



STATEMENT OF QUALIFICATIONS

Routine Engineering Services for **Drainage Projects**

Jefferson Parish, Louisiana

Resolution No. 144202 | SOQ 24-015



Submitted To:
Jefferson Parish Council
Attn: Shanna Folse
General Government Building
200 Derbigny Street, Suite 6700
Gretna, LA 70053

Submitted By:
ECM Consultants, Inc.
1301 Clearview Parkway, Suite 200, Metairie, Louisiana 70001
Telephone: 504-885-4080 • Fax: 504-885-1439
kazem@ecmconsultants.com

In Association with:
BFM Corporation, LLC
Gulf South Engineering & Testing, Inc.
IMC Consulting Engineers, Inc.

June 21, 2024

ECM Consultants, Inc.

Engineers • Architects • Construction Managers

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June 20, 2024

Jefferson Parish Council
General Government Building
200 Derbigny Street, Suite 6700
Gretna, LA 70053

Re: **Routine Engineering Services for Drainage Projects in Jefferson Parish**
Resolution No. 144202 | SOQ 24-015

Jefferson Parish Council:

ECM Consultants, Inc. is a licensed engineering, architectural and construction management firm headquartered in Metairie, LA, offering experience and qualifications relevant to this RFQ. We are pleased to submit one (1) electronic copy, via www.centraauctionhouse.com, of our Statement of Qualifications (TEC Questionnaire) for the above referenced project.

ECM has extensive expertise providing professional services for drainage projects to various clients such as: Jefferson Parish Dept. of Public Works, City of New Orleans Dept. of Public Works, LADOTD, City of Baton Rouge Dept. of Public Works, NOAB, and other agencies. ECM has provided professional services for engineering design and preparation of plans, specifications and estimates; construction administration; and resident inspection for numerous drainage projects.

Our TEC questionnaire will demonstrate our specialized experience in design and construction of drainage systems including subsurface drainage, major box culverts, drainage pumping stations, and drainage canals.

Our team includes BFM Corporation, LLC for surveying services, Gulf South Engineering and Testing for geotechnical services and IMC Consulting Engineers, Inc. for mechanical/electrical engineering. Upon review of our qualification package, we hope our team will receive favorable consideration.

We look forward to continuing our excellent working relationship with Jefferson Parish. Should you have any questions or require any additional information, please contact us.

Sincerely,



Kazem Alikhani, P.E.
Chief Executive Officer

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Section 1

ECM Consultants, Inc.

TEC Professional Services Questionnaire

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Routine Engineering Services for **Drainage Projects** in Jefferson Parish
Resolution No. 144202 | SOQ 24-015

B. Firm Name & Address:

 **ECM Consultants, Inc.**
1301 Clearview Parkway, Suite 200
Metairie, LA 70001

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

Principal:

Ujjal DasGupta, P.E., President
Louisiana Licensed Professional Engineer
P.E. License No. 19849
Tel: (504) 885-4080 Fax: (504) 885-1439
Email: ujjal@ecmconsultants.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.

Professional in Charge of Project:

Sunina Shrestha, P.E., Engineering Manager
Louisiana Licensed Professional Engineer
P.E. License No. 37901
Tel: (504) 885-4080 Fax: (504) 885-1439
Email: sshrestha@ecmconsultants.com

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

<u>8</u> Administrative	<u>0</u> Estimators	<u>0</u> Specification Writers
<u>1</u> Architects (Licensed)	<u>0</u> Geologists	<u>2</u> Structural Engineers
<u>0</u> Chemical Engineers	<u>0</u> Geotechnical Engineers	<u> </u> Graduate Engineers
<u>16</u> Civil Engineers	<u>0</u> Interior Designers	<u>4</u> Project Managers
<u>32</u> Construction Inspectors	<u>0</u> Landscape Architects	<u>0</u> Clerical
<u>0</u> Ecologists	<u>0</u> Land Surveyor	<u>1</u> Grant/Funding Specialist
<u>1</u> Electrical Engineers	<u>2</u> Mechanical Engineers	<u>0</u> Sanitary Engineers
<u>2</u> Engineer Intern	<u>0</u> Environmental Engineers	
<u>0</u> Professional Land Surveyors	<u>3</u> CAD Technicians	<u>72</u> TOTAL

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

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

TEC Professional Services Questionnaire

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



1. N/A

2. N/A

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

YES _____ NO _____ N/A

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

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. BFM Corporation 15 Veterans Memorial Boulevard Kenner LA 70062	Surveying Services	Yes
2.  GULF SOUTH ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants 2201 Aberdeen Street Kenner, LA 70062	Geotechnical Engineering	Yes
3.  IMC CONSULTING ENGINEERS INC. 2714 Independence Street Metairie, LA 70006	Mechanical & Electrical Engineering	Yes

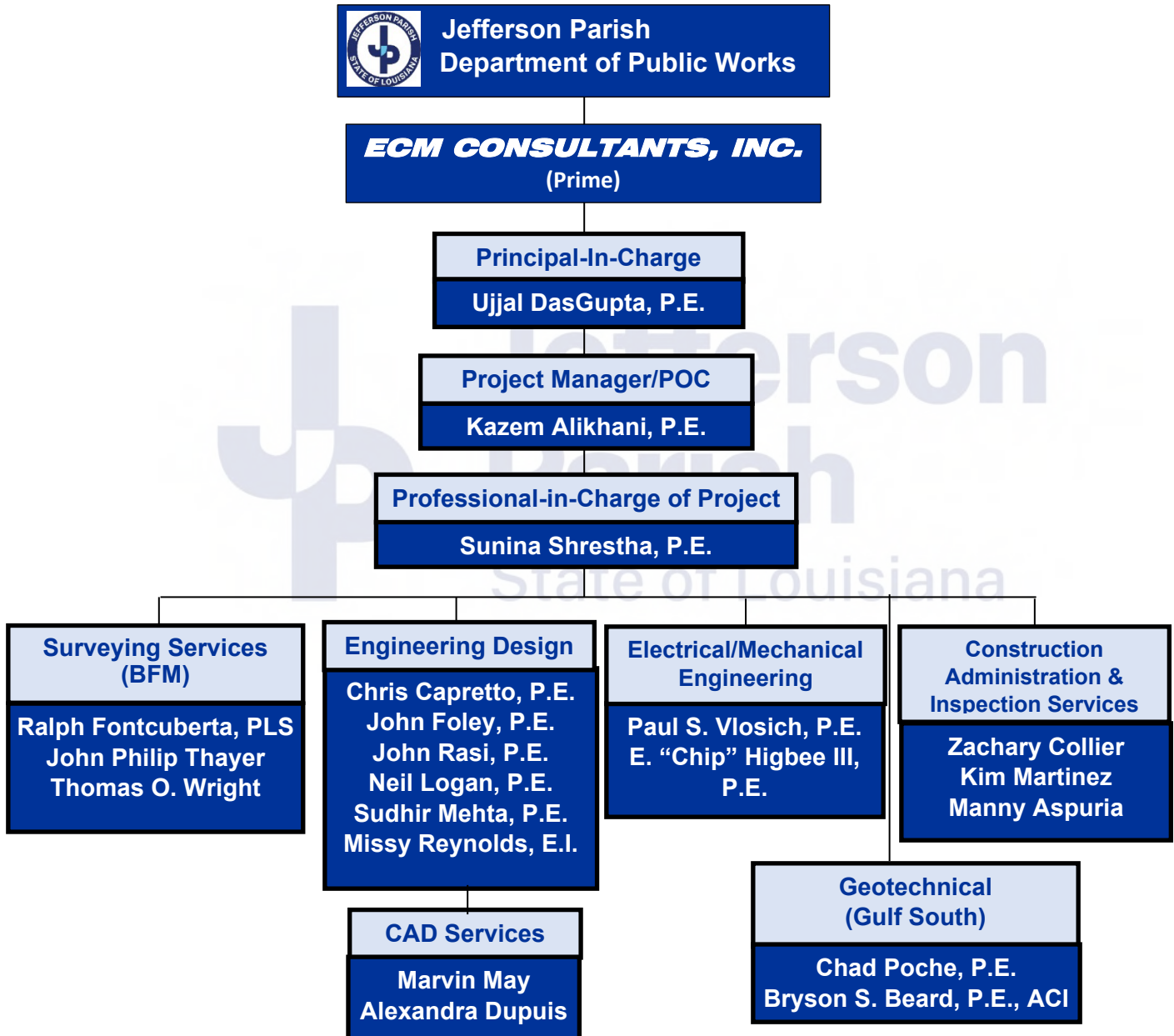
J. Please specify the total number of support personnel that may assist in the completion of this Project:

16

TEC Professional Services Questionnaire

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

ORGANIZATIONAL CHART



PROFESSIONAL IN CHARGE OF PROJECT::**Name & Title:**

Sunina Shrestha, P.E., Engineering Manager

Project Assignment:

Project Manager; Hydrology/Drainage Design

Name of Firm with which Associated:

ECM Consultants, Inc.

Years' experience with this Firm:

16

Education: Degree(s)/Year/Specialization:

M.S./2008/Civil Engineering

Active registration: Year first registered/discipline:

2013/Civil Engineering/LA License No. 37901

Other experience and qualifications relevant to the proposed Project:

Ms. Shrestha has **16 years of experience** in engineering design and analysis for roadways, drainage, utilities, bridges, and water resources projects. Her experience includes preparation of Right-of-Way Maps using GIS, sewer system design using GIS, hydrologic and hydraulic analysis for canals and culverts, and site development. Ms. Shrestha is trained and experienced in the use of GIS (ArcView 9), HEC- RAS, HEC-HMS, SWAT, AutoCAD, AutoCAD Land Development, Civil 3D, SAP 2000, and WINSLAMM.

Employment History:

- ECM Consultants Inc., LA, *Civil Engineer (2009-to date)*
- UAH, *Graduate Research Assistant in Civil Engineering (2007)*
- RITI Consultancy Pvt. Ltd., Nepal, *Field Engineer (2005)*

The following are examples of her relevant experience:

Veterans Boulevard Pump Stations (North & South), Jefferson Parish, Metairie, LA: Ms. Shrestha provided engineering design services for this new drainage pump station. The project included installation of two concrete wet well structures with pumps, force main systems with structural flood wall crossings, control systems, backup generators and drainage improvements installed above the 100-year Base Flood Elevation (BFE) and SCADA system. The maximum pumping capacity for these pump stations are 60 CFS and 85 CFS. As a part of the permit for USACE, ECM conducted a full hydrologic evaluation of the canal system under various scenarios to study the impact of the two pump stations and one other on the canal maximum operating water level (MOWL). The evaluation included developing synthetic hydrographs for each pump station and routing them through the canal using a HEC-RAS model.

Coventry Court Drainage Pump Station, Jefferson Parish, LA: Ms. Shrestha is preparing plans, specifications and cost estimate (PS&E) for the design of a new drainage pump station and discharge piping. Existing drainage system and electrical power will be connected to pump station. Water will be pumped through the discharge piping over the Mississippi River Levee and Batture into the river.

California Canal Drainage Improvement, Jefferson Parish, LA: Ms. Shrestha served as the project manager for the California Canal Drainage improvement project. California Canal conveys rainwater from a portion of Marrero. The canal is bounded on the west side by commercial and industrial establishments and on the east side by a large subdivision with approximately 35 feet of berm from top of the banks to the property lines. The purpose of the improvements is to stabilize the banks and stop the erosion of the side slopes and to improve the channel hydraulic conveyance and efficiency. The project is designed for a 10-year rain event.

W. Esplanade Pump Station, Jefferson Parish, LA: Ms. Shrestha provided hydrologic and civil engineering design for this new drainage pump station that discharges into the 17th Street Canal. The maximum pumping capacity for this pump station is 180 CFS using three 60 CFS pumps. Design included concrete wet well, electrical submersible pumps, and piping system with force mains that discharge into the Canal. The power system includes utility and emergency diesel generator with automatic transfer switch. The pump station will have control systems with automatic operations and sequencing, integrated level control systems, and remote monitoring with SCADA. Flows in the existing drainage system will be reversed by using control gates that will, under specified conditions, force the runoff flows toward the new pump stations. As a part of the permit for USACE, ECM conducted a full hydrologic evaluation of the canal system under various scenarios to study the impact of this pump station and two others on the canal maximum operating water level (MOWL). The evaluation included developing synthetic hydrographs for each pump station and routing them through the canal using a HEC-RAS model.

Severn Avenue Corridor Improvements, Jefferson Parish, DPW, Jefferson Parish, LA: Ms. Shrestha is serving as project engineer for this \$10 million project involving preparation of plans and specifications for the replacement of existing sidewalks and driveway aprons with new 6-foot wide sidewalk and driveway aprons, corridor improvement to facilitate new bicycle lane, **replacement/upgrade of subsurface drainage systems.**

City Park Group - A, New Orleans, LA: Ms. Shrestha supervised the civil engineering design for this \$3.2 million City Park Group - A project. The project scope includes full reconstruction of intersections at Taft Place, Allard Blvd and St John Court and rehabilitation of other streets in City Park Group A project area. The project included design and preparation of plans, specifications, and cost estimates (PS&E); hydraulic analysis for drainage design; reconstruction of PCC roadway including all roadway intersections and sidewalks with ADA ramps, new drainage system and replacement of all water and sewer mains. Some streets under this project area are in Parkview Historic District and the design for these streets was done conforming to the FEMA guideline for the Historic Area.

Napoleon Avenue Box Culvert, SWBNO/USACE; New Orleans, LA: Ms. Shrestha provided civil engineering design for the \$55 million reconstruction project, in connection with construction of a drainage box culvert. The scope included design and preparation of plans, specifications, and estimates for roadway removal and reconstruction; hydraulic analysis to determine size of catch basins and drain lines; replacement of all water and sewer mains, including service lines within the project limit; new subsurface drainage including tie-in of all culverts into new concrete box canal; and removal and reconstruction of sidewalks.

Drainage at Glen Oaks Drive, City of Baton Rouge DPW, Baton Rouge, LA: Ms. Shrestha provided engineering services for this \$10 million reconstruction project that included design for construction of a three-lane concrete curb and gutter roadway, with 6' sidewalks and subsurface drainage improvements along a 1-mile existing roadway. The project also includes improvements to several intersections, two 8' x 8' concrete box outfall structures, along with design recommendations, and relocation of utilities, sewer and water lines.

Ward 1 and Ward 3 Master Drainage Plans, Calcasieu Parish Police Jury, Calcasieu Parish, LA: Ms. Shrestha conducted GIS, HEC-RAS, and HEC-HMS for all phases, and contributed to the development of a master drainage plan. Phase I of this project included a detailed hydrologic and hydraulic modeling of Marsh Bayou, located near the northeast corner of the Ward I drainage basin and several other tributaries on the southern end of the Ward 1 Drainage Basin. Phase II involved hydrologic and hydraulic modeling of the drainage basin at the McNeese Street Extension, which will link Highway 14 and Highway 397. The final phase involved a storm water master plan and drainage improvement analysis for Choupique-Sulphur Basin.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT**Name & Title:****Ujjal DasGupta, P.E., President****Project Assignment:****Principal-In-Charge****Name of Firm with which Associated:*****ECM Consultants, Inc.*****Years' experience with this Firm:****29****Education: Degree(s)/Year/Specialization:****B.S./1968/Civil Engineering****Active registration: Year first registered/discipline:****1982/Civil Engineering/LA License No. 19849****Other experience and qualifications relevant to the proposed Project:**

Mr. DasGupta has over 53 years of experience in project management, civil and structural engineering design, construction management, and construction quality assurance services. He has been responsible for design engineering and construction management services for many projects totaling over several billion dollars in costs for various local, state, and federal agencies. As Principal in Charge, Mr. DasGupta will be responsible for overall management of all engineering designs, preparation of plans and specifications, construction administration and sub-consultant management for this project.

Employment History:

- ECM Consultants Inc., LA, *President (1995-to date)*
- C&S Consultants, Inc., LA, *Vice President (1983-1995)*
- Pepper & Associates & Kiddie Consultants, LA, *Sr. Engineer (1980-1983)*
- McDermott, Inc., LA, *Sr. Structural Engineer (1980-1982)*
- Dunbar & Dickson, TX, *Project Engineer (1976-1980)*
- Public Works Department, India, *Assistant Engineer (1968-1976)*

The following are examples of his relevant experience:

Brown Avenue Improvements, Jefferson Parish DPW; Jefferson Parish, LA: Mr. DasGupta served as Project Manager for this \$14 million project involving engineering design and preparation of plans and specifications for construction of a single barrel, 8' x 8' x 2,600 L.F. and 8' x 12' x 2,800 L.F. single barrel concrete box culvert and closing of the existing canal on one side of the existing road. Scope of project also included new roadway with median. Project scope was design and preparation of plans and specifications for new roadway with new box culvert conforming to Jefferson Parish and LADOTD requirements, including hydraulic analysis for the drainage basins; surface and subsurface drainage designs; and utilities relocation at conflicts. Project construction was not undertaken by Parish for lack of funding.

South Kenner Drainage Improvements at Butler Ditch Culvert Crossing at Airline Highway; Kenner, LA: As Project Manager, Mr. DasGupta was responsible for the supervision of a field survey, determining of drainage area from the review of the drainage master plan, runoff computation for 50-year frequency storm event, and hydraulic analysis to determine size of the box culvert. Scope of work also included preparation of plans and specifications for construction of two large RCPA culverts, conforming to LADOTD standards, roadway replacement and traffic control plans.

Napoleon Avenue Box Culvert (South Claiborne to Carondelet Street), SWBNO; New Orleans, LA: Mr. DasGupta served as Project Manager for ECM for this \$55.1 million SELA-funded project involving design, preparation of plans, specifications and cost estimates (PS&E). Project scope included construction of a box culvert and reconstruction of Napoleon Avenue roadway from South Claiborne to Carondelet Street. Scope also included removal and replacement of sidewalks; driveway aprons; median island drive crossovers; median island; pavement markings and signage; local drainage systems; water and sewer mains; service lines for water and sewer mains within the project limits; tie-in for new subsurface drainage systems to the new concrete box culvert; and major utility relocations.

Garden Road Ditch Crossing Jefferson Highway, Jefferson Parish Capital Projects, Dept. of Public Works: Mr. DasGupta served as the Project Manager for this project which involved design and preparation of plans and

specifications for constructions of 2-56" equivalent RCPA culvert crossing Jefferson Hwy. Project scope included verification of drainage area, run off computation, determination of culvert size, utility conflict resolution and preparation of construction documents and traffic control plan. This project construction was not undertaken due to lack of funding from state capital outlay program.

Improvements to B&C Canal, Jefferson Parish Dept of Public Works; Marrero, LA: As Project Manager, Mr. DasGupta was responsible for supervision of design and construction of an 8'x12'x 2,500 L.F. concrete box culvert for closing of B&C Canal, a major drainage canal. The project involved hydraulic analysis, backwater profile computation, new subsurface drainage designs and structural designs for the box culvert. Scope also included construction administration and resident inspection services.

Drainage Pumping Station No. 15, Sewerage and Water Board of New Orleans; Orleans Parish, LA: Mr. DasGupta served as project engineer for this project involving hydraulic computations, civil and structural designs, and preparation of plans and specifications for the addition of a 1000 cfs pump for an existing station. He performed hydraulic computations to verify pump station capacity requirements based on runoff and water surface profile and structural design for the pump station, intake and discharge basins, concrete wing walls, and the pump station building.

Swift Canal Crossing 4th Street (LA 19), Jefferson Parish, LA: Mr. DasGupta served as project manager for hydraulic study, engineering design, preparation of plans and specifications, cost estimates, construction administration, and construction inspection for replacement of culvert crossing 4th Street with required size RCP, including roadway restoration and a detour plan.

Drainage Pumping Station No. 11, Sewerage & Water Board of New Orleans, Orleans Parish, LA: Mr. DasGupta served as project engineer for this project involving design, preparation of plans and specifications, bidding, and construction administration. The scope of work included design for a capacity increase by 1000 cfs with two 500 cfs pumps, a pump station building, and related work.

Slope Paving Gulizo Canal for Jefferson Parish, LA: Mr. DasGupta was involved in design and preparation of plans and specifications for concrete slope paving of the canal to prevent erosion of the banks due to unstable soil conditions. Work included review of geotechnical analysis, hydraulic analysis for capacity, design, preparation of plans, specifications, and estimates.

South Claiborne Ave Manifold Drainage Box Canal (Between Jena St. to Louisiana Ave.), S&WB of New Orleans; New Orleans, LA: Mr. DasGupta served as the ECM Project Engineer for this \$18 million project involving hydraulic analysis, design, preparation of plans, specifications and cost estimates (PS&E) and construction inspection services. Scope of the project involved construction of a single barrel 10' x 24', and a 10'x 14'cast-in-place concrete box culvert with capacity to convey about 2000 cfs flow, roadway reconstruction from Jena Street to Louisiana Avenue, subsurface drainage tied to box culvert, and utilities relocations. Scope also included replacement of sidewalks and driveways; relocation and adjustment of utilities; streetlights; roadway marking and striping and traffic loop detectors.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT**Name & Title:****Kazem Alikhani, P.E., Chief Executive Officer****Project Assignment:****Project Manager/POC****Name of Firm with which Associated:*****ECM Consultants, Inc.*****Years' experience with this Firm:****8****Education: Degree(s)/Year/Specialization:****M.S./1984/Civil, H&H Engineering; B.S./1980/Mechanical Engineering****Active registration: Year first registered/discipline:****1992/Mechanical & Environmental Engineering/LA License No. 25073****Other experience and qualifications relevant to the proposed Project:**

Mr. Alikhani has over 43 years of experience in public works projects including planning, design and construction management. As CEO of ECM, Mr. Alikhani serves as Project Manager for a variety of infrastructure projects, overseeing staff, budgets, timeline and working with owners, consulting firms and subconsultants to ensure timely and accurate project delivery. He spent the majority of his career working with the Jefferson Parish Department of Public Works responsible for all public works functions and overseeing an annual operating budget of \$200 million and a capital budget of over \$100 million. His oversight consisted of managing several departments that included drainage sewerage, water, streets, parkways, environmental, hazard mitigation, engineering and capital projects departments. In addition to managing all departments his responsibility also included managing engineering and construction management of capital improvements projects.

He has planned, designed and managed numerous projects from inception to completion including Southeast Louisiana Flood Protection Program (SELA), Road Bond Improvement Program, Sewer Capital Improvement Program, and many FEMA, HMGP, and CDBG-funded projects. Mr. Alikhani was the 2012 recipient for "Lifetime Achievement Excellence in Government" by the BGR.

Employment History:

- ECM Consultants, Inc., *Chief Executive Officer (2016-Present)*
- Jefferson Parish DPW, *Director of Public Works (2010-2016)*
- Jefferson Parish DPW, *Director of Drainage (2004-2010)*
- Jefferson Parish DPW, *Asst. Director of Water (1995-2004)*
- Jefferson Parish DPW, *Drainage Dept. Engr. (1982-1994)*
- Guillot & Vogt Engineering, *Engineer (1980-1982)*

The following are examples of his relevant experience:

Taft/North Pump Station, Jefferson Parish, LA: As a Director of Drainage Department for Jefferson Parish, Mr. Alikhani commissioned a drainage study with hydraulic analysis that concluded installation of a drainage pump station was necessary to direct the stormwater from this area to the nearby outfall canal. Mitigation activity involved the development of a forced drainage plan. Mr. Alikhani assisted with preparation of application for

HMGP funding, benefit cost analysis and provided technical supporting documents. The application was approved, and the project was funded. A vacant lot was purchased to house a new three-pump system that will function alongside the existing system which will be tasked as a common collector system of sub-surface pipes to collect excess water from Turnbull, Belmont and Taft via 33rd Street and channel the water to the new pump station. The project benefits the area in Metairie, LA bounded by I-10 to the North, Neyrey Drive on the East, 41st Street on the South and Danny Park.

Suave Road. Pump Station Improvements, Jefferson Parish, LA: As Director of Public Works, Mr. Alikhani identified, planned, and oversaw engineering and construction for the neighborhood pump station in River Ridge, one of the first two Jefferson Parish owned drainage pump stations that discharge into the Mississippi River. The pump station included two axial flow pumps with capacity of 120 CFS with 100% backup generator and SCADA System. The discharge pipe was directionally bored from Jefferson Parish Hwy to the Mississippi River.

H&H Analysis for Sim's Creek, Tangipahoa Parish, La: Mr. Alikhani is overseeing the Project Engineer for preliminary Hydraulic and Hydrologic analysis and investigated the causes of the flooding that occurred in August 2016 in Haven Subdivision. A site visit of the Haven subdivision was performed. Recommended performing complete hydraulic analysis with complete survey to determine the required drainage improvements for the subdivision. SWMM-5 Surface Modeling System by EPA was used for analyses of multiple hydrologic events in this study area.

City Project 00-4-01B, Gravier Street Improvements, City of New Orleans DPW, New Orleans, LA: Mr. Alikhani was a project principal for this \$4.8 million project for which ECM provided civil engineering design and CE&I for roadway reconstruction with curbs and gutters. Design work also included subsurface drainage, replacement of water and sewer system, installation of ADA compliant ramps at intersections, striping and signage, and removal and replacement of sidewalks and driveways.

2012-FEMA-4F-1, City Park Neighborhood, FEMA Eligible Street Repairs, New Orleans DPW, New Orleans, LA: Mr. Alikhani served as a project principal overseeing engineering design services for this project to determine extent of roadway damages acceptable to FEMA including field investigations, survey coordination, documentation, rehabilitation designs, preparation of construction plans and specifications, cost estimates for pavement rehabilitation involving base repairs, cold mill and overlay, curb, and ADA compliant sidewalk repairs including utility adjustments and new ADA ramps for all street intersections. In addition to preparation of plans and profiles, ECM prepared various details not in City standard plans, special curb details, and sidewalk and driveway details.

Drainage Improvements on Mounes Street (Dickory Avenue to Elmwood Park Blvd.), Jefferson Parish, LA: Mr. Alikhani is serving as Project Manager on the design of this project for a 4,900 LF of 10x8 box culvert. This project is divided into four phases. ECM completed design for first phase of the project, from Dickory Ave. to Crochet Ditch. This first phase included installation of approximately 1,280 linear feet precast 10'x8' box culverts which will tie-in to the existing box culverts from the Pump-to-the-River (PTTR) project.

Midway Street Area Drainage Improvements, Jefferson Parish, LA: Under Mr. Alikhani's leadership, the Drainage Department of Jefferson Parish designed and funded construction of a small drainage pump station to improve the drainage system in this area. Areas of Charlotte, Marsha and Wildwood Drives within the drain basin have repeatedly suffered street flooding and flooding of homes during rain events. Once the pump stations were constructed the drainage subsurface needed to be upgraded in order to convoy the storm runoff to the station. Mr. Alikhani identified this \$3 million subsurface drainage improvement project for HMGP funding. He assisted with the application preparation, Benefit-Cost Analysis and provided technical supporting documents.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**Name & Title:****Christopher Capretto, P.E., Civil Engineer****Project Assignment:****Civil Engineer****Name of Firm with which Associated:*****ECM Consultants, Inc.*****Years' experience with this Firm:****10****Education: Degree(s)/Year/Specialization:****B.S./2009/Civil Engineering****Active registration: Year first registered/discipline:****2014/Civil Engineering/LA License No. 38641****Other experience and qualifications relevant to the proposed Project:**

Mr. Capretto has over **16 years of experience** in roadways, drainage, and utilities projects. This includes pavement design, horizontal and vertical roadway alignments designs, storm water drainage and utility system design. His experience also includes project management and preparation of PS&E for roadways and drainage systems for urban, rural highways and streets projects.

Employment History:

- ECM Consultants Inc., LA, *Civil Engineer (2014-to date)*
- Atlas Engineering, Inc./S&B Infrastructure, Ltd., *Civil Engineer (2008-2014)*

The following are examples of his relevant experience:

Veterans Blvd. Drainage Pump Stations, Jefferson Parish-DPW, Jefferson Parish, LA: Mr. Capretto is providing project coordination and civil engineering services for design of three new drainage pump stations that discharge into the 17th Street Canal. Included in the design of this project are two 28,000 GPM and one 38,000 GPM drainage pump stations with concrete wet well and two submersible pumps at each station. The design includes two 30" and 36" discharge piping system that discharges into the Canal. The project also includes new subsurface drainage structures from the drainage area to divert flows to the new pump stations.

Drainage Improvements & Water Line Replacement for FEMA Recovery Roads, St. Bernard & City Park Neighborhoods, City of New Orleans, LA: Mr. Capretto provided civil design services for FEMA eligible repairs in the St. Bernard and City Park neighborhoods. Work included **drainage improvements**, replacement of water lines, roadway rehabilitation involving base repairs, asphalt leveling course and overlay, curb and sidewalk repairs.

Gravier St. Improvements (S. Galvez to S. Broad), City of New Orleans DPW; New Orleans, LA: Mr. Capretto provided construction administration services for this \$5.2 million project as Assistant Project Engineer. He was also involved in design, preparation of plans and specifications, and cost estimates for roadway reconstruction including new **storm drainage** and water and sewer system.

LA Highway 1091, Robert Road Intersection Improvements, St. Tammany Parish, LA: Mr. Capretto served as project designer for the conversion of a signalized intersection to roundabout. He was involved in traffic analysis, asphaltic and Portland cement concrete pavement design, **drainage design**, and environmental permitting. Work also included location of utilities using subsurface utility engineering and coordination of improvements to minimize utility relocation and right-of-way acquisition costs. Mr. Capretto prepared drainage maps, plan and profile sheets, and geometric details, and designed concrete "splitter islands" per the U.S. Department of Transportation manual.

LA Highway 1077, S.P. No. 852-03-0012. St. Tammany Parish, LA: Mr. Capretto served as project designer for widening and reconstruction of a four-lane divided highway in a commercial/industrial area. Mr. Capretto performed designs for detailed geometric alignment, **drainage structures**, and preparation of PS&E.

West Esplanade Pump Station, Jefferson Parish, LA: Mr. Capretto is serving as Civil Engineer for the design of these three drainage pump station projects. Mr. Capretto is providing engineering design for this new 180 CFS drainage pumping station located at the east end of the west esplanade canal. The station will house two (2) 60 CFS each, and two (2) 30 cfs axial flow vertical pumps. The discharge of the station will be in the 17th street canal located approximately 150 ft east of the pump station. Mr. Capretto performed calculations of the system head loss and the NPSHA; layout of the pump station including geometrics of the suction chambers based on the pump selected and in conformance with Hydraulic Institute standards; layout of the suction and discharge piping.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**Name & Title:****John Foley, III, P.E., Civil Engineer****Project Assignment:****Civil Engineer****Name of Firm with which Associated:*****ECM Consultants, Inc.*****Years' experience with this Firm:****5****Education: Degree(s)/Year/Specialization:****B.S./2014/Civil Engineering****Active registration: Year first registered/discipline:****2018/Civil Engineering/LA License No. 42740****Other experience and qualifications relevant to the proposed Project:**

Mr. Foley is a Registered Professional Engineer with 10 years of experience designing LADOTD and public works projects including feasibility studies, environmental assessments, roadway and **drainage improvements**.

Employment History:

- ECM Consultants Inc., Metairie, LA, *Civil Engineer (2019-to date)*
- Buchart Horn, Inc., Kenner, LA, *Project Engineer (2014-2019)*
- HNTB, Baton Rouge, LA, *Engineering Intern (2013-2014)*
- Louisiana State University, Baton Rouge, LA, Senior Design Project Manager and CAD Tech, (2013-2014)

The following are examples of his relevant experience:

Citrus Boulevard and Greg Court Drainage Improvements, Jefferson Parish, River Ridge, LA. Mr. Foley prepared design plans to **replace the existing drainage system** along Greg Court and Citrus Boulevard from Greg Court to Jefferson Highway. Road surfaces on both streets will be repaired as needed; once the Parish has received bids and awarded the project to a contractor.

Reserve Drainage Improvements, Phase III, St. John the Baptist Parish, Reserve, LA. Mr. Foley served as a project designer and assisted in providing bid phase services, permitting, and construction phase services for the installation of **drainage improvements**.

West Bank Group B Street Improvements, City of New Orleans, LA. Mr. Foley provided engineering services for preliminary and final design plans for a designated list of streets to be enhanced in the West Bank regional area of New Orleans. The primary enhancements include mill and overlay with full depth patching, other incidental road repairs and **drainage improvement** in certain sections of the project area.

West Metairie Avenue Restoration, Jefferson Parish, LA. As project Designer, Mr. Foley provided condition assessment, roadway and drainage design, preparation of plans, specifications and estimates (PS&E) and construction documentation for the replacement of failed concrete panels, **drainage structure repairs, and canal banks slope stabilization**.

Lake Terrace Oaks, Group-C, Neighborhood Roadway Improvements, City of New Orleans: Mr. Foley is serving as project civil Engineer and providing design services for this \$10 million project that involves complete reconstruction of 17 blocks of neighborhood residential roadway including subsurface drainage system, replacement of water and sewer systems as required. Work includes PCC paving, new base, concrete curb, sidewalks, driveway aprons and ADA compliant ramps at roadway intersections. He is performing all design conforming to City of New Orleans General Specifications for Street Paving.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**Name & Title:****John Rasi, P.E.,- Senior Hydraulic Engineer****Project Assignment:****Senior Hydraulic Engineer****Name of Firm with which Associated:*****ECM Consultants, Inc.*****Years' experience with this Firm:****12****Education: Degree(s)/Year/Specialization:****B.S./1978/Civil Engineering****Active registration: Year first registered/discipline:****1983/Civil Engineering/LA License No. 20841****Other experience and qualifications relevant to the proposed Project:**

Mr. Rasi has over 41 years of hydraulic and hydrologic experience that includes a 25-year career with LADOTD and a 4-year career with Louisiana Department of Natural Resources (Coastal Restoration Division). He is highly experienced in the use of HEC-RAS, HEC-HMS, SWMM, DAMBREAK, and FLOODWAVE computer models for hydrologic and hydraulic analyses of watersheds.

Employment History:

- ECM Consultants Inc., LA, *Sr. Hydraulic Engineer (2012-to date)*
- Louisiana Department of Transportation LADOTD, *Hydraulic Manager (2002-2011)*
- Louisiana Department of Transportation, LADOTD, *Construction Grant and Permit Engineer (1994-2002)*
- Louisiana Department of Natural Resources (Coastal Restoration Division), *Hydraulic Engineer (1990-1994)*
- Louisiana Department of Transportation, LADOTD, *Hydraulic Engineer, (1983-1990)*

The following are examples of his relevant experience:

LADOTD Dam Safety Program; Louisiana Statewide: Mr. Rasi is serving as Senior Hydraulic Engineer for conducting safety inspections for hundreds of state- and privately-owned dams under the State Dam Safety Program. This included hydrologic and hydraulic modeling of watersheds using LIDAR survey data and preparation of EAP reports for many dams throughout Louisiana. Mr. Rasi reviewed the models and the reports. Preparation of these reports involved field reconnaissance, dam breach analysis, and preparation of inundation maps. Mr. Rasi has utilized ArcGIS, HEC-RAS and HEC-GeoRAS computer programs for this project.

Hydraulic Manager for LADOTD (Office of Public Works); Baton Rouge, LA: Mr. Rasi served as Hydraulic Manager and was responsible for managing groups of engineers & engineering technicians in the review and design of projects from the Port Priority Program, the Statewide Flood Program, the Dam Safety Program, and Federal projects funded in part by the State of Louisiana. He supervised engineers in hydraulic design, drainage studies, dam breach analysis, and pump station design. He was also responsible for review and approval of levee board permits within Louisiana. Additionally, he supervised flood plain specialists who were responsible for enforcing FEMA Flood Plain Laws & Regulations.

Hydraulic Engineer, Louisiana Department of Natural Resources (Coastal Restoration Division): Mr. Rasi provided hydraulic modeling of coastal estuaries of southern Louisiana to study the effects of freshwater diversions from the Mississippi River. The modeling consisted of investigations of salinity, temperature, stage changes, tidal effects, and sediment transport. The results of the modeling were used to control the diversion of water through gated structures along the Mississippi River levee, as well as diverted water through siphons over the Mississippi River in order to affect stabilizing changes through Louisiana's deteriorating wetlands.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**Name & Title:****Neil Logan, P.E., Senior Structural Engineer****Project Assignment:****Structural Design****Name of Firm with which Associated:****ECM Consultants, Inc.****Years' experience with this Firm:****20****Education: Degree(s)/Year/Specialization:****B.S./1961/Civil Engineering****Active registration: Year first registered/discipline:****1974/Civil Engineer/LA License No. 14607****Other experience and qualifications relevant to the proposed Project:**

Mr. Logan has over 53 years of experience as a structural engineer. His project experience includes major subsurface drainage culverts, drainage pumping stations, roadways, bridges, buildings, and industrial facilities.

Employment History:

- ECM Consultants Inc., LA, *Sr. Structural Engineer (2001-to date)*
- N-Y Associates, *Structural Engineer (Contract) (1994-to date)*
- N-Y Associates, *Structural Engineer (1976-1991)*

The following are examples of his relevant experience:

Florida Avenue Culvert, Sewerage and Water Board of New Orleans, LA: Mr. Logan designed a culvert situated in the neutral ground of Florida Avenue. The culvert ranged in width from 30' to 33' and in depth from 10' to 13'. The culvert transported storm water to the pumping station at the Industrial Canal. The top of the culvert was covered with two feet of soil and was designed for HS20 highway truck loading.

Penny & Welch, Inc. Property Culvert, St. Charles Parish, LA: Mr. Logan provided structural engineering design for this culvert project. The property is a parcel of land in east St. Charles Parish that is adjacent to Jefferson Parish. Rainwater was coming off of the levee bank over River Road, across the parking lot, to the rear of the building, and then through the culvert near the Parish property line. Mr. Logan designed the culvert to turn the water 90 degrees toward the rear of the property.

Veterans Blvd. and W. Esplanade Pumping Stations, Jefferson Parish, LA: Mr. Logan provided engineering design, and preparation of PS&E for three new storm water pump stations for Jefferson Parish Dept. of Capital Projects. The project includes two pump stations at Veterans Blvd. at capacities of 27,000 gpm and 38,000 gpm and one pump station at W. Esplanade Ave. of capacity 54,000 gpm.

New Bayou Segnette Drainage Pumping Station, Jefferson Parish, LA: Mr. Logan served as Senior Structural Engineer and also Resident Engineer during construction. This project was a 1200 cfs drainage pump station for Jefferson Parish under the SELA Program. The project included a 1200 cfs pump, intake and discharge structures, retaining walls, intake and discharge tubes, screen cleaners, etc.

Estelle No. 1 Pump Station, Jefferson Parish, LA: Mr. Logan served as Senior Structural Engineer on this project consisted of design to storm proof the pump station and upgrades for all ancillary systems to achieve reliable and redundant systems to insure sustained operation during a storm event.

Drainage Pumping Station # 11, Sewerage & Water Board of New Orleans, LA: Mr. Logan served as Senior Structural Engineer for this project that involved a 1000 cfs expansion of an existing drainage pump station. The project included a pump station structure attaching the existing structure, widening of intake and discharge structures, concrete intake and discharge tubes, automatic screen cleaners, etc.

Coventry Court Drainage Pump Station, Jefferson Parish, LA: Mr. Logan served as the structural engineer for the project. The project included design of a new drainage pump station and discharge piping. The existing drainage system and electrical power will be connected to pump station. Water will be pumped through the discharge piping over the Mississippi River Levee and Batture into the river.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**Name & Title:****Sudhir Mehta, P.E., Senior Structural Engineer****Project Assignment:****Project Engineer****Name of Firm with which Associated:****ECM Consultants, Inc.****Years' experience with this Firm:****6****Education: Degree(s)/Year/Specialization:****M.S./1972/Civil Engineering; B.S./1970/Civil Engineering****Active registration: Year first registered/discipline:****1980/Civil Engineering/LA License No. 18950****Other experience and qualifications relevant to the proposed Project:**

Mr. Mehta has 49 years of experience in the design, analysis and construction of major hydraulic structures such as concrete canals, concrete box canal, Drainage pumping stations, floodgates and other flood control structures for multiple USACE districts, states and municipalities.

Employment History:

- ECM Consultants Inc, LA, *Senior Structural Engineer (2018 to date)*
- Brown, Cunningham and Gannuch, *Senior Structural Engineer/Project Manager (2006-2018)*
- URS Corp, *Senior Structural Engineer/Project Engineer (2005-2006)*
- Pepper & Associates, *Senior Structural Engineer/Project Manager (1975-2005)*
- S E Huey Co Consulting Engineers, *Project Engineer (1973-1975)*
- Linfield and Hunter, Inc., *Engineer in Training (1971-1973)*

The following are examples of his relevant experience:

W. Esplanade Ave. Drainage Pump Station, Jefferson Parish, LA: Mr. Mehta is serving as Project Manager/Structural Engineer for design of these three drainage pump station projects. Mr. Mehta is providing structural engineering design for this new 180 CFS drainage pumping station located at the east end of the west esplanade canal. The station will house two (2) 60 CFS each, and two (2) 30 cfs axial flow vertical pumps. The discharge of the station will be in the 17th street canal located approximately 150 ft east of the pump station. Mr. Mehta performed calculations of the system head loss and the NPSHA; layout of the pump station including geometrics of the suction chambers based on the pump selected and in conformance with Hydraulic Institute standards; layout of the suction and discharge piping; design of temporary earth retaining structures for the excavation based on the geotechnical investigation and analyses (done by others); structural analyses and design of reinforced concrete timber pile supported suction basin including the design of the pump floor; design of the trash screen supports; structural analyses and design of the generator station foundation. Timber piles will be used to support the generator slab; design of the pipe supports for 36-in diameter steel discharge pipes. Concrete saddles supported by piles will be used for the discharge pipe supports; design of general site layout; preparation of project specifications; coordinating with various state. Local and private owners of facilities whose interest may be affected by the construction of the project; coordinating with other engineering disciplines.

California Canal Drainage Improvement, Jefferson Parish, LA: Mr. Mehta served as the structural engineer for the California Canal Drainage improvement project. California Canal conveys rainwater from a portion of Marrero. The canal is bounded on the west side by commercial and industrial establishments and on the east side by a large subdivision with approximately 35 feet of berm from top of the banks to the property lines. The purpose of the improvements is to stabilize the banks and stop the erosion of the side slopes and to improve the channel hydraulic conveyance and efficiency. The project is designed for a 10-year rain event.

Veterans Boulevard Drainage Pump Stations (South & North), Jefferson Parish, Metairie, LA: Mr. Mehta performed structural engineering design for modifications to the new T-wall with access gates for these two new drainage pump stations. The project includes a concrete wet well structures with intakes for

installation of 2-30 cfs vertical axial flow pumps at Veterans South and 2-42.5 cfs vertical axial flow pumps at Veterans North, for a total capacity of 60 cfs for the Veterans South and 85 cfs at Veterans North. Project includes steel discharge pipe manifolds (30" and 36" respectively) crossings through the existing flood wall, replacement of a section of the I-Wall with T-wall with access gate, and new gravity drainage system for diversion of flow from the drainage basins to the new pump stations.

Drainage Improvements on Mounes Street (Dickory Avenue to Elmwood Park Blvd.), Jefferson Parish, LA: Mr. Mehta worked on Phase I & Phase II analysis and design of this 4,900 LF of 10x8 box culvert. This project is divided into four phases. ECM completed design for first phase of the project, from Dickory Ave. to Crochet Ditch. This first phase included approximately 1,280 linear feet precast 10'x8' box culverts which will tie-in to the existing box culverts from the Pump-to-the-River (PTTR) project. He also provided analysis and design for the concrete junction boxes and conflict boxes.

Citrus Drainage Pump Station, Sewerage & Water Board of New Orleans, New Orleans, LA: This project included removal of an existing pump station and construction of a new station at the same site. Mr. Mehta served as Structural Engineer for design and construction administration of this project that consisted of an addition of a 1000 cfs vertical axial flow pump and equipment. The project included discharge basin and suction basin a new suction basin pump station structure and pump building. This project included installation of sheet pile self-sustaining and braced cofferdams, installation of flood and sluice gates, installation of timber piles, excavations, dewatering, placement of concrete and installation of the pumps. The project also included analysis and design of reinforced concrete suction canal from Morrison to Hayne.

Drainage Pumping Station No. 1, Sewerage & Water Board of New Orleans, New Orleans, LA: Mr. Mehta served as Structural Engineer for planning, design and construction of this project that consisted of an addition of two horizontal axial flow pumps and equipment to the existing pump station. The project included modifications to existing discharge basin and replacement of an existing suction basin with a new suction basin based on an existing hydraulic model study, and an addition to the existing suction canal and replacement of approximately 2000 LF of existing suction canal with a new two-cell reinforced concrete box culvert. The project also included the addition of a new brick and copper roof building to house the new pumps, and modifications and redesign of roadways to accommodate extension of pump station for the pumps.

Drainage Pumping Station No. 19, Sewerage & Water Board of New Orleans, New Orleans, LA: This pump Station No. 19 was a multi-phase, multi-million-dollar project involving a multi-cell box culvert suction canal and structural steel and reinforced masonry pump station building with copper roof to house three 11-foot 1200 cfs horizontal pumps and two 7-foot 250 cfs vertical pumps. Mr. Mehta served as Structural Engineer for design and construction administration of this project that consisted of an addition of a 1000 cfs horizontal axial flow pump and equipment. The project included discharge basin and suction basin a new suction basin pump station structure and pump building. This project included installation of sheet pile self-sustaining and braced cofferdams, installation of flood and sluice gates, installation of timber piles, excavations, dewatering, placement of concrete and installation of the pumps.

Broad Street Drainage Pump Station, Sewerage & Water Board of New Orleans, New Orleans, LA: This project involved the addition of two horizontal pumps and equipment to existing station including equipment, suction basin, and new two-cell concrete box canal. Mr. Mehta served as Structural Engineer for design and construction administration of this project that consisted of an addition of 2-1250 cfs, 11-foot horizontal pump and equipment. The project included pump station structure and addition to existing pump building. This project included installation of sheet pile self-sustaining and braced cofferdams, installation of flood and sluice gates, installation of timber piles, excavations, dewatering, placement of concrete and installation of the pumps.

Widening of Florida Ave. Drainage Canal, Sewerage & Water Board of New Orleans, New Orleans, LA: Mr. Mehta served as Project Engineer/Project Manager for this SELA funded project to widen the canal from Pump Station - D at Peoples Ave to the intake of Pump Station No.19 at Industrial Canal. It was a multiphase project with an estimated construction cost of more than \$500 million. Purpose of the project was to provide larger cross-sectional area to facilitate faster delivery of storm water to the then newly built intake of DPS no. 19. The structure consisted of pile supported U frames as well as box culverts along its approximately 6000 ft length.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**Name & Title:****Missy Reynolds, E.I., Project Manager****Project Assignment:****Engineering Design****Name of Firm with which Associated:****ECM Consultants, Inc.****Years' experience with this Firm:****7****Education: Degree(s)/Year/Specialization:****B.S./1994/Civil Engineering****Active registration: Year first registered/discipline:****1995/Civil Engineering/ E.I. LA No. 16639****Other experience and qualifications relevant to the proposed Project:**

Ms. Reynolds has 27 years of experience in project management , engineering design and construction engineering for construction of roadways, **canals and drainage structures**, water facilities, and land development projects. She has provided oversight for civil and **hydraulic studies**, reconstruction, new construction and other improvements across the Greater New Orleans region.

Employment History:

- ECM Consultants Inc., LA, *Deputy Program Manager (2017-present)*
- Barowka & Bonura Engineering & Consultants, LLC, LA *Senior Project Manager/Construction Manager (2008-2017)*
- URS Corporation, LA, *Project Manager (1998-2008)*
- Frederic R. Harris, *Project Engineer (1996-1998)*
- C&S Consultants, *Project Engineer (1994-1996)*

Program and Construction Management for 2017 Jefferson Parish Road Bond Project, DPW- Jefferson Parish, LA:

Ms. Reynolds is serving as Deputy Project Manager for the 2017 Jefferson Parish Road Bond Project on the East bank of Jefferson Parish. This project currently has **\$208 million** of construction projects and includes the design and construction of **roadways, bridges, drainage, utilities and pedestrian bike paths**. Ms. Reynolds is responsible reviewing consultants' PS&E and coordinating with local and State agencies. Her duties include working with several consulting firms to resolve design and constructions issues and coordinating with private businesses and utilities including railroad companies. Ms. Reynolds reviews contractor submittals to ensure conformity, resolves construction issues, performs site visits and reviews testing lab reports and performed substantial completion and final walk-throughs for the completed projects.

Mid-City Street Improvements, Gentilly Woods & Read Boulevard East Group C Neighborhoods, New Orleans, LA:

Ms. Reynolds performed engineering services for rehabilitation and reconstruction of roadways in several neighborhoods, identifying storm-related damages to both roadways and **subsurface drainage** and utilities totaling more than \$15 million. She prepared detailed scoping reports to capture each damaged area in accordance with FEMA guidelines; created an in-depth tracking system to detail location, scope and eligibility of each item; developed drawings for FEMA eligibility approval along with corresponding support documentation for federal funding. She also performed construction cost estimates and tracked individual quantities to multiple funding sources, and prepared specifications.

Jean Lafitte Drain Line Replacement, St. Bernard Parish, LA: Ms. Reynolds designed 4,500 LF of **major drain line and an outfall** in conjunction with the Parish Drainage Master Plan and FEMA funding guidelines. The plans also included design for several large junction boxes, catch basins, roadway restoration, and redirection of smaller drain lines to intercept runoff and tie directly into the junction boxes.

Congressman Hebert Canal Widening & Stabilization, St. Bernard Parish, LA: Ms. Reynolds served as Project Manager, examining existing **drainage capacity and bank stabilization** for a major outfall canal in St. Bernard, which was adjacent to residences and schools. She utilized Autodesk SWMM to size the approximately 3,000 LF proposed earthen canal, box culverts, and concrete U-channel in accordance with the Parish Drainage Master Plan. The design also included relocation of several subsurface utilities, tying in existing drainage culverts, and roadway rehabilitation.

Roadway Restoration Projects, St. Bernard Parish, LA: Ms. Reynolds oversaw simultaneous construction of more than 350 roadway construction projects totaling \$170 million, including repairs to **subsurface drainage** damaged in Hurricane Katrina. Ms. Reynolds was responsible for 24 field inspectors and coordinating work among several concurrent contractors. She worked with FEMA, state and local representatives to identify damages and prepare design plans, construction specifications and cost estimates. Ms. Reynolds reviewed contractor submittals to ensure conformity, resolved construction issues, performed site visits, reviewed testing lab reports, and performed substantial completion and final walk-throughs for all projects. Additionally, she reviewed contractors' monthly quantities for billing, prepared change orders, conducted progress meetings, and assisted the Parish in resolving stakeholder complaints.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**Name & Title:****Marvin May, CAD Technician****Project Assignment:****CAD Technician****Name of Firm with which Associated:*****ECM Consultants, Inc.*****Years' experience with this Firm:****21****Education: Degree(s)/Year/Specialization:****1999/AutoCAD Drafting****Active registration: Year first registered/discipline:****NA****Other experience and qualifications relevant to the proposed Project:**

Mr. May has over 22 years of experience in AutoCAD drafting. His experience includes preparation of plan and profiles, cross sections, and miscellaneous details for roadway, drainage, and utilities projects. He is trained in both AutoCAD and Microstation V8.2.

Employment History:

- ECM Consultants Inc., LA, CAD Technician (2002-to date)

The following are examples of his relevant experience:

Gravier Street & Drainage Improvements, City of New Orleans DPW; New Orleans, LA: This project involved reconstruction of roadway and sidewalk for all new sewer lines, water lines, and subsurface drainage structures. Mr. May provided CAD support for this project including plans and profiles, typical sections, cross-sections and miscellaneous details.

Severn Avenue Corridor Improvements, Jefferson Parish-DPW, Jefferson Parish, LA: Mr. May is providing CAD services for this project which includes replacement of existing 6-lane PCC pavement, upgrade of subsurface drainage system with new trunk lines, addition of turn lanes at several intersections, separate bike lane with buffer, sidewalks and driveway aprons, landscaping, streetlighting and permanent striping.

Latigue Road, Jefferson Parish DPW/LADOTD; Jefferson Parish, LA: Mr. May provided CAD support on this project that involved preparation of plans and details for a new two-lane asphalt roadway truck route for access to industrial plant and reconstruction of existing roadways with asphaltic concrete roadway, curb and gutters, and drainage.

California Canal Drainage Improvement, Jefferson Parish, LA: Mr. May provided CAD support on this project. The canal is bounded on the west side by commercial and industrial establishments and on the east side by a large subdivision with approximately 35 feet of berm from the top of the banks to the property lines. The purpose of the improvements is to stabilize the banks and stop the erosion of the side slopes and to improve the channel hydraulic conveyance and efficiency

Brown Avenue Canal Improvements, Jefferson Parish DPW, Westwego, LA: Mr. May provided CAD support for this project that involved design of a concrete box culvert, concrete slope paving canal, subsurface drainage with RCP connecting to box canal, roadway, and utility relocations for Brown Avenue. Scope included hydraulic analysis, civil and structural designs, and preparation of plans and specifications and estimates (PS&E) for a single barrel 8'x12', 2,600 L.F. and single barrel 8'x8', 2,400 L.F. cast-in-place box culvert; subsurface drainage that included replacement of drainage pipes; and utilities relocation.

Veterans Boulevard Drainage Pump Stations (South & North), Jefferson Parish, Metairie, LA: Mr. Mehta performed CAD support of this project. The project includes a concrete wet well structures with intakes for installation of 2-30 cfs vertical axial flow pumps at Veterans South and 2-42.5 cfs vertical axial flow pumps at Veterans North, for a total capacity of 60 cfs for the Veterans South and 85 cfs at Veterans North. Project includes steel discharge pipe manifolds (30" and 36" respectively) crossings through the existing flood wall, replacement of a section of the I-Wall with T-wall with access gate, and new gravity drainage system for diversion of flow from the drainage basins to the new pump stations

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**Name & Title:****Alexandra Dupuis, CAD Technician****Project Assignment:****CAD Technician****Name of Firm with which Associated:*****ECM Consultants, Inc.*****Years' experience with this Firm:****>1****Education: Degree(s)/Year/Specialization:****2017/AutoCAD Drafting****Active registration: Year first registered/discipline:****Other experience and qualifications relevant to the proposed Project:**

Ms. Dupuis has more than 7 years of experience in AutoCAD drafting. Her experience includes creating 3D models and making 2D out of the 3D models, preparing layouts as directed by engineers/architects, preparation of plans and profiles, X-sections and various details for roadways, drainage, and utilities system projects

Employment History:

- ECM Consultants Inc., LA, *Sr. Structural Engineer (2023-to date)*
- Project Consulting Services, Inc., *Piping Designer (2022-2023)*
- Huntington Ingalls, *Designer II (2018-2022)*
- American Metal Fab, Inc., *Drafter (2016-2017)*

The following are examples of his relevant experience:

Chateau Elementary School-Hurricane Ida Repairs, Kenner, LA Ms. Dupuis provided CAD services to Chateau Elementary School in Kenner, Louisiana by designing plans and adding information on damage repairs that needed to be done because of the hurricane. She created and modified floor plans that have detailed callouts referencing to photos of damage done by hurricane. Photos are then documented with descriptions of damage and what needs to be repaired. Floor plans, details, and photos document repairs to floors, walls, and ceilings of school building.

Grand Isle Water Systems Improvements, Grand Isle, LA Ms. Dupuis provided CAD services by designing one-line piping diagrams to show the chemical feed systems at the East Grand Isle and Cheniere sites. The one-line piping diagrams consist of showing how the chemicals from the ammonia room flow through the pipes and how they travel to specific designated areas where needed. The diagram also includes an equipment list that is required for each individual site.

Hope Haven Main Building, Marrero, LA Ms. Dupuis is providing CAD services by preparing restoration plans for Hope Haven. The project includes the breakdown of damaged material that is identified in floor plans of building and suggested routes of construction walkway. Photos have been included in plans to show physical damage done to the structure. Roof plans are also incorporated in blueprints with documentation of damage and photos as well. The shoring layouts have also been designed to show locations, dimensions, and material need for restoration after debris and damage has been removed.

Transit Improvement Design for District 2, Jefferson Parish, LA Ms. Dupuis provides CAD services for the changes being made to 252 bus stops that follow the latest standards given by the Jefferson Parish, LA DOTD, and AASHTO. The project includes photos of bus stop locations with documentation of changes being done to follow updated standards. The views of the bus stops will be designed to include detailed information on proposed concrete layouts, dimensions, street name callouts, and placement of bus stop signs.

HANO On Call AE Services for Agency Wide Housing Communities and Scattered Sites, New Orleans, LA Ms. Dupuis provides CAD services to design changes to the interior of Guste III Community, Lafitte Senior Housing, and Fisher Senior Housing to apply modernization and redevelopment of multi-family housing units in New Orleans. She has designed site plans, floor plans, and detailed views to describe and callout changes being applied to units. Data tables are created to show scope of work for units that show the work item description, quantity, and reference notes/reports. Detailed views offer layouts of changes being done to kitchen and bathroom and consist of appliance callouts, dimensioning, and notes that describe and offer information of changes needed to be done per unit.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Zachary Collier, P.E., Project Engineer

Project Assignment:

Construction Administration

Name of Firm with which Associated:

ECM Consultants, Inc.

Years' experience with this Firm:

5

Education: Degree(s)/Year/Specialization:

B.S./2014/Civil Engineering

Active registration: Year first registered/discipline:

2018/Civil Engineering/LA License No. 42957

Other experience and qualifications relevant to the proposed Project:

Mr. Collier has about 10 **years of experience** in construction engineering, administration and inspection. He worked for LADOTD for 4 years In District 61 Project Engineer's Office. His projects included roadway and bridge construction, roadway rehabilitation, drainage repair and enhancements, water, **sewer** and other utilities relocations, and pedestrian facility improvements. His duties and responsibilities included administering state construction contracts, plan review, staffing construction projects with certified inspectors, change order reviews and approvals.

Employment History:

- ECM Consultants Inc., LA, Civil Engineer (2019-present)
- Coastal Protection and Restoration Authority, LA, Construction, Operations, and Maintenance Manager (2018-2019)
- Louisiana Department of Transportation, LA, Assistant Project Engineer (2017-2018)
- Louisiana Department of Transportation, LA, Concrete Research Engineer (2014-2017)
- Professional Service Industries, Inc., LA, Construction Service Technician (2014)

Severn Avenue Reconstruction (Veterans to W. Esplanade), Jefferson Parish, LA: Mr. Collier served as the Project Engineer for this \$14 million complete street construction project. This project included PCC paving, major drainage improvements, ADA facilities, the addition of dedicated bike lanes, addition of turn lanes, traffic and pedestrian signals, street lighting and landscaping etc. Avenue. He is providing CE&I services that includes project coordination, managing inspection services, data entry in SiteManager, manage RFIs and submittals, review monthly pay estimates, and keep concise record of all documents in chronological order so that project closeout documentation will be completed timely for final acceptance. He is also while also coordinating with DOTD, Parish and utility entities

RR25 City Park Group A – Served as Project Engineer for this \$6M road rehabilitation and replacement project in the City of New Orleans. A portion of the project included full reconstruction of several blocks including **sewer main repairs, lining, and replacement of house connections**.

RR188 Village De'Lest Group B – Provided contract administration for **sewer and water line work** related to this \$4M road reconstruction project. Oversaw inspection of sewer repairs and installations and new waterline installations, house connections, and tie ins.

RR146 Read Blvd East Group C - Provided contract administration for sewer and water line work related to this \$3M road reconstruction project. Oversaw inspection of **sewer and waterline installation**, including testing and tie in, and prepared as-built information.

Essen Lane Widening, LADOTD, S.P. No. H.010560 East Baton Rouge Parish, LA,: Mr. Collier served on the Project Engineering team for this **\$8 million** roadway widening project. Work included adding an additional travel lane on northbound Essen Lane, new signalized intersections, new ADA ramps at all driveways and intersections, additional drainage capacity and relocation of water and sewer lines where required. He provided contract administration support that included project coordination, managing inspection services, data entry in SiteManager, manage RFIs and submittals, review monthly pay estimates, and keep concise record of all documents in chronological order.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**Name & Title:****Kim Martinez, Senior Construction Inspector****Project Assignment:****Construction Inspection****Name of Firm with which Associated:****ECM Consultants, Inc.****Years' experience with this Firm:****14****Education: Degree(s)/Year/Specialization:****High School****Active registration: Year first registered/discipline:****LA DOTD Certified: Asphalt Roadway, Embankment and Base Course, Portland Cement Concrete Inspector; Work Zone Traffic Control Flagger/Technician/Supervisor****Other experience and qualifications relevant to the proposed Project:**

Ms. Martinez has 44 years of experience, including 30 years with the LADOTD as a Construction Inspector and Laboratory Technician. She is experienced in performing construction inspection of roadway, bridge, and other projects, involving activities such as: monitoring construction of PCCP and asphaltic concrete roadway, excavation, grading, placing base course & placing roadway pavement, pile driving, checking rebars for concrete structure; bridge deck pours; inspection of pouring pile caps, footings and installing girders; making cylinders and running slump tests; taking samples required by DOTD and transporting to district lab; and documenting daily work quantities and construction activities in Site Manager.

Employment History:

- ECM Consultants Inc., LA, *Senior Construction Inspector (2010-to date)*
- Louisiana Department of Transportation and Development *Construction Inspector & Laboratory Technician (1980-2010)*

The following are examples of her relevant experience:

Gravier Street Roadway & Drainage Improvements (S. Galvez to S. Broad St.), City of New Orleans, DPW, New Orleans, LA: Ms. Martinez served as the lead resident inspector for this project that included complete roadway reconstruction roadway, sidewalk and drainage removal, excavation, installation of **major** subsurface drainage and utilities such as **42" RCP for drainage tie-in to existing box culvert**, 20" water line and 8-15" sewer main class II base course and PCC paving, new sidewalks & driveways.

Severn Avenue Reconstruction: Veterans to W. Esplanade, Jefferson Parish, LA: Ms. Martinez is currently serving as the Lead Construction Inspector for this **\$12 million** roadway reconstruction project. This project includes PCC paving, **major drainage improvements**, ADA facilities, the addition of dedicated bike lanes, addition of turn lanes, street lighting and landscaping etc. She is providing construction inspection services that includes supervising other inspectors, keep records of quantities of work in place, monitoring construction activities for compliance with plans and specifications, entering daily reports in SiteManager, review monthly pay estimates and assist Project Engineer in change orders management.

Fleur De Lis Drive Reconstruction, LADOTD, New Orleans, LA: Ms. Martinez served as construction inspector for this **\$12 million** Urban Systems project on Fleur de Lis Dr., in a residential area between 30th St. and Old Hammond Hwy. ECM provided construction contract administration and CE&I services for roadway reconstruction including sidewalks, PCC pavement, grading, subsurface drainage and utilities. She performed inspections, monitors contractor activities, provided documentation and daily reports, and coordinated with contractor and Project Engineer.

Taft Place Reconstruction - City Park Neighborhood – Group -A, Roadway; City of New Orleans, LA: Ms. Martinez served as Resident Inspector for this project involving construction engineering and inspection (CE&I) services for this **\$2.3 million** Taft Street reconstruction project which is a part of the City Park neighborhood roadway improvement program. The project scope included removal and reconstruction of 800 and 900 blocks of Taft Place including the intersections at Dumaine street, Allard Blvd., Dumaine and St John Court and other street intersections. Work for roadway reconstruction included PCC paving, roadway intersections with handicap ramps conforming to current ADA standards, new sidewalk, driveways, and subsurface drainage system. Work included roadway removal, excavation, grading, class II base course, and PCC pavement, concrete curb, sidewalks, ADA ramps, driveways, new drainage, sewer and water systems, and related work.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**Name & Title:****Manny Aspuria, Construction Inspector****Project Assignment:****Construction Administration****Name of Firm with which Associated:*****ECM Consultants, Inc.*****Years' experience with this Firm:****1****Education: Degree(s)/Year/Specialization:****Active registration: Year first registered/discipline:****Other experience and qualifications relevant to the proposed Project:**

Mr. Aspuria has over 36 years of experience in operations and maintenance of Jefferson Parish Pump Station. Mr. Aspuria started his career as a pump station operator and was promoted to Pump Station Superintendent for the East Bank. He then was promoted to O&M Manager in charge of all East and West Bank pump station improvements.

Employment History:

- ECM Consultants Inc., *Construction Inspector (2023-to date)*
- Jefferson Parish DPW, *Operations & Maintenance Manager (2016-2019)*
- Jefferson Parish DPW, *Superintendent 3 (2007-2016)*
- Jefferson Parish DPW, *Superintendent 1 (2001-2007)*
- Jefferson Parish DPW, *Pump Station Operator (1983-2003)*

The following are examples of his relevant experience:

Storm proofing of Jefferson Parish Drainage Pump Stations, Jefferson Parish, LA: Mr. Aspuria was involved in a \$330 million storm proofing of all drainage pump stations in Jefferson Parish. This project provided storm proofing for the pump stations buildings and ancillary systems to achieve reliable and redundant systems to ensure sustained operation of the drainage pump stations during storm events. His responsibilities included civil designs, supervision of all CAD Technicians, coordination between various disciplines and subconsultants, compilation of all specifications.

Pontiff Playground Detention Area: Mr. Aspuria was involved with this \$5 million project involving construction of a stormwater detention pond and small pump stations. This project involved utilizing the Pontiff playground as a detention pond during a storm event to store rainwater. This project included constructing a ring levee around the playground with strategically placed small pump stations to pump rainwater from the surrounding neighborhoods into the playground. Benefits of this project were reduced flooding in the area neighborhood and slow release of the water into the downstream drainage system. The project did not impact the function of the playground in such that the playground was functional within hours after the rain events.

Parish Line Pump Station Capacity Expansion: Mr. Aspuria oversaw Parish Line Pump Station expansion during the construction phase. This project included adding additional capacity to the existing pump stand, increasing the station pumping capacity by 350 CFS. This project involved adding one diesel driven pump and the ancillary equipment which included the 72" discharge pipe for the pump to be penetrated through flood protection T-wall.

TEC Professional Services Questionnaire

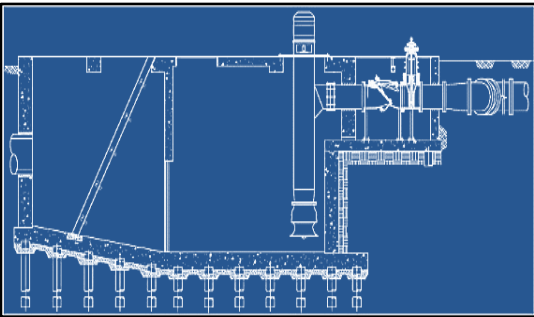

L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.

PROJECT NO. 1


Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:					
<p>Design and Construction of Subsurface Drainage Improvements on Mounes Street (Dickory Avenue to Elmwood Park Blvd.)</p> <p>Jefferson Parish, LA Jefferson Parish DPW 1221 Elmwood Park Blvd., Suite 802 Jefferson, LA 70123</p> <p>Neil Schneider 504-736-6739</p>	<p>ECM is providing engineering design services for this four-phase Drainage Box Culvert installation project for drainage improvements along Mounes St. between Dickory Ave. and Elmwood Park Blvd.</p> <p>The project includes 4,900 LF of 10'x8' box culvert and is divided into four phases. ECM completed design for (1) first phase of the project, from Dickory Ave. to Crochet Ditch and (2) fourth phase of the project, from Dealers Avenue to Elmwood Parkway. ECM is currently designing the (3) second phase of the project, Dickory Ave to Elmwood Park Blvd and (4) third phase of the project, Dickory Ave to Elmwood Park Blvd).</p> <p>This first phase included installation of single barrel 10'x8' precast concrete box culvert which will tie-in to the existing box culvert from the Pump-to-the-River (PTTR) project. This phase includes installation of approximately 1,280 linear feet of 10'x8' box culvert and required tie-ins in preparation for the next phase. The tie-in, temporary tie-in and utility conflict box are design as cast- in- place sections. The installation of the box culvert will require deep trench to include 4' of aggregate base as per Jefferson Parish standard details for installation of culverts. Because of the subsoil conditions for such deep excavation, as per recommendation of Geotechnical engineer, installation will require driving sheet piles which will be left in place after completion of the box culvert.</p> <p>ECM designed the culvert following the latest AASHTO LRFD Bridge Design Standard. The project required coordination for the supplemental services: surveying, geotechnical investigations, preparation of right-of-way plans, and traffic engineering. Project scope also includes construction administration and resident inspection services.</p> <p>The project includes the installation of approximately 4,880 linear feet of 10' x8' of precast concrete box culvert. The project also includes reconstruction of one lane of existing roadway and related utilities relocation. Design considerations and the requirements are same for all four phases.</p>					
	<div style="border: 1px solid black; padding: 5px;"> <p><u>KEY PERSONNEL</u> Ujjal DasGupta, P.E. Sudhir Mehta, P.E. Sunina Shrestha, P.E. Marvin May</p> </div>	<div style="background-color: #003366; color: white; padding: 5px;"> <p><u>RELEVANCE</u></p> <p>✓ Concrete Box Culvert ✓ Drainage Improvements</p> </div>				
<p>Completion Date: (Actual or Estimated):</p> <p>Ongoing</p>	<p>Estimated Cost:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%; text-align: center;">Entire Project:</th><th style="width: 50%; text-align: center;">Work for which Firm was Responsible:</th></tr> <tr> <td style="text-align: center;">\$29 Million</td><td style="text-align: center;">\$8 Million</td></tr> </table>		Entire Project:	Work for which Firm was Responsible:	\$29 Million	\$8 Million
Entire Project:	Work for which Firm was Responsible:					
\$29 Million	\$8 Million					

TEC Professional Services Questionnaire

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:					
<p>Veterans Boulevard (North & South) Drainage Pump Stations, Metairie, LA</p> <p>Jefferson Parish-DPW 1221 Elmwood Park Blvd., Jefferson, LA 70123</p> <p>Gary Lehmann, Project Manager Work phone: 504.736.6779 Gary.Lehmann@jeffparish.net</p>	<p>The purpose of this project is to minimize recurring street flooding in the area along the west bank of the 17th Street Canal between Lake Pontchartrain and the north side of Interstate 10 (I-10). ECM performed hydraulic and hydrologic analysis, engineering design services for these two new drainage pump stations (Veterans North, and Veterans South) that discharge into the 17th Street Canal. The maximum pumping capacity for these pump stations are 60 CFS and 85 CFS respectively.</p> <p>Included in the design of these pump stations are concrete wet well with intake basin and debris collection screen, multiple axial flow pumps and piping system with force mains that discharge into the 17th Street Canal. The power and control system is designed by IMC, our sub-consultant. Veterans North will have 2-30 CFS pumps and Veterans South will have two 42.5 CFS pumps. Work includes layout of the pump stations and geometrics of the suction chamber based on pumps and hydraulic institution standards; design of concrete pump station structure on timber piles, trash screens, suction and discharge piping, timber pile supported generator foundation, etc. Work also includes Entergy supplied power system and emergency diesel generator with automatic transfer switch. The pump stations will have fiber optics lines, control systems with automatic operations, sequencing, integrated level control systems, and remote monitoring with SCADA. Work also includes upgrading the existing gravity drainage system to divert flows from the drainage basin to the new pump stations.,</p> <p>ECM is also responsible for 408 permitting. As a part of the permit for USACE, ECM conducted a full hydraulic evaluation of the canal system under various scenarios to study the impact of these pump stations on the canal safe water evaluation. The evaluation included developing system hydrographs for each pump station and routing them through the canal using a HEC-RAS model. This project is under review by USACE for permit.</p>					
						
<p><u>RELEVANCE</u></p> <ul style="list-style-type: none"> ✓ New Drainage Pump Station Design ✓ Hydraulic Analysis 	<p><u>KEY PERSONNEL</u></p> <p>Ujjal DasGupta, P.E. Kazem Alikhani, P.E. Sunina Shrestha, P.E. John Rasi, P.E. Sudhir Mehta, P.E. Chris Capretto, P.E. Marvin May</p>					
<p>Completion Date: (Actual or Estimated):</p> <p style="text-align: center;">Ongoing</p>	<p style="text-align: center;">Estimated Cost:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%; text-align: center;">Entire Project:</th><th style="width: 50%; text-align: center;">Work for which Firm was Responsible:</th></tr> <tr> <td style="text-align: center;">\$18 Million</td><td style="text-align: center;">\$17.5 Million</td></tr> </table>		Entire Project:	Work for which Firm was Responsible:	\$18 Million	\$17.5 Million
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\$18 Million	\$17.5 Million					

TEC Professional Services Questionnaire

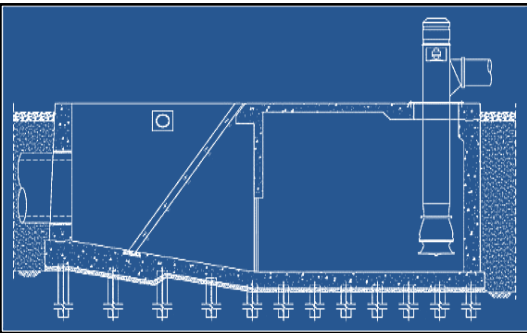

PROJECT NO. 3				
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:			
<p>California Canal Channel Improvement by Concrete Slope Paving Jefferson Parish, LA</p> <p>Jefferson Parish-DPW 1221 Elmwood Park Blvd., Jefferson, LA 70123</p> <p>Mitch Theriot, PE, Director of Drainage Work phone: 504.736.6753 Mitch.Theriot@jeffparish.net</p> <div style="background-color: #0056b3; color: white; padding: 10px; margin-top: 10px;"> <p><u>RELEVANCE</u></p> <p>Drainage Improvement H & H analysis Channel slope Paving</p> </div> <div style="background-color: #d9e1f2; padding: 10px; margin-top: 10px;"> <p><u>KEY PERSONNEL</u> Kazem Alikhani, P.E. Sunina Shrestha, P.E. Sudhir Mehta, P.E. Marvin May</p> </div> <div style="text-align: center; margin-top: 10px;">  </div> <div style="text-align: center; margin-top: 10px;">  </div>	<p>California Canal is located on the west bank of the Mississippi River in Marrero which is a part of Jefferson Parish. The canal is connected on the side upstream to major culverts under Lapalco Boulevard (six lanes) and on the downstream side to a major drainage canal just upstream of drainage pump station.</p> <p>ECM has performed H&H and geotechnical analysis along with surveying to determine the alternatives for improving the canal. The alternative that ECM recommended and selected was to slope pave the bottom and the side slopes of the canal. California Canal conveys rainwater to a portion of Marrero that includes Lapalco Boulevard (six lanes), industrial, commercial, and residential areas. The canal is bounded on the west side by commercial and industrial establishments and on the east side by a large subdivision with approximately 35 feet of berm from top of the banks to the property lines. The purpose of the improvements is to stabilize the banks and stop the erosion of the side slopes and to improve the channel hydraulic conveyance and efficiency. The project is designed for a 10-year rain event.</p> <p>ECM performed design and prepared construction plans and specifications for this canal with a bottom width of 18 feet and side slopes of 3 to 1. The channel is 10 feet deep, and it is designed to be excavated 12 feet to reach better soil bearing material in order to avoid any failure. Design also includes both tie-ins to the upstream and downstream structures along with design of numerous outfall pipes and other necessary drainage improvements. On the downstream the slope paved section is designed to with a tapered transition to match the existing U-section channel. The California Canal is an active canal that serves watershed within the boundaries mentioned above. Instructions will be given to the contractor regarding the necessity of building dams during construction of this project in order to dewater the canal. However, during rain events the dams must be removed within adequate time to prevent flooding of the area within the watershed that is served by this canal. SCADA system was specified to allow the contractor and the owner representatives to monitor the canal elevation. Once the canal elevation starts rising, the system will call the responsible individuals phone numbers in order to notify them of the rising canal elevation.</p> <p>Provisions added in the design plans to dictate the amount of flow to be maintained in the canal at all times via bypass pumping or any other mean.</p>			
<p>Completion Date: (Actual or Estimated):</p> <p>2024 (E)</p>	<p>Estimated Cost:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;"> <p>Entire Project:</p> <p>\$5 Million</p> </td> <td style="width: 50%; text-align: center;"> <p>Work for which Firm was Responsible:</p> <p>\$4 Million</p> </td> </tr> </table>		<p>Entire Project:</p> <p>\$5 Million</p>	<p>Work for which Firm was Responsible:</p> <p>\$4 Million</p>
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TEC Professional Services Questionnaire

PROJECT NO. 4								
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:							
<p>Severn Avenue Corridor Improvements Jefferson Parish, LA</p> <p>Jefferson Parish DPW / LADOTD 1221 Elmwood Park Blvd., Suite 802, Jefferson, LA 70123</p>	<p>ECM provided engineering designs and prepared plans, specifications, and estimate (PS&E) for this \$14.2 million, 6-Lane divided, major Portland Cement Concrete (PCC) roadway including subsurface drainage system. During field investigations and preliminary study, ECM engineers discovered that the existing pavement has signs of distresses in many locations as well evidence of street flooding during moderate to heavy rain events. ECM recommended to the Parish those improvements to the existing subsurface drainage is essential to make the project a success for the intended purpose. Since existing subsurface drainage systems are in the paved areas and that the project scope included removal and replacement of the PCC roadway, ECM engineers recommended to replace drainage system, add large new trunk drain lines for retention of runoffs to minimize flooding in the area. This was approved and funded by RPC and the Parish. ECM performed all subsurface drainage design for this project. As a part of the Federal Aid Urban System program, all engineering design and plan preparation was performed in accordance with LADOTD standards and guidelines which included preparation of plans and specifications conforming to LADOTD Roadway Plan Preparations Manual, Hydraulic Manual and Standard Specifications for Roads and Bridges.</p> <p>Work included topographic and subsurface utility survey; development of existing and proposed drainage maps with associated hydraulic computations, design for the new 3 lanes each for North and South bound PCC roadway, widening and improvements to roadway intersections, modifications to traffic signals including new pedestrian signals, new decorative streetlights; new 8-foot wide brick paved sidewalks with ADA compliant ramps; new landscaping including irrigation system, roadway striping and designing a dedicated bike lane with buffer and construction of ten parklets with pavers, benches, potted plantings, bike racks, etc.</p> <p>ECM provided project management, engineering designs, prepared plans and profiles, Typical sections, cross sections, and details, construction phasing plan, sequence of construction plans, traffic Detour plans, specifications, and estimates. ECM provided coordination with JP-DPW, LADOTD, JP Council, RPC, various utility entities and subconsultants. ECM is currently providing construction administration and resident inspection services for this project.</p>							
 <div style="background-color: #0056b3; color: white; padding: 5px; margin-top: 10px;"> <p>RELEVANCE</p> <ul style="list-style-type: none"> ✓ H & H Analysis ✓ Subsurface Drainage Design </div> <div style="border: 1px solid #0056b3; padding: 5px; margin-top: 10px; background-color: #e6f2ff;"> <p><u>Key Personnel</u> Ujjal DasGupta, P.E. Kazem Alikhani, P.E. Sunina Shrestha, P.E. Marvin May (CAD) Zachary Collier, P.E. Kim Martinez</p> </div>	<table border="1" style="width: 100%; border-collapse: collapse; margin-top: 10px;"> <thead> <tr> <th colspan="2" style="text-align: center; padding: 5px;">Estimated Cost:</th> </tr> <tr> <th style="width: 50%; text-align: center; padding: 5px;">Entire Project:</th> <th style="width: 50%; text-align: center; padding: 5px;">Work for which Firm was Responsible:</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 5px;">\$12 Million</td> <td style="text-align: center; padding: 5px;">\$11 Million</td> </tr> </tbody> </table>		Estimated Cost:		Entire Project:	Work for which Firm was Responsible:	\$12 Million	\$11 Million
Estimated Cost:								
Entire Project:	Work for which Firm was Responsible:							
\$12 Million	\$11 Million							
<p>Completion Date: (Actual or Estimated):</p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center; padding: 5px;">Estimated Cost:</th> </tr> <tr> <th style="width: 50%; text-align: center; padding: 5px;">Entire Project:</th> <th style="width: 50%; text-align: center; padding: 5px;">Work for which Firm was Responsible:</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 5px;">2022 (A)</td> <td style="text-align: center; padding: 5px;">\$11 Million</td> </tr> </tbody> </table>		Estimated Cost:		Entire Project:	Work for which Firm was Responsible:	2022 (A)	\$11 Million
Estimated Cost:								
Entire Project:	Work for which Firm was Responsible:							
2022 (A)	\$11 Million							

TEC Professional Services Questionnaire

PROJECT NO. 5

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>West Esplanade Drainage Pump Station, Jefferson Parish, LA</p> <p>Jefferson Parish-DPW 1221 Elmwood Park Blvd., Jefferson, LA 70123</p> <p>Gary Lehmann, Project Manager Work phone: 504.736.6779 Gary.Lehmann@jeffparish.net</p>  <div style="background-color: #0056b3; color: white; padding: 5px; margin-top: 10px;"> RELEVANCE ✓ New Drainage Pump Station Design ✓ Hydraulic Analysis </div> <div style="border: 1px solid #0056b3; padding: 5px; margin-top: 10px; background-color: #e6f2ff;"> KEY PERSONNEL Ujjal DasGupta, P.E. Kazem Alikhani, P.E. Sunina Shrestha, P.E. John Rasi, P.E. Sudhir Mehta, P.E. Chris Capretto, P.E. Marvin May </div>	<p>The purpose of this project is to minimize recurring street flooding in the area along the west bank of the 17th Street Canal between Lake Pontchartrain and the north side of Interstate 10 (I-10). ECM performed hydraulic and hydrologic analysis, engineering design services for these this new drainage pump station.</p> <p>Included in the design of this pump station are concrete wet well with intake basin and debris collection screen, multiple axial flow pumps and piping system with force mains that discharge into the 17th Street Canal. The West Esplanade pump station will have four pumps 2- 60 CFS and 2-30 CFS for a total capacity of 180 CFS. Out of 4 pumps 2-60 CFS and 1-30 CFS will be installed now and structure is designed to accommodate 1-30 CFS pump at a later date. Work includes layout of the pump station and geometrics of the suction chamber based on pumps and hydraulic institution standards; design of concrete pump station structure on timber piles, trash screens, suction and discharge piping, timber pile supported generator foundation, etc. Work also includes power supply from Entergy and emergency diesel generator with automatic transfer switch.</p> <p>The pump station will have fiber optics lines, control systems with automatic operations and sequencing, integrated level control systems, and remote monitoring with SCADA. Work also includes upgrading the existing gravity drainage system to divert flows from the drainage basin to the new pump station.</p> <p>As a part of the permit for USACE, ECM conducted a full hydrologic evaluation of the canal system under various scenarios to study the impact of this pump station and two others on the canal safe water level. The evaluation included developing system hydrographs for the pump station and routing them through the canal using a HEC-RAS model. Project is under review by USACE for 408 permit.</p> 	
Completion Date: (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Ongoing	\$10 million	\$10 million

TEC Professional Services Questionnaire

PROJECT NO. 6

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Williams Blvd. & Vintage Dr. Drainage Box Culvert Kenner, LA</p> <p>City of Kenner-DPW 1801 Williams Boulevard Kenner, LA 70062 Tom Schreiner 504-468-7515</p>  	<p>ECM performed engineering design, prepared preliminary and final plans, specifications and estimates (PS&E), and provided construction administration services for the extension of a four barrel 7'x6' drainage box culvert on west side of Williams Blvd. at Vintage Dr.</p> <p>Scope of work included demolition of existing U-turn pavement and median, construction of a cast-in-place 7'X6' four barrel box culvert, construction of new widened U-turn asphaltic pavement, concrete curb and gutter and traffic island with paved sidewalk and handicap ramps. The project also included brick paved surface, landscaping, irrigation system, lighting and striping.</p> <p>Design and construction included traffic control plan, driving steel sheet pile shoring, temporary earthen dam as per Jefferson Parish specifications, muck excavation from bottom of the canal, saw cut and removal of 2' of the existing concrete culvert to expose rebars and tie-in new rebars for the culvert extension, aggregate base, mud slab and constructing cast-in-place concrete culvert.</p> <p>Project included wing wall design and needed additional design consideration due to soil conditions and surcharge. This was designed as cantilever wall with wide base slab.</p> <p>ECM coordinated with City of Kenner - DPW, Jefferson Parish - DPW, LADOTD, Program manager and subconsultants for topographic survey, geotechnical investigations, roadway designer, landscape architect and electrical engineer.</p> <div style="display: flex; justify-content: space-between;"> <div data-bbox="615 1255 1042 1499" style="background-color: #003366; color: white; padding: 10px; border: 1px solid #003366;"> <p><u>RELEVANCE</u></p> <ul style="list-style-type: none"> ✓ Drainage Improvements ✓ Concrete Box Culvert ✓ Roadway Rehabilitation </div> <div data-bbox="1109 1255 1536 1535" style="background-color: #e6f2ff; padding: 10px; border: 1px solid #003366;"> <p><u>KEY PERSONNEL</u></p> <p>Ujjal DasGupta, P.E. Sunina Shrestha, P.E. Chris Capretto, P.E. Missy Reynolds, EI Marvin May</p> </div> </div>	
Completion Date: (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2017 (A)	\$1.2 Million	\$ 0.85 million

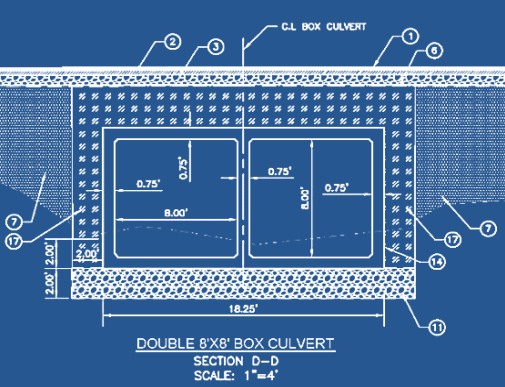
TEC Professional Services Questionnaire

PROJECT NO. 7

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Glen Oaks Drive (Plank Road to McClelland Drive) Baton Rouge, LA</p> <p>City of Baton Rouge/East Baton Rouge Parish DPW 100 St. Ferdinand, Baton Rouge, LA 70821</p> 	<p>ECM provided engineering services for a \$10 million reconstruction project for replacing a two-way collector with a three-lane concrete curb and gutter roadway, including subsurface drainage on Glen Oaks Drive is currently a one-mile existing Urban Collector roadway. and Drive</p> <p>Phase I of this project involved performing a full topographic survey including locating existing subsurface drainage systems and outfalls. ECM performed a complete hydrologic and hydraulic analysis of the drainage system. Scope of the Phase 1 was to perform conceptual design, H&H analysis, preliminary cost estimates and prepare a design study report for the city of Baton Rouge – DPW. This comprehensive Design Study Report was prepared based on the conceptual roadway design and the drainage improvements necessary for the drainage area.</p> <p>The design study included hydraulic analysis of the two barrel 8'x8' concrete box culverts under the Airline Highway The phase 1 of the project also included preparation of drainage maps depicting existing conditions and the proposed drainage system; preliminary typical sections and preliminary construction cost.</p> <p>Phase 2 of this project included final roadway and subsurface drainage design including improvements to the outfall box culvert. The work included removal of the existing concrete roadway and replacing with concrete pavement, with curb and gutter, and 6' adjacent sidewalk. The project also included improvements to several intersections.</p> <p>ECM prepared final plans, specifications and cost estimates (PS&E) and of construction documents and ROW taking Maps and utility relocation plans.</p>	
<p>RELEVANCE</p> <ul style="list-style-type: none"> ✓ Hydraulic Analysis ✓ New Subsurface Drainage system ✓ Utilities Relocation 	<p>KEY PERSONNEL</p> <p>Ujjal DasGupta, P.E. Sunina Shrestha, P.E. Chris Capretto, P.E. Marvin May</p>	
<p>Completion Date: (Actual or Estimated):</p>	<p>Estimated Cost:</p>	
	<p>Entire Project:</p>	<p>Work for which Firm was Responsible:</p>
<p>2020(A)</p>	<p>\$10 Million</p>	<p>\$10 Million</p>

TEC Professional Services Questionnaire

PROJECT NO. 8

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Strain Road Bridge Replacement with Box Culvert.</p> <p>Baton Rouge, LA City of Baton Rouge/East Baton Rouge Parish 100 St. Ferdinand Street Baton Rouge, LA 70821</p> <p>Mark Stephens 225-389-3186</p> 	<p>ECM provided engineering design services for the replacement of Strain Road Bridge over Drainage Bayou, located in the east part of East Baton Rouge Parish, approximately 0.20 miles east of the intersection of Strain Road and O'Neal Lane. The existing structure is 56-foot-long bridge consisting of three (3) spans. The existing structure included an asphalt overlain concrete deck supported by treated timber stringers, bent caps and piles. The approaching roadway is a 2-lane asphalt concrete street with open ditches.</p> <p>ECM performed the hydrologic and hydraulic study of Drainage basin of the bayou and presented two alternatives for replacement of existing bridge. The hydraulic analysis was one for 10yrs, 25yrs and 100yrs design storm. HEC RAS and LADOTD hydraulic software were utilized for the analysis. Based on the benefit-cost-analysis (BCA) the alternative of replacement of existing bridge with a two barrel 8'x8' culvert was recommended to City of Baton Rouge and the same was accepted by the city. ECM performed the design of two, 60 feet long, 8'x8' box culvert and approach road along with culvert transition flume on both sides. The culverts were designed conforming to LADOTD standards.</p> <p>The project also includes the designing of about 400 feet of roadway with sidewalks. ECM was also responsible for managing the subconsultants for topographic survey, Geotechnical analysis, Environmental permitting and ROW mapping.</p>	
Completion Date: (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2017 (A)	\$885,000	\$885,000

RELEVANCE

- ✓ H&H Analysis
- ✓ Drainage Design
- ✓ Concrete Box Culvert Design
- ✓ Civil and Structural design

KEY PERSONNEL

Ujjal Dasgupta, P.E.
Sunina Shrestha, P.E.
Marvin May

TEC Professional Services Questionnaire

PROJECT NO. 9

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:					
<p>Gravier Street Improvements (South Galvez to Broad) New Orleans, LA</p> <p>City of New Orleans DPW 1300 Perdido Street New Orleans, LA 70112 504.658.8209</p>	<p>ECM provided engineering design services for this \$5.2 million roadway reconstruction project which included coordination for topographic survey including utility locations and depths. ECM developed drainage area maps and hydrologic calculations for the tributary area, as well as prepared a preliminary roadway plan and profile with a coordinated drainage collection system. Hydraulic design calculations were performed to size and locate the roadway inlets. The drainage collection system included pipe sizes ranging from 12" to 42" in Diameter. Integral to the roadway design was the additional design of approximately 2,600 Lin. Ft. of water mains ranging in size from 8" to 20" in diameter with associated water house connections. Design included relocation of approximately 2,400 Lin. Ft. of sanitary sewer ranging in size from 8" to 15" in Diameter.</p> <p>The scope of work involved detailed pavement design for both PCC and asphaltic concrete roadway reconstruction with curbs and gutters including a bid optional for PCCP roadway and installation of ADA ramps for the handicapped at intersections, and removal and replacement of sidewalks and driveways.</p> <p>The project included schematic design services to develop a conceptual plan, general design criteria, and cost estimates. The preliminary design services included preliminary design plans and supporting computations, line and grade analysis, cross sections, etc. Final design services included revisions to preliminary plans, preparation of the specifications, bid documents, traffic control plans, pavement marking, and submittal of signed and stamped final construction plans.</p> <p>ECM was responsible for submitting preliminary design plans, ACP and final plans including to the City DPW and S&WB for review and comments. Final documents included hydraulic reports, plans and specifications, construction cost estimates incorporating all comments, and bid documents.</p> <p>Project required collection of existing information and extensive coordination with the Sewerage and Water Board and other utilities regarding both vertical and horizontal location of utilities. ECM also coordinated with the Department of Public Works for horticultural requirements. ECM provided construction administration, engineering during construction and resident inspection services for this project.</p>					
						
<p>RELEVANCE</p> <ul style="list-style-type: none">✓ Subsurface Drainage System✓ Drainage Structure Removal✓ Roadway Reconstruction						
<p>Key Personnel</p> <p>Ujjal DasGupta, P.E. Sunina Shrestha, P.E. Chris Capretto, P.E. Kim Martinez</p>						
<p>Completion Date: (Actual or Estimated):</p> <p>2017 (A)</p>	<p>Estimated Cost:</p> <table><tr><th>Entire Project:</th><th>Work for which Firm was Responsible:</th></tr><tr><td>\$5.2 M</td><td>\$5.2 M</td></tr></table>		Entire Project:	Work for which Firm was Responsible:	\$5.2 M	\$5.2 M
Entire Project:	Work for which Firm was Responsible:					
\$5.2 M	\$5.2 M					

Key Personnel

**Ujjal DasGupta, P.E.
Sunina Shrestha, P.E.
Chris Capretto, P.E.
Kim Martinez**

TEC Professional Services Questionnaire

PROJECT NO. 10						
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:					
<p>Lake Terrace Oaks, Group - C, and Lake Shore Area Group - E Roadway Improvements; City of New Orleans, LA</p> <p>City of New Orleans-DPW 1300 Perdido St. Room 6W03, New Orleans, LA 70112</p> <p>Khalid L. Saleh, P.E. Work phone: 504.865.0659 khalid.saleh@npola.gov</p> <div style="text-align: center;">  <p style="background-color: #000080; color: white; padding: 2px; text-align: center;">LAKE TERRACE AND OAKS GROUP C</p> </div> <div style="text-align: center;">  <p style="background-color: #000080; color: white; padding: 2px; text-align: center;">LAKE SHORE GROUP E</p> </div> <div style="text-align: center;">  <p style="background-color: #000080; color: white; padding: 2px; text-align: center;">ROAD TYPICAL SECTION</p> </div>	<p>ECM is providing engineering design services for preparing preliminary, advance check plans and final plans and specification in conforming to City of New Orleans General Specifications for Street Paving for the streets in the Lake Terrace Oaks- Group – C and Lakeshore Area Group - F projects simultaneously. This project is a part of a FEMA funded roadway capital improvement program for the City of New Orleans. Total construction cost of the entire project is \$11.5 million (\$10 million Lake Terrace and \$1.5 million for Lake shore). ECM is providing engineering design for these projects that include 20 city blocks of roadway including intersections. Work for roadway reconstruction included PCC paving, Asphalt paving, roadway intersections with handicap ramps conforming to current ADA standards, new sidewalk, driveways and subsurface drainage system, sewer line and water line design. Reconstruction includes roadway removal, adding geotextile fabrics and aggregate base, grading and compacting, new paving with curb and gutter.</p> <p>ECM was responsible for coordination for topographic and subsurface utility survey, field verification of survey data; coordination with S&WBNO, Entergy, AT&T and other private utilities entities for providing location and depth of their utilities and including their information in the plan and profile sheets. ECM developed existing and proposed drainage area maps and hydraulic calculations using DOTD hydraulic software HYDR Programs for the tributary area, as well as prepared a preliminary roadway plan and profile with a coordinated drainage collection system. Hydraulic design calculations were performed to size drainpipes and locate the roadway inlets.</p> <p>The project included schematic design services to develop a conceptual plan, general design criteria, and cost estimates. The preliminary design services included preliminary design plans and supporting computations, line and grade analysis, cross sections, etc.</p> <p>ECM submitted preliminary design plans to DPW, S&WBNO and all utility entities for their review and comments. This project is currently at 95% preliminary completion. Plans are submitted incorporating plan-in-hand and other comments. Submittal of final documents will also include hydraulic reports, plans and specifications and final construction cost estimates. Additionally, design includes incorporation of replacement of water lines and sewer lines in some areas. Design conforms to FEMA, the Sewerage & Water Board and Parks & Parkways for horticultural requirements.</p> <div style="float: right; border: 1px solid black; padding: 5px; width: 200px;"> <p style="text-align: center; margin: 0;">Key Personnel</p> <p style="margin: 0;">Ujjal DasGupta, P.E. Sunina Shrestha, P.E. Chris Capretto, P.E. Mansoor Bajwa</p> </div> <div style="clear: both;"></div> <div style="float: right; background-color: #000080; color: white; padding: 5px; width: 200px;"> <p style="text-align: center; margin: 0;">RELEVANCE</p> <ul style="list-style-type: none"> ✓ Waterline Replacement ✓ Engineering and Design ✓ Preparation of PS&E ✓ Construction Administration ✓ Construction Inspection </div> <div style="clear: both;"></div>					
<p>Completion Date: (Actual or Estimated):</p> <p style="text-align: center; background-color: #000080; color: white; padding: 2px;">Ongoing</p>	<p style="text-align: center;">Estimated Cost:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center; padding: 5px;">Entire Project:</td> <td style="width: 50%; text-align: center; padding: 5px;">Work for which Firm was Responsible:</td> </tr> <tr> <td style="text-align: center; background-color: #000080; color: white; padding: 2px;">\$11.5 million</td> <td style="text-align: center; background-color: #000080; color: white; padding: 2px;">\$11.5 million</td> </tr> </table>		Entire Project:	Work for which Firm was Responsible:	\$11.5 million	\$11.5 million
Entire Project:	Work for which Firm was Responsible:					
\$11.5 million	\$11.5 million					

TEC Professional Services Questionnaire

M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary NONE		
Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1. N/A	N/A	N/A
2. N/A	N/A	N/A
3. N/A	N/A	N/A
4. N/A	N/A	N/A

ECM Consultants, Inc. **has never been involved** in any litigation and/or adversarial proceedings with Jefferson Parish.

TEC Professional Services Questionnaire

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

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5. Prior Successful Completion of Projects
6. Size of Firm
7. Past Performance on Parish Contracts

QUALITY CONTROL PLAN

CONCLUSION

of our personnel to provide quality professional services have earned ECM Consultants, Inc. an excellent reputation and repeat work from our clients. **About 95% of our work is repeat business from existing customers.**

ECM will serve as the Prime Consultant on this contract with the following specialty firms as sub-consultants:

BFM Corporation, LLC, is a professional surveying firm who has provided services to public and private agencies throughout the Gulf South, including hundreds of projects across Jefferson Parish. BFM provides surveying services covering all facets of engineering, construction, and forensics; topographic, hydrographic, and high definition laser scanning.

Gulf South Engineering & Testing, Inc. Gulf South Engineering & Testing (Gulf South)) is a geotechnical engineering and construction materials testing and inspection company that began operations in 2011. Since that time, they have grown to 2 offices and over 30 employees. Gulf South provides a broad range of geotechnical related services. Our key employees' combined work experience totals more than 75 years and thousands of projects.

IMC Consulting Engineers, Inc. (IMC) is a small business located in Metairie, LA, established in 1988, provides quality mechanical and electrical engineering services in the commercial/institutional and municipal marketplace. IMC has inspected or designed mechanical, electrical, and plumbing (MEP) systems for multiple USACE structures within the Mississippi Valley District. IMC's inspection and design experience includes MEP systems for Hydraulic Structures such as Sector Gates, Flood Control Structures, Diversion Structures, Plumbing Stations, and Locks. IMC will provide Mechanical and Electrical Engineering support.

Team Profile

ECM Consultants, Inc. is an engineering, architectural and construction management firm headquartered in Metairie, LA with a full-service branch office in Baton Rouge and Lafayette. ECM was incorporated under the laws of the State of Louisiana on August 31, 1995 and holds current licenses in Professional Engineering (No. 2003) and Construction Management (No. 31739). Over the last 28 years, ECM has provided professional services for over 800 projects for clients including:

- Jefferson Parish Department of Public Works
- Jefferson Parish Public Schools
- City of Kenner Dept. of Public Works
- Jefferson Parish Juvenile Justice Agency
- Jefferson Parish Dept. of Community Development
- City of New Orleans Dept. of Public Works
- Louisiana Dept. of Transportation & Development
- Sewerage & Water Board of New Orleans
- City of Baton Rouge Dept. of Public Works
- Port of New Orleans
- USACE New Orleans, Vicksburg, Mobile, Rock Island, Charleston and Louisville Districts
- USDA-NRCS
- LA CPRA
- SLFPA-East

The qualifications, integrity, reliability, and commitment

TEC Professional Services Questionnaire

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

Minimum Qualifications

Minimum Qualifications	Personnel Meeting Requirement
1. One Principal who is a professional engineer who shall be registered as such in Louisiana.	Ujjal DasGupta, P.E., President /Owner LA License No. 19849
2. A Professional in Charge of the Project who is a Professional Engineer who shall be registered as such in Louisiana with a minimum of five (5) years' experience in the disciplines involved.	Sunina Shrestha, P.E. 16 years' experience LA License No. 37901
3. One (1) employee who is a professional engineer registered as such in Louisiana in the field or fields of expertise required for the project. (A sub-consultant may meet this requirement only if the advertised Project involves more than one discipline)	Ujjal DasGupta, P.E. LA Civil Eng. #19849 Kazem Alikhani, P.E. LA Mechanical Eng. #25073 Sunina Shrestha, P.E. LA Civil Eng. #37901 Sudhir Mehta, P.E. LA Civil/Structural Eng. #18950

ECM substantially exceeds minimum qualification requirements.

EVALUATION CRITERIA

1. PROFESSIONAL TRAINING AND EXPERIENCE

Relevant project experience of Firm

Stormproofing all Jefferson Parish Pump Stations
Client: USACE New Orleans District

ECM provided planning, engineering design, preparation of final construction plans and specifications, EDA, EDC, construction management and QA inspection services for pump station storm proofing projects throughout Jefferson Parish under a 5-year, \$90 million IDIQ contract. The purpose was to provide storm proofing design for the building envelopes as well as the ancillary systems to achieve reliable and redundant systems to ensure sustained operation of the drainage pump stations during storm events. Projects included design elements such as new generator, level sensing controls, roofs, exterior wall reinforcement, ventilation, electrical wiring, lighting, lightning protection, remote monitoring and control system upgrades, new bulk fuel storage, discharge piping, intake screens, screen cleaning system with debris removal system, CCTV camera system, fuel purification system, etc.

Subsurface Drainage Improvements on Mounes Street

Client: Jefferson Parish DPW

ECM is providing engineering design services for this four-phase Box Culvert installation project that includes 4,900 LF of 10'x8' precast concrete box culvert. Phase 1 of the overall project includes 1,280 linear feet of 10'x8' box culvert. Construction of this box culvert will require deep trench to include 4' of aggregate base as per Jefferson Parish standard details for installation of culverts and will require steel sheet piling to remain in place. ECM designed the culvert following the latest AASHTO LRFD Bridge Design Standard. The fourth phase includes the installation of approximately 1,100 linear feet of 10' x 8' of precast concrete box culvert.

Veterans Blvd (N&S) Drainage Pump Stations, Metairie, LA

Client: Jefferson Parish Dept. of Public Works

ECM is performing hydraulic and hydrologic analysis, engineering design, preparation of PS&E and permitting services for these two new drainage pump stations that discharge into the 17th Street Canal. The maximum pumping capacity for these pump stations are 60 CFS for Veterans South and 85 CFS for veterans North.

TEC Professional Services Questionnaire

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

West Esplanade Drainage Pump Station, Jefferson Parish, LA

Client: Jefferson Parish Dept. of Public Works

ECM provided hydraulic modeling and analysis, civil, structural and mechanical engineering design preparation of PS&E for this new drainage pump station that discharges into the 17th Street Canal. The maximum pumping capacity for this pump station is 180 CFS using 2-60 CFS and 2-30 CFS pumps.

Jefferson Avenue Concrete Box Culvert

Client: SWBNO/USACE-NOD

This \$50 million project scope involved design and construction of an 8'x14' concrete box culvert extending from South Claiborne Avenue to Dryades Street and reconstruction of the roadway and intersection within the project limits. The scope of work also included design and preparation of PS&E for the removal and replacement of existing roadway with asphaltic concrete roadway including concrete curb, sidewalks, and driveways. Scope also included water and sewer system relocations; hydraulic analysis to determine size of local drain lines and number, types, and size of drainage structures.

HWY 45 Pump Station, Lafitte, LA

Client: Town of Jean Lafitte

ECM Consultants is preparing plans and specifications for a drainage pump station with a capacity of 30 cubic feet per second (CFS) to serve the Lafitte, Louisiana Coastal community. The pump station will consist of two direct drive axial flow pumps, each with a capacity of 15 CFS. The pump station will be located at the site of a smaller existing pump station, adjacent to it, on LA Hwy 45 in Jefferson Parish, and will discharge into the bayou Barataria.

Williams Blvd. & Vintage Dr. Drainage

Client: City of Kenner - DPW

This project extended a four barrel 7'x6' drainage box culvert on west side of Williams Blvd. at Vintage Dr. Scope of work included demolition of existing U-turn pavement and median, construction of a cast-in-place 7'X6' four-barrel box culvert, construction of new widened U-turn asphaltic pavement, concrete curb and gutter and traffic island with paved sidewalk and handicap ramps. Design and construction included traffic control plan, driving steel sheet pile shoring,

temporary earthen dam as per Jefferson Parish specifications, saw cut and removal of 2' of the existing concrete culvert to expose rebars and tie-in new rebars for the culvert extension.

Coventry Court Drainage Pump Station PS

Client: Jefferson Parish DPW

ECM has provided complete professional engineering services including the civil, structural, electrical, and instrumentation design of the project. The pump selection was made based on the capacity requirement and calculated TDH. Hydraulic Institute's guidance and recommendations were followed in the design of the suction basin and the suction chambers to prevent the formation of subsurface and surface vortices. The inflow into the pump station will be screened using a trash screen to keep the major debris out of the suction chambers.

West Shore Lake Pontchartrain Flood Risk Reduction Project, Segments WSLP 102 and WSLP 106 St. Charles, St. John the Baptist, St James Parish, LA

Client: USACE-NOD

ECM is performing engineering design services for two segments of the West Shore Lake Pontchartrain Hurricane Risk Reduction project located in southeast Louisiana on the east bank of Mississippi River. The project stretches across St. Charles, St. John the Baptist and St. James parishes and comprises of 18.5 miles of earthen levees, T-walls, Drainage Structures and the Drainage Pump Stations

Westwego No. 1 Pump Station, Jefferson Parish, LA

Client: USACE New Orleans District

ECM provided engineering design of a 375 CFS pump station to provide a fully automated station to enhance the existing operational capacity at this location. Project design included new site survey, geotechnical report, ROW drawings and design analysis to prepare plans and specifications for the new pumping station while always maintaining the Jefferson Parish pump station operability performance level during the construction phase of the work.

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

California Canal Channel Improvement by Concrete Slope Paving Jefferson Parish, LA

Client: Jefferson Parish DPW

California Canal is located on the west bank of the Mississippi River in Marrero which is a part of Jefferson Parish. The canal is connected on the side upstream to major culverts under Lapalco Boulevard (six lanes) and on the downstream side to a major drainage canal just upstream of drainage pump station.

ECM has performed H&H and geotechnical analysis along with surveying to determine the alternatives for improving the canal. The canal is bounded on the west side by commercial and industrial establishments and on the east side by a large subdivision with approximately 35 feet of berm from top of the banks to the property lines. The purpose of the improvements is to stabilize the banks and stop the erosion of the side slopes and to improve the channel hydraulic conveyance and efficiency. The project is designed for a 10-year rain event.

ECM performed design and prepared construction plans and specifications for this canal with a bottom width of 18 feet and side slopes of 3 to 1. Design also include both tie-ins to the upstream and downstream structures along with design of numerous outfall pipes and other necessary drainage improvements.

Napoleon Avenue Canal I (S. Claiborne to Carondelet)

Client: S&WB of New Orleans/ USACE -NOD

This \$55 million SELA project scope involved design and construction of a 10'x28' box canal in the roadway median and reconstruction of Napoleon Avenue between South Claiborne Avenue and Carondelet Street and adjoining intersections. Scope of the project included coordination of topographic surveys & geotechnical investigations, hydraulic analysis, engineering design, preparation of plans & specifications and cost estimates (PS&E) for this major drainage box culvert and four-lane roadway removal and reconstruction. Work also included roadway drainage systems, water and sewer mains, tie-in new drain pipes to the new box culverts and utility relocation.

Conceptual Design of Hydrologic Systems for Outfall Canals at 17th St, Orleans Ave, & London Ave, New Orleans, LA

Client: USACE New Orleans District

ECM provided a Process Management Plan, Technical Support, Alternatives Review, Outfall Canal Capacity Technical Analysis, and 17th Street Canal Upgrade Review. ECM also involved in preparation of Design-Build RFP packages for construction of 17th St. (12,600 cfs), Orleans Ave. (2,700 cfs) and London Ave. (9,000 cfs) Permanent Canal Closure & Pump (PCCP) stations. Concept design included gated water control structures to prevent back flow from the lake to the canals during storm surge and large capacity pump stations including intake and discharge structures.

Drainage Pump Station No. 11, New Orleans, LA

Client: S&WBNO

ECM provided design, bidding, construction administration, and resident inspection services for a capacity increase by 1000 cfs with two (2)-500 CFS pumps, pump station building, intake and discharge structures, piping, and related works. The project included two (2) I-walls and one T-wall, along with improvements to the levee along the Gulf Intracoastal Waterway.

Conceptual Planning & Design for 21 Pump Stations, Plaquemines Parish, LA

Client: USACE New Orleans District

The purpose of the project was to achieve sustained pump station operation during and after storm events by providing safe havens for operators and increasing protection against hurricane force winds, wind driven water, and loss of power. ECM provided Environmental Investigations, Storm Proofing Assessment Report, Project Prioritization Decision Matrix, Project Schedule, and Estimates of Cost.

Training & Qualifications of Key Personnel

Ujjal DasGupta, P.E., President: Mr. DasGupta has a B.S. degree in Civil Engineering and over 53 years of experience in project management, civil and structural engineering design, construction management, and construction quality assurance services. He has been responsible for engineering design and construction management services for over several billion dollars of projects for various

TEC Professional Services Questionnaire

local, state and federal agencies. Mr. DasGupta is a Louisiana registered Professional Engineer.

Kazem Alikhani, P.E., Project Manager: Mr. Alikhani has over 43 years of experience in public works projects including planning, design and construction management. As CEO of ECM, Mr. Alikhani serves as Project Manager for a variety of infrastructure projects, overseeing staff, budgets, timeline and working with owners, consulting firms and subconsultants to ensure timely and accurate project delivery. He spent the majority of his career working with the Jefferson Parish Department of Public Works responsible for all public works functions and overseeing an annual operating budget of \$200 million and a capital budget of over \$100 million. His oversight consisted of managing several departments that included drainage sewerage, water, streets, parkways, environmental, hazard mitigation, engineering and capital projects departments. In addition to managing all departments his responsibility also included managing engineering and construction management of capital improvements projects.

Sunina Shrestha, P.E., will serve as **Professional-in-Charge of Project:** She has a M.S. degree in Civil Engineering and over 17 years of experience. As a registered Professional Engineer in Louisiana, her experience includes engineering design and analysis for pump stations, roadway, drainage, watershed analysis, dams, levees and site layout plans.

Christopher Capretto, P.E. Mr. Capretto will serve as **Civil Engineer**, he has 16 years of experience in facilities design and construction management for pump stations, drainage systems, transportation and pedestrian improvement projects.

John Foley, III, P.E., Civil Engineer is a Registered Professional Engineer with 10 years of experience designing LADOTD and public works projects including feasibility studies, environmental assessments, roadway, wastewater and drainage improvements.

John Rasi, P.E. H&H Engineer Mr. Rasi has over 41 years of experience in hydraulic and hydrologic engineering and modeling that includes a 25-year career with LADOTD and a 4-year career with Louisiana Department of Natural Resources (Coastal Restoration Division). He is highly experienced in the use of HEC-RAS, HEC-HMS, SWMM, DAMBREAK, FLOODWAVE, and LADOTD Hydraulics computer models for hydrologic and hydraulic analyses of watersheds and coastal estuaries.

Neil Logan, P.E., Structural Engineer. He has a B.S.

degree in Civil Engineering and is a registered Professional Engineer in Louisiana. His 53 years of experience include drainage pumping stations, commercial buildings, warehouses, maintenance and industrial facilities, transportation projects, floodwalls, breakwaters, and bridges.

Sudhir Mehta, P.E., Structural Engineer: Mr. Mehta has 49 years of experience in the design, analysis and construction of major hydraulic structures such as pumping stations, floodwalls, floodgates and other flood control structures for multiple USACE districts, states and municipalities. He has a BS & MS in Civil Engineering and is a LA licensed Professional Engineer.

Missy Reynolds, Project Manager: Ms. Reynolds has more than 27 years of experience in engineering design for major roadway, drainage and utility project in Southeast Louisiana. She holds a B.S. in Civil Engineering and is an E.I. in LA.

Marvin May will serve as **CAD Technician**, he has over 22 years of experience in AutoCAD drafting, including preparation of plans and profiles, cross sections and miscellaneous details for roadway, drainage and utilities projects.

Zachary Collier, P.E., Construction Engineer has about 10 years of experience in construction administration, engineering and inspection. He worked for LADOTD for 4 years in District 61 Project Engineer's Office. He has a BS in Civil Engineering and is a licensed Louisiana P.E.

Kim Martinez will serve as **Resident Inspector.** She has over 44 years' experience in the engineering and construction industry, including 30 years as a technician and inspector with LADOTD. She has provided inspection services for roadway, drainage, bridge and facility projects across the state.

Manny Aspuria, Construction Inspector Mr. Aspuria has over 36 years of experience in operations and maintenance of Jefferson Parish Pump Station. Mr. Aspuria started his career as a pump station operator and was promoted to Pump Station Superintendent for the East Bank. He then was promoted to O&M Manager in charge of all East and West Bank pump station improvements

TEC Professional Services Questionnaire

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

John Philip Thayer, Operations Supervisor (BFM) 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.

Thomas Wright, Survey Crew Chief (BFM) 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.

Chad Poche', P.E. Geotechnical Engineer (Gulf South) 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 is a licensed Louisiana P.E.

Bryson Beard, P.E., ACI Geotechnical Field Engineer (Gulf South) is an Associate Geotechnical Engineer/Field Engineer who serves as a Project Manager. He has performed geotechnical engineering analyses consisting of shallow and deep foundations, slope stability, TRS and sheet pile wall design, settlement, pavement design, etc., and has prepared engineering reports. Mr. Beard's experience in the field includes surface and subsurface soil sampling, water sampling, and soil classification.

Paul Vlosich, P.E. Electrical Engineer (IMC) serves as IMC's Director of Municipal and Industrial Projects and oversees all aspects of IMC's municipal business sector including client relations, business development, resource management, contract negotiation, contract execution, production, and quality control.

Eugene "Chip" Higbee III, P.E. Mechanical Engineer (IMC) During his 30+-year career, Chip has served in various capacities from facilities and maintenance engineer, building energy performance contractor, and consulting engineer. Chip has provided design services for a variety of pump station projects including new pump stations, renovations/additions to existing pump stations, safe houses, and ancillary buildings.

2. CAPACITY FOR TIMELY COMPLETION OF WORK

ECM understands the requirements of successfully managing and has the capacity and resources for completing all projects on time. Each project under this contract will be adequately staffed by personnel with the technical expertise, supervised by highly experienced engineering supervisor and provided with resources to effectively fulfill the needs of the project. Our efficient approach to scheduling our work allows ECM personnel to provide all required man-hours for each of our ongoing projects.

3. LOCATION OF PRINCIPAL OFFICE

The ECM Consultants, Inc.'s principal office is located in Jefferson Parish at 1301 Clearview Parkway, Suite 200, Metairie, LA 70001. All work will be performed from this office.

4. ADVERSARIAL LEGAL PROCEEDINGS WITH THE PARISH

ECM Consultants, Inc. has never been involved in any litigation and/or adversarial legal proceedings with Jefferson Parish.

TEC Professional Services Questionnaire

5. PRIOR SUCCESSFUL COMPLETION OF PROJECTS

Below are examples and references to related projects:

- **Severn Avenue Corridor Improvements (Veterans Blvd. to West Esplanade Ave.):** \$14 Million. **Reference:** Mark Drewes, P.E.– Jefferson Parish - DPW; 504-736-6784; mdrewes@jeffparish.net
- **Williams Blvd. & Vintage Dr. Drainage Box Culvert:** \$1.1 Million project **Reference:** Tom Schreiner, P.E., Project Manager – City of Kenner DPW; 504-468-7515
- **Strain Road Bridge Replacement with Box Culvert:** \$10 million project. **Reference:** Mark Stephens, P.E. City of Baton Rouge; 225-389-3186; mstephens@brgov.com
- **Glen Oaks Drive (Plank Road to McClelland Drive):** \$10 Million project. **Reference:** Craig Rabelais, P.E.- CSRS; 225-731-3607
- **Jefferson Avenue Drainage Canal I and Roadway reconstruction (S. Claiborne to Dryades St.):** \$50 Million project **Reference:** Ron Spooner, P.E., Project Manager – S&WB of New Orleans; 504-865-0650; rspooneer@swbno.org

6. SIZE OF FIRM

ECM has **72** qualified professional engineers and support staff to work on routine and specialized projects that will be necessary to provide high quality professional services on this contract. Our team includes ten civil engineers, two structural engineers, four project managers, two engineering interns, a mechanical engineer, two architects, thirty-two construction inspectors, three CAD technicians, and eight administrative and support staff.

7. PAST PERFORMANCE ON PARISH CONTRACTS

ECM has successfully completed a number of projects for Jefferson Parish, **controlling costs**, providing **high quality work**, and maintaining the contract's **schedule**. We take pride in completing projects on time and within budget, and as a result we have been rewarded with repeat contracts.

Below are a few examples of Jefferson Parish projects completed within budget and on time:

- 37th Street and Purdue Drive Sewer Lift Station for Jefferson Parish
- Warehouse for Jefferson Parish DPW. This project design was completed below the project budget of \$5 million

- Oakwood Smart Growth - Hector Avenue Improvements (Whitney Avenue to Terry Parkway) for Jefferson Parish
- Lapalco Bridge Over Bayou Segnette for Jefferson Parish

QUALITY CONTROL PLAN

ECM Consultants, Inc. has an excellent quality control program. During the design phase the project manager is responsible for establishing design criteria in consultation with the owner. Before the start of a project, the project manager will meet with all staff (project engineers, junior engineers, and the CAD operator) to communicate the project scope, design criteria, drafting standards, coordination requirements with various disciplines, completion schedules for various phases, and, most importantly, the project goal and Owner's expectation of high-quality professional work. The project manager is responsible for coordination with the owner and project engineers. All our staff members are conscientious, thorough and understand the importance of preparing construction documents with a standard of care exceeding the industry standard. The criticality of following design procedures is consistently emphasized, and all drafting is thoroughly checked by the design engineers.


CONCLUSION

ECM Consultants, Inc. exceeds the required qualifications, experience, and resources to perform engineering services for Drainage Projects in Jefferson Parish.

We are poised for immediate assignment and look forward to providing excellent professional services. We hope to receive favorable consideration.

TEC Professional Services Questionnaire

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

Signature: 

Print Name: Kazem Alikhani, P.E.

Title: Chief Executive Officer

Date: 06/20/2024



**Jefferson
Parish**
State of Louisiana

Section 2

BFM Corporation, LLC

TEC Professional Services Questionnaire

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Provision of Routine Engineering Services for

Drainage Projects in Jefferson Parish

SOQ **24-015** | Resolution No. **144202**

B. Firm Name & Address:



BFM Corporation, LLC

15 Veterans Memorial Boulevard | Kenner LA 70062

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

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

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

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

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

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

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

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

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

<u>4</u>	Administrative		Estimators		Specification Writers
	Architects (Licensed)		Geologists		Structural Engineers
	Chemical Engineers	<u>1</u>	Geotechnical Engineers		Graduate Engineers
	Civil Engineers		Interior Designers	<u>2</u>	Project Managers
	Construction Inspectors		Landscape Architects		Clerical (<i>see Administrative</i>)
	Ecologists	<u>1</u>	Land Surveyor (<i>Apprentice</i>)		Grant/Funding Specialist
	Electrical Engineers		Mechanical Engineers		Sanitary Engineers
	Engineer Intern		Environmental Engineers	<u>1</u>	<i>Researcher/Archivist</i>
<u>2</u>	Professional Land Surveyors			<u>3</u>	<i>CADD Technicians</i>
				<u>6</u>	<i>Survey Crew Chief</i>
				<u>6</u>	<i>Survey Crew Instrumentman</i>
				<u>26</u>	TOTAL

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

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

TEC Professional Services Questionnaire

G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.		
1. <div style="text-align: center; font-size: 1.2em;">N/A</div>		
2.		
H. Has this JOINT-VENTURE previously worked together? Please check: <div style="display: flex; justify-content: space-around; margin-top: 5px;"> YES_____ NO_____ N/A </div>		
I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.		
Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. <div style="text-align: center; font-size: 1.2em;">N/A</div>		
2.		
3.		
J. Please specify the total number of support personnel that may assist in the completion of the Project: <div style="display: flex; align-items: center; margin-top: 5px;"> <div style="text-align: center; font-size: 1.5em; margin-right: 10px;">26</div> (all personnel will be available for assignment to the project) </div>		

TEC Professional Services Questionnaire

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

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Ralph P. Fontcuberta, Jr., PLS

Executive Vice President / Registered Professional Land Surveyor

Project Assignment:

Registered Professional Land Surveyor

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

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

Education: Degree(s)/Year/Specialization:

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

Active Registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

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

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

TEC Professional Services Questionnaire

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

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

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

- Lafitte Drainage Project, Town of Jean Lafitte, Jefferson Parish, LA
- Central Avenue Roadway Drainage & Water Main Improvements, Jefferson Parish, LA
- Orange Lane Drainage Pump Station Project (Drainage Mapping), Grand Isle, Jefferson Parish, LA
- Mounes Street Subsurface Drainage (Phase IV, Dickory Avenue to Elmwood Park Boulevard), Jefferson Parish, LA
- Coventry Drainage Pump Stations, River Ridge, Jefferson Parish, LA
- Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, LA
- Bissonet Plaza Drainage Improvements (Phase 1, Elmwood Parkway and Craig Avenue), Metairie, Jefferson Parish, LA
- North Arnoult Drainage Pump Station Improvements, Jefferson Parish, LA
- Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA
- Westwego Drainage Pump Station No. 1, Jefferson Parish, LA
- Bayou Segnette Drainage Pump Station No. 1 Survey Verification, Jefferson Parish, LA
- West Bank Expressway, Phase I Drainage Map, from Peters Road to Manhattan Boulevard, Jefferson Parish, LA
- Paillet - Maplewood Drainage Improvements, Jefferson Parish, LA
- Jack & Bores Survey (Drainage Project), Waggaman, Jefferson Parish, LA
- Taft Park Pump Station and Drain Line Path, Jefferson Parish, LA
- Mazoue Ditch Improvements, Phase I, Jefferson Parish, LA
- Emergency Generators at 13 Pump Station Sites, Jefferson Parish, LA
- Oakwood/Terrytown Drainage Improvements, Jefferson Parish, LA
- Massachusetts Avenue Drainage Improvements, Jefferson Parish, LA
- Orleans Village Subdivision Drainage Improvements, Jefferson Parish, LA
- Morton & Ingrid Pump Station, Jefferson Parish, LA
- Hoey's Canal Drainage Improvements (Deckbar Ave to Labarre Rd), Jefferson Parish, LA
- Drainage Pump Station, Veterans North & South, Right-of-Way, 17th Street Canal, Jefferson Parish, LA
- Mounes Subsurface Drainage - Phase I, Jefferson Parish, LA
- Marlin Court Drainage Project, Jefferson Parish, LA

TEC Professional Services Questionnaire

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

- Woodland West Drainage Improvements - Phase 2A, Vulcan Dr & Telestar St, Jefferson Parish, LA
- Sub-Basin 3 Proposed Improvements (Meadow St & Myrtle St), Bunche Village, Jefferson Parish, LA
- Avenue D Drainage Improvements, Jefferson Parish, LA
- Oakwood Terrytown Drainage Improvements (HMGP) (Carol Sue Drainage Improvements), Jefferson Parish, LA
- Taft Park Pump Station and Drain Line Path, Jefferson Parish, LA
- Maplewood & Paillet HMGP Project, West Bank Subsurface Drainage Improvement Program Phase II, Jefferson Parish, LA
- Hillings Ditch/Drolla/Suave Road Drainage Improvements, Jefferson Parish, LA
- Route Topographic (including Lift Station/Force Main) Surveying Services, Jefferson Parish, LA
- Paillet Pump Station Access Road and Drainage Improvements, Jefferson Parish, LA
- Westgate Subdivision Subsurface Drainage Improvements, Jefferson Parish, LA
- Canal No. 17 Bank Stabilization Phase II, Jefferson Parish, LA
- Clearview Drainage Pump Station and St. Peter's Ditch, Jefferson Parish, LA
- Johnson Street Drainage Improvements (Phases I & II), Jefferson Parish, LA
- Hero Pump Station, Harvey, Jefferson Parish, LA
- West Bank Subsurface Drainage Improvement Project, Phase II, Bellemeade Boulevard to the Violet Canal Discharge, Jefferson Parish, LA
- Hilling Ditch Drainage Improvements, Jefferson Parish, LA
- Upper Kraak Pump Station, Jefferson Parish, LA
- Mason Ditch Drainage Improvements, Jefferson Parish, LA
- Hurricane Gustav Drainage Canal Repairs, East Bank, Jefferson Parish, LA
- Bannerwood Drainage Improvements, Jefferson Parish, LA
- Improvements to Bayou Segnette Drainage Pump Station No. 1, Jefferson Parish, LA
- Sena Drive Subsurface Drainage Improvements, Jefferson Parish, LA
- Drainage Improvements to the Canal No. 2 Culvert Crossing at California Avenue, Jefferson Parish, LA
- Kawanee Drive Drainage Improvements, Jefferson Parish, LA
- Mazoue Ditch Drainage Improvements Phase IV, Jefferson Parish, LA
- Goose Bayou Drainage Pump Station, Lafitte, Jefferson Parish, LA
- Fulton Street Pump Station, Jefferson Parish, LA
- Parish Line Pump Station (Pump Station No. 5), Jefferson Parish, LA
- Mazoue Ditch Drainage Improvements (Rose Crest Lane to Darby Lane), Jefferson Parish, LA
- Breaux Ditch Improvements, East Ames Boulevard - Leo Kenner Parkway, Jefferson Parish, LA
- Manson Ditch (ICRR Ditch) Survey, Jefferson Parish, LA

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Chad M. Poché, P.E.

Executive Vice President / Registered Professional Geotechnical Engineer

Project Assignment:

Engineering Liaison

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

7 years (became partial owner of BFM in 2017);
31 years total (1993)

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

Education: Degree(s)/Year/Specialization:

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

Active Registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

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

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

TEC Professional Services Questionnaire

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

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

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

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

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

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

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Gary J. Lambert, Jr., PLS

Vice President / Registered Professional Land Surveyor

Project Assignment:

Project Manager/Drafting Supervisor

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

6 years (joined BFM in 2018);
13 years total (2011)

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

Education: Degree(s)/Year/Specialization:

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

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

Active Registration: Year first registered/discipline:

2021, Professional Land Surveyor (Louisiana No. 5929)

Other experience and qualifications relevant to the proposed Project:

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

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

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

TEC Professional Services Questionnaire

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

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

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

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

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

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

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Christopher Lemley Field Operations Manager/Survey Crew Chief
Project Assignment:
Field Operations Manager/Survey Crew Chief
Name of Firm with which associated:
 BFM CORPORATION, LLC Professional Land & Hydrographic Surveying
Years' experience with this Firm:
<div style="display: flex; justify-content: space-between;"> <div> 10 years (joined BFM in 2014); 18 years total (2006) </div> <div style="text-align: right;"> <i>BFM Corporation, LLC 2014 to present</i> <i>G.E.C., Inc. 2010 to 2014</i> <i>Krebs, LaSalle, LeMieux Consultants, Inc. 2006 to 2010</i> </div> </div>
Education: Degree(s)/Year/Specialization:
<i>High School Diploma</i>
Active Registration: Year first registered/discipline:
<i>American Traffic Safety Service Assn. – Traffic Flagger</i> <i>Louisiana Boater Education - Boating Safety Certificate</i> <i>Norfolk Southern Roadway Worker Protection Contractor Safety Certificate</i>
Other experience and qualifications relevant to the proposed Project:
<p>Chris Lemley's services as BFM's Field Operations Manager includes overseeing all field work and activity by company personnel. His surveying experience includes over 8 years as a Survey Crew Chief. His survey software experience includes projects involving Trimble, Topcon, Leica, and Hypack, and has maintained and operated GPS, Auto-Level, and Total Station. Notable past project work has included the New Orleans Museum of Art, Jackson Barracks Restoration, US Highway 11, NASA Michoud Cells 3 & 4, the St. Bernard Lot Next Door Program, and multiple Orleans Parish School Recovery projects (including L.B. Landry, George Washington Carver, and Alice M. Harte schools).</p> <p>Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, LA. BFM Corporation provided Route Topographic Surveying for this Drainage Evaluation Project (PW 2018-024-DR) in Jefferson Parish. The scope of services included a full Route Topographic Survey (includes all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work) from gutter line to gutter line along Metairie Road from the westerly apparent right-of-way (ROW) of Causeway Boulevard to easterly apparent R/W of Focis Street. The project encompassed approximately 10,400 linear feet, with cross-sections and elevations surveyed included as part of the scope. (\$18,350 (fee); 2020)</p>

TEC Professional Services Questionnaire

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

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

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


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

Bayou Segnette Drainage Pump Station No. 1 Survey Verification, Jefferson Parish, LA. BFM Corporation provided surveying services to verify horizontal and vertical control for the project site; an extension of a previous BFM project (#9303) where the firm provided topographic surveying services. Full documentation for the horizontal and vertical values of the control points established was provided. (\$550 (fee); 2020)

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

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

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
John Philip Thayer Procurement Director (Proposals & Project Management Support)	
Project Assignment:	
Project Management Support	
Name of Firm with which associated:	
 BFM CORPORATION, LLC Professional Land & Hydrographic Surveying	
Years' experience with this Firm:	
16 years (joined BFM in 2008); 17 years total (2007)	<i>BFM Corporation, LLC 2008 to present</i> <i>Delle Land Surveying 2007 to 2008</i>
Education: Degree(s)/Year/Specialization:	
Certificate, 2015, Land Surveying Services B.S., 2007, Physical Education, Trevecca Nazarene University	
Active Registration: Year first registered/discipline:	
N/A	
Other experience and qualifications relevant to the proposed Project:	
<p>Phil Thayer serves as BFM's Procurement Director, providing proposal preparation and Project Management Support, having considerable experience in field surveying services, including ALTA/as-built surveying, construction layout, boundary, topographic, cross-sections, GPS use, and numerous other surveying types.</p> <p>Mounes Subsurface Drainage – Phase I, Jefferson Parish, LA. BFM provided all requested topographic surveying services for Phase I of the Mounes Subsurface Drainage project, which extended from Dickory to Elmwood Park Boulevard). (\$26,240 (fee); 2017)</p> <p>Drainage Pump Station, Veterans North & South, Right-of-Way, 17th Street Canal, Jefferson Parish, LA. BFM prepared a topographic survey (with right of way & underground utilities locations) for this proposed pump station project. (\$26,540 (fee); 2014)</p> <p>Goose Bayou Drainage Pump Station, Lafitte, Jefferson Parish, LA. BFM Corporation provided boundary and topographic surveying services for the project. The scope of services included obtaining available title data, supplemented with courthouse research. BFM located property corners to establish rights-of-way, setting a closed traverse around the site, establishing Temporary Benchmarks (TBM), taking elevations, and plotting the location of improvements and topographic features, both natural and man-made. The scope of services included producing cross sections and plotting spot elevations on paving or other hard surfaces. (\$11,905 (fee); 2016)</p>	

TEC Professional Services Questionnaire

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

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

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

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

Morton & Ingrid Pump Station, Jefferson Parish, LA. BFM executed a topographic survey, beginning at the Morton & Ingrid Pump Station, with said survey running along Morton Street to Elizabeth Street then continuing along Elizabeth Street towards West Napoleon Avenue and ending at the Elizabeth Street Pump Station. (\$27,500 (fee); 2012)

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

West Bank Subsurface Drainage Improvement Project, Phase II, Bellemeade Boulevard to the Violet Canal Discharge, Jefferson Parish, LA. BFM provided topographic surveying for the project, which encompassed Bellemeade Boulevard from Briargrove to Brookmeade and Brookmeade from Bellemeade to the Violet Canal Discharge. (\$16,108 (fee); 2010)

Sena Drive Subsurface Drainage Improvements, Jefferson Parish, LA. BFM provided topographic surveying services for the Sena Drive Subsurface Drainage Improvements project, which extended along Sena Drive from West Esplanade Avenue (Canal No. 2) to Nero Street. (\$13,364 (fee); 2010)

Massachusetts Avenue Drainage Improvements, Jefferson Parish, LA. BFM provided topographic surveying services for the project, which extended from W Napoleon Avenue to Veterans Memorial Boulevard. (\$28,515 (fee); 2009)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Dawn Hoffman
Researcher/Archivist

Project Assignment:

Researcher/Archivist

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

15 years (joined BFM in 2009);
27 years total (1997)

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

Education: Degree(s)/Year/Specialization:

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

Active Registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

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

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

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

TEC Professional Services Questionnaire

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

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

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

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

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

Bayou Segnette Drainage Pump Station No. 1 Survey Verification, Jefferson Parish, LA. BFM Corporation provided surveying services to verify horizontal and vertical control for the project site; an extension of a previous BFM project (#9303) where the firm provided topographic surveying services. Full documentation for the horizontal and vertical values of the control points established was provided. (\$550 (fee); 2020)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Anthony Watson

CADD Technician (AutoCADD Drafting Services)

Project Assignment:

CADD Technician (AutoCADD Drafting Services)

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

13 years (joined BFM in 2011);
33 years total (1991)

BFM Corporation, LLC | 2011 to present
Krebs LaSalle Lemieux / GEC | 2008 to 2011
Doug Connally and Associates Land Surveying (Dallas, TX) | 1995-2008
Electrician | 1991 to 1995
City of Plano TX (Part-Time Drafting Services) | 1991

Education: Degree(s)/Year/Specialization:

Coursework - CAD, Avatech Solutions, Los Colinas, TX

Active Registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

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

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

Orange Lane Pump Station Project, Grand Isle, Jefferson Parish, LA. The project consists of a new storm water pumping station on the intersection of Orange Lane at Orleans Avenue in Grand Isle, Louisiana. The scope of services includes obtaining topographical survey information and the preparation of a drainage map for the project. Phase 1 of the project involved the topographic

TEC Professional Services Questionnaire

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

and right of way surveying services; BFM conducted a site topographic survey at the proposed lift station site and provided boundary surveying to determine rights of way. Phase 2 of the project established the Drainage Map. BFM located all drainage structures within the Limits of Survey; this included ditches, culverts, drain inlets, and catch basins. A drone survey was executed to gather a 25 ft elevation grid throughout the project area. (\$32,280 (fee); 2020)

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

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

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

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

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

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:	
34 years (joined BFM in 1990); 39 years total (1985)	<i>BFM Corporation, LLC 1990 to present</i> <i>Benson Mercedes Benz 1989 to 1990</i> <i>SECO Electric 1987</i> <i>Frishhertz Electric 1986 to 1987</i> <i>Plain Construction 1985 to 1986</i>
Education: Degree(s)/Year/Specialization:	
High School Diploma	
Active Registration: Year first registered/discipline:	
<i>American Traffic Safety Service Assn. – Traffic Flagger</i> <i>Basic OSHA Training Class Completion</i> <i>Transportation Work Identification Card (TWIC)</i>	
Other experience and qualifications relevant to the proposed Project:	
<p>Jay Barrios' surveying experience includes boundary, hydrographic, and topographic. He has been the Survey Crew Chief for thousands of projects and is one of the more experienced surveyors in the area. Further, Mr. Barrios has been involved on major transmission projects for Entergy and South Central Bell (AT&T).</p> <p>Coventry Drainage Pump Stations, River Ridge, Jefferson Parish, LA. BFM Corporation provided a Route Topographic Survey with Hydrographic Survey for the project, located in River Ridge, Louisiana. The levee and hydrographic survey area was noted as 400 feet wide (200 ft. in either direction of the extended centerline of Colonial Heights Road). The hydrographic survey extended 500 feet into the river from the water's edge. The full scope of the project also included research of public land records; location of property corners; establishing a baseline along the rear property line and; establishing Temporary Benchmarks. Existing improvements were located, as well as visible above ground utilities and those underground utilities with visible surface evidence. The survey further determined the depth, size, and type of pipes within surface observable drainage, sewerage, and water structures as established above. Trees were also located. Spot elevations were taken at 50-foot intervals within the Limits of Survey. (\$89,780 (fee); 2020)</p>	

TEC Professional Services Questionnaire

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

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

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

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

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

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

TEC Professional Services Questionnaire

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

PROJECT NO. 1

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

PROJECT NO. 2

Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Central Avenue Roadway Drainage & Water Main Improvements , Jefferson Parish, Louisiana Jefferson Parish Department of Capital Projects 1221 Elmwood Park Blvd Ste 906 Jefferson LA 70123 Neil Schneider , 504-736-6833 nschneider@jeffparish.net	BFM's scope of services consisted of verifying pipe sizes and inverts for drainage structures along the west side (only) of Central Avenue, which was located during a previous BFM project. BFM located any new drainage structures within the previous survey limits and determined the depth, size, and type of pipes within each drainage structure which were shown on the previous survey. This included catch basins, drop inlets, and ditch culvert pipes. Alterations/updates were noted on an updated version of the previous survey.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
April 2023	N/A	\$2,850 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Orange Lane Drainage Pump Station Project (Drainage Mapping), Grand Isle, Jefferson Parish, Louisiana</p> <p>AIMS Group, Inc. 4421 Zenith Street Metairie LA 70001</p> <p>Lowell Pitré, P.E., 504-887-7045 ljp@aimsgroupinc.com</p>	<p>The project consists of a new storm water pumping station on the intersection of Orange Lane at Orleans Avenue in Grand Isle, Louisiana. The scope of services includes obtaining topographical survey information and the preparation of a drainage map for the project. Phase 1 of the project involved the topographic and right of way surveying services; BFM conducted a site topographic survey at the proposed lift station site and provided boundary surveying to determine rights of way. Phase 2 of the project established the Drainage Map. BFM located all drainage structures within the Limits of Survey; this included ditches, culverts, drain inlets, and catch basins. A drone survey was executed to gather a 25 ft elevation grid throughout the project area.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
August 2020	N/A	\$32,280 (fee)

PROJECT NO. 4		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Mounes Street Subsurface Drainage (Phase IV, Dickory Avenue to Elmwood Park Boulevard), Jefferson Parish, Louisiana</p> <p>APTIM 2424 Edenborn Avenue Suite 450 Metairie LA 70001</p> <p>Gene S. Gillen, P.E., 504-832-4881 info@aptim.com</p>	<p>BFM provided topographic surveying services for Phase IV of the project, part of a multiphase program to improve drainage issues on Mounes Street. Phase IV of the project involved a topographic survey of the project, extending from Dickory Avenue to Elmwood Park Boulevard. Services provided by BFM included establishment of a baseline, setting temporary benchmarks (TBMs), elevation surveys, locating improvements and utilities as well as natural elements, and right-of-way surveying.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
December 2017	N/A	\$23,540 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Coventry Drainage Pump Stations, River Ridge, Jefferson Parish, Louisiana ECM Consultants, Inc. 4409 Utica Street Suite 200 Metairie LA 70006 Sunina Shrestha, P.E., 504-885-4080 sshrestha@ecmconsultants.com	BFM provided a Route Topographic Survey with Hydrographic Survey. The levee and hydrographic survey area was noted as 400 feet wide (200 ft. in either direction of the extended centerline of Colonial Heights Rd.). The hydrographic survey extended 500 ft. into the river from the water's edge. The full scope of the project also included research of public land records; location of property corners; establishing a baseline along the rear property line and; establishing Temporary Benchmarks. Existing improvements were located, as well as visible above ground utilities and those underground utilities with visible surface evidence. The survey further determined the depth, size, and type of pipes within surface observable drainage, sewerage, and water structures as established above. Trees were also located. Spot elevations were taken at 50-ft. intervals within the Limits of Survey.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
June 2020	N/A	\$89,780 (fee)

PROJECT NO. 6		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, Louisiana GEC, Inc. 3445 N Causeway Blvd Ste 401 Metairie LA 70002-3779 Jerome Lohmann, 504-207-6926 jlohmann@gecinc.com	BFM provided Route Topographic Surveying for this Drainage Evaluation Project (PW 2018-024-DR) in Jefferson Parish. The scope of services included a full Route Topographic Survey (includes all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work) from gutter line to gutter line along Metairie Road from the westerly apparent right-of-way (ROW) of Causeway Boulevard to easterly apparent R/W of Focis Street. The project encompassed approximately 10,400 linear feet, with cross-sections and elevations surveyed included as part of the scope.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
May 2020	N/A	\$18,350 (fee)

TEC Professional Services Questionnaire

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

PROJECT NO. 8		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
North Arnoult Drainage Pump Station Improvements, Jefferson Parish, Louisiana Hartman Engineering, Inc. 527 W. Esplanade Ave Suite 300 Kenner LA 70065 Rolland A. Mura, 504-466-5667 rmura@harteng.com	Project involved a boundary with topographic survey, establishing a baseline parallel to the right-of-way. Points of intersection set were referenced by 3-point ties to topographic features in the area. Two temporary benchmarks were established. Existing improvements were located, including utilities, piping, and natural elements. Building corners within the limits of survey were also located, as were property corners in order to determine the rights-of-way and property boundary limits.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
May 2019	N/A	\$6,870 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Avenue D Drainage Improvements (Phase VIII: Allo Street) , Metairie, Jefferson Parish, Louisiana Hartman Engineering, Inc. 16563 Airline Hwy Ste A&B Prairieville LA 70769 Jared Monceaux, P.E. , 225-313-4617 jmonceaux@harteng.com	BFM Corporation executed a Route Topographic Survey for the Allo Street project area, which extended from 4th Street to 6th Street. A baseline was established along the centerline of Allo Street, with Temporary Benchmarks at each intersection along the route. Cross sections taken on a 25 ft. grid. Existing improvements were located within the designated Limits of Survey, as were visible above-ground and underground utilities, piping, and natural features including trees and shrubbery.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
April 2019	N/A	\$12,855 (fee)

PROJECT NO. 10		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Westwego Drainage Pump Station No. 1 , Jefferson Parish, Louisiana Jefferson Parish Department of Drainage 1221 Elmwood Park Blvd Ste 907 Harahan LA 70123 Ben Lepine , 504-736-6759 blepine@jeffparish.net	BFM Corporation provided services for a Limited Topographic Survey at the project site, Westwego Drainage Pump No. 1. The scope of services first re-established Site Horizontal and Vertical control, as these were established as part of a previous BFM project (BFM No. 9730). Services next included locating existing improvements within the designated Limits of Survey, taking elevations and cross sections, and verification of piping and utilities.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
May 2018	N/A	\$4,725 (fee)

TEC Professional Services Questionnaire

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

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

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

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

CRITERIA 1 | PROFESSIONAL TRAINING AND EXPERIENCE

Established in 1982, **BFM Corporation, LLC, Professional Land & Hydrographic Surveying**, provides services to public & private concerns throughout Louisiana and the Gulf South. For over 40 years, BFM has provided surveying services covering all facets of engineering, construction, and forensics; topographic, and hydrographic, as well as drone-based surveying and high-definition laser scanning.

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

Our capabilities include the following and more:

- Topographic Surveying
- Drone Surveying
- Photogrammic & LiDAR and 3D Laser Scanning
- Bathymetric / Hydrographic Surveys
- Property, Boundary, and Right-of-Way Surveys
- Maps, Cross-Sections, & Data Sets; Benchmarks

TEC Professional Services Questionnaire

N. continued.

- Construction-Related Surveying and Builder's Package Surveys
- American Land Title Association (ALTA) Surveys

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

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

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

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

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

CRITERIA 2 | SIZE OF FIRM

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

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

TEC Professional Services Questionnaire

N. continued.

CRITERIA 3 | CAPACITY FOR TIMELY COMPLETION

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

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

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

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

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

CRITERIA 4 | PAST PERFORMANCE ON PARISH CONTRACTS

BFM Corporation 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 State 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 over 40 years with BFM. **He has provided professional surveying services for thousands of projects for and throughout Jefferson Parish.**

CRITERIA 5 | LOCATION OF THE PRINCIPAL OFFICE

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

TEC Professional Services Questionnaire

N. continued.

CRITERIA 6 | LEGAL STATEMENT

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

CRITERIA 7 | PRIOR SUCCESSFUL COMPLETION OF PROJECTS

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

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

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

Neil Schneider, CCM, P.E., Director, Capital Projects, Jefferson Parish Public Works Dept.

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

José A. Gonzales, CAO, City of Kenner

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

Angela DeSoto, P.E., Director of Engineering, Jefferson Parish

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

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

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

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

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

Ben Lapine, Acting Director, Department of Drainage, Jefferson Parish

(504-736-6661 | JPSewerage@jeffparish.net)

Greg Cromer, Mayor, City of Slidell

(985-646-4333 | gcromer@cityofslidell.org)

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

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: June 6, 2024

Section 3

Gulf South Engineering & Testing, Inc.

TEC Professional Services Questionnaire

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Provision of Routine Engineering Services for

Drainage Projects in Jefferson Parish

SOQ **24-015** | Resolution No. **144202**

B. Firm Name & Address:



Gulf South Engineering and Testing, Inc.

15 Veterans Memorial Boulevard | Kenner LA 70062

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

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

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

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

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

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

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

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

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

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

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

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

TEC Professional Services Questionnaire

G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.		
1. N/A		
2.		
H. Has this JOINT-VENTURE previously worked together? Please check: YES_____ NO_____ N/A		
I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.		
Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. N/A		
2.		
3.		
J. Please specify the total number of support personnel that may assist in the completion of the Project: 30 (all personnel will be available for assignment to the project)		

TEC Professional Services Questionnaire

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

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Chad M. Poché, P.E.

Executive Vice President / Registered Professional Geotechnical Engineer

Project Assignment:

Geotechnical Engineer / Principal In Charge

Name of Firm with which associated:



ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants

Years' experience with this Firm:

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

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

Education: Degree(s)/Year/Specialization:

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

Active Registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

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

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

TEC Professional Services Questionnaire

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

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

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

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


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

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

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

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

TEC Professional Services Questionnaire

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

TEC Professional Services Questionnaire

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

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

Lee Street Drainage Pump Station Improvements, City of Slidell, LA. Prepared a Geotechnical Exploration Report for the project site located at the junction of Lee Street and Front Street in Slidell, LA. Gulf South's scope includes drilling soil borings to 50 ft. in depth, laboratory testing, engineering analyses (soil bearing values, bedding & backfill, pile capacities, and estimates of settlement) and general construction procedures and recommendations. (\$4,000 (fee); 2022)

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

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

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

Chateau Transfer Station Upgrade, City of Kenner, LA. Geotechnical engineering services for the upgrades of an existing below grade sewer lift station (Chateau Transfer Station) in Kenner, LA. Gulf South's scope of services includes drilling two undisturbed soil borings to depths of 70 and 30 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$7,500 (fee); 2022)

TEC Professional Services Questionnaire

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

TEC Professional Services Questionnaire

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

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

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

N. Sibley Pump Station Improvements, Metairie, Jefferson Parish, LA. Provided construction materials testing for the project, located at the corner of N. Sibley Street and West Napoleon Avenue. Scope of work includes soil density tests, concrete inspection and testing, pile driving, pile load tests monitoring, vibration monitoring, and earthwork testing. (\$20,000 (fee); 2021)

Citrus Road and Greg Court Subsurface Drainage Improvements, Jefferson Parish, LA. Gulf South provided the materials testing and inspection during construction. Gulf South's scope of services included vibration monitoring, bedding and backfill testing, compaction/density tests, and concrete testing and inspection. (\$20,000 (fee); 2019)


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

Trudeau Drive at Canal No. 5 Drainage Improvements, Metairie, Jefferson Parish, LA. Gulf South provided the materials testing and inspection during construction. Gulf South's scope of services included vibration monitoring, bedding and backfill testing, compaction/density tests, and concrete testing and inspection. (\$10,000 (fee); 2019)

Parish Line Drainage Pump Station Improvements – Phase I, City of Kenner, Jefferson Parish, LA. Gulf South performed field and laboratory testing during construction of a new pump station in Jefferson Parish, Louisiana. Scope of services consisted of vibration monitoring, timber pile inspection at the site and during installation, performance of a pile load test, earthwork, and concrete testing & inspection. (\$10,000 (fee); 2018)

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

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Eric A. Paille, C.E.T., ACI Construction Services Manager	
Project Assignment:	
Construction Services Manager	
Name of Firm with which associated:	
<div style="display: flex; align-items: center;">  <div> ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants </div> </div>	
Years' experience with this Firm:	
13 years (joined Gulf South in 2011); 35 years total (1989)	<i>Gulf South Engineering and Testing, Inc. 2011 to present</i> <i>Ardaman and Associates, Inc. 2007 to 2011</i> <i>Soil Testing Engineers, Inc. 1988 to 2007</i>
Education: Degree(s)/Year/Specialization:	
High School Diploma	
Active Registration: Year first registered/discipline:	
<i>ACI-I Field Technician (since 1991; No. 929012)</i> <i>Certified Engineering Technician (since 1992)</i> <i>Nuclear Gauge Safety Training (since 1994; No. 061321)</i> <i>Pile Driving Analyzer/CAPWAP, OSHA 40 HAZWOPER</i>	
Other experience and qualifications relevant to the proposed Project:	
<p>Eric A. Paille, C.E.T., ACI, serves as Gulf South's Construction Services Manager as well as the manager of our Gonzales office. He has experience as a technician, inspector, and testing manager, and is knowledgeable in all aspects of construction materials testing and construction inspection. Mr. Paille has performed all applicable field and soil tests over the past 30+ years. In addition, he is certified in the safe use and handling of the nuclear density gauge. He received PDA training in 2003 and has knowledge of PDA testing along with significant experience with pile driving analyzers. Mr. Paille is one of the most knowledgeable people in our industry.</p> <p>St. Peter's Ditch – Phase IV (Pump Station at Clearview), Metairie, Jefferson Parish, LA. Project consisted of the construction of a new pump station and below grade culverts and piping for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Scope included performing pile plant inspection, pile monitoring during installation, vibration monitoring, concrete testing and inspection, earthwork testing and inspection including soil sampling and field density tests, and steel inspection. (\$110,000 (fee); 2016)</p> <p>N. Sibley Pump Station Improvements, Metairie, Jefferson Parish, LA. Gulf South provided construction materials testing for the project, located at the corner of N. Sibley Street and West</p>	

TEC Professional Services Questionnaire

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

Napoleon Avenue. Gulf South's scope of work includes soil density tests, concrete inspection and testing, pile driving, pile load tests monitoring, vibration monitoring, and earthwork testing. (\$20,000 (fee); 2021)

Clearview Parkway Drainage Project, Metairie, Jefferson Parish, LA. Project consisted of the construction of new drainage features for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Gulf South's scope of services included performing pile plant inspection, pile monitoring during installation, vibration monitoring, concrete testing and inspection, earthwork testing and inspection including soil sampling and field density tests, and steel inspection. (\$30,000 (fee); 2016)

FEMA Submerged Roads Program (CMT): Phase 3, Metairie, Jefferson Parish, LA. Perform asphalt and roadway testing and inspection as requested. Scope of services provided by Gulf South included asphalt and/or concrete testing and inspection, field density tests, on-site inspection and documentation, and laboratory testing. Gulf South also provided asphalt batch plant inspection. (\$10,000 (fee); 2016)

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


Waggaman Subsurface Drainage Improvements, Waggaman, Jefferson Parish, LA. Project consisted of the construction of new below grade drainage features and piping for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Our scope of services included performing pile plant inspection, pile monitoring during installation, vibration monitoring, concrete testing and inspection, earthwork testing and inspection including soil sampling and field density tests, and steel inspection. (\$7,000 (fee); 2016)

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

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

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

TEC Professional Services Questionnaire

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

TEC Professional Services Questionnaire

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

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

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

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

Wastewater Treatment Plant Improvements, Eden Isle Subdivision, Slidell, St. Tammany Parish, LA. Geotechnical engineering services for the construction of a new elevated storage building housing six blower units and slab-on-grade supported water storage, concrete tank within the wastewater treatment plant off Lakeview Drive in Slidell, LA. Gulf South's scope includes drilling two undisturbed soil borings to depths of 40 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$7,500 (fee); 2022)

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

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Brandon A. Paille, ACI Construction Materials Testing (CMT) Supervisor/Project Manager	
Project Assignment:	
Construction Materials Testing (CMT) Supervisor/Project Manager	
Name of Firm with which associated:	
<div style="display: flex; align-items: center;">  <div> ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants </div> </div>	
Years' experience with this Firm:	
5 years (2012-2016; 2023 to present); 14 years total (2010)	<i>Gulf South Engineering and Testing, Inc. 2023 to present</i> <i>Ascension Parish Sheriff's Office 2016 to 2023</i> <i>Gulf South Engineering and Testing, Inc. 2012 to 2016</i> <i>Ardaman and Associates, Inc. 2010 to 2012</i>
Education: Degree(s)/Year/Specialization:	
<i>High School Diploma</i>	
Active Registration: Year first registered/discipline:	
APNGA Nuclear Gauge Safety ACI Field Technician Level 1 OSHA Safety Training – 8 hr.	
Other experience and qualifications relevant to the proposed Project:	
<p>Brandon A. Paille, ACI has performed soil laboratory testing consisting of unconfined compression strength tests, triaxial strength tests, hydrometers, Atterberg limits, organic contents, moisture contents, proctor compaction tests, sieve analyses, as well as extrusion of samples. Mr. Paille's field experience includes soil inspection and testing consisting of nuclear density testing, soil boring logging, concrete testing and inspections, timber and precast pile logging and vibration monitoring. In Mr. Paille's years in the construction materials testing industry, he has obtained a vast amount of knowledge and experience which makes him an integral part of our Gulf South Team.</p> <p>Taft Park Drainage Improvements, Jefferson Parish, LA. Perform inspection and testing during construction of various drainage improvements at Taft Park. Scope of services provided by Gulf South included asphalt and/or concrete testing and inspection, field density tests, on-site inspection and documentation, and laboratory testing. (\$25,000 (fee); 2015)</p> <p>New Pump/Lift Station, Airline Park Boulevard at West Metairie Avenue, Jefferson Parish, LA. Geotechnical investigation for a new pump/lift station for Jefferson Parish near the intersection of Airline Park Blvd. and W. Metairie Avenue. Scope of work consisted of performing one soil boring to 50 feet, laboratory testing, and geotechnical engineering analyses consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction recommendations. (\$5,000 (fee); 2013)</p>	

TEC Professional Services Questionnaire

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

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

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

New North Terminal – New Pump Station, Louis Armstrong New Orleans International Airport, LA. Gulf South performed field and laboratory testing during construction of a new Pump Station at the New North Terminal at the Louis Armstrong New Orleans International Airport in Kenner, Louisiana. Gulf South provided QA oversight of the contractor for the owner for this \$1.2 billion project which consists of the construction of a new terminal facility including a new 800,000 sf building, vehicle ramps, parking, etc. QA inspection consists of pile monitoring, concrete inspection and testing, earthwork testing and inspection, and steel inspection. (\$100,000 (fee); 2019)

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

Bucktown Paddlers Launch, Metairie, Jefferson Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes building earthwork, paving & concrete, concrete testing, soil density tests, pile inspection and modeling, and vibration monitoring. (\$15,000; 2023)

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

Kenner Discovery School, Kenner, LA. Gulf South provided construction materials testing and inspection during construction of the project located at 201 Vintage Drive in Kenner. Gulf South's scope of work includes concrete testing and steel inspection. (\$1,028 (fee); 2022)

New North Terminal – Roads, Louis Armstrong New Orleans International Airport, LA. Gulf South performed field and laboratory testing during construction of various roads at the New North Terminal at the Louis Armstrong New Orleans International Airport in Kenner, Louisiana. Gulf South provided QA oversight of the contractor for the owner for this \$1.2 billion project which consists of the construction of a new terminal facility including a new 800,000 sf building, vehicle ramps, parking, etc. QA inspection consists of pile monitoring, concrete inspection and testing, earthwork testing and inspection, and steel inspection. (\$250,000 (fee); 2019)

TEC Professional Services Questionnaire

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

PROJECT NO. 1

Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:
Woodlake Drainage Pump Station - Geotechnical Exploration Report, Kenner, Jefferson Parish, Louisiana MSMM Engineering, LLC 7640 S. Carrollton Ave Ste 220 New Orleans LA 70119 Scott G. Chehardy, P.E., 985-233-9763 schehardy@msmmeng.com	Prepared a Geotechnical Exploration Report for the project which consisted of a new drainage pump station located in Kenner, LA. Access to the canal was via Lake Pontchartrain. During the Field investigation, Gulf South drilled multiple undisturbed soil borings with one performed in the canal and the remaining on land. Geotechnical laboratory testing (ASTM standards) was performed. Following the collection of the field and laboratory data, evaluations necessary to characterize the subsoil conditions of the site were performed; findings, conclusions, and recommendations were presented in the final report.
Completion Date (Actual or estimated:)	Estimated Cost:
	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%; text-align: center;">Entire Project:</div> <div style="width: 45%; text-align: center;">Work for which Firm was Responsible:</div> </div>
March 2024	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%; text-align: center;">N/A</div> <div style="width: 45%; text-align: center;">\$48,000 (fee)</div> </div>

PROJECT NO. 2

Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:
Midway at Soniat Canal Pump Station Elevator Generator Platform (Silver Oak Lane), Harahan, Jefferson Parish, Louisiana Burk-Kleinpeter, Inc. 4176 Canal Street New Orleans LA 70119 Henry M. Picard, III, P.E., 504-486-5901 hpicard@bkusa.com	Geotechnical engineering services for the construction of a new elevated generator platform at the Midway Soniat Canal pump station off Silver Oak Lane in Harahan, LA. Gulf South's scope of services includes drilling a single undisturbed soil boring to a depth of 100 feet below the ground surface, laboratory testing, engineering analyses (pile capacities & settlement) and general construction procedures and recommendations.
Completion Date (Actual or estimated:)	Estimated Cost:
	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%; text-align: center;">Entire Project:</div> <div style="width: 45%; text-align: center;">Work for which Firm was Responsible:</div> </div>
December 2022	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%; text-align: center;">N/A</div> <div style="width: 45%; text-align: center;">\$7,500 (fee)</div> </div>

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Mississippi River Discharge Pump Station , River Ridge, Jefferson Parish, Louisiana ECM Consultants, Inc. 1301 Clearview Parkway Suite 200 Metairie LA 70001 Susina Shrestha, P.E. , 504-885-4080 sshrestha@ecmconsultants.com	Gulf South provided geotechnical engineering services for the construction of a new pump station and force main discharge pipeline between Coventry Court and Lee Court in River Ridge. Scope includes drilling four undisturbed soil borings (one at 100 ft., one at 80 ft., and two at 30 ft.; all below ground surface), laboratory testing, engineering analyses (soil bearing values, pile load capacities, settlement estimates, retaining structure recommendations, slope stability analyses) and general construction procedures and recommendations. Pump station was located on flood side of the Mississippi River levee with discharge pipes crossing the levee to the protected side.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
December 2022	N/A	\$35,000 (fee)

PROJECT NO. 4		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
N. Sibley Pump Station Improvements , Metairie, Jefferson Parish, Louisiana Digital Engineering 527 W Esplanade Ave Ste 200 Kenner LA 70065 Frank T. Liang, P.E. , 504-468-6129 fliang@deii.net	Gulf South provided construction materials testing for the project, located at the corner of N. Sibley Street and West Napoleon Avenue. Gulf South's scope of work includes soil density tests, concrete inspection and testing, pile driving, pile load tests monitoring, vibration monitoring, and earthwork testing.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
March 2021	N/A	\$20,000 (fee)

TEC Professional Services Questionnaire

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

PROJECT NO. 6		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Lake Cataouatche Drainage Pump Station , Avondale, Jefferson Parish, Louisiana Jefferson Parish 1221 Elmwood Park Blvd Ste 907 Jefferson LA 70123 Mitch Theriot, P.E. , 504-736-6742 mtheriot@jeffparish.net	Geotechnical engineering services for the construction of a replacement for the Lake Cataouatche drainage pump station in Avondale, LA. Gulf South's scope includes drilling a single undisturbed soil boring (depth of 100 ft bgs), laboratory testing, engineering analyses and general construction procedures and recommendations. Pump station is close to a USACE floodwall so coordination and geotechnical engineering analyses were required to show the new pump station would not adversely affect the integrity of the floodwall.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
October 2019	N/A	\$12,500 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Lake Cataouatche Drainage Pump Station Replacement (Chighizola Lane), Grand Isle, Jefferson Parish, Louisiana</p> <p>Principal Engineering, Inc. 1011 N Causeway Blvd Ste 19 Mandeville LA 70471</p> <p>André C. Monnot, P.E., 985-624-5001 andre@pi.aec.com</p>	<p>Geotechnical engineering services for the construction of a replacement Lake Cataouatche drainage pump station at the end of Chighizola Lane in Grand Isle. Gulf South's scope includes drilling one undisturbed soil borings to a depth of 80 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. Pump station is close to a USACE floodwall so coordination and geotechnical engineering analyses were required to show the new pump station would not adversely affect the integrity of the floodwall.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
May 2020	N/A	\$7,500 (fee)


PROJECT NO. 8		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Verrett Canal Slope Instability Project, West Bank Drainage Department, Harvey, Jefferson Parish, Louisiana</p> <p>Jefferson Parish Engineering Department 1221 Elmwood Park Blvd Ste 802 Jefferson LA 70123</p> <p>Clinton Hotard, 504-736-6500 chotard@jeffparish.net</p>	<p>Geotechnical engineering services for the potential solution (i.e. retaining wall, etc.) for the surface movement at the top slope of Verrett Canal located at 89 Natchez Trace in Harvey, LA. Gulf South's scope includes drilling a single undisturbed soil boring (depth of 60 ft. bgs), laboratory testing, engineering analyses and general construction procedures and recommendations.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
July 2020	N/A	\$5,000 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Drainage Infrastructure Improvements, South Avondale Subdivision , Avondale, Jefferson Parish, Louisiana Phoenix Global Construction 2901 Independence St Ste 103 Metairie LA 70006 Jack Lo , 504-883-9021 phoenixglobal@bellsouth.net	Geotechnical investigation for drainage improvements on S. Jamie Boulevard in Avondale, LA. Gulf South's scope includes drilling five undisturbed soil borings to depths of 20 feet, lab testing, and engineering analyses including allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction procedures and recommendations.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
January 2018	N/A	\$7,000 (fee)

PROJECT NO. 10		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Drainage Improvements, Citrus Road & Greg Court , Metairie, Jefferson Parish, Louisiana Buchart Horn 18163 E Petroleum Drive, Suite A Baton Rouge LA 70809 Alan Krouse, P.E. , 225-308-2009 akrouse@bucharthorn.com	Geotechnical investigation for drainage improvements (2000 lf) along Citrus Road & Greg Court (to Jefferson Highway) in Metairie, LA. Gulf South's scope includes pavement coring and drilling five undisturbed soil borings each to 20 feet below ground surface, lab testing, and engineering analyses (including allowable soil bearing values, bedding and backfill recommendations), estimates of settlement, pavement design recommendations, and general construction recommendations.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
May 2017	N/A	\$8,500 (fee)

TEC Professional Services Questionnaire

M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.		
Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1.	<div style="border: 1px solid black; padding: 10px; margin: 5px;"> <i>Gulf South Engineering and Testing, Inc. is not currently, nor has it previously been involved, in litigation with Jefferson Parish.</i> </div>	
2.		
3.		
4.		
N. Use this space to provide any additional information or description of resources supporting Firm's qualifications for the proposed project.		
<div style="display: flex; align-items: center;">  <div> ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants </div> </div> <div style="background-color: black; color: white; padding: 5px; margin-top: 10px;"> CRITERIA 1 PROFESSIONAL TRAINING AND EXPERIENCE </div> <p>Gulf South Engineering and Testing, Inc. (Gulf South) is a geotechnical engineering and construction materials testing and inspection company which began operations in 2011. Since that time, we have grown to two offices and nearly three dozen employees.</p> <p>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.</p> <p>Gulf South is a woman-owned, Hudson Initiative-certified small entrepreneurship in Louisiana. Our laboratory is AASHTO and CCRL certified and USACE validated.</p> <p>Geotechnical Engineering Services</p> <p>Gulf South's ownership and senior management have decades of combined experience in the profession and have completed thousands of projects. One of Gulf South's Principals, Chad M. Poché, P.E., a founding principal and Professional Engineer registered in Civil Engineering in Louisiana and Mississippi, has specific and extensive training & experience in geotechnical engineering. He has three decades of experience in planning, administering, and conducting geotechnical investigations.</p>		

TEC Professional Services Questionnaire

N. continued.

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

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

Field Investigation Services

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

Laboratory Testing Services

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

Construction Materials Testing & Inspection

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

- Fill and base compaction and density testing
- Vibration monitoring

TEC Professional Services Questionnaire

N. continued.

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

We have provided construction testing 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 North Terminal** project.

CRITERIA 2 | SIZE OF FIRM

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

CRITERIA 3 | CAPACITY FOR TIMELY COMPLETION

Activity is dependent on the scope of work as well as site access and conditions, however; typically soil borings can be started within one week of receiving notice to proceed with a final product delivered within 3 to 4 weeks of completing the borings. Gulf South's workload & scheduling, coupled with our headquarters being nearby, will allow for assignment of key personnel shortly after any project is assigned.

CRITERIA 4 | PAST PERFORMANCE ON PARISH CONTRACTS

Gulf South has worked both directly and indirectly for various Jefferson Parish Departments (Public Works, Engineering Department, Drainage Department, Jefferson Parish School Board, etc.) throughout our history. 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..

CRITERIA 5 | LOCATION OF THE PRINCIPAL OFFICE

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

TEC Professional Services Questionnaire

N. continued.

CRITERIA 6 | LEGAL STATEMENT

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

CRITERIA 7 | PRIOR SUCCESSFUL COMPLETION OF PROJECTS

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

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

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

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

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

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

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

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

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

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

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

Signature: _____

Print Name: Chad M. Poché, P.E.

Title: Executive Vice President

Date: June 6, 2024

Section 4

IMC Consulting Engineers, Inc.

TEC Professional Services Questionnaire

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

B. Firm Name & Address:

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

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.

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

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

*All of our Engineers are Specification Writers.

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

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

TEC Professional Services Questionnaire

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

1.

2.

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

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

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

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

TEC Professional Services Questionnaire

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

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Project Assignment:

Name of Firm with which associated:

Years' experience with this Firm:

Education: Degree(s)/Year/Specialization:

Active registration: Year first registered/discipline:

Other experience and qualifications relevant to the proposed Project:

Other Experience and Qualifications Relevant to the Proposed Project (*continued*)

Estelle 1 Pump Station Modifications

Designed and specified electrical and SCADA systems for the replacement of three 200 HP drainage pump motors. Design included power, lighting, controls, instrumentation, and SCADA communications design.

Elmwood Pumping Station Engine Replacement

Designed the electrical systems associated with the replacement of 8 diesel drive units, replacement of 8 remote radiators, and refurbishing 8 right angle gear boxes. Design included modifications to existing MCC equipment to accommodate larger radiators and additional pre-lube pumps for right-angle gears. Existing feeders were utilized to feed new distribution load centers for each engine, which in turn supply power to ancillary loads such as battery chargers and engine heaters. Modifications to existing Murphy Controls were implemented so that existing engine and PLC controls could interface factory-installed, skid-mounted engine controls, sensors, and safeties. Existing shaft speed sensors were maintained for existing SCADA systems to be able to continue to monitor engine speed remotely.

Veterans Boulevard Pumps

Designed and specified electrical power, control, and SCADA systems for drainage booster pumping stations (3 total stations – 2 at Veterans and 1 at West Esplanade) to be located near the 17th St. Canal at Veterans Blvd. and West Esplanade Ave. Each station consists of (2) electric motor-driven pumps ranging from 125 HP to 250 HP each. Design included primary and full standby power systems for each station, PLC pump controls, instrumentation, and SCADA system.

Jefferson Parish Dept of Drainage-Hero Pump Station-Standby Power Automation

Designed modifications to existing medium voltage switchgear and medium voltage generator controls to allow for automatic transfer and paralleling of generators to the station when utility power is unavailable. Design included replacement of existing generator controls with PLC-based controls, the addition of synchronization logic and controls to the existing switchgear, and replacement of existing electromechanical protection relays with digital, programmable GE Multilin relays. IMC is the Prime Consultant for this project, and Paul will be serving as the Project Manager during construction.

Fronting Protection - Bonnabel and Suburban Pump Stations

Designed and specified power, lighting, and PLC-based controls associated with the addition of electrically-actuated sluice gates at the end of the discharge tubes for the horizontal pumps at PLC system for remote control of closure gates from the Pump Station or the Bonnabel and Suburban Pumping Stations. Design included interface with existing Allen-Bradley Safe House.

Parish Line Pumping Station

Designed and specified power, lighting, instrumentation, control, and SCADA systems for an addition to the existing station. The addition consisted of a diesel-driven vertical pump and associated support systems, such as compressed air for engine starting, gear lubrication and cooling, and diesel fuel storage and transfer. The design included provisions for three additional diesel-driven vertical pumps in the future. Location of the station required designs associated with the relocation of the medium voltage electrical service to the station. Project design features of special note included medium voltage pad-mounted switchgear, PLC equipment for complete monitoring and control of the station locally or remotely from Duncan Pumping Station, an expansion of the video surveillance system, motorized trash screen cleaner controls, fuel controls, engine controls, and gear vibration monitoring.

Ascension Parish – Marvin Braud Pump Station - Enhanced Flood Protection

Designed and specified electrical modifications to the station to incorporate the addition of sluice gates at pump discharge tubes for prevention of water backflow into the suction basin from the discharge basin. Project also included electrical relocations North of the station to accommodate a new flood wall.

OSP-05 - Addition of a New Pumping Station and Stormproofing of Existing Pumping Station 5, Orleans Parish

Designed and specified electrical, communication, instrumentation and control systems associated with the construction of a new 600 CFS drainage pumping station and the storm proofing of existing Drainage Pumping Station 5. New pumping station consisted of two, 1500 HP electric motor-driven drainage pumps and associated equipment. Electrical design for the new pumping station included a new electrical service, normal power systems, a 4 MW standby generator for full station backup, a 400 kW standby generator for house power, medium voltage switchgear and distribution, power factor correction capacitors for drainage pump motors, reactive starting of pump motors with 80% tap, grounding systems (including a building counterpoise), DC power system with battery charging equipment configured to allow DC system power to be available from station batteries or either of two battery chargers, site lighting, and building lighting. Communication design for the new pumping station included connections to the phone system serving the existing pumping station 5, audible / visible "phone ringing" notification devices, and intercom equipment for communications between the existing and new pumping stations. Instrumentation design included power monitoring and protection via digital relays. Control system design for the new station included switchgear-based start / stop control of pump motors, control of fans and dampers with associated interlocks for building ventilation and with provisions for key-switch overrides, remote control consoles for motor, generator and switchgear power monitoring and control, and a "bubbler" type level monitoring and pump automation system. All electrical equipment for the new station was located above the design flood elevation and all exterior equipment was specified to withstand hurricane force winds. Design for the existing Pumping Station 5 included storm proofing measures such as conduit seals, relocation of electrical to facilitate

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Project Assignment:	
Name of Firm with which associated:	
Years' experience with this Firm:	
Education: Degree(s)/Year/Specialization:	
Active registration: Year first registered/discipline:	
Other experience and qualifications relevant to the proposed Project:	

Other Experience and Qualifications Relevant to the Proposed Project (continued)

Cousins Booster Pumping Station – Jefferson Parish

Electrical design of sewerage forced main triplex station (3-125 h.p.) and support systems including secondary selective service switching scheme. Required dual utility service with transfer facilities, motor controls, lighting, and miscellaneous power.

Freshwater Bayou Lock Electrical Renovation, Vermillion Parish

Designed total renovation of this COE Lock in south Louisiana. Included electrical service, distribution system, lighting, controls, navigation lighting, generation, etc.

Catfish Point Sector Gate Renovation, Cameron Parish

Designed total renovation of this COE freshwater/storm water control structure. Included electrical service, distribution system, lighting, controls, navigation lighting, generation, etc.

Drainage Pumping Station No. 6, Orleans Parish

Design of electrical modifications at Drainage Pumping Station No. 6, which included 14 sluice gates (motors & controls), lighting, and miscellaneous power.

Drainage Pumping Station No. 6 - Add Two 3750 KW Generators, Orleans Parish

Electrical design of the installation of two new 3750 KW generators for this major S&WB Drainage Pumping Station. The design included tying the new generators into the existing electrical system at Pumping Station #6. It also included providing a new control and monitor in the existing control station to monitor the status of the new generators. These generators provide emergency power to large vertical pumps that pump water from the 17th Street canal.

LADOTD Renovation of the Mechanical & Electrical System Associated with the Houma Tunnel, Terrebonne Parish

Under this work statement IMC prepared construction documents to replace all pumping (10 drainage pumps/motors) and electrical gear including all controls, wiring, etc. within the facility. Responsible for all electrical design for total renovation of these pumping facilities (three stations) associated with the existing Tunnel. System including service entrance switchgear, motors, controls, lighting and power distribution.

LADOTD - Renovation of Highway 190 Pumping Station, West Baton Rouge Parish

Electrical design for total renovation of this pumping facility including motors, controls, electrical service, lighting and power distribution.

Mini-System Improvements Sewerage System, Jefferson Parish

Electrical design of numerous sewerage lift and booster stations for Jefferson Parish. Approximately 30 - 40 stations, duplex and triplex, submersible, wet/dry well and above ground facilities.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Project Assignment:
Name of Firm with which associated:
Years' experience with this Firm:
Education: Degree(s)/Year/Specialization:
Active registration: Year first registered/discipline:
Other experience and qualifications relevant to the proposed Project:

Other Experience and Qualifications Relevant to the Proposed Project (*continued*)

Elmwood Drainage Pump Station

Supervised and acted as the Professional of Record for the mechanical system design. This multi-year project consisted of replacing eight (8) existing diesel engines, remote radiators and mufflers that drive the eight (8) vertical turbine drainage pumps at the Elmwood Pump Station. As part of the mechanical design, the existing diesel driven engines, their remotely mounted radiators and mufflers are being replaced. The design included replacement, or modifications, to the fuel, compressed air and cooling water piping systems associated with the new engines, refurbishment of the existing right angle gear reducers and new drive shafts to connect the engines to the gear reducers. The project was designed in phases to replace two units at a time so as not to drastically reduce the pumping capacity of the station.

USACE Levee Inspections

Chip provided Inspections of (56) storm water pumping stations in the metro New Orleans area. IMC was responsible for inspecting the mechanical systems including all pumps, engines, motors, fuel systems, ventilation, compressed air systems, vacuum pumps, backflow prevention and any other mechanical systems within the pump stations. IMC was charged with observing all mechanical systems in operation and generating a report on their condition and required repairs or improvements. The project deliverables included a report on the system conditions and recommendations on addressing any noted deficiencies. The project spanned approximately one year and provided valuable insight into the advantages and disadvantages of the various pump station types.

Orleans Parish Storm Proofing

Supervised and acted as the Professional of Record for the mechanical system design. After Hurricane Katrina, the United States Army Corps of Engineers (USACE) undertook a project to make as many of the New Orleans Drainage Pump Station as flood resistant as possible. As part of the mechanical design, IMC designed and specified the fuel storage and distribution systems, compressed air system cooling water systems associated with the large diesel driven standby generators that were installed at many of the pump stations. The design included installation of 30,000-gallon aboveground fuel tanks, 3,000-gallon day tanks and associated piping, pumps and controls for the diesel fuel oil supply to the generators, and diesel driven and electric driven compressed air systems associated with the diesel engine “air-start” systems. This included compressors, controls, air receivers and associated piping.

17th Street Canal, London Avenue Canal and Orleans Avenue Canal Closure Structures, Orleans Parish

Supervised and acted as the Professional of Record for the mechanical system design. The design consisted of mechanical systems to support the diesel driven pumps, including 40,000 gallons of above ground diesel fuel storage and transfer systems, and the design of domestic water and sanitary systems associated with the personnel offices to serve the remainder of the building loads.

Parish Line Pumping Station, Jefferson Parish

Supervised and acted as the Professional of Record for the design of the mechanical systems associated with an addition to the existing drainage station. The project consisted of a new structure adjacent to the existing station for the purpose of housing a single, diesel-engine driven vertical pump. Design included provisions for expanding the new structure to include three future pumps, for a total of four pumps in the station addition. Mechanical design included additions and modifications to the existing

Chip Higbee, P.E.
Principal

fuel storage and transfer system, a new fuel polishing system, a compressed air system for diesel engine starting and discharge tube valve actuation, domestic water service modifications, an emergency raw-water system, gear oil cooler piping, and bearing water piping. Design also included piping to and from keel coolers submersed in the suction basin for engine cooling and exhaust piping from the diesel engine to the silencer mounted on the exterior of the station.

Fronting Protection for Ollie Pumping Station, Plaquemines Parish

Supervised and acted as the Professional of Record for all mechanical system designs. The design included specified modifications to the existing compressed air piping and design of new compressed air piping system. It also included modifications to the cooling water piping that served keel coolers for existing engines.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Project Assignment:
Name of Firm with which associated:
Years' experience with this Firm:
Education: Degree(s)/Year/Specialization:
Active registration: Year first registered/discipline:
Other experience and qualifications relevant to the proposed Project:

Other Experience and Qualifications Relevant to the Proposed Project (*continued*) Jefferson Parish

“Parish-Line” Pump Station

This project was an expansion to the existing pump station located at the Parish Line Canal. A single drainage pump was being added in a new building. The project was designed to allow for expansion to a total of four new pumps. The design included a new 12,000 gallon diesel fuel yard to augment the existing fuel storage on site, new domestic water service modifications, new domestic water booster pumps, new raw water pumps to serve the existing, new and future drainage pumps bearing systems (This system will act as back up to the domestic water system.), new compressed air system to start the diesel driven drainage pump, new fuel distribution to serve the new and future diesel engines, and new diesel engine exhaust system.

Jefferson Parish Elmwood Drainage Pump Station

This on-going project consisted of replacing eight existing diesel engines, remote radiators and mufflers that drive the eight vertical turbine drainage pumps at the Elmwood Pump Station. As part of the mechanical design; the existing diesel driven engines and their remotely mounted radiators and mufflers are being replaced. The design included replacement or modifications to the fuel-compressed air and cooling water piping systems associated with the new engines, refurbishment of the existing right angle gear reducers and new drive shafts to connect the engines to the gear reducers. The project has been designed in phases to replace two units at a time so as not to drastically reduce the pumping capacity of the station.

New Orleans Sewerage & Water Board Drainage Pump Station No. 5

After Hurricane Katrina, the United State Army Corps of Engineers (USACE) undertook a project to build a new drainage pump station to augment the existing pump station that was on the site. As part of the mechanical design, we designed and specified the fuel storage and distribution system, compressed air system, cooling water system that served the large diesel driven standby generators that were part of the new pump station. The design included installation of a 15,000-gallon aboveground fuel tank, a 3,000 gallon day tank and associated piping, pumps and controls for the diesel fuel oil supply to the generator. The design also included diesel driven and electric driven compressed air systems associated with the diesel engine “air-start” systems. This included compressors, controls, air receivers and associated piping. Remote air-cooled radiators were provided to cool the generator’s diesel engine along with aftercooler and jacket water piping. New potable water system was designed using a variable frequency driven booster pump to maintain required water pressure at the station. Exhaust piping was designed to serve the generator’s diesel engine. Upgrades were designed for the existing drainage pump station providing sump pumps to help “stormproof” the building and a new domestic water booster pump to serve the existing station’s water needs.

Bayou Segnette Pumping Station

This was an addition to the existing drainage pumping station. The plumbing design included all mechanical systems for the support of the diesel engine driven drainage pumps. Systems included a compressed air system for starting the main diesel engines that operate the drainage pumps, engine and gear cooling water systems, domestic water and sanitary systems, instrument air systems, vacuum pump priming system, pump bearing lubrication water system, a 30,000 gallon above ground diesel fuel storage and transfer system, waste oil system, and sump pumps to serve the station’s basement. The design also included the air distribution system required for the suction basin and discharge basin water level manometers and discharge tube vacuum breaker system.

Westminster Pumping Station Generator Building

The design included compressed air, fuel storage and distribution systems to support the 2.5 mega watt

Louis Pastor, CIPE/CPD
Plumbing Designer

generator. The design consisted of compressed air for engine starting, a 40,000-gallon fuel oil storage system with transfer pumps and distribution piping, engine exhaust piping, engine cooling system, instrument air, domestic water and well water (750 ft. well), and sewerage piping.

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:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

TEC Professional Services Questionnaire

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

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1. IMC has no prior or on-going litigation with Jefferson Parish.		
2.		
3.		
4.		

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

IMC Consulting Engineers, Inc. has enjoyed the opportunity to provide professional services for projects within Jefferson Parish since being established in 1988. IMC has provided extensive electrical and mechanical work for Jefferson Parish working both as a prime and sub-consultant, including mechanical and electrical designs for Drainage Pumping Stations within the Parish.

We hope the responses in the SOQ demonstrate IMC's recent and extensive experience providing mechanical and electrical engineering services for Drainage Pumping Stations. Many of the highlighted projects have been with, or directly for, Jefferson Parish. Some examples of recent Drainage projects within Jefferson Parish include electrical improvements and Hero Pump Station, the addition to Parish Line Pumping Station, engine replacements at Elmwood Pumping Station, and new booster pumping stations along Veterans Blvd. near the 17th St. Canal (not yet constructed). Outside of Jefferson Parish, IMC has designed mechanical and/or electrical systems for drainage projects at Marvin Braud Pumping Station in Ascension Parish, Ollie Pumping Station in Plaquemines Parish, and DPS-5 in Orleans Parish, to name a few.

We look forward to continuing to serve Jefferson Parish in this capacity.

Please see next page for additional information.

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

Signature: Paul S. Vlosich Print Name: Paul S. Vlosich

Title: Principal and Director Of Municipal Projects Date: 6/17/2024

N. (continued) Use this space to provide any additional information or description of resources supporting firm's qualifications for the proposed project:

1. PROFESSIONAL TRAINING AND EXPERIENCE – DRAINAGE

IMC has performed mechanical and electrical designs and construction administration at Jefferson Parish Drainage Pump Stations for over 30 years.

IMC Consulting Engineer's Electrical staff includes Principals, Richard Nichols, P.E. (30+ years of experience) and Paul Vlosich, P.E. (25+ years of experience). IMC also employs four Electrical Designers:

- Daniel Walker (30+ years of experience)
- Garret Fried (7+ years of experience)
- Peter DiMarco, Electrical Engineering Intern

IMC's Mechanical staff includes Principals Eugene "Chip" Higbee, P.E. (30+ years of experience) and Matthew Wender, P.E. (15 years of experience). IMC also employs two additional registered Professional Mechanical Engineers, and two Mechanical Designers:

- Joseph Garon, P.E. (7+ years of experience)
- Matthew Garon, P.E. (7+ years of experience)
- Russell Troncoso (5+ years of experience)
- Quynh Nguyen

Louis Pastor, CIPE/CPD (40+ years of experience) continues to provide IMC with design assistance on selected projects on a part-time basis. Louis specializes in plumbing engineering and is certified in that area. Louis has specialized experience in the design of compressed air systems and fuel storage and distribution systems.

All of IMC Engineers and Designers provide field observation and inspection of projects under construction on a regular basis.

All of our Engineers and Designers are required to obtain a minimum of 15 hours of professional development training each year, eight of which must be associated with life safety training (NFPA 101, IBC, NFPA 72, NFPA 13, etc.), and at least one hour in professional ethics.

While we hope that our responses demonstrate IMC's experience in the design of electrical and mechanical systems for drainage pump stations, as well as our experience providing professional services to Jefferson Parish, we also want to highlight our experience communicating with the Parish's preferred PLC-based Pump Control and SCADA System provider, Prime Controls, whose PLC equipment we are familiar with, and whom we have a great working relationship with.

N. (continued) Use this space to provide any additional information or description of resources supporting firm's qualifications for the proposed project:

2. CAPACITY FOR TIMELY COMPLETION OF NEWLY ASSIGNED WORK

IMC is presently utilizing AutoCAD & Revit drafting software and custom- designed templates specifically tailored to electrical and mechanical system drafting. The original template was designed in 1988 and continues to be upgraded by IMC. IMC utilizes MS Word processing software for specifications and general correspondence and utilizes Microsoft Excel electronic spreadsheet for efficient calculations and tabulation of data.

Based upon our experience with past, similar contracts with Jefferson Parish, we project that this contract would constitute less than 5% of our revenue in a given fiscal year. As such, we believe that IMC's staff of 19 can support the design effort required for the awarded work. IMC has performed in a timely fashion on work such as this in the past, and we believe that our familiarity with the people, vendors, and type of work advertised in this SOQ will contribute to our efficiency in completing the work in a timely fashion. We hope that our past experience with Jefferson Parish has demonstrated that IMC has the capacity for timely completion of projects; we know of no instance where IMC was not able to deliver a project on time to Jefferson Parish.

3. LOCATION OF PRINCIPAL OFFICE

IMC's only office is located in Jefferson Parish at 2714 Independence St., Metairie, LA, and many of our employees reside in Jefferson Parish. IMC has been located in Metairie since 1993. All mechanical and electrical design work will be handled from this office by staff presently with IMC.

4. ADVERSARIAL LEGAL PROCEEDINGS WITH JEFFERSON PARISH

IMC is not involved nor ever has been involved in litigation with Jefferson Parish.

5. PRIOR SUCCESSFUL COMPLETION OF PROJECTS OF THE TYPE & NATURE OF SERVICES

IMC has successfully completed numerous projects of this type and nature for Jefferson Parish in the 30+ years that we have been in business. Specific to Jefferson Parish, IMC has completed projects as a Prime and as a Sub-consultant at several Jefferson Parish Sewer Lift Stations, Drainage Stations, and other Facilities, including the Yenni Building, First Parish Court, the East Bank Maintenance Building, the East Bank Library, the River Ridge Library, and the Westbank Government Complex. Specific to the projects of the type anticipated for this contract, IMC has recently and successfully designed, and/or administered the construction for, the mechanical and/or electrical systems for following recent Drainage Projects:

- Electrical Improvement at Hero Pump Station
- Addition to Parish Line Pump Station.
- New Booster Drainage Pump Stations along Veterans, near 17th St. Canal
- Engine Replacements at Elmwood Pumping Station.

6. SIZE OF FIRM

IMC is a 18-person firm specializing in Mechanical and Electrical design services. Our firm has relatively low overhead and prides itself on productivity. Our engineers and designers are involved in all aspects of the project from design to final observation, decreasing the total impact that a single project has to company resources, and allowing our engineers to take ownership of the projects they have designed.

N. (continued) Use this space to provide any additional information or description of resources supporting firm's qualifications for the proposed project:

7. PAST PERFORMANCE BY FIRM ON PARISH CONTRACTS

IMC has worked on numerous projects for Jefferson Parish in the past. In addition to those already mentioned, some examples of these projects include mechanical, electrical, plumbing design and construction administration services for the Kenner WWTP Generator Banking Project, Yenni Building Standby Generator Project, the Veterans Blvd. Decorative Lighting project, and the Causeway and West Esplanade Sewer Lift Station project, just to name a few. Our mechanical, electrical, and plumbing design experience for Jefferson Parish includes not only Drainage Pumping Stations, but also Sewer Lift Stations, Office Buildings, Courthouses, equipment replacements (mechanical and electrical), and other facilities/projects.

IMC has provided engineering services for many Jefferson Parish projects. All projects have been successfully completed, and we encourage review of our performance with other Jefferson Parish personnel, including Mr. Ben Lepine (Drainage Dept.), Mr. Ryan Babcock (Director of General Services), and Mr. Mark Drewes (Director of Public Works).

We have enjoyed our relationship with Jefferson Parish over the past 30+ years and sincerely believe that we have earned a good reputation with the Parish for delivering quality designs. We hope to continue to have the opportunity to work with Jefferson Parish in the upcoming years.

IMC is a small business as identified by U.S. Federal Standards.

ECM Consultants, Inc.

1301 Clearview Parkway, Suite 200, Metairie, Louisiana 70001