr. Yokum is the lead structural engineer for the project. He is providing the foundation design on piles for the pump station and offering structural details and standards for the access roadways, parking lots and pump station safe house. See Section L - Project 03 for additional project information.

Coventry Court Drainage Evaluation Feasibility Report, Jefferson Parish, LA. 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. As part of the Coventry Court evaluation, the Jefferson Parish drainage department requested that MSMM investigate and determine the feasibility of providing improved drainage. Mr. Yokum was the lead structural engineering tasked with assisting in the development of alternatives for the feasibility report. Mr. Yokum is an expert levee design engineer and Mississippi River engineer, making him instrumental in helping to determine the best routing of the discharge pipe, for proper siting and size of the dolphin structure that will need to be designed in the river. Mr. Yokum provided conceptual level design for these features.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Magan Kansagra, P.E. Mechanical Engineer
Project Assignment:
Mechanical Engineer
Name of Firm with which associated:

Years' experience with this Firm:
6 (2015)
Education: Degree(s)/Year/Specialization:
BS, Mechanical Engineering, Gujarat State University (India), 1968 MS, Mechanical Engineering, Tulane University, New Orleans, LA 1971
Active registration: Year first registered/discipline:
Year First Registered: <u>1981</u> Discipline: <u>Mechanical</u> State: <u>Louisiana</u> License No.: <u>20491</u>
Other experiences and qualifications relevant to the proposed Project:
<p>Mr. Kansagra possesses over 30 years-experience in design, specifications, field coordination and project management of heating, ventilation and air-conditioning, plumbing, electrical, and fire protection systems. The experience includes new systems, replacement of existing systems, and components such as chillers, pumps, piping, controls, boilers, air distribution, drainage system, sewer system, etc. At MSMM, Mr. Kansagra has been instrumental in designing Mechanical systems for drainage pump station control buildings and safe houses, government office buildings and veteran hospitals.</p> <p><i>Hillaryville Effluent Discharge Lines & Effluent Pump Station, Ascension Parish, LA</i> MSMM recently completed full engineering and design of a sewer lift station and force main in the community of Hillaryville in Ascension Parish, LA. This project was designed under a partnership between the USACE New Orleans Parish and cost sharing partner Ascension Parish. Public infrastructure needs in Ascension Parish were due to a wastewater sewer system that was antiquated and could not support future population growth. The project involved full engineering, design, construction administration and engineering during construction of a new effluent pump station and effluent discharge line. The discharge lines and effluent pump station were designed to be a 562 gpm effluent sewer pump station to serve the existing Hillaryville Wastewater Treatment Plant which was approximately 3,500 linear feet of 10"effluent forcemain, crossing the Mississippi River levee, and dolphin support structure in the river for the pipe outlet, electrical and control panel, generator and fuel tank. Mr. Kansagra was the Mechanical Engineer responsible for the lift station.</p>

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Magan Kansagra, P.E. Mechanical Engineer
<p><i>New Orleans International Airport Drainage Pump Station, Kenner, LA.</i> MSMM recently completed full engineering design services for a new 600 cfs drainage pump station and for all landside drainage, as part of constructing the new airport terminal at the New Orleans International airport. The \$45 million of drainage mitigation design involved successfully delivering a true multi-disciplinary effort spanning civil, structural, electrical, mechanical and environmental engineering, hydraulic modeling (HEC-HMS and HEC-RAS), architectural services, cost estimating, environmental permitting, drafting (CAD, Civil 3D, REVIT, GIS), and agency coordination (USACE, CPRA, EJLD, SLFPA-E, LDNR, Entergy, City of New Orleans, City of Kenner, and Jefferson Parish). The station was designed to contain four 150 cfs pumps with 900 HP motors. Mr. Kansagra was the lead mechanical engineer on the project. He performed the plumbing design for electrical control building. Specific design tasks completed by Mr. Kansagra consisted of fans, HVAC, floor drains, and the emergency eye-wash station. See Section L - Project 01 for additional project information.</p> <p><i>Granger Lake Office Management Replacement Facilities, Granger, TX.</i> MSMM recently completed complete design services for a new management office building in Granger Lake, Texas. The Granger Lake Management Replacement Office design package consists of the development of a construction package for the demolition of the existing 5,890 SF lake management facility located at 3100 Granger Dam Road, Granger, TX, and the design of a new facility across Granger Dam Road from the existing facility. The new facility will be one story and is designed for approximately 4,856 SF in gross area. The design of the new facility includes site development, and new construction inclusive of all required services (i.e. electrical/mechanical/ fire protection/life safety/civil/structural/architecture). The new facility also includes the design of landscaping, new paving, paving repairs, and force protection. The new facility will house offices for lake management staff, and a conference room to accommodate up to 60 people with tables and chairs. Site lighting will be provided with parking for visitors and staff, as well as the fencing required for the government vehicle and equipment compound behind the new office. Mr. Kansagra was the lead mechanical engineer on the project. He designed all of the HVAC and plumbing demands for the facility. He worked with the local water purveyor to overcome potential water pressure issues. Mr. Kansagra was tasked with providing mechanical design in compliance with stringent USACE design factors for secure facilities. See Section L - Project 02 for additional project information.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Eric M . Curson GIS Specialist/CAD Drafter, Designer and Technician
Project Assignment:
GIS Specialist GIS/CADD
Name of Firm with which associated:

Years' experience with this Firm:
6 (2015)
Education: Degree(s)/Year/Specialization:
None
Active registration: Year first registered/discipline:
Completed "Introduction to ArcGIS I" ESRI certification (2008)
Other experiences and qualifications relevant to the proposed Project:
<p>Eric Curson is a GIS Specialist and 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&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. He continues to showcase his skill and talent as the USACE New Orleans District has sent additional requests for database management and specifically requested the services of Mr. Curson.</p> <p><i>Granger Lake Office Management Replacement Facilities, Granger, TX.</i> MSMM recently completed complete design services for a new management office building in Granger Lake, Texas. The Granger Lake Management Replacement Office design package consists of the development of a construction package for the demolition of the existing 5,890 SF lake management facility located at 3100 Granger Dam Road, Granger, TX, and the design of a new facility across Granger Dam Road from the existing facility. The new facility will be one story and is designed for approximately 4,856 SF in gross area. The design of the new facility includes site development, and new construction inclusive of all required services (i.e. electrical/mechanical/ fire protection/life safety/civil/structural/architecture). The new facility also includes the design of landscaping, new paving, paving repairs, and force protection. The new facility will house offices for</p>

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

Eric M. Curson
GIS Specialist/CAD Drafter, Designer and Technician

Lake management staff, and a conference room to accommodate up to 60 people with tables and chairs. Site lighting will be provided with parking for visitors and staff, as well as the fencing required for the government vehicle and equipment compound behind the new office. Mr. Curson was the lead CAD designer and graphics designer for this project. He worked with the architectural and engineering designers to develop the final plans submitted to USACE. See Section L - Project 02 for additional project information.

Cow Bayou Drainage Pump Station Complex, Orange, TX. MSMM is currently designing an 8,190 cfs drainage pump station in Orange County Texas as part of the Sabine Pass to Galveston Bay Texas Coastal Storm Risk Management and Ecosystem Restoration project. MSMM is responsible for all design activities for the features of work associated with the Sabine to Galveston, Cow Bayou Complex. The Cow Bayou Complex includes the design efforts for tie-in levee's, transition floodwall tying the floodwall into the levee section, multiple T-wall monoliths (both straight and P.I. monoliths), Drainage Structures (sluice gate structures & culverts through the floodwall) that are used to maintain flows of existing bayous, horizontal and vertical lift gates, a sector gate monolith for navigational traffic, and the 8190 cfs pumping station. This project is being designed for the USACE New Orleans and Galveston Districts. MSMM was hand selected by USACE to design this project, based on recent drainage pump station design experience in the greater New Orleans area. Mr. Curson was the lead CAD designer and graphics designer for this project. He worked with the architectural and engineering designers to develop the final plans submitted to USACE. See Section L - Project 03 for additional project information.

39th Street and Power Boulevard Sewer Lift Station Upgrades, Kenner, LA. MSMM was tasked by the City of Kenner to provide full engineering design for sewer lift station rehabilitation to the 39th Street and Power Blvd. Sewer Lift Station located in Kenner, LA. The 39th and Power station is a duplex self-priming pump station with buried concrete wetwell and above ground CMU block/brick exterior building. The 8" discharge forcemain exits the building on the north side and then travels westerly to the Granada and Martinique lift station. The lift station requires rebuilding of pumps, replacement of motor, and replacement of the existing control panel. MSMM tasks on this project consisted of full engineering and design for rehabilitation to upgrade the lift station for increased capacity and improved functionality. This included refurbishing the pumps, increasing the impeller size, upgrading the motor, replacing the control panel with new variable frequency drives, upgrading the SCADA system, adding an emergency pump out (EPO) and adding an exhaust fan to the building. Mr. Curson developed all the project drawings in unison with Mr. Chehardy.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Tami Ladner CAD Drafter, Designer and Technician
Project Assignment:
CAD Drafter, Designer and Technician
Name of Firm with which associated:

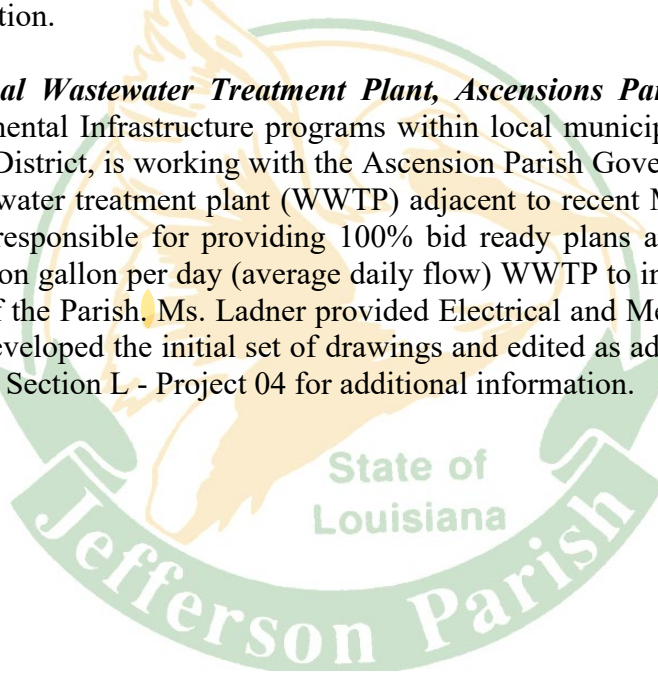
Years' experience with this Firm:
8 (2013)
Education: Degree(s)/Year/Specialization:
Mississippi Gulf Coast Community College, Jefferson Davis Campus Major: Drafting September 1979 to May 1981 Harrison Central High School, Gulfport, Mississippi, Graduated May 1979
Active registration: Year first registered/discipline:
Other experiences and qualifications relevant to the proposed Project:
<p>Ms. Tami Ladner has over 27 years of experience as a Drafter/Designer. Ms. Ladner has completed numerous civil plans for multiple design projects including roadway, pump stations, sewer lift stations, levees, and dams. She is well versed in coordinating with contractors, civil engineers, structural engineers, and architectural consultants on varied types of projects, as well as, starting from concept layouts, through design, to complete civil plans, profiles and quantities for specifications.</p> <p><i>Causeway Boulevard and Scott Street Sewer Lift Station Improvements (G-4-2B), Metairie, LA.</i> MSMM was tasked by the Jefferson Parish Department of Sewerage to provide full engineering design for sewer lift station rehabilitation to the Causeway and Scott Sewer Lift Station located in Metairie, LA. The existing Scott Street lift station is a submersible pump station with a buried fiberglass wetwell containing three pumps and a buried fiberglass valve pit. The 10" pipes on each pump combine to discharge into a 16-inch diameter pipe that goes to the Shresbury & Railroad lift station. The lift station required replacement of pumps, piping, valves, controls and other rehabilitation items including elevating the top slab to mitigate floodwaters entering the wetwell. MSMM tasks on this project consisted of full engineering and design for rehabilitation of this this station. This included: replacing the pumps, replacing the control panel, replacing discharge piping and valves, designing a method to elevate the access hatch into the wetwell and valve pit, repaving the area surrounding the lift station to assist with drainage, adding an emergency pump out (EPO) manhole and adding odor control. MSMM completed full engineering and design in mid-2019. Advertisement for bids and construction i pending available funding. Ms. Ladner developed all the project drawings.</p>

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

Tami Ladner
CAD Drafter, Designer and Technician

New Orleans International Airport Drainage Pump Station, Kenner, LA. MSMM recently completed full engineering design services for a new 600 cfs drainage pump station and for all landside drainage, as part of constructing the new airport terminal at the New Orleans International airport. The \$45 million of drainage mitigation design involved successfully delivering a true multi-disciplinary effort spanning civil, structural, electrical, mechanical and environmental engineering, hydraulic modeling (HEC-HMS and HEC-RAS), architectural services, cost estimating, environmental permitting, drafting (CAD, Civil 3D, REVIT, GIS), and agency coordination (USACE, CPRA, EJLD, SLFPA-E, LDNR, Entergy, City of New Orleans, City of Kenner, and Jefferson Parish). The station was designed to contain four 150 cfs pumps with 900 HP motors. Ms. Lader provided CAD Design for architectural, electrical and mechanical drawings. See Section L - Project 01 for additional project information.

Ascension Parish Regional Wastewater Treatment Plant, Ascensions Parish, LA. Through a Federal program to fund Environmental Infrastructure programs within local municipalities, MSMM, representing the USACE New Orleans District, is working with the Ascension Parish Government (non-Federal sponsor) to design a regional wastewater treatment plant (WWTP) adjacent to recent MSMM designed sewer pump stations. MSMM will be responsible for providing 100% bid ready plans and specifications (in USACE format) for a new 1.5 million gallon per day (average daily flow) WWTP to increase treatment capacity and facilitate regionalization of the Parish. Ms. Ladner provided Electrical and Mechanical drafting services for both of this project. She developed the initial set of drawings and edited as additions/changes were made as the project progressed. See Section L - Project 04 for additional information.



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Leah Shurden CAD Technician	
Project Assignment:	
CAD Technician	
Name of Firm with which associated:	
	
Years' experience with this Firm:	
6 (2015)	
Education: Degree(s)/Year/Specialization:	
Associates Drafting, ITT Tech, 2015 Associates Avionics Maintenance Technology, Community College of the Air Force, 2016	
Active registration: Year first registered/discipline:	
None	
Other experiences and qualifications relevant to the proposed Project:	
<p>Ms. Shurden is a CADD drafter at MSMM where she provides project drawings in AutoCAD and Microstation. Ms. Shurden has extensive Federal project design development experience, has developed drawings for multiple USACE Districts. She currently develops conceptual drawings for all MSMM designs within the City of New Orleans roadway program.</p> <p>Cow Bayou Drainage Pump Station Complex, Orange, TX. MSMM is currently designing an 8,190 cfs drainage pump station in Orange County Texas as part of the Sabine Pass to Galveston Bay Texas Coastal Storm Risk Management and Ecosystem Restoration project. MSMM is responsible for all design activities for the features of work associated with the Sabine to Galveston, Cow Bayou Complex. The Cow Bayou Complex includes the design efforts for tie-in levee's, transition floodwall tying the floodwall into the levee section, multiple T-wall monoliths (both straight and P.I. monoliths), Drainage Structures (sluice gate structures & culverts through the floodwall) that are used to maintain flows of existing bayous, horizontal and vertical lift gates, a sector gate monolith for navigational traffic, and the 8190 cfs pumping station. This project is being designed for the USACE New Orleans and Galveston Districts. MSMM was hand selected by USACE to design this project, based on recent drainage pump station design experience in the greater New Orleans area. Ms. Shurden provided CAD drafting services for this project. She created drawings in A/E/C standard and made edits/additions as the project progressed. See Section L - Project 03 for additional project information.</p>	

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Leah Shurden CAD Technician
<p><i>Granger Lake Office Management Replacement Facilities, Granger, Texas.</i> MSMM recently completed complete design services for a new management office building in Granger Lake, Texas. The Granger Lake Management Replacement Office design package consists of the development of a construction package for the demolition of the existing 5,890 SF lake management facility located at 3100 Granger Dam Road, Granger, TX, and the design of a new facility across Granger Dam Road from the existing facility. The new facility will be one story and is designed for approximately 4,856 SF in gross area. The design of the new facility includes site development, and new construction inclusive of all required services (i.e. electrical/mechanical/ fire protection/life safety/civil/structural/architecture). The new facility also includes the design of landscaping, new paving, paving repairs, and force protection. The new facility will house offices for lake management staff, and a conference room to accommodate up to 60 people with tables and chairs. Site lighting will be provided with parking for visitors and staff, as well as the fencing required for the government vehicle and equipment compound behind the new office. Ms. Shurden provided CAD drafting services for this project. She created drawings in A/E/C standard and made edits/additions as the project progressed. See Section L - Project 02 for additional project information.</p> <p><i>Ascension Parish Regional Wastewater Treatment Plant, Ascensions Parish, LA.</i> Through a Federal program to fund Environmental Infrastructure programs within local municipalities, MSMM, representing the USACE New Orleans District, is working with the Ascension Parish Government (non-Federal sponsor) to design a regional wastewater treatment plant (WWTP) adjacent to recent MSMM designed sewer pump stations. MSMM will be responsible for providing 100% bid ready plans and specifications (in USACE format) for a new 1.5 million gallon per day (average daily flow) WWTP to increase treatment capacity and facilitate regionalization of the Parish. Ms. Shurden provided CAD drafting services for this project. She created drawings in A/E/C standard and made edits/additions as the project progressed. See Section L - Project 04 for additional information.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
John M. Domingue Construction Inspector	
Project Assignment:	
Construction Inspector	
Name of Firm with which associated:	
	
Years' experience with this Firm:	
7 (2014)	
Education: Degree(s)/Year/Specialization:	
None	
Active registration: Year first registered/discipline:	
None	
Other experiences and qualifications relevant to the proposed Project:	
<p>Mr. John Domingue has more than 10 years of experience in construction management, resident inspection, administration, resident project representation, site assessment, inspection and quality control representation of projects in the Greater New Orleans area. He has worked on infrastructure projects in flood control, water resources, roads, bridges, water, sanitary sewer, gas and electrical, as well as environmental projects including marsh restoration. Mr. Domingue has worked closely with local government officials from the City of New Orleans, City of Westwego, City of Gretna and St. Tammany Parish during construction of these projects.</p> <p><i>Hurricane Isaac CDBG Disaster Recovery Funding Program Management, St. Tammany Parish, LA.</i> MSMM provided Resident Inspection and HUD/Davis Bacon Act labor compliance for St. Tammany Parish on this CDBG project to construct the roadway and all utilities for the academic campus, a stormwater retention pond and Cultural Arts District. Mr. Domingue performed the construction management, resident inspection, monitoring of daily construction activities, review project plans and specifications, developed daily field reports, coordinated with project manager and project engineer on any problems encountered during construction, and completed HUD labor compliance interviews.</p> <p><i>North Galvez Road Improvements New Orleans, LA.</i> Complete street and utility replacement on North Galvez Street between Elysian Fields and Almonaster (9 city blocks). Associated project elements included street restoration, water and sewer relocation, and gas and fiber optic line relocation. Mr. Domingue was responsible for construction management, conducting on-site observations of work in progress, reviewing contract plans and specs, writing daily reports, monitoring daily activities,</p>	

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

John M. Domingue
Construction Inspector

coordinating with project manager and project engineer on any problems encountered during construction.

Western Closure Complex Pumping Station Jefferson, LA. Project was construction of concrete T-walls for flood protection on Peter's Road (Sector gate). Mr. Domingue was responsible for construction management, knowledge of construction concepts, principles and practices applicable to a full range of duties concerned. Observed and investigated construction as all stages to identify problems, report potential problems and take action on potential issues in a timely fashion. In charge of enforcement of contractor inspections on multiple sites, and responsible for making sure all personnel in compliance with the plans and specs. At the end of the project, performed a final inspection to make sure the final product met the expectation of both the client and contractor.

Statewide Flood Control Program Grant Drainage Improvements, Kenner, LA. 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 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. 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) installation of new subsurface drainage pipes and inlets along three city streets; (ii) upgrading of 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" 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. During this project continuous coordination with the DPW staff was required. Most of the drainage improvements under this project were derived from previously completed Master Drainage Plan, the new improvements were compared with the Master Drainage Plan to ensure that no conflicts arise. Mr. Domingue provided all inspection services required to complete the construction phase of the project. He was responsible for conducting on-site observations of work in progress, reviewing contract plans and specs, writing daily reports, monitoring daily activities, and coordinating with the project manager and project engineer on any problems encountered during construction.

Reconstruction of Bourbon Street, New Orleans, LA. MSMM provided resident inspection services as a subconsultant to Mott MacDonald for this highly visible and important project to fully restore the first 8 blocks of Bourbon Street between Canal and Dumaine. Mr. Domingue was responsible for the daily oversight of the construction work, development of daily reports highlighting completed work, coordination with the City of New Orleans DPW and various other entities, including Entergy and S&WB, and the daily calculation of reported quantities.

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:

New Orleans International
Airport Drainage Pump
Station, Kenner, LA

New Orleans Aviation Board
900 E Airline Dr.,
Kenner, LA 70062

Chris Spann,
Program Manager
913-940-1301



MSMM has completed design and 404 permitting services for a new 600 cfs stormwater drainage pump station and for all landside drainage as part of constructing a new airport terminal in the New Orleans International airport. The pump station will add 600 cfs of capacity to Jefferson Parish east bank's current capacity of 19,935 cfs, and MSMM is proud to be the sole entity to envision, assess, design and permit this important addition to the region's flood protection abilities. The \$45 million of drainage mitigation designed by MSMM is part of the highly anticipated \$826 million of airport improvements to be completed in time for the city's tricentennial anniversary in 2018. While working under extremely compressed schedule, MSMM successfully delivered on a true multi-disciplinary effort spanning civil, structural, electrical, mechanical and environmental engineering, hydraulic modeling (HEC-HMS and HEC-RAS), architectural design, cost estimating, environmental permitting, drafting (CAD, Civil 3D, REVIT, GIS), and agency coordination (COE, CPRA, EJLD, SLFPA-E, LDNR, Entergy, City of New Orleans, City of Kenner, and Jefferson Parish). The station was designed to contain four 150 cfs pumps, each being 44" 8312 LMA TEFC Vertical Pump w/ 800 HP Driver @ 394 RPM.

As part of designing this pump station, MSMM took up and successfully negotiated the challenge of discharging stormwater through a newly built hurricane protection flood wall that is a part of the \$14.5 billion HSDRRS work conducted by the COE subsequent to Hurricane Katrina. As is understandable, the new floodwalls are an extremely crucial part of the storm protection infrastructure of the area, and penetration of that monolith is a very sensitive issue among the various agencies in charge of tending to the structural

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>integrity of the system. MSMM's engineers were up to this challenge. They made the initial contact with COE to obtain preliminary approval on the concept of floodwall penetration by 60" steel discharge pipes (more than 4,000 ft combined run), followed through with detailed structural design calculations, design and drafting, and continued the coordination with levee authorities and coastal authorities. Structural design involved slab and piles for station, generator, fuel tanks and control building, sheet pile cutoff walls, temporary steel sheet pile TRS system, removal and replacement of floodwall monolith and scour protection, buttress, pipe bents, cofferdam and walers, intake channel and reinforced concrete box culvert, discharge pipe supports, pipe sleeves in floodwall, and discharge basin in West Return Canal. Coordination with COE and EJLD was also required as part of the 404 permit process and the 408 permit process. Due to the proposed pipes penetrating the existing HSDRRS floodwall, and due to the project including removal and replacement of an existing flood protection structure, 408 permitting is required. MSMM coordinated with the following branches at the COE regarding 404 and 408 permitting – structures, geotechnical, civil, completed works, and regulatory. MSMM also coordinated with EJLD and CPRA on this issue. The preliminary coordination meetings allowed the COE, EJLD and CPRA to provide input on their requirements per the 408 process, which required several design revisions.</p> <p>The landside drainage design effort of MSMM required continuous close coordination with the roadway drainage designers, the terminal designers, and the apron designers. Therefore, MSMM showed extreme flexibility and adaptability to incorporate numerous changes to other designs into MSMM's drainage design via multiple hydraulic modeling exercises, and multiple pipe networking and sizing. More than 5 miles of drainage piping (size range of 15" to 72" diameter), open channels and box culverts were designed by MSMM to route stormwater flow from the terminal to its discharge points.</p>	
Completion Date (actual or estimated):	Estimated Cost (in thousands):	
	Entire Project	Work for which Firm was Responsible:
2018	\$23,000	\$23,000

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:
<p>Granger Lake Management Office Design Granger, Texas</p> <p>USACE – Fort Worth District</p> <p>Gail Hicks, PMP Project Manager 817-886-1900</p>	<p>The current office building that houses the Lake Management staff at Granger Lake has been in a state of disrepair for several years. In 2018, after multiple foundation settlement and mold issues, the lake staff had to move out of the current building permanently. They are currently housed in a GSA trailer office behind the existing building, until the new facility is opened. In late 2018, MSMM Engineering was tasked by the USACE Ft. Worth District to design a new office building to house the Granger Lake management staff, and to accommodate space for large public meetings and a large volunteer staff.</p> <p>The Granger Lake Management Office design package completed by MSMM before the end of the Federal fiscal year in 2019 consists of the development of a construction package for the remediation and demolition of the existing 5,890 SF lake management facility located at 3100 Granger Dam Road, Granger, TX, and the design of a new facility across Granger Dam Road from the existing facility. The new facility will be one story and is designed for approximately 4,856 SF in gross area. The design of the new facility includes site development, new construction inclusive of all required services (i.e. electrical/mechanical/ fire protection/life safety/civil/structural/architecture). Design activities also included the design of landscaping, new paving, paving repairs, and force protection. The new facility will house offices for lake management staff, and a conference room to accommodate up to 60 people with tables and chairs. Site lighting was designed, along with parking for visitors and staff. Additionally, the fencing design required for the government vehicle and equipment compound behind the new office, was designing and included with the construction documents.</p> <p>At the design charrette, requests were received to orient the facility to maximize views of Granger Lake, and to incorporate a lodge type feel to the facility lobby. These features were incorporated during the design charrette and given the budget limitations at Ft. Worth District within the Operations branch; other features of the building were scaled down to accommodate these requests. Additionally, future expansion areas were incorporated into the conceptual design, inclusive of a large area for a future maintenance building, and an addition to the government compound. Finally, water supply is a large issue in the area given the remote location of the facility.</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.

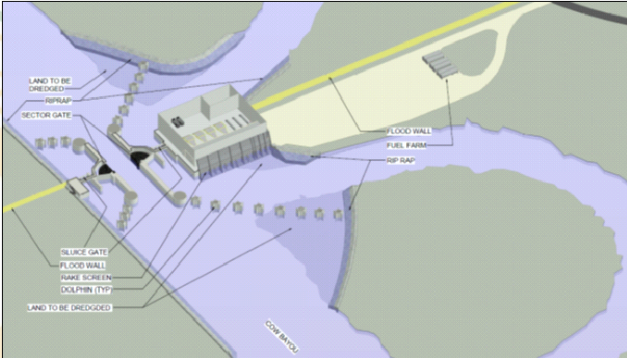
PROJECT NO. 02

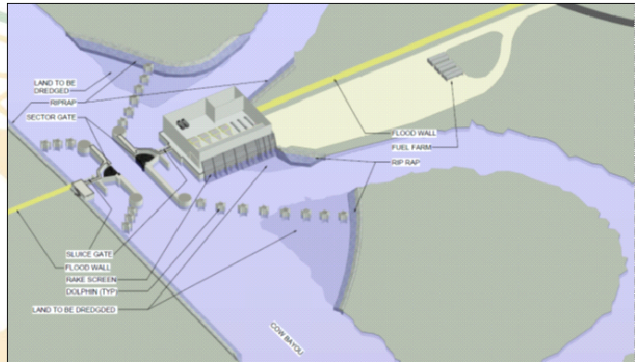
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
	<p>The design team worked extensively with the local water purveyor to access water supply data, and eventually it was determined that a large storage tank would be required for fire demand. The estimated construction of the facility is currently \$3M.</p> 	
Completion Date (actual or estimated):	Estimated Cost (in thousands):	
	Entire Project	Work for which Firm was Responsible:
2021 (estimated)	\$3,000,000	\$358,037

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:	
<div>Cow Bayou Drainage Pump Station Complex Orange, TX</div> <div>USACE – New Orleans District</div> <div>Charlie Brandstetter Design Manager 504-862-2501</div>	<p>MSMM is currently designing an 8,190 cfs pumping station as part of the Sabine to Galveston Cow Bayou Complex project. The Cow Bayou Complex includes levee tie-ins, floodwall, sluice gate structures and a sector gate for navigation traffic. The pump station consists of five 1,365 cfs horizontal, vacuum primed pumps having 126” suction side and 115” discharge side and formed concrete intake; and three 455 cfs vertical self-priming pumps with 84” discharge piping.</p> <p>The project is a joint engineering effort between the COE New Orleans District, COE Galveston District and MSMM. MSMM’s responsibilities include structural design, architectural, civil site work,</p> 	
	<p>work, geotechnical, MII cost estimating, CAD drafting and project management. A unique feature of this project design is that the New Orleans COE will be providing the mechanical and electrical design while MSMM will be responsible for coordinating the COE mechanical and electrical design with our civil, structural and geotechnical engineering design. Other project features being designed by MSMM include dolphin structures, pump station safe house, fuel farm and access roads. MSMM is currently designing the project in Microstation 3D, as well as Revitt BIM 3D modeling. Preliminary design work has consisted of extensive geotechnical testing to determine soil suitability, preliminary estimates of dredging based on navigational traffic loads in the Cow Bayou area, and structural calculations to determine the required height of the T-walls, and navigational structures. Preliminary architectural work has also been initiated to design the safe house that will be attached to the main pump station building. All facilities for workers will be located in the safe house.</p>	
Completion Date (actual or estimated):	Estimated Cost (in thousands):	
	Entire Project	Work for which Firm was Responsible:
2021 (estimated)	\$10,200,000	\$2,100,000



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

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p style="text-align: center;">Ascension Parish Regional Wastewater Treatment Plant, Ascension Parish, LA</p> <p style="text-align: center;">USACE - New Orleans District & Ascension Parish Government</p> <p style="text-align: center;">Durund Elzey, Program Manager 504-832-1674</p>	<p>Through a Federal program to fund Environmental Infrastructure programs within local municipalities, MSMM, representing the USACE New Orleans District, is working with the Ascension Parish Government (non-Federal sponsor) to design a regional wastewater treatment plant (WWTP) adjacent to the recent MSMM designed sewer pump station. MSMM will be responsible for providing 100% bid ready plans and specifications (in USACE format) for a new 1.5 million gallon per day (average daily flow) WWTP to increase treatment capacity and facilitate regionalization of the Parish.</p> <p>The treatment plant is currently under design on an eight (8) acre parcel of land owned by Ascension Parish. The design consists of a dual set of treatment processes for redundancy and includes an influent pump station, headworks with screens and grit removal, anoxic tank, oxidation ditch, clarifier, chlorine contact chamber, sludge age controllers, aerobic digesters, belt filter press with building, maintenance shed, generator, administration building as well as site fencing, drainage and internal asphalt/gravel roadways. Discharge of the WWTP effluent will be routed to the Mississippi River through an effluent pump station and forcemain, which was previously designed by MSMM under a separate contract. In addition to design, MSMM is responsible for project permitting through USACE, LADEQ, LADHH, LADOTD and CPRA of Louisiana. Additionally, MSMM is responsible for detailed cost estimating, presentations at public meetings, ROW determination, utilities relocations and sub-contracting of survey and detailed geotechnical investigations.</p> 	
Completion Date (actual or estimated):	Estimated Cost (in thousands):	
	Entire Project	Work for which Firm was Responsible:
2021 (estimated)	\$11,000,000	\$1,750,000

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

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Design-Build RFP Development for the Delta Pump Station Rehabilitation, Dallas, TX</p> <p>USACE - Fort Worth District</p> <p>Sandra Allen, Design Manager 817-886-1669</p>	<p>MSMM was tasked by the USACE - Fort Worth District to develop a Design-Build (DB) RFP project as part of the Dallas Floodway system. The package consisted of the development of 35% Plans and Technical Specs, a DDR explaining the requirements of the Design-Build firm, a Summary of Work further explaining the project requirements, and a 35% MCACES cost estimate.</p> <p>This project consisted of improvement to the sump and outfall area to prevent further erosion and preserve the integrity of the levee. The existing pumps have been designed to be replaced with pumps of equal capacity but capable of supporting a higher head. The installation of the two pumps required the removal of the roof to lower the pumps via a crane. A new roof will be constructed on the existing building after installation of the new pumps. Other improvements consisted of the heating and ventilation system, new electrical service building, new transformer pad, re-grading of the site to accommodate an extension of the trash rack and new security fencing</p> <div data-bbox="735 1159 1260 1614" data-label="Image"> </div>	
Completion Date (actual or estimated):	Estimated Cost (in thousands):	
	Entire Project	Work for which Firm was Responsible:
2020	\$5,000,000	\$600,000

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>Sludge Line to the River from Carrollton Water Purification Plant New Orleans, LA</p> <p>Sewerage and Water Board of New Orleans, New Orleans, LA</p> <p>Mr. Cedric S. Grant, Executive Director 504-585-2365</p> <p>Mr. Joseph Baker General Superintendent, 504-585-2365</p>		 <p>This project involved design and permitting to install one new 36" sludge line from the Sewerage and Water Board of New Orleans Carrollton Water Purification Plant to discharge into the Mississippi River. The roughly 4,300 ft distance of the sludge line traveled along (3) densely populated neighborhood streets, crossed multiple railroad tracks, crossed an existing flood protection levee on the Mississippi River, and crossed over the existing bike path on the levee crown.</p> <p>MSMM coordinated with regulatory agencies to obtain input on acceptable design concepts since the sludge line crossed multiple agency jurisdictions. Some of the major agencies included Corps of Engineers (river levee and bike path), and New Orleans Public Belt Railroad. MSMM also developed the permit applications (environmental permits and railroad permit) and conducted permitting for the entire project. This involved meeting with agencies such as the US Army Corps of Engineers and LA Office of Coastal Management, presenting the project details to the agencies, submitting permit applications, and securing the permits. MSMM also coordinated with the US Coast Guard regarding discharge of the pipe being in the river and specific requirements of the USGC regarding marine safety lights, warning signs, and marine warning signals.</p>
Completion Date (actual or estimated):	Estimated Cost (in thousands):	
	Entire Project	Work for which Firm was Responsible:
2018	\$5,000	\$1,000

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>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</p> <p>USACE - New Orleans District</p> <p>Durund Elzey 504-862-1674</p>	<p>The City of Baton Rouge/Parish of East Baton Rouge (C-P) undertook a comprehensive rehabilitation program for the portions of its sanitary sewer infrastructure that are plagued with chronic Sewer Sanitary Overflow (SSO) problems. Additionally, the C-P suffered from severe reduction in functionality and associated increase in Operation & Maintenance costs in several sewer pump stations.</p> <p>MSMM performed the evaluation, construction recommendation, design and construction administration on 15 pump stations that fall within the SSO program. MSMM recently completed the evaluation, construction recommendation, design and construction administration on 15 pump stations that fall within the SSO program in East Baton Rouge Parish. MSMM evaluated pump curves, spreadsheets of pump station characteristics, pump station data from survey and GIS. This data was then compared to previously available data on subject pump stations. Upgrade recommendations were made through the identification of conflicting data and developing a consensus with the project sponsors about the main issues plaguing each pump station. MSMM completed design recommendations on these projects in 2019.</p>	
Completion Date (actual or estimated):	Estimated Cost (in thousands):	
	Entire Project	Work for which Firm was Responsible:
2019	\$1,000	\$225



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>Ascension Parish Infrastructure Ascension Parish, LA</p> <p>USACE - New Orleans District Nick Sims 504-862-2128</p> <p>Ascension Parish Public Utilities Carl Ladmirault 225-450-1072</p>	<p>MSMM Engineering, LLC successfully completed full engineering design services on multiple public infrastructure projects in 2015. These projects were designed under a partnership between the USACE New Orleans Parish and cost sharing partner Ascension Parish. Public infrastructure needs in Ascension Parish due to a wastewater sewer system that was antiquated and could not support future population growth.</p> <p>The process started in 2010 when though an Environmental Infrastructure project, MSMM staff prepared GIS mapping of the Parish's existing and proposed sanitary sewer system and prepared an Environmental Information Document (EID) for its long term wastewater infrastructure plan.</p> <p>The Environmental Infrastructure project led to a decision that Ascension Parish needed to make significant upgrades to their public infrastructure system, specifically water lines and sanitary sewer systems. MSMM has recently completed full engineering design of new effluent discharge lines, and effluent pump station, and the extension of a watermain to meet these infrastructure needs.</p> <p>The watermain was designed through a combination of modeling, planning, permitting, right-of-way and assessment of 10,340 linear feet of 12" watermain to extend the existing line in Assumption Parish to an existing water tower in Ascension Parish. The discharge lines and effluent pump station were designed to be a 562 gpm effluent sewer pump station to serve the existing Hillaryville Wastewater Treatment Plant, approximately 3,500 linear feet of 10" and 20" effluent forcemains, crossing the Mississippi River levee and dolphin support structure in the river for the pipe outlet, electrical and control panel, generator and fuel tank.</p>	
Completion Date (actual or estimated):	Estimated Cost (in thousands):	
	Entire Project	Work for which Firm was Responsible:
2016	\$5,000	\$1,200

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. 9

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Harahan Pump-to-the-River Project Harahan, LA</p> <p>Jefferson Parish Department of Drainage 1221 Elmwood Park Blvd. Jefferson, LA 70123</p> <p>Mike Stewart, P.E., Project Manager 504-736-6780</p>	 <p>This was a unique project in terms of complexity, administration, design, and rights of way. The objective was to relieve chronic flooding in southeastern portion of east bank of Jefferson Parish for the Southeast Louisiana Urban Flood Control Project (SELA) of the USACE.</p> <p>This project featured a 700 ft long suction canal; a 1,200 cfs pumping station; (3) 9,000 ft long 84 inch diameter discharge piping to the Mississippi River levee, reinforced concrete levee crossing of discharge pipes; reinforced concrete discharge basin in Mississippi River; coordination with local community, regulatory agencies and DOTD regarding a very old oak tree (the Old Dickory); and relocation of several high tension electrical transmission towers.</p>	
Completion Date (actual or estimated):	Estimated Cost (in thousands):	
	Entire Project	Work for which Firm was Responsible:
2014	\$2,000	\$890

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>Kennedy Heights Liftstation C9-2 Rehabilitation New Orleans, LA</p> <p>Jefferson Parish Department of Sewerage</p> <p>Brett Todd Director, Department of Sewerage 504-736-6661</p>	<div style="text-align: center;">  </div> <p>MSMM was tasked by the Jefferson Parish Department of Sewerage to provide full engineering design of sewer lift station rehabilitation to the Kennedy Heights Lift Station located in Westwego, LA. The Kennedy Heights station is a pre-constructed building located on a slab foundation that consists of four total pumps, of which only one is currently operational. The discharge forcemain was a 24-inch diameter Price Brothers pipe that discharges to the Avondale North lift station. The wet well was lined with t-lock but required inspection and rehabilitation during construction. The lift station required replacement of pumps, piping, valves, controls and other rehabilitation items.</p> <p>MSMM tasks on this project consisted of full engineering and design of rehabilitation features to make this station completely operational again. This included replacing the existing pumps, replacing the existing control panel, replacing discharge piping and valves, replacing the sluice gates, rehabilitation to the junction box, replacing the surge relief valve, replace the building door, replacing the two round wet well manholes, installing restrooms, installing oxygen injection boxes, and replacing the valve pit grating.</p>	
Completion Date (actual or estimated):	Estimated Cost (in thousands):	
	Entire Project	Work for which Firm was Responsible:
2019	\$1,100	\$150

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. Not Applicable	Not Applicable	Not Applicable
2.		
3.		
4.		

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

COMPANY OVERVIEW & HISTORY

MSMM Engineering, LLC (MSMM) is one of the fastest growing small businesses in the greater New Orleans area. Specializing in multi-disciplinary design and assessment, MSMM offers experienced personnel with an extremely diverse skill-set. MSMM engineers total over 150 years of design experience, and combined have designed over 250 projects for Jefferson Parish. The principals of MSMM alone have designed over 200 Jefferson Parish projects. We are extremely proficient in providing feasibility phase, design phase, and construction phase services for architectural and engineering projects.

Given the scope detailed in the solicitation, MSMM's design acumen can clearly be seen through the list of recently completed architectural projects.

- Granger Lake Management Office Design
- Cow Bayou Drainage Pump Station Design with Safehouse
- Ascension Parish Sewerage Treatment Plant Design
- Delta Pump Station Rehabilitation Design
- Harahan Pump to the River, Jefferson Parish, LA
- Clearview Drainage Pump Station

MSMM has also recently been selected by the United States Air Force to provide architectural and construction phase services for various Air Force bases across the country. MSMM was selected from a deep pool of consultants and was identified as one of the most highly qualified due to the recent USACE architectural work we have completed in Louisiana and Texas. Based on these recent qualifications, we hope to provide this same level of quality to Jefferson Parish.

MSMM is proud to add sub-consultants BFM and Gulf South Engineering and Testing to our team for this pursuit. Both companies have an extensive history of providing services to Jefferson Parish. Additionally, both are trusted and preferred sub-consultants of MSMM.

Following is our response to the evaluation criteria listed in order of importance:

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

MSMM's experience consists of public works projects such as office building design, urban stormwater drainage design, wastewater system design and assessments, sewer treatment plant, pump station and forcemain design, drainage pump station (inclusive of safe houses and living quarters) and discharge piping design, , levee crossing and floodwall crossing of forcemains, discharge basins in rivers and canals, sewer collection system infiltration and inflow assessment via field investigation, pump station capacity verification, manhole GPS surveys, ArcGIS mapping and hydraulic modeling (SewerCAD and InfoWorks), roadway and bridge replacement/improvement design, bridge hydraulic analyses, environmental assessments, levee inspections, NEPA documentation, agency coordination, environmental permitting, traffic design and control; drainage structures, canals, bridges, culverts, bulkheads, pump stations, levees and floodwalls, resident inspection and construction management/administration.

As previously mentioned, MSMM recently completed design of an office management complex in Granger Lake, Texas that was fully equipped with all of the Federal regulations for security at a remote location. This design package included upgrades to the water purveyor system, a new septic field, full design of fencing and bollards for force protection, an above ground water storage tank, and a conference room to fit 60 people. Based on information identified at the design charrette, MSMM was able to design a usable facility to the lake management staff. The project is currently in construction with a grand opening scheduled for the Winter of 2021.

Additionally, MSMM has recently provided architectural design service for safe houses at drainage pump stations in Texas. For the Cow Bayou complex, MSMM provided safehouse design to accommodate living quarters, dormitory and a kitchen for up to 5 people. This safehouse design was equipped to withstand a Category 5 Hurricane and allow for pump station operators to safely travers between the safehouse and operational control room.

2. SIZE OF THE FIRM CONSIDERING THE NUMBER OF PROFESSIONAL AND SUPPORT PERSONNEL TO PERFORM THE TYPE OF AE SERVICES

MSMM has a total of 25 personnel that will be available to work on this project. Though labeled as a small DBE firm, our engineering qualifications rival those of larger firms in the region. We have been 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. As part of this assignment, we have recently completed (and are currently completing) architectural design services of Federal facilities. We have also received a prime engineering design contract by the RTA of New Orleans. Finally, we were ranked the top small business firm for roadway design in the region by the City of New Orleans Department of Public Works.

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 is involved 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.

For this project, we envision the standard need for the Program Manager, QA/QC manager and Project Manager. We will also assign 1 Civil Engineer and 1 Architect, a CAD draftsman/woman, 1 GIS lead familiar with BIM, 1 structural engineer, 1 electrical engineer, and 1 mechanical engineer. We will also have 1-2 resident inspectors available for construction phase services. The resources available may be too many for the type of work involved, but this is all factored into how MSMM will run the project through our QA/QC plan.

Mr. Steve Finegan is the lead architect at MSMM. Mr. Finegan grew up in the greater New Orleans area and has developed an extensive portfolio of private sector work at his previous firm. At MSMM, Mr. Finegan primarily works on Federal architecture design projects and is the designer of record for the Granger Lake Office building, and each of the drainage pump station safe houses that MSMM has completed.

Mr. Jim Wilson will be the civil designer of record for this project. He is the engineering manager and lead civil engineer at MSMM. Mr. Wilson is the designer of record for the Sauv  Road drainage pump station which was constructed in River Ridge near the Coventry Court area. The Sauv  Road project was considered a highly successful drainage project, as it has alleviated repetitive flooding events in the area. Mr. Wilson has over 25 years of drainage design experience and was the lead engineer responsible for developing the Coventry Court drainage evaluation report. Mr. Wilson envisions that design services for the Coventry Court pump station will be similar in nature to what he completed for the Sauv  Road pump station. He will lead a very knowledgeable engineering team on this project and will be responsible for the development of the plans and specifications.

3. CAPACITY FOR TIMELY COMPLETION OF NEWLY ASSIGNED WORK

MSMM prides itself with a staff that have always met or exceeded project deadlines set by clients and funding organizations. Considering the projects currently being conducted by MSMM, their level of completion, and anticipated projects from stage of contracting, MSMM's staff resources are more than adequate to complete the subject project within time and budget. In addition, our staff have been intimately involved with previous drainage improvements projects in Jefferson Parish from H&H modeling, to design and resident inspection services. Therefore, MSMM is uniquely qualified to offer a very high degree of readiness to conduct this project compared to any other entity. MSMM's qualified engineering and support staff are available and ready to produce quality product and meet accelerated deadlines. In addition, the President of MSMM Engineering, LLC has worked *on more than 200 projects for various departments of Jefferson Parish*. These projects were all successfully completed on time and schedule.

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

Our engineering staff have been the designer of record for seven (7) recent drainage pump stations in Jefferson Parish and Texas, three of which has required detailed architectural design services in the form of safe house design, and design of other ancillary buildings. Our team has provided detailed design for the Federal government, including a brand-new Federal facility that will open later this year in Granger Lake, Texas. This project is detailed in the Project write-up section.

Since the early 1990s, the President of MSMM Engineering, LLC has worked *on more than 200 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 track record 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. This statement can be verified by checking with the references listed below in the response to Question #7.

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

- Utility (Sewer) Relocations – Huey P. Long Bridge Widening
- 31st 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
- Sauve 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
- East Bank Sewerage Plant Disinfection Feasibility Study, Jefferson Parish, LA.
- Storm Water Demonstration Project, Force Main & East Bank Wastewater Treatment Plant Expansion, Jefferson Parish, LA.
- Infiltration/Inflow Hydraulic Modeling, Jefferson Parish, LA
- Sewer Lift Station D6-5 Force Main Improvements, 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
- Bridge City Chlorination/ Dechlorination System, Jefferson Parish, LA

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

The principal office where the work will be performed is in Metairie, Louisiana. The office address is 4508 Clearview Parkway, Metairie, Louisiana 70006.

6. ADVERSARIAL LEGAL PROCEEDINGS BETWEEN THE PARISH AND THE PERSON OR FIRM PERFORMING PROFESSIONAL SERVICES

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

We offer the following references that can attest to our previous work history regarding our drainage pump safehouse design, Federal office building design, and local construction management and administration services:

- **Neil Schneider, P.E., Director of Capital Projects • Jefferson Parish • 1221 Elmwood Park Blvd., Ste. 906, Jefferson, LA. 70123 • 504-736-6833**
- **Mitch Theriot, P.E., Director of Drainage Department • Jefferson Parish • 1221 Elmwood Park Blvd., Ste. 907, Jefferson, LA. 70123 • 504-736-6751**
- **Mark R. Wingate, P.E., Deputy District Engineer for Programs and Project Management (DPM), US Army Corps of Engineers, New Orleans District • 504-862-2512**
- **Sandra Allen, Design Manager for Civil Works, USACE Fort Worth District • 817- 886-1669**



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

Signature: 

Print Name: Manish Mardia, PE

Title: President

Date: January 20, 2021

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

**Architectural/Engineering Services on an As-Needed Basis for
Architectural Projects located throughout the Parish**
SOQ 20-20 | Resolution No. 136764

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



Gulf South Engineering and Testing, Inc.
15 Veterans Memorial Boulevard
Kenner LA 70062

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

Chad M. Poché, P.E., Principal/Vice President
telephone 504-305-4401 • cpoche@gulfsoutheng.com
Registered Professional Civil Engineer, Louisiana No. 27667 (1998)

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

Chad M. Poché, P.E., Principal/Vice President
telephone 504-305-4401 • cpoche@gulfsoutheng.com
Registered Professional Civil Engineer, Louisiana No. 27667 (1998)

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

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

*employees also include one Construction Engineer, two Construction Materials Testing (CMT) Supervisors, two Senior Engineering Technicians, one Laboratory Technician, one Soil Boring Driller, and one Soil Boring Driller Apprentice

28* TOTAL

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

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

TEC Professional Services Questionnaire

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

1. N/A

2.

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

YES _____ NO _____

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

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

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

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

TEC Professional Services Questionnaire

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

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Chad M. Poché, P.E.
Vice-President

Project Assignment:

Engineering Manager; Geotechnical Engineer

Name of Firm with which associated:



ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants

Years experience with this Firm:

10 years with this firm (2011); 28 years total (1993)

Education: Degree(s)/Year/Specialization:

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

Active registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

Mr. Poché is the Vice President, co-founder, and partner in Gulf South. He has been a consulting geotechnical engineer for more than 20 years in South Louisiana, working on traditional and unique geotechnical engineering projects (shallow and deep foundation design, slope stability, pavement design, etc.). Mr. Poché has also provided construction oversight for waste facilities and virtually every type of earthwork related project. He has been the geotechnical engineer of record for thousands of projects throughout his career.

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

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

Chad M. Poché, P.E. (continued)

New Charter School (Behrman Highway), Terrytown, Jefferson Parish, LA. Geotechnical investigation for construction of a new Charter School along Behrman Highway in Terrytown. Gulf South's scope includes drilling 13 soil borings to depths of 100 feet (2 borings for structure), 80 feet (2 borings; 1 structure & 1 canal stability analysis), 60 feet (2 borings for structure), 10 feet (7 borings for paved areas), lab testing (strength and classification), and geotechnical engineering analysis including allowable soil bearing values, allowable pile load capacities, estimates of settlement, slope stability analyses, rigid and/or flexible pavement design recommendations, and general construction recommendations. (\$20,000 (fee); 2017)

New Commercial Building, Metairie, Jefferson Parish, LA. Geotechnical investigation for construction of a new commercial building off Airline Drive in Metairie, LA. Scope includes drilling undisturbed soil borings (three at 75 ft), lab testing, and engineering analyses including allowable soil bearing values, allowable pile load capacities (as appropriate), estimates of settlement, flexible and/or rigid pavement design recommendations, and general construction procedures and recommendations. (\$12,000 (fee); 2018)

New Multi-Purpose Building, Ascension Parish Sheriff's Office (APSO), Gonzales, Ascension Parish, LA. Geotechnical investigation for construction of a new multi-purpose building off South St. Landry Avenue in Gonzales, LA. Gulf South's scope includes drilling undisturbed soil borings (2 at 20 ft.; 2 at 6 ft.), lab testing, and engineering analyses including allowable soil bearing values, allowable pile/shaft load capacities, estimates of settlement, rigid and/or flexible pavement design recommendations, and general construction recommendations. (\$3,600 (fee); 2019)

Clancy-Maggiore Elementary School – New Art and Band Wing, Kenner, Jefferson Parish, LA. Geotechnical investigation for a new art and band building (10,000 sf) in Kenner, LA. Gulf South's scope includes drilling two soil borings to depths of 60 feet and 40 feet, lab testing, and engineering analyses including allowable soil bearing values, allowable pile load capacities, estimate of settlement, and general construction procedures and recommendations. (\$6,000 (fee); 2016)

Johnny Bright Playground Gymnasium HVAC Installation, Metairie, Jefferson Parish, LA. Geotechnical investigation for a new HVAC unit and handicap ramp at Johnny Bright playground in Metairie, LA. Scope of services consisted of drilling a soil boring to 50 feet in depth, laboratory testing, and providing allowable soil bearing values and estimates of settlement. (\$4,500 (fee); 2013)

Jefferson Parish Department of Public Works West Bank Central Warehouse, Bridge City, Jefferson Parish, LA. Project consisted of the construction of a new warehouse for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Our scope of services included performing a pile load test, pile plant inspection, pile monitoring during installation, vibration monitoring, concrete testing and inspection, earthwork testing and inspection including soil sampling and field density tests, steel inspection, and asphalt testing and inspection. (\$90,000 (fee); 2017)

Police Headquarters - New Addition, City of Gretna Police Department, Jefferson Parish, LA. New addition to existing building at Gretna Police Headquarters. Drill one boring to 100 feet, perform laboratory testing and geotechnical engineering analyses consisting of allowable pile load capacities, estimates of settlement, and general construction recommendations. (\$3,200 (fee); 2011)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Blake E. Vutera, P.E.
Engineering Manager

Project Assignment:

Geotechnical Engineer

Name of Firm with which associated:**Years experience with this Firm:**

9 years with this firm (2012); 15 years total (2006)

Education: Degree(s)/Year/Specialization:

M.S., 2018, Civil Engineering, University of New Orleans
Certification - Coastal Engineering, 2018, University of New Orleans
B.S., 2008, Civil Engineering, Louisiana State University

Active registration: Year first registered/discipline:

2013, Civil Engineer, Louisiana, No. 38607
2018, Professional Engineer, Texas No. 129410

Other experience and qualifications relevant to the proposed Project:

Mr. Vutera serves as Gulf South's Engineering Manager and is based in Gulf South's Kenner, LA office. His experience with the firm includes daily work on geotechnical engineering projects as well as managing all geotechnical investigations and providing assistance with laboratory testing and construction materials testing and inspection. Engineering analyses that Mr. Vutera routinely performs include: shallow and deep foundations, slope stability analyses, settlement estimates, and pavement design. He is responsible for engineering design, report preparation, proposal preparation, personnel management, project management, and client interaction.

Mr. Vutera's field work consists of borehole logging; installation of ground water monitoring wells, piezometers, and inclinometers; overseen and evaluated pile load tests; overseen, performed, and evaluated dynamic pile testing (PDA and PIT); pavement coring; nuclear field density tests; and hand augers. Mr. Vutera has been the geotechnical engineer of record for hundreds of projects throughout his career.

Fire Station No. 20 (Burbank Drive), Baton Rouge, Parish of East Baton Rouge, LA. Geotechnical investigation for construction of a new fire station off Burbank Drive in Baton Rouge, LA. Gulf South's scope includes drilling five undisturbed soil borings (1 at 30 ft.; 1 at 20 ft.; 1 at 15 ft.; 2 at 6 ft.), lab testing, and engineering analyses including allowable soil bearing values, allowable pile/shaft load

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

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

capacities, estimates of settlement, flexible and/or rigid pavement design recommendations, pond borrow/fill recommendations, estimated capability of pond area to hold water and liner recommendations, and general construction recommendations. (City-Parish Project No.: 18-ASD-CP-1142) (\$4,200 (fee); 2019)

New Multi-Purpose Building, Ascension Parish Sheriff's Office (APSO), Gonzales, Ascension Parish, LA. Geotechnical investigation for construction of a new multi-purpose building off South St. Landry Avenue in Gonzales, LA. Gulf South's scope includes drilling undisturbed soil borings (2 at 20 ft.; 2 at 6 ft.), lab testing, and engineering analyses including allowable soil bearing values, allowable pile/shaft load capacities, estimates of settlement, rigid and/or flexible pavement design recommendations, and general construction recommendations. (\$3,600 (fee); 2019)

New Gymnasium Facility – New Building and Truck Areas, Gonzales, Ascension Parish, LA. Geotechnical investigation for construction of a new building and truck areas off South Darla Avenue in Gonzales. Scope includes drilling undisturbed soil borings (2 at 20 ft., 1 at 10 ft., 2 at 6 ft.), preparation of a Phase 1 Environmental Site Assessment (ESA), lab testing, and engineering analyses including allowable soil bearing values, allowable shaft/pile load capacities, estimates of settlement, rigid and/or flexible pavement design recommendations, and general construction procedures and recommendations. (\$9,060 (fee); 2019)

New Commercial Building, Metairie, Jefferson Parish, LA. Geotechnical investigation for construction of a new commercial building off Airline Drive in Metairie. Scope includes drilling undisturbed soil borings (three at 75 ft), lab testing, and engineering analyses including allowable soil bearing values, allowable pile load capacities (as appropriate), estimates of settlement, flexible and/or rigid pavement design recommendations, and general construction procedures and recommendations. (\$12,000 (fee); 2018)

Clancy-Maggiore Elementary School – New Art and Band Wing, Kenner, Jefferson Parish, LA. Geotechnical investigation for a new art and band building (10,000 sf) in Kenner, LA. Gulf South's scope includes drilling two soil borings to depths of 60 feet and 40 feet, lab testing, and engineering analyses including allowable soil bearing values, allowable pile load capacities, estimate of settlement, and general construction procedures and recommendations. (\$6,000 (fee); 2016)

Fire Station No. 38 (Duke Drive), City of Kenner, LA. Geotechnical investigation for construction of a new fire station off Duke Drive in Kenner, LA. Gulf South's scope includes drilling two undisturbed soil borings each to a depth of 70 feet, lab testing, and engineering analyses including allowable pile load capacities, estimates of settlement, rigid and/or flexible pavement recommendations, and general construction procedures and recommendations. (\$9,490 (fee); 2019)

New Charter School (Behrman Highway), Terrytown, Jefferson Parish, LA. Geotechnical investigation for construction of a new Charter School along Behrman Highway in Terrytown, LA. Gulf South's scope includes drilling 13 soil borings to depths of 100 feet (2 borings for structure), 80 feet (2 borings; 1 structure & 1 canal stability analysis), 60 feet (2 borings for structure), 10 feet (7 borings for paved areas), lab testing (strength and classification), and geotechnical engineering analysis including allowable soil bearing values, allowable pile load capacities, estimates of settlement, slope stability analyses, rigid and/or flexible pavement design recommendations, and general construction recommendations. (\$20,000 (fee); 2017)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Joseph H. "Trey" Binder, III
Laboratory Manager

Project Assignment:

Laboratory Manager; Laboratory Technician

Name of Firm with which associated:



ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants

Years experience with this Firm:

10 years with this firm (2011); 15 years total (2006)

Education: Degree(s)/Year/Specialization:

A.D., 2011, General Studies, Nunez Community College

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Mr. Binder has direct experience with field and laboratory testing services, and is NICET certified in multiple disciplines, including Construction Materials Testing Soils, Geotechnical Engineering Technologies Exploration, and Geotechnical Engineering Technologies Laboratory (Level I). Mr. Binder has HAZMAT Awareness and Operations Training.

- HAZMAT Awareness
- HAZMAT Operations Training
- ACI Aggregate Base Testing Technician

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.

Fire Station No. 38 (Duke Drive), City of Kenner, LA. Geotechnical investigation for construction of a new fire station off Duke Drive in Kenner, LA. Gulf South's scope includes drilling two undisturbed soil borings each to a depth of 70 feet, lab testing, and engineering analyses including allowable pile load capacities, estimates of settlement, rigid and/or flexible pavement recommendations, and general construction procedures and recommendations. (\$9,490 (fee); 2019)

New Charter School (Behrman Highway), Terrytown, Jefferson Parish, LA. Geotechnical investigation for construction of a new Charter School along Behrman Highway in Terrytown, LA. Gulf South's scope

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

Joseph H. Binder, III (continued)

includes drilling 13 soil borings to depths of 100 feet (2 borings for structure), 80 feet (2 borings; 1 structure & 1 canal stability analysis), 60 feet (2 borings for structure), 10 feet (7 borings for paved areas), lab testing (strength and classification), and geotechnical engineering analysis including allowable soil bearing values, allowable pile load capacities, estimates of settlement, slope stability analyses, rigid and/or flexible pavement design recommendations, and general construction recommendations. (\$20,000 (fee); 2017)

New Commercial Building, Metairie, Jefferson Parish, LA. Geotechnical investigation for construction of a new commercial building off Airline Drive in Metairie, LA. Gulf South's scope includes drilling undisturbed soil borings (three at 75 ft), lab testing, and engineering analyses including allowable soil bearing values, allowable pile load capacities (as appropriate), estimates of settlement, flexible and/or rigid pavement design recommendations, and general construction procedures and recommendations. (\$12,000 (fee); 2018)

Starlight Studio Phase II Expansion Buildings, New Orleans, LA. Geotechnical investigation for construction of three new buildings, paved areas, and drainage/utility improvements at 4227 Poche Courty West in New Orleans, LA. Gulf South's scope includes drilling seven undisturbed soil borings (3 at 80 ft.; 4 at 10 ft.), lab testing, and engineering analyses including allowable soil bearing values, allowable pile load capacities, estimates of settlement, pavement design recommendations, pond/borrow fill recommendations, estimated capability of pond area to hold water and lining recommendations, and general construction recommendations. (\$10,000 (fee); 2019)

New Gymnasium Facility – New Building and Truck Areas, Gonzales, Ascension Parish, LA. Geotechnical investigation for construction of a new building and truck areas off South Darla Avenue in Gonzales, LA. Gulf South's scope includes drilling undisturbed soil borings (2 at 20 ft., 1 at 10 ft., 2 at 6 ft.), preparation of a Phase 1 Environmental Site Assessment (ESA), lab testing, and engineering analyses including allowable soil bearing values, allowable shaft/pile load capacities, estimates of settlement, rigid and/or flexible pavement design recommendations, and general construction procedures and recommendations. (\$9,060 (fee); 2019)

New Hotel, Metairie, Jefferson Parish, LA. Geotechnical investigation for a new hotel building with paved parking and driveway areas (5-stories; approx. 10,500 sf in plan dimensions) at Richland Avenue in Metairie, LA. Gulf South's scope includes drilling five undisturbed soil borings (one at 60 ft, two at 40 ft, two at 6 ft), lab testing, and engineering analyses including allowable soil bearing values, allowable pile/shaft load capacities (as appropriate), estimates of settlement, and general construction procedures and recommendations. (\$8,800 (fee); 2018)

Clancy-Maggiore Elementary School – New Art and Band Wing, Kenner, Jefferson Parish, LA. Geotechnical investigation for a new art and band building (10,000 sf) in Kenner, LA. Gulf South's scope includes drilling two soil borings to depths of 60 feet and 40 feet, lab testing, and engineering analyses including allowable soil bearing values, allowable pile load capacities, estimate of settlement, and general construction procedures and recommendations. (\$6,000 (fee); 2016)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Sara E. Lockwood, E.I.
Graduate Engineer

Project Assignment:

Graduate Engineer

Name of Firm with which associated:



ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants

Years experience with this Firm:

2 years with this firm (2019); 4 years total (2017)

Education: Degree(s)/Year/Specialization:

B.S., 2019, Civil Engineering, University of New Orleans
B.S., 2016, Physics, Loyola University

Active registration: Year first registered/discipline:

2020, Engineering Intern, Louisiana, No. EI.0034718

Other experience and qualifications relevant to the proposed Project:

Ms. Lockwood recently joined Gulf South Engineering and Testing and is serving as a Graduate Engineer, providing such duties as project management, geotechnical engineering analyses, and field & laboratory testing & inspection. Her coursework included such disciplines as foundation engineering, soil mechanics, geotechnical engineering, structural concrete & structural steel design, and sustainability principals. She worked as an intern during her college career for a local consulting group, assisting on a variety of environmental studies for infrastructure projects, and preparing regulatory permit applications, as well as preparation of various components of Louisiana DEQ and NEPA documents.

- Society of Women Engineers
- American Society of Civil Engineers

Fire Station No. 38 (Duke Drive), City of Kenner, LA. Geotechnical investigation for construction of a new fire station off Duke Drive in Kenner, LA. Gulf South's scope includes drilling two undisturbed soil borings each to a depth of 70 feet, lab testing, and engineering analyses including allowable pile load capacities, estimates of settlement, rigid and/or flexible pavement recommendations, and general construction procedures and recommendations. (\$9,490 (fee); 2019)

Slidell Olde Towne Railroad Depot Phase II Renovations - New Elevator, Slidell, St. Tammany Parish, LA. Geotechnical engineering services for the construction of a new elevator supported on deep foundation at 1827 Front St. in Slidell, LA. Gulf South's scope includes drilling a single undisturbed soil boring to a depth of 50 feet bgs (below ground surface), laboratory testing, engineering analyses and general construction procedures and recommendations. (\$4,500 (fee); 2018)

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

Sarah E. Lockwood (continued)

New Gymnasium Facility – New Building and Truck Areas, Gonzales, Ascension Parish, LA. Geotechnical investigation for construction of a new building and truck areas off South Darla Avenue in Gonzales, LA. Gulf South's scope includes drilling undisturbed soil borings (2 at 20 ft., 1 at 10 ft., 2 at 6 ft.), preparation of a Phase 1 Environmental Site Assessment (ESA), lab testing, and engineering analyses including allowable soil bearing values, allowable shaft/pile load capacities, estimates of settlement, rigid and/or flexible pavement design recommendations, and general construction procedures and recommendations. (\$9,060 (fee); 2019)

New Elevator, Stairway & Parking, Future Senior Living Facility, New Orleans, LA. Geotechnical investigation for construction of new elevator/stairway and parking at 5909 St. Claude Avenue, New Orleans, LA. Gulf South's scope includes drilling three undisturbed soil borings (1 at 40 ft.; 2 at 6 ft.), lab testing, and engineering analyses including allowable soil bearing values, allowable pile load capacities, estimates of settlement, in-situ percolation/infiltration rate, rigid and/or flexible pavement recommendations, and general construction procedures and recommendations. (\$6,000 (fee); 2019)

Delgado Nursing School - New Exterior Stairs and ADA Ramp, New Orleans, LA. Geotechnical investigation for construction of new exterior stairs and ADA ramp at Delgado Nursing School, located at 1542 Tulane Avenue in New Orleans. Gulf South's scope includes drilling a single undisturbed soil boring to a depth of 40 feet, lab testing, and engineering analyses including allowable soil bearing values, allowable pile/shaft load capacities, estimates of settlement, lateral earth pressures, and general construction recommendations. (\$2,900 (fee); 2019)

New Gymnasium Building Addition – Lamar Dixon Expo Center, Gonzales, Ascension Parish, LA. Geotechnical engineering services for the construction of a new building addition and new associated paved areas (north and east side of addition) at the subject site. Gulf South's scope includes drilling soil borings (one at 50 ft., one at 20 ft., two at 6 ft.), laboratory testing, engineering analyses (including allowable soil bearing values, allowable shaft/pile load capacities, estimate of settlement), rigid and/or flexible pavement design recommendations, and general construction procedures & recommendations. (\$6,500 (fee); 2019)

Harbor of Refuge Camp Structure, Plaquemines Parish, LA. Geotechnical engineering services for the construction of a new camp structure within LA-23, Buras, LA. Gulf South's scope includes drilling two undisturbed soil borings to depths of 60 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$10,000 (fee); 2019)

Slidell Olde Towne Railroad Depot Phase II Renovations - New Elevator, Slidell, St. Tammany Parish, LA. Geotechnical engineering services for the construction of a new elevator supported on deep foundation at 1827 Front St. in Slidell, LA. Gulf South's scope includes drilling a single undisturbed soil boring to a depth of 50 feet bgs (below ground surface), laboratory testing, engineering analyses and general construction procedures and recommendations. (\$4,500 (fee); 2018)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Ross L. White
Soil Boring Driller

Project Assignment:

Soil Boring Driller

Name of Firm with which associated:



ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants

Years experience with this Firm:

3 years with this firm (2018); 12 years total (2009)

Education: Degree(s)/Year/Specialization:

High School Diploma

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Mr. White provides Driller services for Gulf South, having joined the firm in 2018.

- *ISTC basic, Entergy PowerSafe*
- *CDL A Class Driver's License (exp 11/2024)*

New Hotel, Metairie, Jefferson Parish, LA. Geotechnical investigation for a new hotel building with paved parking and driveway areas (5-stories; approx. 10,500 sf in plan dimensions) at Richland Avenue in Metairie, LA. Gulf South's scope includes drilling five undisturbed soil borings (one at 60 ft, two at 40 ft, two at 6 ft), lab testing, and engineering analyses including allowable soil bearing values, allowable pile/shaft load capacities (as appropriate), estimates of settlement, and general construction procedures and recommendations. (\$8,800 (fee); 2018)

New Public Works Maintenance Barn, City of Covington, St. Tammany Parish, LA. Geotechnical investigation for a new pre-engineered building (approx. 8900 sf; metal-framed) at 1300 West 27th Avenue in Covington, LA. Gulf South's scope includes drilling two undisturbed soil borings to a depth of 30 feet, lab testing, and engineering analyses including allowable soil bearing values, allowable shaft load capacities (as appropriate), estimates of settlement, and general construction procedures and recommendations. (\$5,500 (fee); 2018)

New Commercial Building, Metairie, Jefferson Parish, LA. Geotechnical investigation for construction of a new commercial building off Airline Drive in Metairie, LA. Gulf South's scope includes drilling undisturbed soil borings (three at 75 ft), lab testing, and engineering analyses including allowable soil bearing values,

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

Ross L. White (continued)

allowable pile load capacities (as appropriate), estimates of settlement, flexible and/or rigid pavement design recommendations, and general construction procedures and recommendations. (\$12,000 (fee); 2018)

First Baptist Church, Napoleonville, Assumption Parish, LA. Geotechnical investigation for construction of a new church building at 4616 LA Highway 308 in Napoleonville, LA. Gulf South's scope includes drilling two undisturbed soil borings (one at 24 ft; one at 16 ft), lab testing, and engineering analyses including allowable soil bearing values, allowable pile/shaft load capacities, estimates of settlement, and general construction recommendations. (\$3,000 (fee); 2019)

New Louisiana National Guard Monument at Veteran's Memorial Park, Baton Rouge, LA. Geotechnical investigation for construction of a new monument in Veteran's Memorial Park in Baton Rouge. Gulf South's scope includes drilling a single undisturbed soil boring (depth of 20 ft), lab testing, and engineering analyses including allowable soil bearing values, allowable pile/shaft load capacities, estimates of settlement, and general construction recommendations. (\$3,200 (fee); 2019)

New Multi-Purpose Building, Ascension Parish Sheriff's Office (APSO), Gonzales, Ascension Parish, LA. Geotechnical investigation for construction of a new multi-purpose building off South St. Landry Avenue in Gonzales, LA. Gulf South's scope includes drilling undisturbed soil borings (2 at 20 ft.; 2 at 6 ft.), lab testing, and engineering analyses including allowable soil bearing values, allowable pile/shaft load capacities, estimates of settlement, rigid and/or flexible pavement design recommendations, and general construction recommendations. (\$3,600 (fee); 2019)

New Gymnasium Facility – New Building and Truck Areas, Gonzales, Ascension Parish, LA. Geotechnical investigation for construction of a new building and truck areas off South Darla Avenue in Gonzales. Scope includes drilling undisturbed soil borings (2 at 20 ft., 1 at 10 ft., 2 at 6 ft.), preparation of a Phase 1 Environmental Site Assessment (ESA), lab testing, and engineering analyses including allowable soil bearing values, allowable shaft/pile load capacities, estimates of settlement, rigid and/or flexible pavement design recommendations, and general construction procedures and recommendations. (\$9,060 (fee); 2019)

Fire Station No. 61 Renovations, St. Amant, Ascension Parish, LA. Geotechnical engineering services for the Renovation of Fire Station No. 61 (LA Hwy 22) in St. Amant, LA. Renovations include elevating the existing administration building (10 ft) and demolition of the original truck bay & construction of a new raised truck bay. Gulf South's scope of services includes field investigation (drilling of undisturbed soil borings (1 at 20 ft., 1 at 40 ft.) via concrete coring), lab testing (including strength & classification tests), and geotechnical engineering (allowable soil bearing & pile/shaft load capacities, estimates of settlement, and general construction procedures & recommendations). (\$3,500 (fee); 2017)

New Office Building and Parking Lot, First National Banker's Bank, Baton Rouge, East Baton Rouge Parish, LA. Geotechnical investigation for construction of a new office building and parking lot at 7913 Office Park Boulevard in Baton Rouge, LA. Gulf South's scope includes drilling undisturbed soil borings (two at 24 ft.; one at 6 ft.), lab testing, and engineering analyses including allowable soil bearing values, allowable pile/shaft load capacities, estimates of settlement, rigid and/or flexible pavement design recommendations, and general construction recommendations. (\$3,200 (fee); 2019)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Christopher Boutwell

Construction Materials Testing (CMT) Supervisor

Project Assignment:

Construction Materials Testing (CMT) Supervisor

Name of Firm with which associated:



ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants

Years experience with this Firm:

9 years with this firm (2012); 12 years total (2009)

Education: Degree(s)/Year/Specialization:

High School Diploma

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Mr. Boutwell serves as a CMT Supervisor in Gulf South's Kenner, LA office. As a CMT Supervisor, Mr. Boutwell is responsible for scheduling technicians, technical training, resolving technical and personnel

- ACI Concrete Field Testing – Grade I
- APNGA Nuclear Moisture/Density Gauge Training
- OSHA Safety Training – 8 hr.

issues, equipment maintenance, preparing proposals, reviewing reports, and client interaction. Mr. Boutwell's construction monitoring experience includes nuclear density testing, concrete testing and inspection, asphalt inspection, earthwork testing and inspection, driven pile inspection, vibration monitoring, augercast pile inspection, and drilled shaft inspection. Mr. Boutwell is proficient in the following laboratory tests: soil and concrete compressive strength, moisture content, grain size sieve, organic content, Proctor compaction, lime/soil and soil/cement % determinations, density tests, and Atterberg limits.

Mr. Boutwell has logged soil borings, performed pile load tests, floor flatness testing, anchor bolt pull out tests, obtained and secured samples from soil borings and borrow pits, and completed hand augers. Mr. Boutwell routinely operates Gulf South's pavement coring machines.

Jefferson Parish Library Renovations (2350 Metairie Road), Metairie, Jefferson Parish, LA. Gulf South performed field and laboratory testing during construction of library renovations for the Jefferson Parish library along Metairie Road in Metairie, LA. Gulf South's scope of work included field density tests, earthwork inspection, welding and steel inspection, and concrete testing and inspection. (\$15,000 (fee); 2019)

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

Christopher Boutwell (continued)

Jefferson Parish Department of Public Works West Bank Central Warehouse, Bridge City, Jefferson Parish, LA. Project consisted of the construction of a new warehouse for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Our scope of services included performing a pile load test, pile plant inspection, pile monitoring during installation, vibration monitoring, concrete testing and inspection, earthwork testing and inspection including soil sampling and field density tests, steel inspection, and asphalt testing and inspection. (\$90,000 (fee); 2017)

Firehouse Road Sewer Force Main Replacement, Kenner, Jefferson Parish, LA. Gulf South performed field and laboratory testing during construction for a new sewer force main for Jefferson Parish in Kenner, LA. Gulf South's scope of work included field density tests, earthwork inspection, and concrete testing and inspection. (\$10,000 (fee); 2019)

Jefferson Parish Fire Department – Garage (River Road), Bridge City, Jefferson Parish, LA. Gulf South performed field and laboratory testing during construction for the JPFD's New Garage in Bridge City, LA. Gulf South's scope of work included pile inspection, vibration monitoring, field density tests, earthwork inspection, welding and steel inspection, and concrete testing and inspection. (2018)

New North Terminal – Terminal Building, Louis Armstrong New Orleans International Airport, LA. Gulf South performed field and laboratory testing during construction of the Terminal Building Project at the Louis Armstrong New Orleans International Airport in Kenner, Louisiana. Gulf South is providing QA oversight of the contractor for the owner for this \$800 million project which consists of the construction of a new terminal facility including a new 800,000 square foot building, vehicle ramps, parking, etc. QA inspection consists of pile monitoring, concrete inspection and testing, earthwork testing and inspection, and steel inspection. (\$2M (fee); ongoing)

Recovery School District - Sherwood Forest Elementary School, New Orleans, LA. Gulf South provided the field and laboratory testing and inspection during construction (CMT). Gulf South's services consisted of pile installation inspection (augercast piles), concrete testing and inspection, earthwork and roadway base testing and inspection, performing pile load tests, steel inspection, floor flatness testing, and acoustic monitoring. (\$145,000 (fee); 2016)

Wastewater Treatment Plant (WWTP) North Expansion, Baton Rouge, LA. Gulf South provided geotechnical investigation for improvement and new facilities in Baton Rouge, LA. Structure size and location varies over an existing 19 acres (approx.) site. New facilities are proposed over a 3-acre site, north of the existing site. Scope of work included drilling 31 soil boring to varies depths ranging from 25 to 100 feet below the ground surface. Install piezometers at 5 locations. (\$95,000 (fee); 2015)

Chase Bank Site Investigation, Mandeville, St. Tammany Parish, LA. Geotechnical investigation for investigation of a building that flooded due to a broken water line. Gulf South's scope of work includes drilling one soil boring to a depth of 20 ft, drilling 13 cores inside the building, and sampling to 2 ft through the indoor cores. Other services include laboratory testing & geotechnical engineering analyses consisting of allowable soil bearing values, soil classification, estimates of settlement, and general construction recommendations. (\$7,500 (fee); 2014)

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>Fire Station No. 38 (Duke Drive), City of Kenner, Louisiana</p> <p>Digital Engineering 527 West Esplanade Avenue Suite 200 Kenner LA 70065</p> <p>Frank T. Liang, P.E., 504-468-6129 fliang@deii.net</p>	Geotechnical investigation for construction of a new fire station off Duke Drive in Kenner, LA. Gulf South's scope includes drilling two undisturbed soil borings each to a depth of 70 feet, lab testing, and engineering analyses including allowable pile load capacities, estimates of settlement, rigid and/or flexible pavement recommendations, and general construction procedures and recommendations.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2019	N/A	\$9,490 (fee)

PROJECT NO. 2

Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
New Commercial Building, Metairie, Jefferson Parish, Louisiana Sensebe & Associates, Inc. 433 Champs Elysees Kenner LA 70065 Joseph Sensebe, 504-427-0509 joesen@aol.com	Geotechnical investigation for construction of a new commercial building off Airline Drive in Metairie, LA. Gulf South's scope includes drilling undisturbed soil borings (three at 75 ft), lab testing, and engineering analyses including allowable soil bearing values, allowable pile load capacities (as appropriate), estimates of settlement, flexible and/or rigid pavement design recommendations, and general construction procedures and recommendations.	
	Estimated Cost:	
Completion Date (Actual or estimated):	Entire Project:	Work for which Firm was Responsible:
	2018	N/A

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
Heritage Manor of Mandeville – New Nursing Home Building, Mandeville, St. Tammany Parish, Louisiana Louisiana Extended Care Center, LLC 3700 Bayou Rapides Road Alexandria LA 71303 Harold Gamburg, 318-445-6586 hgamburg@asimgt.com	Soil boring investigation for a new nursing home facility off Lonesome Road in Mandeville, LA. Gulf South's scope includes drilling nine undisturbed soil borings (3 at 30 ft., 6 at 20 ft., 1 at 6 ft.), lab testing, and engineering analyses including allowable soil bearing values, estimates of settlement, allowable pile/shaft load capacities, flexible and/or rigid pavement design recommendations, and general construction procedures and recommendations.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2019	N/A	\$10,000 (fee)

PROJECT NO. 4		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
Starlight Studio Phase II Expansion Buildings, New Orleans, Louisiana SCNZ Architects, LLC 2134 Magazine Street Suite 200 New Orleans LA 70130 Joe Lantz, Architect, 504-301-3722 jlantz@scnz.net	Geotechnical investigation for construction of three new buildings, paved areas, and drainage/utility improvements at 4227 Poche Courty West in New Orleans, LA. Gulf South's scope includes drilling seven undisturbed soil borings (3 at 80 ft., 4 at 10 ft.), lab testing, and engineering analyses including allowable soil bearing values, allowable pile load capacities, estimates of settlement, pavement design recommendations, pond/borrow fill recommendations, estimated capability of pond area to hold water and lining recommendations, and general construction recommendations.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2019	N/A	\$10,000 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>New Gymnasium Facility – New Building and Truck Areas, City of Gonzales, Ascension Parish, Louisiana</p> <p>City of Gonzales 120 South Irma Avenue Gonzales LA 70737</p> <p>Scot Byrd, CLED, 225-647-9551 scot@gonzalesla.com</p>	<p>Geotechnical investigation for construction of a new building and truck areas off South Darla Avenue in Gonzales, LA. Gulf South's scope includes drilling undisturbed soil borings (2 at 20 ft., 1 at 10 ft., 2 at 6 ft.), preparation of a Phase 1 Environmental Site Assessment (ESA), lab testing, and engineering analyses including allowable soil bearing values, allowable shaft/pile load capacities, estimates of settlement, rigid and/or flexible pavement design recommendations, and general construction procedures and recommendations.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2019	N/A	\$9,060 (fee)

PROJECT NO. 6		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>New Elevator, Stairway & Parking, Future Senior Living Facility, New Orleans, Louisiana</p> <p>Alembic Community Development 1307 Oretha C. Haley Blvd Ste 300 New Orleans LA 70113</p> <p>Michael Grote, 504-569-0546</p>	<p>Geotechnical investigation for construction of new elevator/ stairway and parking at 5909 St. Claude Avenue, New Orleans, LA. Gulf South's scope includes drilling three undisturbed soil borings (1 at 40 ft.; 2 at 6 ft.), lab testing, and engineering analyses including allowable soil bearing values, allowable pile load capacities, estimates of settlement, in-situ percolation/infiltration rate, rigid and/or flexible pavement recommendations, and general construction procedures and recommendations.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2019	N/A	\$6,000 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
Clancy-Maggiore Elementary School – New Art and Band Wing , Kenner, Jefferson Parish, Louisiana Jefferson Parish School Board c/o Meyer Engineers, Ltd. 4937 Hearst Street, Suite 1B Metairie LA 70001 Mark A. Schutt, P.E. , 504-885-9892 mschutt@meyer-e-l.com	Geotechnical investigation for a new art and band building (10,000 sf) in Kenner, LA. Gulf South's scope includes drilling two soil borings to depths of 60 feet and 40 feet, lab testing, and engineering analyses including allowable soil bearing values, allowable pile load capacities, estimate of settlement, and general construction procedures and recommendations.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2016	N/A	\$6,000 (fee)

PROJECT NO. 8		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
Fire Station No. 61 (Renovations) , St. Amant, Ascension Parish, Louisiana Mougeot Architecture 10343 Siegen Lane, Bldg 7, Ste A Baton Rouge LA 70810 David Mougeot, AIA , 225-727-1717 dmougeot@mougeotarchitecture.com	Geotechnical engineering services for the Renovation of Fire Station No. 61 (LA Hwy 22) in St. Amant, LA. Renovations include elevating the existing administration building (10 ft) and demolition of the original truck bay & construction of a new raised truck bay. Gulf South's scope of services includes field investigation (drilling of undisturbed soil borings (1 at 20 ft., 1 at 40 ft.) via concrete coring), lab testing (including strength & classification tests), and geotechnical engineering (allowable soil bearing & pile/shaft load capacities, estimates of settlement, and general construction procedures & recommendations).	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2017	N/A	\$3,500 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Police Headquarters - New Addition, City of Gretna Police Department, Jefferson Parish, Louisiana</p> <p>City of Gretna Police Department 200 Fifth Street Gretna LA 70053</p> <p>Anthony Christiana, Jr., 504-363-1700</p>	<p>New addition to existing building at Gretna Police Headquarters. Drill one boring to 100 feet, perform laboratory testing and geotechnical engineering analyses consisting of allowable pile load capacities, estimates of settlement, and general construction recommendations.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2011	N/A	\$3,200 (fee)

PROJECT NO. 10		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Fire Station No. 20 (Burbank Drive), City of Baton Rouge/Parish of East Baton Rouge, Louisiana</p> <p>City of Baton Rouge/ Parish of East Baton Rouge Post Office Box 1471 Baton Rouge LA 70821</p> <p>Chris Stelly, AIA, 225-389-4694 Crump Wilson Architects chriss@crumpwilsonarchitects.com</p> <p>Carla Demoulin, cdemoulin@br.gov</p>	<p>Geotechnical investigation for construction of a new fire station off Burbank Drive in Baton Rouge, LA. Gulf South's scope includes drilling five undisturbed soil borings (1 at 30 ft.; 1 at 20 ft.; 1 at 15 ft.; 2 at 6 ft.), lab testing, and engineering analyses including allowable soil bearing values, allowable pile/shaft load capacities, estimates of settlement, flexible and/or rigid pavement design recommendations, pond borrow/fill recommendations, estimated capability of pond area to hold water and liner recommendations, and general construction recommendations. (City-Parish Project No.: 18-ASD-CP-1142)</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2019	N/A	\$4,200 (fee)

TEC Professional Services Questionnaire

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

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

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



INTRODUCTION

Gulf South Engineering and Testing, Inc. (Gulf South) is a geotechnical engineering and construction materials testing and inspection company which began operations in 2011. Since that time, we have grown to two offices and over two dozen employees. Gulf South provides a broad range of geotechnical related services, completing more than 100 geotechnical engineering projects and 300 construction materials testing and inspection projects each year. These projects typically include soil borings (shallow and deep borings), laboratory testing (AASHTO, ASTM methods, etc.), soil classification (USCS), geotechnical engineering, and construction material testing and field inspection.

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

TEC Professional Services Questionnaire

N. continued.

Geotechnical Engineering Services

Gulf South's ownership and senior management have decades of combined experience in the profession and have completed thousands of projects. One of Gulf South's Principals, Chad M. Poché, P.E., is a founder of the company and Professional Engineer registered in Civil Engineering in Louisiana and Mississippi with specific training and experience in geotechnical engineering. He has more than 25 years 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*
- *Settlement analyses*
- *Shoreline protection*
- *Scour analyses*
- *LRFD Design*
- *Mechanically Stabilized Earth (MSE) Walls*
- *Earthwork*
- *Development of load test programs*
- *Geotechnical instrumentation and construction monitoring*
- *Canals and pump station foundations*
- *Pipe bedding and backfill*
- *Roadways and bridges*
- *Pavements*

Field Investigation Services

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

Laboratory Testing Services

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

Gulf South's Kenner laboratory is AASHTO and CCRL certified and USACE validated.

TEC Professional Services Questionnaire

N. continued.

Construction Materials Testing & Inspection

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

- *Fill and base compaction and density testing*
- *Vibration monitoring*
- *Pre- and post-construction inspection*
- *Concrete testing and inspection*
- *Soil testing (field and laboratory)*
- *Asphalt testing*
- *Pile (driven & augercast) and shaft installation monitoring*
- *Load tests*
- *Earthwork/proof roll inspection*
- *Welding inspection*
- *Steel inspection*
- *Noise monitoring*

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

PROFESSIONAL TRAINING & EXPERIENCE

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

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

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

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

SIZE OF FIRM & CAPACITY FOR TIMELY COMPLETION

At 28 employees, Gulf South has the appropriate number of employees and personnel for this project. We will complete our scope of services on time and within budget. Further said, Gulf South is able to readily meet the time and budget constraints for projects assigned to this contract. Our current work load is such that we can expeditiously complete projects for this contract.

TEC Professional Services Questionnaire

N. continued.

PAST PERFORMANCE ON JEFFERSON PARISH PROJECTS

Gulf South has worked both directly and indirectly for various **Jefferson Parish Departments** (Public Works, Engineering Department, Drainage Department, Jefferson Parish School Board, etc.) throughout our history. This would include, **but not be limited to**, the following:

- Jefferson Parish Fire Department – Garage (River Road), Bridge City, Jefferson Parish, LA
- Jefferson Parish Dept. of Public Works West Bank Central Warehouse, Bridge City, Jefferson Parish, LA
- New Charter School, Behrman Highway, Terrytown, Jefferson Parish, LA
- Jefferson Parish Library Renovations (2350 Metairie Road), Metairie, Jefferson Parish, LA
- Clancy-Maggiore Elementary School – New Art and Band Wing, Kenner, Jefferson Parish, LA
- Johnny Bright Playground Gymnasium HVAC Installation, Metairie, Jefferson Parish, LA
- Kennedy Heights Playground Gymnasium HVAC Renovation, Avondale, Jefferson Parish, LA
- Trudeau Drive at Canal No. 5 Drainage Improvements, Metairie, Jefferson Parish, LA
- Earhart Expressway (Clearview Parkway to Central Avenue) Lighting Improvements, Jefferson Parish, LA
- West Esplanade Avenue Restoration (Tartan Drive to Haring Road), Metairie, Jefferson Parish, LA
- Citrus Road and Greg Court Subsurface Drainage Improvements, Jefferson Parish, LA
- Improvements to Sewer Lift Station M-11-3 & Force Main, Marrero, Jefferson Parish, LA
- Westgate Drainage Improvements, Metairie, Jefferson Parish, LA
- Bike Path Soil Borings, Jefferson Highway to Northline Street, Jefferson Parish, LA
- Green Acres Road - New Street Lighting, Metairie, Jefferson Parish, LA
- New Lift Station (Elmwood Park Blvd. & Citrus Blvd.), Metairie, Jefferson Parish, LA
- New Sewer Lift Station (Butler Drive & Grambling Street), Waggaman, Jefferson Parish, LA
- Drainage Infrastructure Improvements, South Avondale Subdivision, Avondale, Jefferson Parish, LA
- Parish Line Drainage Pump Station Improvements - Phase I, City of Kenner, Jefferson Parish, LA
- Public Works West Bank Central Warehouse, Bridge City, Jefferson Parish, LA
- New Sewer Lift Station (Melrose Lane & Walker Road), River Ridge, Jefferson Parish, LA
- Drainage Improvements, Citrus Road & Greg Court, Metairie, Jefferson Parish, LA
- New Sewer Force Main Installation (Midway & Wildwood to Lift Station E3-1), Jefferson Parish, LA
- St. Peter's Ditch - Phase IV (Pump Station at Clearview), Metairie, Jefferson Parish, LA
- Waggaman Subsurface Drainage Improvements, Waggaman, Jefferson Parish, LA
- Lift Station Replacement - N. Pierce Avenue & Versailles Street, Metairie, Jefferson Parish, LA
- Marsh Island Restoration Project, Lafreniere Park, Metairie, Jefferson Parish, LA
- Lift Station Replacement - Mississippi Avenue at 21st Street, Metairie, Jefferson Parish, LA
- Kawanee at Olympic Lift Station, Metairie, Jefferson Parish, LA
- Clearview Parkway Drainage Project, Metairie, Jefferson Parish, LA
- Submerged Roads Program - Multiple Phases, Metairie, Jefferson Parish, LA
- St. Peter's Ditch (4700 W. Metairie Ave.), Metairie, Jefferson Parish, LA
- Engineering Analysis Review (EAR) - Lafitte Tidal Protection Project (Phase I), Lafitte, Jefferson Parish, LA
- David Drive Drainage Improvements (West Esplanade Avenue to Bruin Drive), Jefferson Parish, LA
- Marrero WWTP New Administration Building and Safe Room, Marrero, Jefferson Parish, LA
- New Sewer Lift Station, Mississippi Ave. and Fulton St., Metairie, Jefferson Parish, LA
- Trudeau Drive Drainage Improvements at West Metairie Canal, Metairie, Jefferson Parish, LA
- Canal Bank Stabilization, Wayne Avenue at West Bank Expressway, Jefferson Parish, LA
- Taft Park Drainage Improvements, Jefferson Parish, LA
- Westwego Pump Station #1, Jefferson Parish, LA

Beyond the projects included within this form, additional project information (including listings, background, & client contacts) are available upon request. We have also completed similar services for Public and Private concerns throughout the region.

TEC Professional Services Questionnaire

N. continued.

LOCATION OF THE PRINCIPAL OFFICE

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

LITIGATION

As noted in Item M, Gulf South has not been involved in litigation with Jefferson Parish, nor with any of the firm's clients.

REFERENCES

The Principals and key employees of Gulf South have many years of applicable experience in working for and with Government Agencies and private industry. We are proud that a majority of its work is from repeat clients—we complete our projects on-time and within budget. Gulf South invites you to contact any of our clients for a candid discussion of our service and professionalism, and offer these direct references:

Tacie Rabalais, P.E., Parish Engineer, Ascension Parish Government Engineering Department

225-621-5700, trabalais@apgov.us

Joey Tureau, Infrastructure Division Director, Ascension Parish

225-450-1013, jtureau@apgov.us

Tom Schreiner, Deputy CAO Public Works & Capital Projects, City of Kenner

504-468-7515, tschreiner@kenner.la.us

Neil Schneider, Capital Projects, Jefferson Parish Public Works Department

504-736-6783, JPPW@jeffparish.net

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

504-736-6783, JPPW@jeffparish.net

Ben Lepine, Jefferson Parish Drainage Department

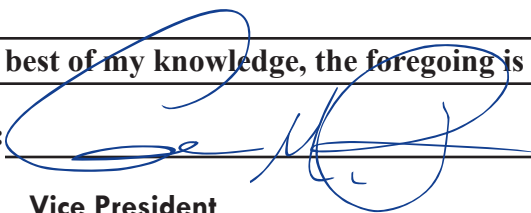
504-736-6759, blepine@jeffparish.net

INSURANCE

Gulf South is fully insured to provide the services we offer; additional information is available upon request.

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

Signature:



Print Name:

Chad M. Poché, P.E.

Title:

Vice President

Date:

January 12, 2021

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Architectural/Engineering Services on an As-Needed Basis for Architectural Projects located throughout the Parish

SOQ 20-20 | Resolution No. 136764

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



BFM
CORPORATION, LLC
Professional Land & Hydrographic Surveying

BFM Corporation, LLC

15 Veterans Memorial Boulevard
Kenner LA 70062

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

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

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

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

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

Ralph P. Fontcuberta, Jr., Executive Vice President

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

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

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

4	Administrative	-	Estimators	-	Specification Writers
-	Architects (Licensed)	-	Geologists	-	Structural Engineers
-	Chemical Engineers	1	Geotechnical Engineers	-	Graduate Engineers
-	Civil Engineers	-	Interior Designers	3	Project Managers
-	Construction Inspectors	-	Landscape Architects	*	Clerical (<i>see Administrative</i>)
-	Ecologists	-	Mechanical Engineers	-	Grant/Funding Specialist
-	Electrical Engineers	*	Land Surveyor (<i>*see PLS</i>)	-	Sanitary Engineers
-	Engineer Intern	-	Mechanical Engineers	4	Drafting/AutoCADD
1	Professional Land Surveyors	-	Environmental Engineers	7	Survey Crew Chiefs
				4	Instrument Men
				24	TOTAL

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

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

TEC Professional Services Questionnaire

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

1. **N/A**

2.

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

YES _____ NO _____

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

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

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

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

TEC Professional Services Questionnaire

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

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

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

Project Assignment:

Registered Professional Land Surveyor

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years experience with this Firm:

39 years (Founding Principal of BFM in 1982); 54 years total (1967)

Education: Degree(s)/Year/Specialization:

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

Active registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

Ralph P. Fontcuberta, Jr., PLS has 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.

Projects have included topographic surveying needed for a wide variety of engineering, architectural, construction, and other related endeavors. This work has included projects for numerous branches of virtually every regional city/parish/town government, multiple State agencies, Federal agencies, private/public companies, and numerous other public/private entities.

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

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

Mr. Fontcuberta's **surveying experience with Jefferson Parish can be traced back to BFM's inception in 1982**, and before then while working as a surveyor with another firm. He has over half a century of experience with surveying throughout the region and **specifically with Jefferson Parish**.

Relevant project history includes, but is certainly not limited to, the following:

- *Lafreniere Food Pavilion, Lafreniere Park, Metairie, Jefferson Parish, LA*
- *Rudolph Matas Elementary School HVAC Renovation Project, Metairie, Jefferson Parish, LA*
- *Site Specific Topographic Surveys for Multiple School Locations, Jefferson Parish, LA*
- *Jefferson Parish DPW Maintenance Building, Jefferson Parish, LA*
- *New Facility (15 Acres), Jefferson Parish, LA*
- *Fire Station No. 12, Jefferson Parish, LA*
- *T.H. Harris Middle School Surveying Services, Metairie, Jefferson Parish, LA*
- *East Jefferson High School Courtyard Improvements, Jefferson Parish School Board, Marrero, LA*
- *Lincoln Elementary School, Marrero, Jefferson Parish Public Schools, Jefferson Parish, LA*
- *Parish School Board Facilities Building Complex, Gretna, Jefferson Parish, LA*
- *Fire Department Garage/Fire Training Center, Jefferson Parish, LA*
- *Peter C Bertucci Elementary School (Ames Farms/Lower Estelle Plantation), Jefferson Parish, LA*
- *Lasalle Rest Room Building, Jefferson Parish, LA*
- *Marrero 911 Building, Jefferson Parish, LA*
- *Bridge City Fire Training Facility - FEMA Certificate, Bridge City, Jefferson Parish, LA*
- *DPW Maintenance Building, Jefferson Parish, LA*
- *New Construction (9 Lots), Jefferson Parish, LA*
- *John Quincy Adams Middle School, Metairie, Jefferson Parish, LA*
- *Lake Timberlane Station P-14-8, Harvey, Jefferson Parish, LA*
- *Bridge City Fire Training Facility - Slab Certificate, Bridge City, Jefferson Parish, LA*
- *FEMA Elevation Certificates for Multiple Structures at Various Campus Locations, Jefferson Parish Public Schools, Jefferson Parish, LA*
- *New Storage Building Construction Surveying, Marrero Middle School, Jefferson Parish, LA*
- *Harold Keller Elementary School, Metairie, Jefferson Parish, LA*
- *YMCA (East Jefferson Center), Metairie, Jefferson Parish, LA*
- *Belle Terre Library, Marrero, Jefferson Parish, LA*
- *Mike Miley Softball Concession Stand, Metairie, Jefferson Parish, LA*
- *L.W. Higgins High School, Marrero, Jefferson Parish, LA*
- *Chateau Estates Elementary School, Kenner, Jefferson Parish, LA*
- *Resubdivision of Jefferson Fire Station 11, Shrewsbury Subdivision, Jefferson Parish, LA*
- *Haynes Academy School, Metairie, Jefferson Parish, LA*
- *West Bank Regional Library, Harvey, Jefferson Parish, LA*
- *Fire Station 12, Jefferson, LA*

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

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

Project Assignment:

Engineering Liaison

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years experience with this Firm:

4 years (became partial owner of BFM in 2017); 28 years total (1993)

Education: Degree(s)/Year/Specialization:

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

Active registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

Mr. Poché is an Executive Vice President with (and partial owner of) BFM Corporation, LLC, and a co-founder of BFM's sister company, Gulf South Engineering and Testing, Inc. He has been a consulting geotechnical engineer for more than 25 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.

BFM Corporation projects overseen by Mr. Poché would include:

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

Chad M. Poché, P.E. (continued)

Lafreniere Food Pavilion, Lafreniere Park, Metairie, Jefferson Parish, LA. BFM prepared a site-specific topographic survey for the project site. (\$9,050 (fee); 2020)

East Bank Water Treatment Plant Improvements, Jefferson Parish, LA. BFM's surveying services located submerged pipes upon excavation as part of Task Order No. 3 of the project. (\$19,703 (fee); 2018)

Jefferson Parish Recreation Department Office, Metairie, Jefferson Parish, LA. BFM's scope involved a multiple-site topographic survey, including a temporary benchmark & construction benchmark; location of improvements, visible utilities & nearest fire hydrant; FF elevations at entrance of buildings, and; cross sections (25 ft grid). (\$3,345 (fee); 2018)

Rudolph Matas Elementary School HVAC Renovation Project, Metairie, Jefferson Parish, LA. BFM executed a site-specific topographic survey for the project, located at 1201 Elise Avenue in Metairie. (\$9,290 (fee); 2020)

Site Specific Topographic Surveys for Multiple School Locations, Jefferson Parish, LA. Site-specific topographic surveys for projects located at multiple Jefferson Parish Schools, including Airline Park Academy for Advanced Studies, Bonabel High School, Alfred Magnet Academy High School, Boudreaux, Geraldine Elementary, Bridgedale Elementary, Livaudais Middle School, Matas, Rudolph Elementary, McDonogh No.26 Elementary, Solis, Paul J. Elementary, Thomas West Jefferson, West Jefferson High, and Woodland West Elementary. (\$47,461 (fee); 2020)


East Jefferson General Hospital, Metairie, Jefferson Parish, LA. BFM's scope of services for the project involved a boundary survey with sidewalk location, covering the area along the northerly side of Ithaca at the westernmost driveway-accessing parking lot. Spot elevations were taken at 5 ft. intervals. Property corners were also located in the survey. (\$2,275 (fee); 2019)

Lapalco Boulevard Bridge at Harvey Canal, Jefferson Parish, LA. BFM provided extensive surveying services for a topographic survey and right-of-way (ROW) determination for the project. Project elements included setting GPS Static Control (5 permanent control points), traversing a proposed survey line, and land topography surveying. Additional phases included hydrographic topography of the project area, the right-of-way determination, and subsurface utility engineering (SUE). A Route Topographic Survey was also included as part of the scope. (\$575,738 (fee); 2019)

Parc Des Familles Visitor Center, Jefferson Parish, LA. BFM executed a topographic survey for the project site. (\$16,590 (fee); 2018)

Memorial Baptist Church and School, Jefferson Parish, LA. BFM provided surveying services for the project, which included boundary survey, location of improvements (including parking areas), and staking of property corners every 100 feet. BFM also executed a Survey Update with Builder's Package for the site at a later date. (\$15,200 (fee); 2020)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
<p>John Philip Thayer Field Operations Supervisor</p>
Project Assignment:
<p>Field Operations Supervisor</p>
Name of Firm with which associated:
 <p>BFM CORPORATION, LLC Professional Land & Hydrographic Surveying</p>
Years experience with this Firm:
<p>13 years (joined BFM in 2008); 14 years total (2007)</p>
Education: Degree(s)/Year/Specialization:
<p>B.S., 2007, Physical Education, Trevecca Nazarene University</p>
Active registration: Year first registered/discipline:
<p><i>Professional Land Surveyor Registration in process, State of Louisiana</i></p>
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Thayer is a Field Operations Supervisor with considerable experience in field surveying services, including ALTA/as-built surveying, construction layout, boundary, topographic, cross-sections, GPS use, and numerous other surveying types.</p> <p>Peter C Bertucci Elementary School (Ames Farms/Lower Estelle Plantation), Jefferson Parish, LA. BFM provided topographic and boundary surveying services for lots H-322-D and H-322-E, Sec. 7 & 10, T13S-R23E (Southeastern District of Louisiana). (JPPSS Proj 2009-09B) (\$27,386 (fee); 2011)</p> <p>New Facility (15 Acres), Jefferson Parish, LA. BFM performed boundary surveying services for a new facility on a 15-acre site for the Jefferson Parish Department of Capital Projects. (Lot 31, Barabay Estates) (\$22,970 (fee); 2016)</p> <p>Clancy-Maggiore Elementary School for the Arts, Kenner, Jefferson Parish, LA. BFM provided boundary surveying services for the project, which focused on improvements to the site. Later updates included a Form Board Certificate (FBC). (JPPSS Proj #2015-75) (\$19,940 (fee); 2017)</p> <p>Lincoln Elementary School, Marrero, Jefferson Parish Public Schools, Jefferson Parish, LA. BFM provided topographic surveying services for a project at Lincoln Elementary School, located at 1429 Ames Boulevard in Marrero. Survey was requested by John O'Connor of Hewitt-Washington & Associates. (\$18,160 (fee); 2009)</p>

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

John Philip Thayer (continued)

Site Specific Topographic Surveys for Multiple School Locations, Jefferson Parish, LA. Site-specific topographic surveys for projects located at multiple Jefferson Parish Schools, including Airline Park Academy for Advanced Studies, Bonnabel High School, Alfred Magnet Academy High School, Boudreaux, Geraldine Elementary, Bridgedale Elementary, Livaudais Middle School, Matas, Rudolph Elementary, McDonogh No.26 Elementary, Solis, Paul J. Elementary, Thomas West Jefferson, West Jefferson High, and Woodland West Elementary. (\$47,461 (fee); 2020)

Kate Middleton School - 3D Scanning Services (Building Interior), Gretna, Jefferson Parish, LA. BFM's surveying services included a 3D scanning survey of the building interior. (\$15,500 (fee); 2017)

Parish School Board Facilities Building Complex, Gretna, Jefferson Parish, LA. BFM provided boundary and topographic surveying services for the Facilities Building Complex at 4600 River Road. (\$15,238 (fee); 2009)

The New Liberty - Gretna No. 2 Academy, Jefferson Parish, LA. BFM provided resubdivision and topographic surveying services for the project. (\$15,148 (fee); 2009)

West Jefferson Medical Center (WJMC) Emergency Generators, Jefferson Parish, LA. BFM provided boundary and topographic surveying in accordance with the sketch provided by the client. Sketch included finished floor of all structures at each entrance, 100 ft. cross sections, all basic utilities, trees, etc. (\$14,900 (fee); 2013)

Woods Elementary School, Kenner, Jefferson Parish, LA. BFM provided topographic and boundary surveying services for the project. (\$14,870 (fee); 2016)

West Bank Regional Library, Harvey, Jefferson Parish, LA. BFM provided boundary and topographic surveying for the project. (\$13,433 (fee); 2017)


Fulton Street Pump Station, Jefferson Parish, LA. BFM provided complete boundary and topographic surveying services for the project. (\$11,890 (fee); 2017)

Woodmere Community Center – Parcel K, Woodmere Subdivision Section 1, Jefferson Parish, LA. BFM provided boundary & topographic surveying services for this project. (\$11,032 (fee); 2011)

Memorial Baptist Church and School, Jefferson Parish, LA. BFM provided surveying services for the project, which included boundary survey, location of improvements (including parking areas), and staking of property corners every 100 ft. (\$10,200 (fee); 2017)

Lasalle Rest Room Building, Jefferson Parish, LA. BFM prepared a boundary survey (with topographic services) for the project, elements of which included TBM (Temporary Benchmarks), location of visible/ below ground surface (BGS) utilities, research of record drawings, pipe location & determination of sizes/types, trees and other natural elements, etc. BFM further provided a construction benchmark (CBM) and all drawings (AutoCAD) as outlined. Later services included location of sewer manholes and lift station. (\$9,420 (fee); 2017)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
<p>Gary J. Lambert, Jr., LSI Project Manager/Drafting Supervisor</p>
Project Assignment:
<p>Project Manager/Drafting Supervisor</p>
Name of Firm with which associated:
 <p>BFM CORPORATION, LLC Professional Land & Hydrographic Surveying</p>
Years experience with this Firm:
<p>3 years (joined BFM in 2018); 3 years total</p>
Education: Degree(s)/Year/Specialization:
<p>B.S., 2018, Geomatics, Nicholls State University B.S., 2014, Construction Management, Louisiana State University</p>
Active registration: Year first registered/discipline:
<p>2019, Survey Intern, Louisiana, LSI.0000694</p>
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Lambert provides Project Management and Drafting Oversight for the firm. He has also provided Survey Crew Chief Services since joining BFM and offers a well-rounded experience overview for any project. Mr. Lambert has completed Basic OSHA Training and holds license with the Gulf Coast Safety Council (08SSV, ID429523).</p> <p>Site Specific Topographic Surveys for Multiple School Locations, Jefferson Parish, LA. Site-specific topographic surveys for projects located at multiple Jefferson Parish Schools, including Airline Park Academy for Advanced Studies, Bonabel High School, Alfred Magnet Academy High School, Boudreaux, Geraldine Elementary, Bridgedale Elementary, Livaudais Middle School, Matas, Rudolph Elementary, McDonogh No.26 Elementary, Solis, Paul J. Elementary, Thomas West Jefferson, West Jefferson High, and Woodland West Elementary. (\$47,461 (fee); 2020)</p> <p>Lafreniere Food Pavilion, Lafreniere Park, Metairie, Jefferson Parish, LA. BFM prepared a site-specific topographic survey for the project site. (\$9,050 (fee); 2020)</p> <p>Rudolph Matas Elementary School HVAC Renovation Project, Metairie, Jefferson Parish, LA. BFM executed a site-specific topographic survey for the project, located at 1201 Elise Avenue in Metairie. (\$9,290 (fee); 2020)</p>

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

Gary J. Lambert, Jr., LSI (continued)

Hospital Expansion Project, Chalmette, St. Bernard Parish, LA. BFM provided surveying services for the project, located at 8000 West Judge Perez Drive in Chalmette. The scope included a topographic and utility survey, four temporary benchmarks, and location of improvements, utilities & trees. BFM further established finished floor elevations, and took spot elevations at 25 ft intervals. (\$35,280 (fee); 2020)

Academy of Sacred Heart School, New Orleans, LA. BFM provided surveying services to provide a FEMA Elevation Certificate for an addition to an existing building (Lobby Building, facing General Pershing Street) at the school site, located at 4301 St. Charles Avenue in New Orleans (6th District). (\$400 (fee); 2020)

Memorial Baptist Church and School, Jefferson Parish, LA. BFM provided surveying services for the project, which included boundary survey, location of improvements (including parking areas), and staking of property corners every 100 feet. BFM also executed a Survey Update with Builder's Package for the site at a later date. (\$15,200 (fee); 2020)

New Orleans Police Department 4th District Station, New Orleans, LA. BFM provided updates for a previous surveying project, locating and marking corners on lots A & B (Square 22, Tunisburg Subdivision, 5th District) at 3320 Wall Boulevard in New Orleans. BFM further verified existing improvements, located utilities, and provided spot elevations at 50 feet. (\$6,934 (fee); 2020)


Abney Elementary School, St. Tammany Parish School Board, LA. BFM provided surveying services for project work at the Abney Elementary School, located at 829 Kostmayer Avenue, in Slidell, LA for the St. Tammany Parish School Board. The scope of services included preparation of a boundary and topographic survey for additions to the school site. Additional project work involved the preparation of three pre-construction FEMA Certificates at the school site. (St. Tammany Parish School Board Project No. 1905\$14,360 (fee); 2020)

Kenner Council on Aging Building (641 Compromise Street), Kenner, LA. BFM's scope of services involved topographic & boundary surveying (with improvements); this included a portion of the building interior, a TBM (Temporary Benchmark), a CBM (Construction Benchmark), and Finished Floor Elevations at the entry point to building. Spot elevations were taken at 25 ft. intervals at the main entrance. (\$4,710 (fee); 2019)

FBI Building ALTA Survey Update, New Orleans, LA. BFM executed surveying services to update the ALTA information as requested. (\$9,930 (fee); 2019)

Sugarmill Apartments Builder's Package, Kenner, LA. BFM executed a complete Builder's Package Survey for the project site, located at Sugarmill Apartments (Municipal #4520, Williams Boulevard) in Kenner. Scope included establishing a Construction Benchmark near the site, providing a layout of building envelope for site clearing (or fill), setting layout pile locations (approx. 332 total piles), and the layout of building corners. (\$6,990 (fee); 2020)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
<p>Christopher Lemley Quality Control Supervisor/Survey Crew Chief</p>
Project Assignment:
Quality Control Supervisor
Name of Firm with which associated:
 <p>BFM CORPORATION, LLC Professional Land & Hydrographic Surveying</p>
Years experience with this Firm:
7 years (joined BFM in 2014); 15 years total (2006)
Education: Degree(s)/Year/Specialization:
<i>High School Diploma</i>
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Lemley services a BFM's Quality Control Supervisor, overseeing all work and activity by the firm's personnel to be sure all is kept up to our exacting standards. His surveying experience includes over 8 years as a Survey Crew Chief. His survey software experience includes projects involving Trimble, Topcon, Leica, and Hypack, and has maintained and operated GPS, Auto-Level, and Total Station. Notable past project work has included the New Orleans Museum of Art, Jackson Barracks Restoration, US Highway 11, NASA Michoud Cells 3 & 4, the St. Bernard Lot Next Door Program, and multiple Orleans Parish School Recovery projects (including L.B. Landry, George Washington Carver, and Alice M. Harte schools).</p> <p>New Facility (15 Acres), Jefferson Parish, LA. BFM performed boundary surveying services for a new facility on a 15-acre site for the Jefferson Parish Department of Capital Projects. (Lot 31, Barabay Estates) (\$22,970 (fee); 2016)</p> <p>Memorial Baptist Church and School, Jefferson Parish, LA. BFM provided surveying services for the project, which included boundary survey, location of improvements (including parking areas), and staking of property corners every 100 ft. (\$10,200 (fee); 2017)</p> <p>Fire Department Garage/Fire Training Center, Jefferson Parish, LA. BFM provided topographic surveying services for the project, which included the East Street/Bridge City (Fairfield Plantation) FD and the Fire Training Center in Belt Bridge. (\$8,124 (fee); 2016)</p>

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

Christopher Lemley (continued)

Ernest N. Morial Convention Center Neighborhood Site Infrastructure, New Orleans, LA. BFM provided boundary & topographic surveying services for the project site (900 Convention Center Boulevard in New Orleans) for the Convention Center Development District. The project executed was adherent to the client-provided AIA document (dated August 20, 2015). (\$86,720 (fee); 2015)

Kate Middleton School - Construction Benchmark (CBM) Certificates, Gretna, Jefferson Parish, LA. BFM executed surveying services for the project, which provided construction benchmark (CBM) certificates for two modular buildings in the rear of the property for this school site located in Gretna, Louisiana. (2016)

Clancy-Maggiore Elementary School for the Arts, Kenner, Jefferson Parish, LA. BFM provided boundary surveying services for the project, which focused on improvements to the site. Later updates included a Form Board Certificate (FBC). (JPPSS Proj #2015-75) (\$19,940 (fee); 2017)

Bissonet Plaza Elementary School Survey, Metairie, Jefferson Parish, LA. BFM provided boundary and topographic surveying services at the Bissonet Plaza Elementary School on Kawanee Avenue in Metairie. (JPPSS Proj #2016-35) (2016)

East Jefferson High School Courtyard Improvements, Jefferson Parish School Board, Marrero, LA. BFM provided surveying to collect elevations and locate improvements on the interior courtyards of the East Jefferson High School campus in Metairie, Louisiana. Improvements included drainage structures, sewer cleanouts, electrical boxes, etc. utilizing laser scanning (Leica C10 HDS). A plan view showing topographic features (trees, pavement, piping, etc.) and a contour map are part of the final deliverables for the product. (\$4,798 (fee); 2016)

FedEx Shipping Center Land Title Survey, Elmwood, LA. BFM provided surveying services for an ALTA/ACSM Land Title Survey for the FedEx Shipping Center at 6321 Humphreys Street in the Elmwood Financial District. (\$6,797 (fee); 2016)

Joshua Bulter Elementary School, Bridge City, Jefferson Parish, LA. A partial site survey was executed by BFM of Joshua Butler Elementary, located at 300 4th Street in Bridge City. (\$8,180 (fee); 2016)

Harold Keller Elementary School, Metairie, Jefferson Parish, LA. BFM's surveying services included boundary surveying (with improvements) for Harold Keller Elementary, located at 5301 Irving Street in Metairie. (\$7,480 (fee); 2016)

Mid City Apartments Phase II, New Orleans, LA. BFM provided comprehensive surveying services associated with Phase II of the Mid City Apartments project in New Orleans. This phase involved the construction layout survey of the Apartment Building and Parking Garage, which consisted of shooting existing elevations, provision of corners, and staking piles. After project completion, an As-Built Survey was executed for both buildings. (\$54,000 (fee); 2019)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Thomas O. Wright
Survey Crew Chief

Project Assignment:

Survey Crew Chief

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years experience with this Firm:

13 years (joined BFM in 2008); 44 years total (1977)

Education: Degree(s)/Year/Specialization:

High School Diploma

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:


Mr. Wright has over 40 years of experience in surveying services, including a multitude of project types (water, wastewater, stormwater, drainage, roadway, etc.) throughout the region. He has extensive surveying experience throughout the City of New Orleans. He has multiple ATSSA (American Traffic Safety Service Association) certifications (including Traffic Control Technician, Traffic Control Supervisor, and Traffic Flagger), and has completed the Basic OSHA Training Course. He is also TWIC (Transportation Work Identification Card) certified.

Site Specific Topographic Surveys for Multiple School Locations, Jefferson Parish, LA. Site-specific topographic surveys for projects located at multiple Jefferson Parish Schools, including Airline Park Academy for Advanced Studies, Bonabel High School, Alfred Magnet Academy High School, Boudreaux, Geraldine Elementary, Bridgedale Elementary, Livaudais Middle School, Matas, Rudolph Elementary, McDonogh No.26 Elementary, Solis, Paul J. Elementary, Thomas West Jefferson, West Jefferson High, and Woodland West Elementary. (\$47,461 (fee); 2020)


Clancy-Maggiore Elementary School for the Arts, Kenner, Jefferson Parish, LA. BFM provided boundary surveying services for the project, which focused on improvements to the site. Later updates included a Form Board Certificate (FBC). (JPPSS Proj #2015-75) (\$19,940 (fee); 2017)

New Facility (15 Acres), Jefferson Parish, LA. BFM performed boundary surveying services for a new facility on a 15-acre site for the Jefferson Parish Department of Capital Projects. (Lot 31, Barabay Estates) (\$22,970 (fee); 2016)


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:
31 years (joined BFM in 1991); 31 years total (1991)
Education: Degree(s)/Year/Specialization:
<i>High School Diploma</i>
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Barrios' surveying experience includes boundary, hydrographic, and topographic. He has worked on location and performed topographic surveys for a number of large capital projects. Further, Mr. Barrios has been involved on major transmission projects for Entergy and South Central Bell (AT&T). He is American Traffic Safety Service Association certified as a Traffic Flagger, and is Transportation Work Identification Card (TWIC) certified.</p> <p>Kate Middleton School - 3D Scanning Services (Building Interior), Gretna, Jefferson Parish, LA. BFM's surveying services included a 3D scanning survey of the building interior. (\$15,500 (fee); 2017)</p> <p>Parc Des Familles Visitor Center, Jefferson Parish, LA. BFM executed a topographic survey for the project site. (\$16,590 (fee); 2018)</p> <p>Parish School Board Facilities Building Complex, Gretna, Jefferson Parish, LA. BFM provided boundary and topographic surveying services for the Parish School Board Facilities Building Complex at 4600 River Road. (\$15,238 (fee); 2009)</p> <p>West Jefferson Medical Center (WJMC) Emergency Generators, Jefferson Parish, LA. BFM provided boundary and topographic surveying in accordance with the sketch provided by the client. Sketch included finished floor of all structures at each entrance, 100 ft. cross sections, all basic utilities, trees, etc. (\$14,900 (fee); 2013)</p>


TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Jeff Patin Survey Crew Chief
Project Assignment:
Survey Crew Chief
Name of Firm with which associated:
 BFM CORPORATION, LLC Professional Land & Hydrographic Surveying
Years experience with this Firm:
2 years (joined BFM in 2019); 22 years total (1999)
Education: Degree(s)/Year/Specialization:
<i>High School Diploma</i>
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Patin has worked as a Survey Crew Chief and Instrumentman for 20 years for a number of southeastern Louisiana surveying firms on projects throughout the region. His work history includes supervision of field crew personnel, operation of various survey equipment (Topcon GPT, Leica GPS, Total Station, etc.), calculations, information collection, and any & all work required to execute the survey and obtain the information needed. Mr. Patin has worked on projects for various public & private clients, and has performed field work under the direction of the Corps of Engineers.</p> <p>Rudolph Matas Elementary School HVAC Renovation Project, Metairie, Jefferson Parish, LA. BFM executed a site-specific topographic survey for the project, located at 1201 Elise Avenue in Metairie. (\$9,290 (fee); 2020)</p> <p>Site Specific Topographic Surveys for Multiple School Locations, Jefferson Parish, LA. Site-specific topographic surveys for projects located at multiple Jefferson Parish Schools, including Airline Park Academy for Advanced Studies, Bonnabel High School, Alfred Magnet Academy High School, Boudreaux, Geraldine Elementary, Bridgedale Elementary, Livaudais Middle School, Matas, Rudolph Elementary, McDonogh No.26 Elementary, Solis, Paul J. Elementary, Thomas West Jefferson, West Jefferson High, and Woodland West Elementary. (\$47,461 (fee); 2020)</p> <p>Lafreniere Food Pavilion, Lafreniere Park, Metairie, Jefferson Parish, LA. BFM prepared a site-specific topographic survey for the project site. (\$9,050 (fee); 2020)</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Anthony Watson CADD Technician
Project Assignment:
CADD Technician
Name of Firm with which associated:
 BFM CORPORATION, LLC Professional Land & Hydrographic Surveying
Years experience with this Firm:
10 years (joined BFM in 2011); 30 years total (1992)
Education: Degree(s)/Year/Specialization:
<i>Coursework - CAD, Avatech Solutions, Los Colinas, TX</i>
Active registration: Year first registered/discipline:
NA
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Watson has experience as a draftsman/survey technician, having started his career as an intern with the Surveying Department of the City of Plano, Texas. His experience through the years includes manual and computer-aided drafting for a wide range of projects, ranging from small lot surveys to subdivisions to municipal treatment and private industrial plants. He has experience in all facets of surveying (boundary, topographic, ALTA/ACSM, plan & profile, etc.) in both drafting and field environments.</p> <p>East Bank Bus Stop Improvements - Additional Sites, Jefferson Parish, LA. BFM's surveying services involved topographic surveying (25 ft grid) for multiple bus stop locations. (\$8,228 (fee); 2019)</p> <p>Jefferson Parish Recreation Department Office, Metairie, Jefferson Parish, LA. BFM's scope involved a multiple-site topographic survey, including a temporary benchmark & construction benchmark; location of improvements, visible utilities & nearest fire hydrant; FF elevations at entrance of buildings, and; cross sections (25 ft grid). (\$3,345 (fee); 2018)</p> <p>East Jefferson General Hospital, Metairie, Jefferson Parish, LA. BFM's scope of services for the project involved a boundary survey with sidewalk location, covering the area along the northerly side of Ithaca at the westernmost driveway-accessing parking lot. Spot elevations were taken at 5 ft. intervals. Property corners were also located in the survey. (\$2,275 (fee); 2019)</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Shaun Clements CADD Technician
Project Assignment:
CADD Technician
Name of Firm with which associated:
 Professional Land & Hydrographic Surveying
Years experience with this Firm:
3 years (joined BFM in 2018); 6 years total (2015)
Education: Degree(s)/Year/Specialization:
Associates of Applied Sciences, 2015, Computer Drafting and Design (ITT)
Active registration: Year first registered/discipline:
NA
Other experience and qualifications relevant to the proposed Project:
<p>Ms. Clements college work resulted in a GPA of 4.0, earning her Valedictorian status. She also was the recipient of the Highest Honors and Perfect Attendance Awards.</p> <p>DPW Maintenance Building, Jefferson Parish, LA. BFM provided stake-out services (four corners) for the DPW Maintenance Building Site (755 S. Jefferson Davis Parkway). Additional project work included preparation of an As-Built Survey of the project site.(\$4,450 (fee); 2020)</p> <p>Lafreniere Food Pavilion, Lafreniere Park, Metairie, Jefferson Parish, LA. BFM prepared a site-specific topographic survey for the project site. (\$9,050 (fee); 2020)</p> <p>Memorial Baptist Church and School, Jefferson Parish, LA. BFM provided surveying services for the project, which included boundary survey, location of improvements (including parking areas), and staking of property corners every 100 feet. BFM also executed a Survey Update with Builder's Package for the site at a later date. (\$15,200 (fee); 2020)</p> <p>New County Justice Facility, Hancock County, MS. BFM provided topographic and boundary surveying services for a proposed 40-acre Justice Facility site. (\$30,000 (fee); 2009)</p> <p>West Bank Bus Stop Improvements, Jefferson Parish, LA. BFM's surveying services involved topographic surveying (25 ft grid) for multiple bus stop locations (AV26, AV27, AV3 (6 sites), AV40, AV42, AV43, AV44, AV45, AV47, AV65, AV74, AV76, HL67, MR44, MR52). (\$26,622 (fee); 2019)</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Kevin A. Roberts

CADD Technician

Project Assignment:

CADD Technician

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years experience with this Firm:

3 years (joined BFM in 2018); 36 years total (1985)

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:

NA

Other experience and qualifications relevant to the proposed Project:

Mr. Roberts has experience with civil engineering, offshore engineering, water purification systems, and general architectural and construction design & terminology. He obtained his A.D. in Drafting in 1999, and has taken additional coursework throughout his career.

Site Specific Topographic Surveys for Multiple School Locations, Jefferson Parish, LA. Site-specific topographic surveys for projects located at multiple Jefferson Parish Schools, including Airline Park Academy for Advanced Studies, Bonnabel High School, Alfred Magnet Academy High School, Boudreaux, Geraldine Elementary, Bridgedale Elementary, Livaudais Middle School, Matas, Rudolph Elementary, McDonogh No.26 Elementary, Solis, Paul J. Elementary, Thomas West Jefferson, West Jefferson High, and Woodland West Elementary. (\$47,461 (fee); 2020)

Mid City Apartments Phase II, New Orleans, LA. BFM provided comprehensive surveying services associated with Phase II of the Mid City Apartments project in New Orleans. This phase involved the construction layout survey of the Apartment Building and Parking Garage, which consisted of shooting existing elevations, provision of corners, and staking piles. After project completion, an As-Built Survey was executed for both buildings. (\$54,000 (fee); 2019)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Dawn Hoffman Researcher/Archivist
Project Assignment:
Researcher/Archivist
Name of Firm with which associated:
 Professional Land & Hydrographic Surveying
Years experience with this Firm:
12 years (joined BFM in 2009); 24 years total (1997)
Education: Degree(s)/Year/Specialization:
A.D., 1999, Computer-Aided Drafting, Southeast College of Technology Certificate, 2003, Introduction to ArcGIS, Louisiana State University
Active registration: Year first registered/discipline:
NA
Other experience and qualifications relevant to the proposed Project:
<p>Rivarde Maintenance Facility, Jefferson Parish, LA. BFM provided boundary and topographic surveying services for the Rivard Maintenance Facility project, located at 1651 Manhattan Boulevard in Harvey. Scope included establishing a baseline parallel to Manhattan Boulevard; setting TBM & CBM on or near the site; establishing cross sections on a 25 ft grid; FF elevations of all buildings. Product to be drawn so that a single ROW (right-of-way) is parallel to at least 1 edge of the sheet. (\$6,890 (fee); 2018)</p> <p>Little Farms Gymnasium, Jefferson Parish, LA. BFM's scope involved a multiple-site topographic survey at the project site (10301 S. Park Street, River Ridge), including a temporary benchmark & construction benchmark; location of improvements, visible utilities & nearest fire hydrant; FF elevations at entrance of buildings, and; cross sections (25 ft grid). (\$6,055 (fee); 2018)</p> <p>Site Specific Topographic Surveys for Multiple School Locations, Jefferson Parish, LA. Site-specific topographic surveys for projects located at multiple Jefferson Parish Schools, including Airline Park Academy for Advanced Studies, Bonabel High School, Alfred Magnet Academy High School, Boudreaux, Geraldine Elementary, Bridgedale Elementary, Livaudais Middle School, Matas, Rudolph Elementary, McDonogh No.26 Elementary, Solis, Paul J. Elementary, Thomas West Jefferson, West Jefferson High, and Woodland West Elementary. (\$47,461 (fee); 2020)</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>Site Specific Topographic Surveys for Multiple School Locations, Jefferson Parish, Louisiana</p> <p>Jefferson Parish Public Schools Facilities Department 4600 River Road Marrero LA 70072</p> <p>Steve Faust; 504-349-8595 steve.faust@jppss.k12.la.us</p>	Site-specific topographic surveys for projects located at multiple Jefferson Parish Schools, including Airline Park Academy for Advanced Studies, Bonnabel High School, Alfred Magnet Academy High School, Boudreaux, Geraldine Elementary, Bridgedale Elementary, Livaudais Middle School, Matas, Rudolph Elementary, McDonogh No.26 Elementary, Solis, Paul J. Elementary, Thomas West Jefferson, West Jefferson High, and Woodland West Elementary.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020 06 (JUN)	N/A	\$47,461 (fee)

PROJECT NO. 2

Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Fire Station No. 12, Jefferson Parish, Louisiana</p> <p>All South Consulting Engineers, LLC 652 Papworth Avenue Metairie LA 70005</p> <p>Stephen C. Bourg, 504- 466-6367</p>	<p>BFM executed a boundary & topographic survey for the project; this involved a survey with improvements, benchmarks, elevations (25 ft intervals across the site & at all breaks in grade), and cross sections extending to the opposite edge of Brooklyn Street and Jefferson Highway. These were further carried 25 ft beyond the side property lines.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018 11 (NOV)	N/A	\$7,411 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Rivarde Maintenance Facility, Jefferson Parish, Louisiana</p> <p>Burgdahl & Graves Architects 2550 Belle Chasse Hwy, Suite 130 Gretna LA 70053</p> <p>Russell I. Burgdahl, 504-366-4433 rburgdahl@burgdahlgraves.com</p>	<p>BFM provided boundary and topographic surveying services for the Rivard Maintenance Facility project, located at 1651 Manhattan Boulevard in Harvey. Scope included establishing a baseline parallel to Manhattan Boulevard; setting temporary benchmarks (TBMs) & construction benchmarks (CBMs) on or near the site; establishing cross sections on a 25 ft grid; FF elevations of all buildings. Product to be drawn so that a single ROW (right-of-way) is parallel to at least 1 edge of the sheet.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018 11 (NOV)	N/A	\$6,890 (fee)

PROJECT NO. 4		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Lasalle Rest Room Building, Jefferson Parish, Louisiana</p> <p>Meyer Engineers, Ltd. 4937 Hearst Street, Suite 1B Metairie LA 70001</p> <p>Kenneth Belou, P.E., 504-885-9892 kbelou@meyer-e-l.com</p>	<p>BFM prepared a boundary survey (with topographic services) for the project, elements of which included TBM (Temporary Benchmarks), location of visible/below ground surface (BGS) utilities, research of record drawings, pipe location & determination of sizes/types, trees and other natural elements, etc. BFM further provided a construction benchmark (CBM) and all drawings (AutoCAD) as outlined. Later services included location of sewer manholes and lift station.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2017 08 (AUG)	N/A	\$9,420 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>New Storage Building Construction Surveying, Adams Junior High School, Jefferson Parish, Louisiana</p> <p>Jefferson Parish School Board Facilities Department 4600 River Road Marrero LA 70072</p> <p>David Taylor, 504-349-8595 david.taylor@jppss.k12.la.us</p>	<p>BFM's initial surveying services (2017) for the project included a partial boundary survey, top of form, and setting of the construction benchmark (CBM). A FEMA elevation certificate was also provided. Additional surveying services (2018) expanded on the initial scope and updated information as pertinent to the construction of the building.</p> <p><i>BFM provided similar services for multiple schools throughout the Parish, with a total fee value of approximately \$26,000.</i></p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018 04 (APR)	N/A	\$3,316 (fee)

PROJECT NO. 6		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Little Farms Gymnasium, Jefferson Parish, Louisiana</p> <p>Meyer Engineers Ltd. 4937 Hearst Avenue, Suite B Metairie LA 70001</p> <p>Don Murras, 504-885-9892</p>	<p>BFM's scope involved a multiple-site topographic survey at the project site (10301 S. Park Street, River Ridge), including a temporary benchmark & construction benchmark; location of improvements, visible utilities & nearest fire hydrant; FF elevations at entrance of buildings, and; cross sections (25 ft grid).</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018 11 (NOV)	N/A	\$6,055 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Clancy-Maggiore Elementary School for the Arts Survey, Kenner, Jefferson Parish, Louisiana</p> <p>Jefferson Parish School Board Facilities Department 4600 River Road Marrero LA 70072</p> <p>David Taylor, 504-349-8595 david.taylor@jppss.k12.la.us</p>	<p>BFM provided boundary surveying services for the project, which focused on improvements to the site. Later updates included a Form Board Certificate (FBC). (JPPSS Proj #2015-75)</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2017 09 (SEP)	N/A	\$19,940 (fee)

PROJECT NO. 8		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>West Jefferson Medical Center (WJMC) Emergency Generators, Jefferson Parish, Louisiana</p> <p>Meyer Engineers Ltd. 4937 Hearst Avenue, Suite B Metairie LA 70001</p> <p>June Tran, AIA, 504-885-9892</p>	<p>BFM provided boundary and topographic surveying in accordance with the sketch provided by the client. Sketch included finished floor of all structures at each entrance, 100 ft. cross sections, all basic utilities, trees, etc.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2013 03 (MAR)	N/A	\$14,900 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
Department of Public Works Maintenance Building, Jefferson Parish, Louisiana CDW Services, LLC 721 Papworth Ave Ste 101 Metairie LA 70005 Tasha Duffourc, 504-828-2061	BFM provided stake-out services (four corners) for the DPW Maintenance Building Site (755 S. Jefferson Davis Parkway). Additional project work included preparation of an As-Built Survey of the project site.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020 01 (JAN)	N/A	\$4,450 (fee)

PROJECT NO. 10		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
Lafreniere Park Food Pavilion, Jefferson Parish, Louisiana Meyer Engineers Ltd. 4937 Hearst Avenue, Suite B Metairie LA 70001 Jennifer Wickham, 504-885-9892	BFM prepared a site-specific topographic survey for the project site.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020 09 (SEP)	N/A	\$9,050 (fee)

TEC Professional Services Questionnaire

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

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

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

BFM CORPORATION, LLC

Professional Land & Hydrographic Surveying

PROFESSIONAL TRAINING AND EXPERIENCE

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

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

Our capabilities include the following and more:

- **Topographic Surveys** (*determine relative positions & elevations of natural & man-made features*)
- **Drone Surveying** (*detailed multi-acre data-capturing surveying*)
- **Bathymetric / Hydrographic Surveys** (*determine shoreline and depths of bodies of water*)
- **Property, Boundary, and Right-of-Way Surveys** (*preparation of Legal Descriptions, property, and ROW maps to define project boundaries and for acquisition of property*)

TEC Professional Services Questionnaire

N. continued.

- **Maps, Cross-Sections, and Data Sets** (*plan drawings, maps, diagrams, and data sets*)
- **3D Laser Scanning** (*unify raw data & model*)
- **Benchmarks** (*establishment of permanent, temporary, and construction benchmarks*)
- **Construction-Related Surveying** (*all types*)
- **Builder's Package** (*Boundary Survey & Construction Benchmark, Certificates including Form Board, Top of Slab, & Final FEMA Elevation*)
- **ALTA Surveys** (*American Land Title Association-compliant surveys*)

Project work (property, utilities, rights-of-way, etc.) routinely involves **extensive records & related research** as an element of successful completion, as well as coordination with the client, agency or department. BFM has personnel in place to make sure this is done correctly and expeditiously.

Our **Survey Field Crews** are equipped with Leica Viva & 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'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 fly with payload for 20 minutes and can capture 50 acres of land in that time (with a flight ceiling of 165 feet, pixel quality is 0.71 CM). This allows BFM to quickly & accurately capture data and facilitates quicker field work to produce highly accurate and precise surveying information. Deliverables feature Clean Point Cloud, 3D Mesh, Orthomosaic, and AutoCAD DWG Topographic.

BFM's **3D modeling capabilities** provide the ability to process and model for any design purpose. High definition scanner data is processed using software from Leica and Autodesk. Furthermore, 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.

Further, BFM has the ability to perform **automated bathymetry** to handle any **hydrographic surveying** task. For large rivers and bodies of water, BFM is equipped with Teledyne Odom Hydro Solutions' Hydro Trac Single Beam Echo Sounder. For smaller bodies of water, BFM uses SL20 Remote Controlled Boat equipped with CEE Scope Dual Channel Echo Sounder. The firm uses Hypack Software to process collected data. Further, BFM has the ability to execute multi-beam scans, side scans and magnetometer upon request.

PERSONNEL

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

TEC Professional Services Questionnaire

N. continued.

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

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

SIZE OF FIRM & ABILITY TO MEET PROJECT DEADLINES

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.

EXPERIENCE WITH JEFFERSON PARISH

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

As noted, Mr. Fontcuberta has **over half a century of professional land surveying experience**, including nearly 40 years with BFM. He has provided professional surveying services for **thousands of projects for and throughout Jefferson Parish**. Additional information beyond the scope of this RFQ response is available upon request.

An overview of our project work would include, but certainly not be limited to, the following:

- *Administrative and General Government Building Projects throughout Jefferson Parish*
- *Library Buildings throughout Jefferson Parish*
- *Medical Building Sites throughout Jefferson Parish*
- *Multiple Gymnasium, Playground, and Related Sites for the Jefferson Parish Recreation Dept.*
- *FEMA Elevation Certifications for Multiple Parish Building Sites throughout Jefferson Parish*
- *Various Sheriff's Office and Detention Facility Project Sites throughout Jefferson Parish*
- *Numerous Community Center & Multipurpose Buildings throughout Jefferson Parish*
- *Multiple Fire Station Sites throughout Jefferson Parish*
- *Numerous School Site Surveys for the Jefferson Parish School Board throughout the Parish*
- *New Storage Building Construction Surveying, Multiple School Sites throughout Jefferson Parish*
- *Multiple Pump Station & Lift Station Sites throughout Jefferson Parish*
- *West Bank & East Bank Bus Stop Improvements*

TEC Professional Services Questionnaire

N. continued.

Representative projects would include but also not be limited to the following:

- *Site Specific Topographic Surveys for Multiple School Locations, Jefferson Parish, LA*
- *Marerro 911 Building, Jefferson Parish, LA*
- *Rivarde Maintenance Facility, Jefferson Parish, LA*
- *Lasalle Rest Room Building, Jefferson Parish, LA*
- *Clancy- Maggiore Elementary School for the Arts Survey, Kenner, Jefferson Parish, LA*
- *Rudolph Matas Elementary School HVAC Renovation Project, Jefferson Parish, LA*
- *Jefferson Parish Recreation Department Office, Jefferson Parish, LA*
- *Bridge City Fire Training Facility - FEMA & Slab Certificates, Bridge City, Jefferson Parish, LA*
- *Kate Middleton School - 3D Scanning Services (Interior/Exterior), Jefferson Parish, LA*
- *Jefferson Parish History Museum, Jefferson Parish, LA*
- *Lafitte Arts Center, Jefferson Parish, LA*
- *Parish- Wide Safe House Program (post-Katrina), Jefferson Parish*

LOCATION OF PRINCIPAL OFFICE

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

PAST PERFORMANCE ON PUBLIC CONTRACTS / REFERENCES

Since 1982, BFM has worked with virtually every municipality in the region. We enjoy a high repeat-business rate with all our municipal & private clients. Further, we offer the following specific references for contact:

Mark R. Drewes, P.E., Director, Jefferson Parish Department of Public Works
504-736-6783; mdrewes@jeffparish.net

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

David Taylor, Jefferson Parish School Board Facilities Department
504-349-8595; david.taylor@jppss.k12.la.us

Keith J. LaGrange, Director, City of New Orleans Department of Public Works
504-658-8000; Keith.Lagrange@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 12, 2021