



# STATEMENT OF QUALIFICATIONS

## Routine Engineering Services for **Drainage Projects**

### Jefferson Parish, Louisiana

### **Resolution No. 138811 | SOQ 22-011**



*Submitted To:*  
Jefferson Parish Council  
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](mailto:kazem@ecmconsultants.com)

*In Association with:*  
BFM Corporation, LLC  
Gulf South Engineering & Testing, Inc.

**March 31, 2022**

# ***ECM Consultants, Inc.***

***Engineers • Architects • Construction Managers***

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March 31, 2022

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

Via: <http://www.jeffparishbids.net>

Re: **Routine Engineering Services for Drainage Projects** in Jefferson Parish  
**Resolution No. 138811 | SOQ 22-011**

Jefferson Parish Council:

ECM Consultants, Inc. is a full-service licensed engineering, architectural and construction management firm headquartered in Metairie, LA, offering a broad array of talent and expertise relevant to this RFQ. We are pleased to submit one (1) electronic copy, via <http://www.jeffparishbids.net>, 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 and Gulf South Engineering and Testing for geotechnical services. 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. 138811 | SOQ 22-011

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

***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>13</u> Civil Engineers	<u>0</u> Interior Designers	<u>4</u> Project Managers
<u>25</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	<b><u>62</u> TOTAL</b>

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

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

## TEC Professional Services Questionnaire

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


1. **N/A**

2. **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. <b>BFM Corporation</b> 15 Veterans Memorial Boulevard Kenner LA 70062	Surveying Services	Yes
2.  <b>GULF SOUTH</b> ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants 15 Veterans Memorial Boulevard Kenner, LA 70062	Geotechnical Engineering	Yes
3.		

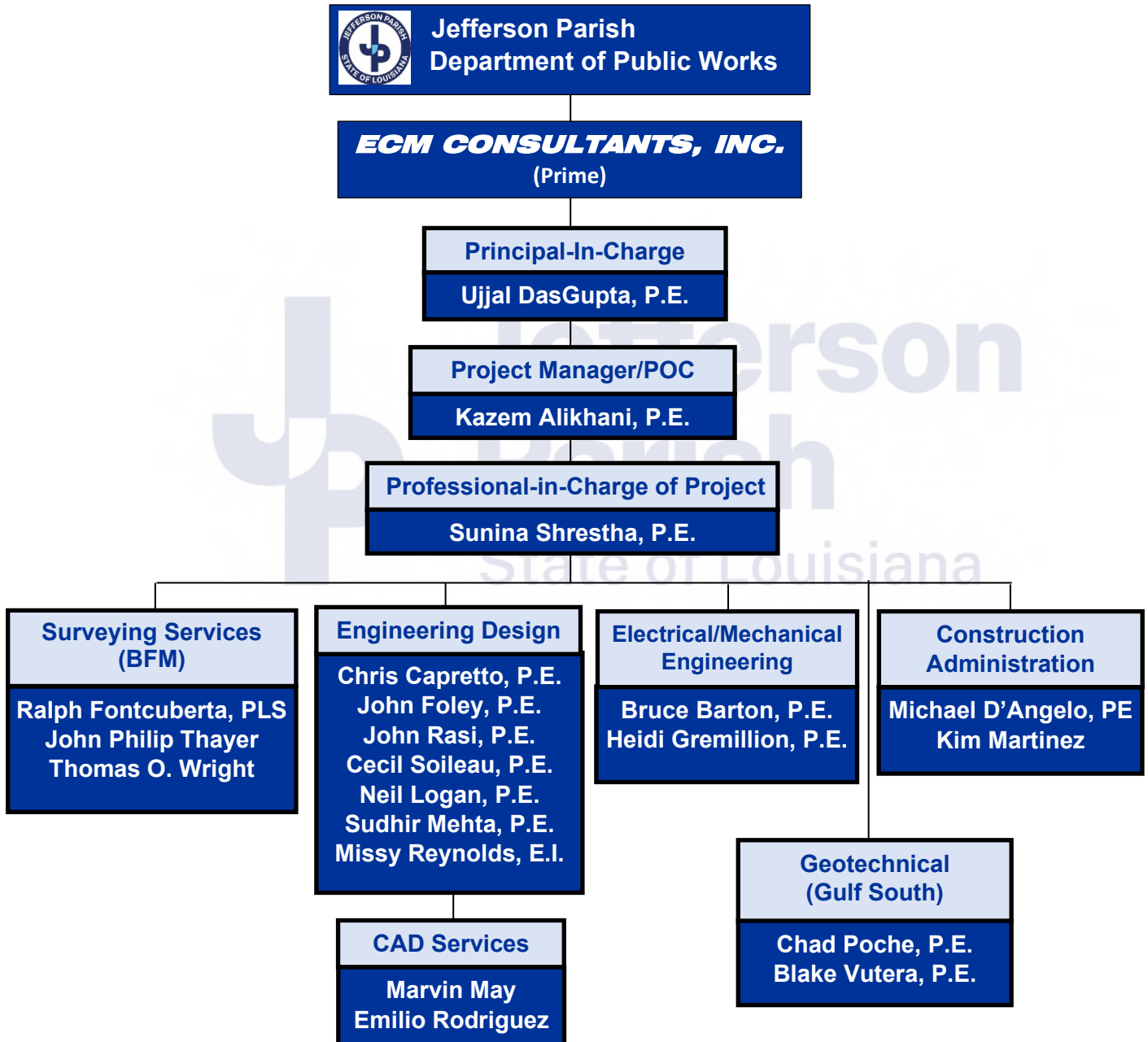
**J. Please specify the total number of support personnel that may assist in the completion of this Project:**

**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





## TEC Professional Services Questionnaire

PROFESSIONAL IN CHARGE OF PROJECT::
<b>Name &amp; Title:</b>
<b>Sunina Shrestha, P.E., Engineering Manager</b>
<b>Project Assignment:</b>
<b>Project Manager; Hydrology/Drainage Design</b>
<b>Name of Firm with which Associated:</b>
<b>ECM Consultants, Inc.</b> 
<b>Years' experience with this Firm:</b>
<b>14</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>M.S./2008/Civil Engineering</b>
<b>Active registration: Year first registered/discipline:</b>
<b>2013/Civil Engineering/LA License No. 37901</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Ms. Shrestha has <b>16 years of experience</b> 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.</p>
<b><u>Employment History:</u></b>
<ul style="list-style-type: none"> <li>ECM Consultants Inc., LA, <i>Civil Engineer (2009-to date)</i></li> <li>UAH, <i>Graduate Research Assistant in Civil Engineering (2007)</i></li> <li>RITI Consultancy Pvt. Ltd., Nepal, <i>Field Engineer (2005)</i></li> </ul>
<p><i>The following are examples of her relevant experience:</i></p> <p><b>Veterans Boulevard Pump Stations (North &amp; South), Jefferson Parish, Metairie, LA:</b> 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.</p> <p><b>Napoleon Avenue Box Culvert, SWBNO/USACE; New Orleans, LA:</b> 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.</p>



## TEC Professional Services Questionnaire

**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.

**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.**

**Gravier Street Improvements, City of New Orleans DPW; New Orleans, LA:** Ms. Shrestha provided civil engineering for this \$4.8 million project which consisted of design, preparation of plans and specifications, and cost estimates for roadway reconstruction including storm drainage, sidewalk improvements, and water and sewer improvements at Gravier Street between S. Galvez and S. Broad. She designed the entire project which included removal of existing roadways, new PCCP pavement with curb, **subsurface drainage structures including 42" RCP**, new 20" waterline and new 8" to 15" PVC sewer mains for the limit of the project.

## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT
<b>Name &amp; Title:</b>
<b>Ujjal DasGupta, P.E., President</b>
<b>Project Assignment:</b>
<b>Principal-In-Charge</b>
<b>Name of Firm with which Associated:</b>
<b><i>ECM Consultants, Inc.</i></b> 
<b>Years' experience with this Firm:</b>
<b>26</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>B.S./1968/Civil Engineering</b>
<b>Active registration: Year first registered/discipline:</b>
<b>1982/Civil Engineering/LA License No. 19849</b>
<p><b>Other experience and qualifications relevant to the proposed Project:</b></p> <p>Mr. DasGupta has over 51 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.</p> <p><b>Employment History:</b></p> <ul style="list-style-type: none"> <li>ECM Consultants Inc., LA, <i>President (1995-to date)</i></li> <li>C&amp;S Consultants, Inc., LA, <i>Vice President (1983-1995)</i></li> <li>Pepper &amp; Associates &amp; Kiddie Consultants, LA, <i>Sr. Engineer (1980-1983)</i></li> <li>McDermott, Inc., LA, <i>Sr. Structural Engineer (1980-1982)</i></li> <li>Dunbar &amp; Dickson, TX, <i>Project Engineer (1976-1980)</i></li> <li>Public Works Department, India, <i>Assistant Engineer (1968-1976)</i></li> </ul> <p><i>The following are examples of his relevant experience:</i></p> <p><b>Brown Avenue Improvements, Jefferson Parish DPW; Jefferson Parish, LA:</b> 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.</p> <p><b>South Kenner Drainage Improvements at Butler Ditch Culvert Crossing at Airline Highway; Kenner, LA:</b> 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.</p> <p><b>Napoleon Avenue Box Culvert (South Claiborne to Carondelet Street), SWBNO; New Orleans, LA:</b> 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&amp;E). Project scope included construction of a box culvert and reconstruction of Napoleon Avenue roadway from South Claiborne to Carondelet</p>

## TEC Professional Services Questionnaire

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.

## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT
<b>Name &amp; Title:</b>
<b>Kazem Alikhani, P.E., Chief Executive Officer</b>
<b>Project Assignment:</b>
<b>Project Manager/POC</b>
<b>Name of Firm with which Associated:</b>
<b>ECM Consultants, Inc.</b> 
<b>Years' experience with this Firm:</b>
<b>5</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>M.S./1984/Civil, H&amp;H Engineering; B.S./1980/Mechanical Engineering</b>
<b>Active registration: Year first registered/discipline:</b>
<b>1992/Mechanical &amp; Environmental Engineering/LA License No. 25073</b>
<p><b>Other experience and qualifications relevant to the proposed Project:</b></p> <p>Mr. Alikhani has over 41 years of experience in public works projects including planning, design and construction management. He spent a majority of his career working with Jefferson Parish Dept. of Public Works and was the Director of Public Works, responsible for all public works functions and overseeing an annual operating budget of \$200M and a capital budget of over \$100 million. His public works oversight consisted of managing nine departments: <b>drainage (canals, subsurface, pump stations)</b>, sewage (collection system and wastewater treatment plants), water (distribution and water treatment plants), streets (over 3,200 lane miles), parkways, environmental, Floodplain Management and Hazard Mitigation, engineering; Capital projects including planning, managing engineering and construction of capital project improvements.</p> <p>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.</p> <p><u><b>Employment History:</b></u></p> <ul style="list-style-type: none"> <li>ECM Consultants, Inc., <i>Chief Executive Officer (2016-Present)</i></li> <li>Jefferson Parish DPW, <i>Director of Public Works (2010-2016)</i></li> <li>Jefferson Parish DPW, <i>Director of Drainage (2004-2010)</i></li> <li>Jefferson Parish DPW, <i>Asst. Director of Water (1995-2004)</i></li> <li>Jefferson Parish DPW, <i>Drainage Dept. Engr. (1982-1994)</i></li> <li>Guillot &amp; Vogt Engineering, <i>Engineer (1980-1982)</i></li> </ul> <p><i>The following are examples of his relevant experience:</i></p> <p><b>Taft/North Pump Station, Jefferson Parish, LA:</b> 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 33<sup>rd</sup> 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, 41<sup>st</sup> Street on the South and Danny Park.</p>



## TEC Professional Services Questionnaire

**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.

**Southeast Louisiana Urban Flood Control Project (SELA), Jefferson Parish, LA:** Mr. Alikhani oversaw this project working with Jefferson Parish's master drainage plan and working within SELA's mission to improve interior drainage and reduce the risk of damage due to rainfall flooding. In general, the Parish worked with US Army Corp of Engineers to provide flood risk reduction on a level associated with a 10-year rainfall event. There are 38 West Bank projects totaling a construction cost of \$320M, and 36 East Bank projects at a total construction cost of \$380M. Projects included drainage channel concrete slope, concrete box culverts, concrete U-Channels, expansion of existing pump stations, construction of new pump stations, and installation of back-up generators.

**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 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 convey 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.

## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
<b>Name &amp; Title:</b>
<b>Christopher Capretto, P.E., Civil Engineer</b>
<b>Project Assignment:</b>
<b>Civil Engineer</b>
<b>Name of Firm with which Associated:</b>
<b>ECM Consultants, Inc.</b> 
<b>Years' experience with this Firm:</b>
<b>7</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>B.S./2009/Civil Engineering</b>
<b>Active registration: Year first registered/discipline:</b>
<b>2014/Civil Engineering/LA License No. 38641</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Capretto has over <b>13 years of experience</b> 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&amp;E for roadways and drainage systems for urban, rural highways and streets projects.</p> <p><b>Employment History:</b></p> <ul style="list-style-type: none"> <li>ECM Consultants Inc., LA, <i>Civil Engineer (2014-to date)</i></li> <li>Atlas Engineering, Inc./S&amp;B Infrastructure, Ltd., <i>Civil Engineer (2008-2014)</i></li> </ul> <p><i>The following are examples of his relevant experience:</i></p> <p><b>Veterans Blvd. Drainage Pump Stations, Jefferson Parish-DPW, Jefferson Parish, LA:</b> 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.</p> <p><b>Drainage Improvements &amp; Water Line Replacement for FEMA Recovery Roads, St. Bernard &amp; City Park Neighborhoods, City of New Orleans, LA:</b> Mr. Capretto provided civil design services for FEMA eligible repairs in the St. Bernard and City Park neighborhoods. Work included <b>drainage improvements</b>, replacement of water lines, roadway rehabilitation involving base repairs, asphalt leveling course and overlay, curb and sidewalk repairs.</p> <p><b>Gravier St. Improvements (S. Galvez to S. Broad), City of New Orleans DPW; New Orleans, LA:</b> 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 <b>storm drainage</b> and water and sewer system.</p> <p><b>LA Highway 1091, Robert Road Intersection Improvements, St. Tammany Parish, LA:</b> 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, <b>drainage design</b>, 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.</p> <p><b>LA Highway 1077, S.P. No. 852-03-0012. St. Tammany Parish, LA:</b> 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, <b>drainage structures</b>, and preparation of PS&amp;E.</p>

## TEC Professional Services Questionnaire

### 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:**

**4**

**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 8 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)*
- Bucharthorn, 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**.



## TEC Professional Services Questionnaire

### 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:**

**7**

**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 36 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.


## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
<b>Name &amp; Title:</b>
<b>Cecil Soileau, P.E., Hydraulic &amp; Hydrologic Engineer</b>
<b>Project Assignment:</b>
<b>Senior Hydraulic Engineer</b>
<b>Name of Firm with which Associated:</b>
<b><i>ECM Consultants, Inc.</i></b> 
<b>Years' experience with this Firm:</b>
<b>4</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>B.S./1962/Civil, Coastal, Water Resources Engineering</b>
<b>Active registration: Year first registered/discipline:</b>
<b>1962/Civil Engineering/LA License No. 8356</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Soileau has more than 54 years of experience in hydraulic and hydrologic evaluations, studies, modeling and design for drainage and flood control projects across Jefferson Parish and Louisiana. He spent 30 years working as a Hydraulic Engineer with the U.S. Army Corps of Engineers on projects such as pump stations, locks and gates, levees, urban flood control, dams and a variety of other types of structures.</p> <p><b>Employment History:</b></p> <ul style="list-style-type: none"> <li>ECM Consultants Inc., LA, <i>Sr. Hydraulic Engineer (2017-to date)</i></li> <li>BCG Engineering &amp; Consulting, Inc. <i>Hydraulic Engineer (1994-2017)</i></li> <li>U.S. Army Corps of Engineers <i>Hydraulic Engineer (1963-1993)</i></li> </ul> <p><i>The following are examples of his relevant experience:</i></p> <p><b>Urban Flood Control Projects, Louisiana:</b> Mr. Soileau served as hydraulic and hydrologic engineer and made feasibility studies to improve urban drainage in large urban settings such as the cities of Shreveport, Baton Rouge, Lake Charles, New Orleans, Slidell and the Parishes of Jefferson, St. Bernard and St. Tammany, Louisiana. He applied numerous modeling methods, such as HEC-RAS, HEC-HMS, UNET, FESWMS, and XP-SWMM to urban areas. He has applied HEC-RAS, FASTTABS, FESWMS, and SMS to drainage improvements to the City of New Orleans with its Sewerage &amp; Water Board in pursuit of Urban Flood Control. This major urban study is being pursued under a partnership agreement between the New Orleans District and the City of New Orleans. Mr. Soileau was the lead hydraulic engineer for the Hydrology and Hydraulic Study of the Peachtree Creek Watershed in Atlanta, Georgia and Village Creek Watershed in Birmingham, Alabama for the Mobile District, Corps of Engineers.</p> <p><b>Numerical Modeling Projects, Louisiana:</b> Mr. Soileau's recent experience includes the application of 2-D and 1-D unsteady flow models, FASTABS, RMA-2 SMS, HEC-HMS, HEC-RAS and XP-SWMM, to diversion projects ranging in scope from 1,200 cfs to 10,000 cfs for the New Orleans District and the Louisiana Department of Natural Resources, and the Ascension Parish Department of Public Works. He applied RMA-2 to a 2,000 cfs pumping station design expansion in New Orleans and modeled an urban watershed in Jefferson Parish with XP-SWMM to reduce the number of repetitive losses due to frequent flooding and established the flood reduction benefits of a 2,400 cfs pump station. Mr. Soileau designed a 25,000, 20,000, 16,000 and 12,000 cfs pump station intake and outflow basin for a hurricane protection project for the metropolitan New Orleans area. This work was performed for the New Orleans District of the Corps of Engineers. Work was modeled in a 2-D numerical model know as SMS.</p> <p><b>Physical Modeling Projects, Louisiana:</b> Mr. Soileau designed both intake and outflow basins for 1,500 cfs pump station, wrote specifications for physical model tests, and conducted witness evaluation of design at Clemson Hydraulic Laboratory, S.C. Work was performed for the Ascension Parish Department of Public Works. He also designed a testing program, managed construction of a small-scale physical model of the lower Mississippi River Delta, conducted flow-sediment diversion tests, and provided a professional report on the findings. He modeled effects of saltwater intrusion and wind effects on sediment transport on the model. This work was performed for the Louisiana Department of Natural Resources.</p>

## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
<b>Name &amp; Title:</b>
<b>Neil Logan, P.E., Senior Structural Engineer</b>
<b>Project Assignment:</b>
<b>Structural Design</b>
<b>Name of Firm with which Associated:</b>
<b>ECM Consultants, Inc.</b>
<b>Years' experience with this Firm:</b>
<b>21</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>B.S./1961/Civil Engineering</b>
<b>Active registration: Year first registered/discipline:</b>
<b>1974/Civil Engineer/LA License No. 14607</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>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.</p> <p><b>Employment History:</b></p> <ul style="list-style-type: none"> <li>ECM Consultants Inc., LA, <i>Sr. Structural Engineer (2001-to date)</i></li> <li>N-Y Associates, <i>Structural Engineer (Contract) (1994-to date)</i></li> <li>N-Y Associates, <i>Structural Engineer (1976-1991)</i></li> </ul> <p><i>The following are examples of his relevant experience:</i></p> <p><b>Florida Avenue Culvert, Sewerage and Water Board of New Orleans, LA:</b> 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.</p> <p><b>Penny &amp; Welch, Inc. Property Culvert, St. Charles Parish, LA:</b> 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.</p> <p><b>Veterans Blvd. and W. Esplanade Pumping Stations, Jefferson Parish, LA:</b> Mr. Logan provided engineering design, and preparation of PS&amp;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.</p> <p><b>New Bayou Segnette Drainage Pumping Station, Jefferson Parish, LA:</b> 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.</p> <p><b>Estelle No. 1 Pump Station, Jefferson Parish, LA:</b> 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.</p> <p><b>Drainage Pumping Station # 11, Sewerage &amp; Water Board of New Orleans, LA:</b> 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.</p>

## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
<b>Name &amp; Title:</b>
<b>Sudhir Mehta, P.E., Senior Structural Engineer</b>
<b>Project Assignment:</b>
<b>Project Engineer</b>
<b>Name of Firm with which Associated:</b>
<b>ECM Consultants, Inc. </b>
<b>Years' experience with this Firm:</b>
<b>5</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>M.S./1972/Civil Engineering; B.S./1970/Civil Engineering</b>
<b>Active registration: Year first registered/discipline:</b>
<b>1980/Civil Engineering/LA License No. 18950</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>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.</p> <p><b>Employment History:</b></p> <ul style="list-style-type: none"> <li>ECM Consultants Inc, LA, Senior <i>Structural Engineer</i> (2018 to date)</li> <li>Brown, Cunningham and Gannuch, Senior <i>Structural Engineer/Project Manager</i> (2006-2018)</li> <li>URS Corp, Senior <i>Structural Engineer/Project Engineer</i> (2005-2006)</li> <li>Pepper &amp; Associates, Senior <i>Structural Engineer/Project Manager</i> (1975-2005)</li> <li>S E Huey Co Consulting Engineers, <i>Project Engineer</i> (1973-1975)</li> <li>Linfield and Hunter, Inc., <i>Engineer in Training</i> (1971-1973)</li> </ul> <p><i>The following are examples of his relevant experience:</i></p> <p><b>Bayou Deschene Reservoir Outfall Structure and Spillway, Caldwell Parish, LA.</b> Mr. Mehta served as Structural Engineer for design of this project that included spillway and outfall structures consisting of a two-cell reinforced concrete box culvert with an inlet flume and a gated riser at the upstream end and a stilling basin at the downstream end.</p> <p><b>Drainage Pumping Station No. 1, Sewerage &amp; Water Board of New Orleans, New Orleans, LA:</b> 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.</p> <p><b>Drainage Pumping Station No. 19, Sewerage &amp; Water Board of New Orleans, New Orleans, LA:</b> 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.</p>



## TEC Professional Services Questionnaire

**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.

**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.

**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 17<sup>th</sup> 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.

**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.

## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
<b>Name &amp; Title:</b>
<b>Missy Reynolds, E.I., Project Manager</b>
<b>Project Assignment:</b>
<b>Engineering Design</b>
<b>Name of Firm with which Associated:</b>
<b>ECM Consultants, Inc.</b> 
<b>Years' experience with this Firm:</b>
<b>4</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>B.S./1994/Civil Engineering</b>
<b>Active registration: Year first registered/discipline:</b>
<b>1995/Civil Engineering/ E.I. LA No. 16639</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Ms. Reynolds has 27 years of experience in project management , engineering design and construction engineering for construction of roadways, <b>canals and drainage structures</b>, water facilities, and land development projects. She has provided oversight for civil and <b>hydraulic studies</b>, reconstruction, new construction and other improvements across the Greater New Orleans region.</p> <p><b>Employment History:</b></p> <ul style="list-style-type: none"> <li>ECM Consultants Inc., LA, <i>Deputy Program Manager (2017-present)</i></li> <li>Barowka &amp; Bonura Engineering &amp; Consultants, LLC, LA <i>Senior Project Manager/Construction Manager (2008-2017)</i></li> <li>URS Corporation, LA, <i>Project Manager (1998-2008)</i></li> <li>Frederic R. Harris, <i>Project Engineer (1996-1998)</i></li> <li>C&amp;S Consultants, <i>Project Engineer (1994-1996)</i></li> </ul> <p><b>Mid-City Street Improvements, Gentilly Woods &amp; Read Boulevard East Group C Neighborhoods, New Orleans, LA:</b> Ms. Reynolds performed engineering services for rehabilitation and reconstruction of roadways in several neighborhoods, identifying storm-related damages to both roadways and <b>subsurface drainage</b> 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.</p> <p><b>Jean Lafitte Drain Line Replacement, St. Bernard Parish, LA:</b> Ms. Reynolds designed 4,500 LF of <b>major drain line and an outfall</b> 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.</p> <p><b>Congressman Hebert Canal Widening &amp; Stabilization, St. Bernard Parish, LA:</b> Ms. Reynolds served as Project Manager, examining existing <b>drainage capacity and bank stabilization</b> 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.</p> <p><b>Roadway Restoration Projects, St. Bernard Parish, LA:</b> Ms. Reynolds oversaw simultaneous construction of more than 350 roadway construction projects totaling \$170 million, including repairs to <b>subsurface drainage</b> 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.</p>

## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
<b>Name &amp; Title:</b>
<b>Bruce Barton, P.E., Electrical Engineer</b>
<b>Project Assignment:</b>
<b>Electrical Engineer</b>
<b>Name of Firm with which Associated:</b>
<b><i>ECM Consultants, Inc.</i></b>
<b>Years' experience with this Firm:</b>
<b>2</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>B.S./1971/Electrical Engineering</b>
<b>Active registration: Year first registered/discipline:</b>
<b>1979/Electrical Engineering/LA License No. 18286</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Barton has 42 years of experience in Project Management, electrical engineering design, construction management and engineering during construction. Mr. Barton has designed power and lighting systems for manufacturing facilities, welding shops, machine shops, office buildings, warehouses and sheds, roadways, bridges, parking facilities, drainage pump stations, sewage lift stations, water and wastewater treatment plants, shipyard crane buildings, telephone company personnel and equipment buildings, airport buildings and airfield power and lighting. M. Barton has designed electrical systems with voltages ranging from 120/240v, single and three phase, 480v, 2400v, 4160v, 13.8kv, and 25kv.</p> <p><b><u>Employment History:</u></b></p> <ul style="list-style-type: none"> <li>ECM Consultants Inc., LA, Electrical Engineer (2020-to date)</li> <li>Self-employed Electrical Engineering Consultant (2003-2020)</li> <li>Gulf South Engineering, Electrical Engineering Department Head (1996-2003)</li> <li>Marrero-Couvillon Engineers., Electrical Engineering Department Head (1994-1996)</li> <li>Mathes Group, Electrical Engineering Department Head (1992-1994)</li> </ul> <p><b>Replace power and controls for the Estelle #1 Drainage Pump Station, Marrero, LA:</b> Mr. Barton designed a 1200-amp, 480-volt distribution system to power four 200 hp drainage pump motors, complete with a Motor Control Center and a 1000KW backup diesel generator set. 1981. Electrical Construction Cost: \$200,000.</p> <p><b>Pellerin Milnor Corp., Kenner, LA:</b> Mr. Barton served as manufacturing liaison between the engineering dept. and the fabrication / assembly / test departments to maintain a smooth flow of changes made to commercial and industrial laundry machinery. Mr. Barton was also the Plant Electrical Engineer, responsible for power and lighting systems in the 23-acre manufacturing facility, voltage ranging from 120v up to 13.8KV. The facility has four 3000-amp, 480-volt services. 1985 -1992.</p> <p><b>Mathes Architects, New Orleans, LA:</b> Mr. Barton, as Electrical Engineering Dept. Head, was in charge of a 12-person electrical engineering dept. and was responsible for all electrical projects for commercial and industrial clients. The main industrial client was the Laitram Corp., of Harahan, LA, a manufacturer of extruded plastic parts and conveyor systems sold globally. Dec. 1992 to Dec. 1994.</p>



## TEC Professional Services Questionnaire

**Marrero-Couvillon Engineers, Metairie, LA:** Mr. Barton was Electrical Engineering Dept. Head. He was in charge of a 10-person electrical engineering dept. and was responsible for all electrical projects for commercial and industrial clients. Main clients were Jefferson Parish Sewage and Water Depts., Treasure Chest Casino, and the Harrah's Casino. 1994 to 1996.

**Gulf South Engineers, Metairie, LA:** Mr. Barton was an electrical engineer, and Electrical Engineering Dept. Head. He was in charge of a 12-person electrical engineering dept. and was responsible for all electrical projects for commercial and industrial clients. Main clients were Lafourche and Terrebonne Parish Water, Sewage and Drainage Depts. 1981 to 1985, and 1996 to 2003.


**Richard C. Lambert, Consultants, Mandeville, LA:** Mr. Barton designed complete replacement of all airfield lighting and signage at the New Orleans Lakefront Airport, after Hurricane Katrina flooded the airfield with 10' of marsh salt water. Work included replacement of nearly marsh salt water. The work included replacement of nearly 1,000 airfield lights and over 100 airfield signs, as well as 2,000 feet of new bored airfield underground lighting circuits. The entire lighting vault electrical system and all airfield lighting voltage regulators were also replaced. 2005-2006. Electrical Construction Cost: \$2 million.

**Various Sewage Lift Stations and Pumping Stations, located in Houma, LA, and the New Orleans, LA metropolitan area:** Mr. Barton has designed new and replacement electrical systems for over 100 sewage lift stations and pumping stations ranging from one pump at 1 HP, to 6 pumps up to 125 HP, with voltages ranging from 240v to 480v. 1981 to 2021.


**Jefferson Parish Drainage Dept, Jefferson Parish, LA: Mr. Barton served as "as-needed" in-house Electrical Engineer for the Drainage Pump Station Dept.** His duties included review of all electrical drawings for all drainage pump station changes and improvements as designed by consultant firms. Work also included in-house electrical design of drainage pump station changes and improvements not involving other disciplines. He also coordinated with, and worked hands-on with, Parish electricians and maintenance workers, to perform such projects as rewiring of all controls for 4,160v drainage pump motors up to 800 HP. 1996 to 2012.

**Various standby diesel generator sets, throughout the State of Louisiana, but mostly the New Orleans metro area, LA:** Electrical design projects included approximately 30 generator sets, ranging from 15KW to 75 KW, in small towns all over Louisiana, while employed by South Central Bell Telephone Company. 1973 to 1975. Designed a system of four 1000KW generator sets to be installed on the second, third and fifth floors of the New Orleans Main Telephone Equipment Building on Poydras Street. 1993. Designed a system of two parallel 1500KW, 4,160v generator sets for the Drainage Pump Station #5 (St. Charles Parish Line) in Jefferson Parish, with complete replacement of the 4,160v switchboard and 5KV motor starters. 2004-2005. Electrical Construction Cost: \$1.5 million.


## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
<b>Name &amp; Title:</b>
<b>Heidi Gremillion, P.E., Mechanical Engineer</b>
<b>Project Assignment:</b>
<b>Mechanical Engineering</b>
<b>Name of Firm with which Associated:</b>
<b>ECM Consultants, Inc.</b> 
<b>Years' experience with this Firm:</b>
<b>4</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>MS / Mechanical Engineering; B.S. Mechanical Engineering</b>
<b>Active registration: Year first registered/discipline:</b>
<b>Mechanical Engineer: FL 61506; LA 27958 ; MS 16427; AL 36504-E; TX 122502</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Ms. Gremillion has over 28 years of experience in mechanical engineering design including field investigations, coordination for air conditioning, heating and ventilation systems, heat load analysis, plumbing, gas pipelines etc. She is highly proficient in cost analysis, building evaluation troubleshooting, design of fire protection system and preparation of plans, specifications and estimates (PS&amp;E) . She is the Past President New Orleans Chapter of the American Society of Heating Refrigerating and Air Conditioning Engineers (ASHRAE) and member of American Society of Plumbing Engineers (ASPE).</p> <p><b>Employment History:</b></p> <ul style="list-style-type: none"> <li>ECM Consultants, Inc., <i>Mechanical Engineer (2018-Present)</i></li> </ul> <p><b>Other experience and qualifications relevant to the proposed Project:</b></p> <p><b>Eastbank Water Treatment Plant Improvements Phase II (P4) and Bacteriological and Wet Chemistry Laboratory, Jefferson Parish, LA:</b> Ms. Gremillion is the Mechanical Engineer performing the review of the Consultants' design and mechanical, plans for the new P4 Water Treatment Plant and Bacteriological and Wet Chemistry Laboratory. Her responsibilities include reviewing the plans to ensure conformance with code and standards.</p> <p><b>First Energy Bruce Mansfield Dewatering Facility, Shippingport, PA:</b> Ms. Gremillion provided mechanical engineering design for this new dewatering facility at the coal combustion site that included heating and ventilation of the main facility, climate control for the Control Room, plumbing for the Control Room area and emergency stations.</p> <p><b>St. Bernard Parish Government Complex, West Judge Perez Drive, Chalmette, LA:</b> Ms. Gremillion provided mechanical engineering for this project that involved renovation of the 24,000 SF first floor of building that was severely damaged from hurricane Katrina. She performed mechanical engineering design of new air conditioning system for the building which included chilled water air handling units, variable air volume boxes, and ductwork, new plumbing system and modification of existing sprinkler system.</p> <p><b>Belle Chasse Vertical Lift Bridge and Tunnel Baseline Inspection, Plaquemines Parish, LA:</b> Ms. Gremillion served as Mechanical Engineer for the baseline inspection for the tunnel and moveable bridge. The baseline visual inspection of the equipment was performed for a generalized condition assessment of the mechanical system including the pumping system, exhaust systems, vaults and value assemblies, discharge piping, wells, tanks, fire and flushing systems.</p> <p><b>DOE Strategic Petroleum Reserve, Bryan Mound Site, TX:</b> Ms. Gremillion was the Mechanical Engineer for this project that consisted of upgrades for the Control Building, Administration Building, Welding Shop, Laboratory building and Safety Building. She performed mechanical design and prepared plans, specifications and estimates for the new air conditioning systems and modification of existing HVAC systems in the buildings. Work also included Plumbing design for upgrades and the addition of a new restroom in one of the buildings</p>

## TEC Professional Services Questionnaire


KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
<b>Name &amp; Title:</b>
<b>Michael D'Angelo, P.E., PLS, Senior Civil Engineer</b>
<b>Project Assignment:</b>
<b>Construction Administration</b>
<b>Name of Firm with which Associated:</b>
<b>ECM Consultants, Inc. </b>
<b>Years' experience with this Firm:</b>
<b>1</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>B.S. / 1993/ Civil Engineering</b>
<b>Active registration: Year first registered/discipline:</b>
<b>1994/LA / Civil/Environmental Engineering / #25888; 2006/LA / Land Surveyor / #4949</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. D'Angelo is a licensed civil and environmental engineer with more than 36 years of project experience. He is also a licensed land surveyor in Louisiana. Mr. D'Angelo has design experience in projects involving <b>roadway</b> and subsurface drainage improvements including pipe sizing using LADOTD HYDR software. His design and construction experience also includes levees, floodgates, dredge material transmission pipelines, water distribution system and sewerage pump stations and stormwater pump stations.</p> <p><b>Employment History:</b>            ECM Consultants Inc., LA, <i>President (2021-present)</i>            APTIM, LA, <i>Office Lead, Project Manager &amp; Engineer (2018-2021)</i>            Submar, Inc., LA, <i>Director of Engineering (2017-2018)</i>            CB&amp;I., LA, <i>Project Manager &amp; Engineer (2004-2017)</i>            Morris Hebert, Inc., LA, <i>Project Engineer (2000-2004)</i>            Baker Pipeline, LA, <i>Project Engineer (2000)</i></p> <p><b>Group C and Group F Roadway Improvements Projects, City of New Orleans, LA.</b> Mr. D'Angelo was the Project Manager for the design of the reconstruction of over twenty-five (25) blocks of streets within the City of New Orleans, Department of Public Works. Two (2) separate bid packages were prepared for estimated cost of approximately \$5M each. He was responsible for design and preparation of construction plans, specifications and estimates (PS&amp;E) for the total reconstruction of the streets including <b>subsurface drainage</b> and utilities. He supervised the stormwater system design utilizing HYDR6020 software as well as the design of water and sewer system improvements for the Sewerage and Water Board of New Orleans (SWBNO).</p> <p><b>Aaron and Davis Street Reconstruction and Drainage Improvements – City of Alexandria, LA:</b> Mr. D'Angelo served as Project Engineer for this project that included the design of the intersection of Aaron &amp; Davis Streets for roadway and <b>drainage improvements</b>. He designed the <b>sub-surface drainage system</b> consisting of various sizes of reinforced concrete pipe and catch basins and prepared the construction plans and technical specifications for the project.</p> <p><b>Kings Lane Reconstruction – City of Alexandria, LA:</b> This project included roadway and drainage improvements of an existing asphalt road with open ditches. It was reconstructed to a <b>PCC pavement</b> with concrete gutters, and a <b>sub-surface drainage system</b>. LDOTD Standards were utilized for the new catch basins. Construction drawings and technical specifications were prepared.</p> <p><b>Severn Avenue Reconstruction: Veterans to W. Esplanade, Jefferson Parish, LA:</b> Mr. D'Angelo is currently serving as the Project Construction Engineer for this \$12 million roadway construction project. This project includes PCC paving, <b>major drainage improvements</b>, ADA facilities, the addition of dedicated bike lanes, addition of turn lanes, street lighting and landscaping etc. He is providing <b>construction administration services</b> that includes project coordination, managing inspection services, RFIs and submittals, review monthly pay estimates, change orders management and keeping concise record of all documents in chronological order.</p>

## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
<b>Name &amp; Title:</b>
<b>Kim Martinez, Senior Construction Inspector</b>
<b>Project Assignment:</b>
<b>Construction Inspection</b>
<b>Name of Firm with which Associated:</b>
<b>ECM Consultants, Inc.</b> 
<b>Years' experience with this Firm:</b>
<b>12</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>High School</b>
<b>Active registration: Year first registered/discipline:</b>
<b>LA DOTD Certified: Asphalt Roadway, Embankment and Base Course, Portland Cement Concrete Inspector; Work Zone Traffic Control Flagger/Technician/Supervisor</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Ms. Martinez has 42 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 &amp; 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.</p> <p><b>Employment History:</b></p> <ul style="list-style-type: none"> <li>ECM Consultants Inc., LA, <i>Senior Construction Inspector (2010-to date)</i></li> <li>Louisiana Department of Transportation and Development <i>Construction Inspector &amp; Laboratory Technician (1980-2010)</i></li> </ul> <p><i>The following are examples of her relevant experience:</i></p> <p><b>Gravier Street Roadway &amp; Drainage Improvements (S. Galvez to S. Broad St.), City of New Orleans, DPW, New Orleans, LA:</b> Ms. Martinez served as the lead resident inspector for this project that included complete roadway reconstruction roadway, sidewalk and drainage removal, excavation, installation of <b>major</b> subsurface drainage and utilities such as <b>42" RCP for drainage tie-in to existing box culvert</b>, 20" water line and 8-15" sewer main class II base course and PCC paving, new sidewalks &amp; driveways.</p> <p><b>Severn Avenue Reconstruction: Veterans to W. Esplanade, Jefferson Parish, LA:</b> Ms. Martinez is currently serving as the Lead Construction Inspector for this <b>\$12 million</b> roadway reconstruction project. This project includes PCC paving, <b>major drainage improvements</b>, 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.</p> <p><b>LA 1091 at Brownswitch Intersection Improvements, Route LA 1091, LADOTD; St. Tammany Parish, LA:</b> Ms. Martinez served as Construction Inspector for this project which involves construction of a roundabout at the intersection of LA 1091 and Brownswitch Road. Work involves grading, <b>subsurface drainage</b>, base course, asphaltic concrete, pavement markings, permanent signing, and related work.</p> <p><b>Interchange Improvements at Brownswitch Rd., Route LA 1090, LADOTD; St. Tammany Parish, LA :</b> Ms. Martinez provided construction inspection services for this project which involved improvements to the intersection of LA 1090 at Brownswitch Road. Both roadways are to be widened to add turn lanes. Work involves grading, <b>subsurface drainage</b>, base course, asphaltic concrete, traffic signalization, pavement markings, permanent signing, and related work.</p>



## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
<b>Name &amp; Title:</b>
<b>Marvin May, CAD Technician</b>
<b>Project Assignment:</b>
<b>CAD Technician</b>
<b>Name of Firm with which Associated:</b>
<b>ECM Consultants, Inc.</b> 
<b>Years' experience with this Firm:</b>
<b>19</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>1999/AutoCAD Drafting</b>
<b>Active registration: Year first registered/discipline:</b>
<b>NA</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. May has over <b>19 years of experience</b> 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.</p> <p><b>Employment History:</b></p> <ul style="list-style-type: none"> <li>ECM Consultants Inc., LA, CAD Technician (2002-to date)</li> </ul> <p><i>The following are examples of his relevant experience:</i></p> <p><b>Gravier Street &amp; Drainage Improvements, City of New Orleans DPW; New Orleans, LA:</b> 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.</p> <p><b>S. Claiborne Avenue Box Culvert, SWBNO; New Orleans, LA:</b> Mr. May was involved in CAD drafting for the roadway reconstruction, subsurface drainage, and utility systems relocations for this project. Work included preparation of plans and profiles, cross sections and various details.</p> <p><b>Latigue Road, Jefferson Parish DPW/LADOTD; Jefferson Parish, LA:</b> 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.</p> <p><b>Napoleon Avenue Box Culvert, SWBNO, New Orleans, LA:</b> This project involved roadway reconstruction, subsurface drainage and utilities relocation in connection with construction of a major box culvert. Mr. May performed CAD drafting to prepare plans &amp; profile sheets, typical sections, miscellaneous details and cross section sheets.</p> <p><b>Brown Avenue Canal Improvements, Jefferson Parish DPW, Westwego, LA:</b> 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&amp;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.</p> <p><b>Swift Canal Crossing, LA 18 (4<sup>th</sup> Street), Jefferson Parish-DPW, Jefferson Parish, LA:</b> This project involved installation of subsurface drainage pipes crossing 4th street. In addition to drainage structure, this project included restoration of roadway conforming to LADOTD requirements. Mr. May provided CAD drafting including plan and profile sheets, typical sections and details.</p>

## TEC Professional Services Questionnaire

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

**Name & Title:**

**Emilio Rodriguez, CAD Technician**

**Project Assignment:**

**CAD Technician**

**Name of Firm with which Associated:**

***ECM Consultants, Inc.***



**Years' experience with this Firm:**

**17**

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

**Architectural CADD 2006/2005**

**Technical Architecture (Construction/1989)**

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

**NA**

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

Mr. Rodriguez has over 23 years of experience as a technician for projects including multifamily housing, education facilities, warehouse buildings, and transportation projects. His responsibilities have included: preparation of plans & details CAD drawings for new construction and renovation projects.

#### Employment History:

- ECM Consultants Inc., LA, *Technician (2006-to date)*
- Arctex Group Construction, TX, *Draftsman (2004-2006)*
- ER Construction, TX, *Assistant Manager (2003-2006)*
- Raytheon Engineers & Constructors, TX, *CAD Operator/Corrosion Technician (1994-2002)*

*The following are examples of his relevant experience:*

**Gravier Street Improvements (S. Galvez to S. Broad), City of New Orleans; New Orleans, LA:** Mr. Rodriguez provided CAD services for the project that involved installing **new drainage structures**, sewer and water main systems, removing existing pavement, excavating to design grades, constructing new concrete curbs, and constructing new Portland Cement Concrete pavement. He prepared plans and profile sheets, typical section, drainage & utilities detailed plans.

**Lapalco Boulevard (Westwood to Tanglewood), Jefferson Parish DPW/LADOTD; Jefferson Parish, LA:** Mr. Rodriguez provided CAD Support of this project involving preparation of plans and details for widening of existing roadway and construction of two new additional lanes with a median. The scope of work included cold planing, base repairs, curb repairs, **drainage improvements**, asphalt leveling and wearing course, striping for the existing two-lane street, and two lane new asphaltic concrete roadway.

**Duncan Canal Breakwater and Bridge, U.S. Army Corp of Engineers– New Orleans District:** Mr. Rodriguez provided CAD services for this project that involved construction of a precast concrete bridge with a section of movable concrete girder span, concrete bridge piers, and concrete approaches over Duncan Canal to replace an existing bridge.

**Progressive Church; Marrero, LA:** Mr. Rodriguez served as CAD Technician for this project. ECM provided engineering services that included preparation of plans and specifications for a large multi-purpose room, office space, access roads, parking areas, **subsurface drainage** and water and sewer service lines.

## 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:**

**Design and Construction of Subsurface Drainage Improvements on Mounes Street (Dickory Avenue to Elmwood Park Blvd.)**

**Jefferson Parish, LA  
Jefferson Parish DPW  
1221 Elmwood Park Blvd., Suite 802  
Jefferson, LA 70123**

**Neil Schneider  
504-736-6739**

**Nature of Firm's Responsibility:**

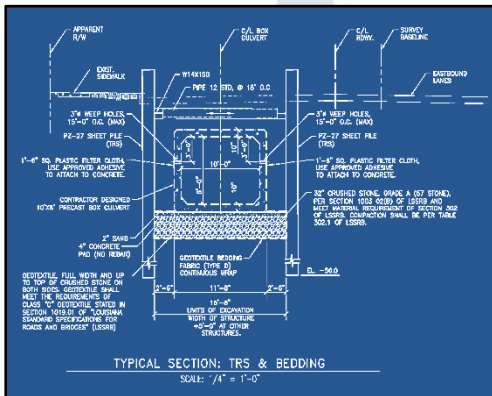
ECM is providing engineering design services for **this four-phase Drainage Box Culvert** installation project for drainage improvements along Mounes St. between Dickory Ave. and Elmwood Park Blvd.

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).

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.

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.

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.



**KEY PERSONNEL**  
**Ujjal DasGupta, P.E.**  
**Sudhir Mehta, P.E.**  
**Sunina Shrestha, P.E.**  
**Marvin May**

**RELEVANCE**

- ✓ **Concrete Box Culvert**
- ✓ **Drainage Improvements**

**Completion Date: (Actual or Estimated):**

**2019 (E)**

**Estimated Cost:**

**Entire Project:**

**\$19 Million**

**Work for which Firm was Responsible:**

**\$8 Million**



## TEC Professional Services Questionnaire

### PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>Napoleon Avenue Canal I (S. Claiborne to Carondelet) New Orleans, LA</b></p> <p><b>S&amp;WB of New Orleans 625 St. Joseph Street New Orleans, LA 70165, and U.S. Army Corps of Engineers- New Orleans District 7400 Leake Avenue, Room 255, New Orleans LA 70106</b></p>	<p>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.</p> <p>Scope of the project included coordination of topographic surveys &amp; geotechnical investigations hydraulic analysis, engineering design, preparation of plans &amp; specifications and cost estimates (PS&amp;E) for this major drainage box culvert and four-lane roadway removal and reconstruction. Work also included removal and replacement of sidewalks; driveway aprons; median island drive crossovers; median island; pavement markings and signage. Also included <b>roadway drainage systems</b>, water and sewer mains, tie-in new drain pipes to the new box culverts and utility relocation. Design work was coordinated with USACE, Sewerage and Water Board of New Orleans, and City of New Orleans-DPW.</p> <p>All drainage structures and cross drains were analyzed for hydraulic capacity in accordance to LADOTD Hydraulics Manual and appropriate sizes were included in the plans. Existing and design drainage maps were also developed.</p> <p>This was a SELA funded project being managed by USACE. ECM also provided services for engineering during construction on an as needed basis.</p>	
 	<div style="display: flex; justify-content: space-between;"> <div style="width: 65%;"> <p><b><u>RELEVANCE</u></b></p> <ul style="list-style-type: none"> <li>✓ New concrete box culvert</li> <li>✓ Subsurface Drainage system</li> <li>✓ Utilities Relocation</li> <li>✓ Civil and H&amp;H analysis design</li> </ul> </div> <div style="width: 30%; border: 1px solid black; padding: 5px;"> <p><b><u>KEY PERSONNEL</u></b></p> <p><b>Ujjal DasGupta, P.E.</b>  <b>Sunina Shrestha, P.E.</b>  <b>Marvin May</b></p> </div> </div>	
<p><b>Completion Date: (Actual or Estimated):</b></p>	<p><b>Estimated Cost:</b></p>	
	<p><b>Entire Project:</b></p>	<p><b>Work for which Firm was Responsible:</b></p>
<p><b>2018(A)</b></p>	<p><b>\$55 Million (Construction Cost)</b></p>	<p><b>\$20 Million</b></p>

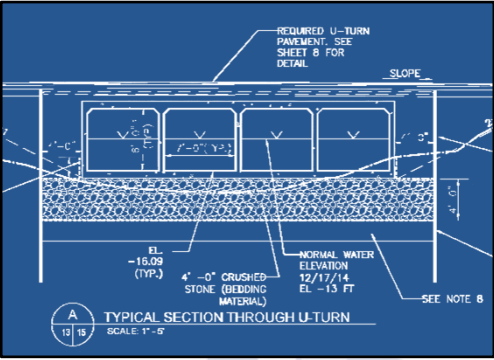

## TEC Professional Services Questionnaire

### PROJECT NO. 3

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>Veterans Boulevard (North &amp; South) Drainage Pump Stations, Metairie, LA</b></p> <p><b>Jefferson Parish-DPW</b>  <b>1221 Elmwood Park Blvd.,</b>  <b>Jefferson, LA 70123</b></p> <p><b>Gary Lehmann, Project Manager</b>  <b>Work phone: 504.736.6779</b>  <b>Gary.Lehmann@jeffparish.net</b></p>  <div style="background-color: #003366; color: white; padding: 10px; margin-top: 10px;"> <p><b><u>RELEVANCE</u></b></p> <ul style="list-style-type: none"> <li>✓ New Drainage Pump Station Design</li> <li>✓ Hydraulic Analysis</li> </ul> </div> <div style="background-color: #e6f2ff; padding: 10px; margin-top: 10px;"> <p><b><u>KEY PERSONNEL</u></b></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.  Cecil Soileau, P.E.  Marvin May</p> </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 <b>two new drainage pump stations</b> (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><b>Completion Date: (Actual or Estimated):</b></p> <p style="text-align: center;"><b>2022(E)</b></p>	<p style="text-align: center;"><b>Estimated Cost:</b></p>	
	<p style="text-align: center;"><b>Entire Project:</b></p> <p style="text-align: center;"><b>\$10 Million</b></p>	<p style="text-align: center;"><b>Work for which Firm was Responsible:</b></p> <p style="text-align: center;"><b>\$9.4 Million</b></p>

## TEC Professional Services Questionnaire

### PROJECT NO. 4

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>Williams Blvd. &amp; Vintage Dr. Drainage Box Culvert Kenner, LA</b></p> <p><b>City of Kenner-DPW 1801 Williams Boulevard Kenner, LA 70062 Tom Schreiner 504-468-7515</b></p>  	<p>ECM performed engineering design, prepared preliminary and final plans, specifications and estimates (PS&amp;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; margin-top: 20px;"> <div style="background-color: #003366; color: white; padding: 10px; border-radius: 5px;"> <p><b><u>RELEVANCE</u></b></p> <ul style="list-style-type: none"> <li>✓ Drainage Improvements</li> <li>✓ Concrete Box Culvert</li> <li>✓ Roadway Rehabilitation</li> </ul> </div> <div style="background-color: #e6f2ff; padding: 10px; border-radius: 5px;"> <p><b><u>KEY PERSONNEL</u></b></p> <p><b>Ujjal DasGupta, P.E.</b>  <b>Sunina Shrestha, P.E.</b>  <b>Chris Capretto, P.E.</b>  <b>Missy Reynolds, EI</b>  <b>Marvin May</b></p> </div> </div>	
Completion Date: (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
<b>2017 (A)</b>	<b>\$1.2 Million</b>	<b>\$ 0.85 million</b>



## TEC Professional Services Questionnaire

### PROJECT NO. 5

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>Gravier Street Improvements (South Galvez to Broad) New Orleans, LA</b></p> <p><b>City of New Orleans DPW 1300 Perdido Street New Orleans, LA 70112 504.658.8209</b></p>  <p><b>RELEVANCE</b></p> <ul style="list-style-type: none"> <li>✓ Subsurface Drainage System</li> <li>✓ Drainage Structure Removal</li> <li>✓ Roadway Reconstruction</li> </ul>	<p>ECM provided engineering design services for this <b>\$5.2 million</b> roadway reconstruction project which included coordination for topographic survey including utility locations and depths. ECM developed <b>drainage area maps and hydrologic calculations for the tributary area</b>, 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. <b>The drainage collection system included pipe sizes ranging from 12" to 42" in Diameter.</b> 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&amp;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><b>Completion Date: (Actual or Estimated):</b></p> <p><b>2017 (A)</b></p>	<p><b>Estimated Cost:</b></p>	
	<p><b>Entire Project:</b></p> <p><b>\$5.2 M</b></p>	<p><b>Work for which Firm was Responsible:</b></p> <p><b>\$5.2 M</b></p>

#### Key Personnel

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

## TEC Professional Services Questionnaire

PROJECT NO. 6						
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:					
<p><b>California Canal Channel Improvement by Concrete Slope Paving</b> Jefferson Parish, LA</p> <p><b>Jefferson Parish-DPW</b> 1221 Elmwood Park Blvd., Jefferson, LA 70123</p> <p><b>Mitch Theriot, PE, Director of Drainage</b> Work phone: 504.736.6753 <a href="mailto:Mitch.Theriot@jeffparish.net">Mitch.Theriot@jeffparish.net</a></p>	<p>California Canal is located on the west bank of 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&amp;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 of a portion of Marrero that includes Lapalco Boulevard (six lanes), industrial, commercial, and residential area. 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 a better soil bearing material in order to avoid any failure. Design also include 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 evens 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 start 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>					
<div style="background-color: #0056b3; color: white; padding: 5px; text-align: center;"> <b>RELEVANCE</b> </div> <p style="text-align: center;">Drainage Improvement H &amp; H analysis Channel slope Paving</p>	<div style="background-color: #d9e1f2; padding: 5px; text-align: center;"> <b>KEY PERSONNEL</b>  <b>Kazem Alikhani, P.E.</b>  <b>Sunina Shrestha, P.E.</b>  <b>Sudhir Mehta, P.E.</b>  <b>Marvin May</b> </div>					
						
<p><b>Completion Date: (Actual or Estimated):</b></p> <p style="text-align: center;"><b>2022 (E)</b></p>	<p><b>Estimated Cost:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center;"><b>Entire Project:</b></td> <td style="width: 50%; text-align: center;"><b>Work for which Firm was Responsible:</b></td> </tr> <tr> <td style="text-align: center;"><b>\$5 Million</b></td> <td style="text-align: center;"><b>\$4 Million</b></td> </tr> </table>		<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>	<b>\$5 Million</b>	<b>\$4 Million</b>
<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>					
<b>\$5 Million</b>	<b>\$4 Million</b>					

## TEC Professional Services Questionnaire

PROJECT NO. 7		
<p><b>Project Name, Location and Owner's contact information:</b></p> <p><b>Severn Avenue Corridor Improvements</b>  <b>Jefferson Parish, LA</b></p> <p><b>Jefferson Parish DPW / LADOTD</b>  <b>1221 Elmwood Park Blvd., Suite 802,</b>  <b>Jefferson, LA 70123</b></p>	<p><b>Nature of Firm's Responsibility:</b></p> <p>ECM provided engineering designs and prepared plans, specifications, and estimate (PS&amp;E) for this <b>\$12 million</b>, 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. <b>ECM performed all subsurface drainage design for this project.</b> 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; <b>development of existing and proposed drainage maps with associated hydraulic computations</b>, 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="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p><b>RELEVANCE</b></p> <ul style="list-style-type: none"> <li>✓ H &amp; H Analysis</li> <li>✓ Subsurface Drainage Design</li> </ul> </div> <div style="border: 1px solid black; padding: 5px; margin-bottom: 10px;"> <p><b>Key Personnel</b>  Ujjal DasGupta, P.E.  Kazem Alikhani, P.E.  Sunina Shrestha, P.E.  Marvin May (CAD)  Zachary Collier, P.E.  Michael D'Angelo, P.E.  Kim Martinez</p> </div> 
<p><b>Completion Date: (Actual or Estimated):</b></p>	<p><b>Estimated Cost:</b></p>	
<p><b>2022 (E)</b></p>	<p><b>Entire Project:</b></p>	<p><b>Work for which Firm was Responsible:</b></p>
<p><b>2022 (E)</b></p>	<p><b>\$12 Million</b></p>	<p><b>\$11 Million</b></p>



## TEC Professional Services Questionnaire

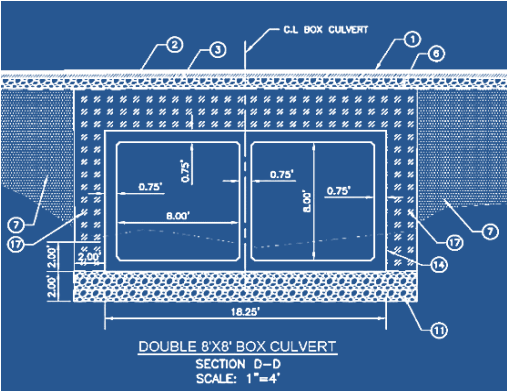
### PROJECT NO. 8

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>Glen Oaks Drive (Plank Road to McClelland Drive) Baton Rouge, LA</b></p> <p><b>City of Baton Rouge/East Baton Rouge Parish DPW 100 St. Ferdinand, Baton Rouge, LA 70821</b></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. <b>ECM performed a complete hydrologic and hydraulic analysis of the drainage system.</b> Scope of the Phase 1 was to perform conceptual design, H&amp;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 <b>drainage improvements</b> necessary for the drainage area.</p> <p>The design study included <b>hydraulic analysis of the two barrel 8'x8' concrete box</b> 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&amp;E) and of construction documents and ROW taking Maps and utility relocation plans.</p>	
<p><b>RELEVANCE</b></p> <ul style="list-style-type: none"> <li>✓ Hydraulic Analysis</li> <li>✓ New Subsurface Drainage system</li> <li>✓ Utilities Relocation</li> </ul>	<p><b>KEY PERSONNEL</b></p> <p><b>Ujjal DasGupta, P.E. Sunina Shrestha, P.E. Chris Capretto, P.E. Marvin May</b></p>	
<p><b>Completion Date: (Actual or Estimated):</b></p>	<p><b>Estimated Cost:</b></p>	
<p><b>2020(A)</b></p>	<p><b>Entire Project:</b></p> <p><b>\$10 Million</b></p>	<p><b>Work for which Firm was Responsible:</b></p> <p><b>\$10 Million</b></p>



## TEC Professional Services Questionnaire

### PROJECT NO. 9

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>Strain Road Bridge Replacement with Box Culvert.</b></p> <p><b>Baton Rouge, LA</b>  <b>City of Baton Rouge/East Baton Rouge Parish</b>  <b>100 St. Ferdinand Street</b>  <b>Baton Rouge, LA 70821</b></p> <p><b>Mark Stephens</b>  <b>225-389-3186</b></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 <b>hydrologic and hydraulic study of Drainage basin of the bayou</b> and presented two alternatives for replacement of existing bridge. The <b>hydraulic analysis</b> 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. <b>ECM performed the design of two, 60 feet long , 8'x8' box culvert</b> and approach road along with culvert transition flume on both side. The culverts were designed conforming to LADOTD standards.</p> <p>The project also including the designing of about 400 feet of roadway with sidewalks. ECM was also responsible for management of the subconsultants for topographic survey, Geotechnical analysis, Environmental permitting and ROW mapping.</p>	
<p><b>Completion Date: (Actual or Estimated):</b></p>	<p><b>Estimated Cost:</b></p>	
	<p><b>Entire Project:</b></p>	<p><b>Work for which Firm was Responsible:</b></p>
	<p><b>2017 (A)</b></p>	<p><b>\$885,000</b></p>

#### RELEVANCE

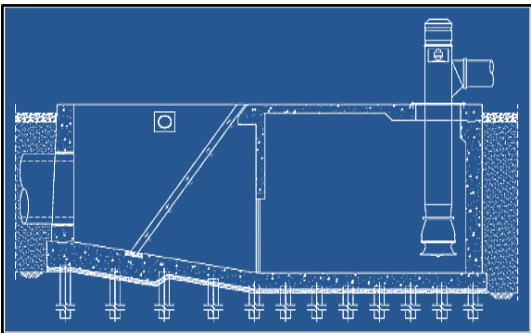

- ✓ H&H Analysis
- ✓ Drainage Design
- ✓ Concrete Box Culvert Design
- ✓ Civil and Structural design

#### KEY PERSONNEL

**Ujjal Dasgupta, P.E.**  
**Sunina Shrestha, P.E.**

## TEC Professional Services Questionnaire

### PROJECT NO. 10

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p><b>West Esplanade Drainage Pump Station, Jefferson Parish, LA</b></p> <p><b>Jefferson Parish-DPW</b>  <b>1221 Elmwood Park Blvd.,</b>  <b>Jefferson, LA 70123</b></p> <p><b>Gary Lehmann, Project Manager</b>  <b>Work phone: 504.736.6779</b>  <b>Gary.Lehmann@jeffparish.net</b></p>  <div style="background-color: #0056b3; color: white; padding: 5px; margin-top: 10px;"> <b>RELEVANCE</b>              ✓ New Drainage Pump Station Design              ✓ Hydraulic Analysis         </div> <div style="border: 1px solid #0056b3; padding: 5px; margin-top: 10px;"> <b>KEY PERSONNEL</b>              Ujjal DasGupta, P.E.              Kazem Alikhani, P.E.              Sunina Shrestha, P.E.              John Rasi, P.E.              Sudhir Mehta, P.E.              Chris Capretto, P.E.              Cecil Soileau, 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 <b>new drainage pump station</b>.</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> 	
<b>Completion Date: (Actual or Estimated):</b>  <b>2021 (E)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>  <b>\$7.5 million</b>	<b>Work for which Firm was Responsible:</b>  <b>\$7.0 million</b>

**TEC Professional Services Questionnaire**

<b>M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary</b> NONE		
<b>Parties:</b>		<b>Status/Result of Case:</b>
<b>Plaintiff:</b>	<b>Defendant:</b>	
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

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

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#### TEAM PROFILE

#### MINIMUM QUALIFICATIONS

#### EVALUATION CRITERIA

1. Professional Training & Experience
2. Capacity for Timely Completion of Work
3. Location of Principal Office
4. Adversarial Legal Proceedings with Parish
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.

### **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. 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 27 years, ECM has provided professional services on 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

### **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'	Sunina Shrestha, P.E. 16 years' experience LA License No. 37901  Sudhir Mehta, P.E. 49 years' experience LA License No. 18950



## TEC Professional Services Questionnaire

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

experience in the disciplines involved.

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

Chris Capretto, P.E.  
LA Civil Eng. #38641

ECM substantially exceeds minimum qualification requirements.

### **1. PROFESSIONAL TRAINING AND EXPERIENCE**

#### **RELEVANT PROJECT EXPERIENCE**

##### **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 insure 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.

##### **Elmwood & Cousins Pump Stations, Jefferson Parish, LA**

**Client: USACE New Orleans District**

ECM provided planning, engineering design, preparation of final construction plans and specifications, EDA and EDC services for Cousins Pump Station No. 01, 02, and 03 and Elmwood No. 1 and No. 2 Pump Stations. The purpose of this Task Order was to provide storm proofing design for the building envelopes as well as the ancillary systems to achieve reliable and redundant systems to insure sustained operation of the drainage pump stations during storm events.

##### **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.

## TEC Professional Services Questionnaire

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

### **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.

### **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.

### **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.

### **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.

### **Conceptual Design of Hydrologic Systems for Outfall Canals at 17<sup>th</sup> 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 17<sup>th</sup> 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

### **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.

### **EXPERIENCE & TRAINING OF KEY PERSONNEL**

**Ujjal DasGupta, P.E., President:** Mr. DasGupta has a B.S. degree in Civil Engineering and over 51 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 local, state and federal agencies. Mr. DasGupta is a Louisiana registered Professional Engineer.

**Kazem Alikhani, P.E., Project Manager:** 41 years of experience managing public works projects including planning, design and construction management. Under his direction as Jefferson Parish Director of Public Works, he was responsible for all public works functions and overseeing an annual operating budget of \$200M and a capital budget of over \$100 million. His public works oversight consisted of managing nine departments: drainage (canals, subsurface, pump stations), sewage (collection system and wastewater treatment plants), water (distribution and water treatment plants), streets (over 3,200 lane miles), parkways, environmental, Floodplain Management and Hazard Mitigation, engineering; Capital projects including planning, managing engineering and construction of capital project improvements. He has planned, designed, managed numerous projects from inspection to completion including preparation of bids, evaluations, awards, and managed complex projects during construction.

**Sunina Shrestha, P.E.,** will serve as **Professional-in-Charge of Project:** She has a M.S. degree in Civil Engineering and over 16 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 13 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 8 years of experience designing LADOTD and public works projects including feasibility studies, environmental assessments, roadway, wastewater and drainage improvements.

**Cecil Soileau, P.E., H&H Engineer:** Mr. Soileau has more than 54 years of experience in H&H engineering analysis, design and modeling in Jefferson Parish and the GNO region, with 30 years as a Hydraulic Engineer for USACE. He has worked on a wide variety of storm water management and flood control projects. He is a LA licensed Civil Engineer.

**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.



## TEC Professional Services Questionnaire

**Marvin May** will serve as **CAD Technician**, he has over 19 years of experience in AutoCAD drafting, including preparation of plans and profiles, cross sections and miscellaneous details for roadway, drainage and utilities projects.

**Kim Martinez** will serve as **Resident Inspector**. She has over 42 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.

### 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 contracts 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. 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.

### 5. PRIOR SUCCESSFUL COMPLETION OF PROJECTS

Below are examples and references to related projects:

- **South Claiborne Avenue Box Culvert and roadway reconstruction (Jena St. to Louisiana Ave.):** \$18 Million. **Reference:** Joe Becker, P.E.- S&WB of New Orleans; 504-585-2365; [rspooneer@swbno.org](mailto:rspooneer@swbno.org)
- **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](mailto:rspooneer@swbno.org)
- **Veterans Drainage Pump (North & South):** \$8 million project. **Reference:** Gary Lehmann, P.E.- Jefferson Parish DPW; 504-736-6784; [glehmann@jeffparish.net](mailto:glehmann@jeffparish.net)
- **Napoleon Avenue Drainage Canal I & Roadway reconstruction (S. Claiborne to Carondelet Street):** \$55 Million project. **Reference:** Ron Spooner, P.E.- S&WB of New Orleans; 504-865-0650; [rspooneer@swbno.org](mailto:rspooneer@swbno.org)
- **Glen Oaks Drive (Plank Road to McClelland Drive):** \$10 Million project. **Reference:** Craig Rabelais, P.E.- CSRS; 225-731-3607

### 6. SIZE OF FIRM

ECM has **62** 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:*



## TEC Professional Services Questionnaire

- Roadway and drainage improvements for West Metairie / Severn Avenue. ECM's estimate was \$1.0 M, low bid was \$899,000 and project was completed on time with only one deductive change order amounting to 1.8% of bid amount.
- New Sewer Lift Station at Causeway & W. Esplanade for Jefferson Parish. Design completed within budget.
- Warehouse for Jefferson Parish DPW. This project design was completed below the project budget of \$5 million.
- B&C Canal Improvement (Phase I) for Jefferson Parish. This project's design and construction were completed on time, below our engineering estimate.

### 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.

### 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 of 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.

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: 03/31/2022

## **Section 2**

**BFM Corporation, LLC.**

***TEC Professional Services Questionnaire***

## TEC Professional Services Questionnaire

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

### Routine Engineering Services for Drainage Projects

SOQ 22-011 | Resolution No. 138811

**B. Firm Name & Address:**



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

**BFM Corporation, LLC**

15 Veterans Memorial Boulevard  
Kenner LA 70062

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

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

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

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

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

**Ralph P. Fontcuberta, Jr., Executive Vice President • LA License No. 4329 (1974)**

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

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

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

4	Administrative	-	Estimators	-	Specification Writers
-	Architects (Licensed)	-	Geologists	-	Structural Engineers
-	Chemical Engineers	1	Geotechnical Engineers	-	Graduate Engineers
-	Civil Engineers	-	Interior Designers	2*	Project Managers
-	Construction Inspectors	-	Landscape Architects	-	Clerical ( <i>see Administrative</i> )
-	Ecologists	-	Land Surveyor ( <i>see PLS</i> )	-	Grant/Funding Specialist
-	Electrical Engineers	-	Mechanical Engineers	-	Sanitary Engineers
-	Engineer Intern	-	Environmental Engineers	1	Principals
2	Professional Land Surveyors			1	Researcher/Archivist
				3	Drafting/AutoCADD
				5	Survey Crew Chiefs
				6	Instrument Men
				<b>24</b>	<b>TOTAL</b>

\* Project Manager also noted in Professional Land Surveyor, but overall employee count is correct.

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

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

## TEC Professional Services Questionnaire

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

1. **N/A**

2.

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

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

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

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

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

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



## TEC Professional Services Questionnaire

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

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

#### **Name & Title:**

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

#### **Project Assignment:**

Registered Professional Land Surveyor

#### **Name of Firm with which associated:**

**B F M CORPORATION, LLC**  
Professional Land & Hydrographic Surveying

#### **Years experience with this Firm:**

40 years (Founding Principal of BFM in 1982); 55 years total (1967)

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

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

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

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

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

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

Since the beginning of his career, his work has entailed computations, drafting, and field work for various industrial, commercial, municipal, and private clients. Project work has included topographic surveying needed for a wide variety of engineering, architectural, and related endeavors.

## TEC Professional Services Questionnaire

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

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

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

- *Bissonet Plaza Drainage Improvements (Phase 1, Elmwood Parkway and Craig Avenue), Metairie, Jefferson Parish, LA*
- *Lapalco Boulevard Bridge at Harvey Canal, (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, LA*
- *Orange Lane Drainage Pump Station Project (Drainage Mapping), Grand Isle, Jefferson Parish, LA*
- *Mounes Street Subsurface Drainage (Phase IV, Dickory Avenue to Elmwood Park Boulevard), Jefferson Parish, LA*
- *West Bank Expressway, Phase I Drainage Map, from Peters Road to Manhattan Boulevard, Jefferson Parish, LA*
- *West Bank Subsurface Drainage Improvement Project, Phase II, Bellemeade Boulevard to the Violet Canal Discharge, Jefferson Parish, LA*
- *Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA*
- *Coventry Drainage Pump Stations, Jefferson Parish, LA*
- *Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, LA*
- *Mounes Subsurface Drainage – Phase I, Jefferson Parish, LA*
- *Jack & Bores Survey (Drainage Project), Waggaman, Jefferson Parish, LA*
- *Oakwood Terrytown Drainage Improvements (HMGP) (Carol Sue Drainage Improvements), Jefferson Parish, LA*
- *Drainage Improvements, Metairie Lawn to Labarre Drive, Jefferson Parish, LA*
- *Mary Ridge Court, Jefferson Parish, LA*
- *Bannerwood Drainage Improvements (Mt. Laurel Bridge & Oakwood Canal), Jefferson Parish, LA*
- *Orleans Village Subdivision Drainage Improvements, Jefferson Parish, LA*
- *Westgate Subdivision Subsurface Drainage Improvements, Jefferson Parish, LA*
- *Kawane Drive Drainage Improvements, Jefferson Parish, LA*
- *Paillet – Maplewood Drainage Improvements, Jefferson Parish, LA*
- *Hoey's Canal Drainage Improvements (Deckbar Ave to Labarre Rd), Jefferson Parish, LA*
- *25th Street & Adjacent Canal, Gretna, Jefferson Parish, LA*
- *Mason Ditch Drainage Improvements, Jefferson Parish, LA*
- *Breaux Ditch Improvements, East Ames Boulevard – Leo Kenner Parkway, Jefferson Parish, LA*
- *Drainage Improvements to the Canal No. 11 Culvert Crossing West of Duncan Canal, Jefferson Parish, LA*
- *Mazoue Ditch Drainage Improvements (Rose Crest Lane to Darby Lane), Jefferson Parish, LA*
- *Ames Boulevard Drainage Pump Station Warehouse, Jefferson Parish, LA*
- *Improvements to Bayou Segnette Drainage Pump Station No. 1, Jefferson Parish, LA*
- *Cleary Avenue & West Napoleon Lift Station & Force Main, Jefferson Parish, LA*
- *Westwego Drainage Pump Station No. 1, Jefferson Parish, LA*
- *Parish Line Pump Station No. 5, Kenner, Jefferson Parish, LA*
- *Hero Pump Station, Harvey, Jefferson Parish, LA*
- *Fulton Street Pump Station, Jefferson Parish, LA*
- *Westwego Drainage Pump Station 1, Westwego, Jefferson Parish, LA*
- *Goose Bayou Drainage Pump Station, Lafitte, Jefferson Parish, LA*
- *Taft Park Drainage Pump Station, Jefferson Parish, LA*
- *Drainage Pump Station, Veterans North & South, Right-of-Way, 17th Street Canal, Jefferson Parish, LA*
- *Drainage Pump Station, West Esplanade and 17th Street Canals, Jefferson Parish, LA*
- *Bayou Segnette Fronting Protection/New Pump Station, Westwego, Jefferson Parish, LA*
- *Morton & Ingrid Pump Station, Jefferson Parish, LA*

## TEC Professional Services Questionnaire

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

**Name & Title:**

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

**Project Assignment:**

Engineering Liaison

**Name of Firm with which associated:**

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

**Years experience with this Firm:**

5 years (became partial owner of BFM in 2017); 29 years total (1993)

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

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

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

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

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

Mr. Poché is an Executive Vice President with (and partial owner of) BFM Corporation, LLC, and a co-founder of BFM's sister company, Gulf South Engineering and Testing, Inc. He has been a consulting geotechnical engineer for more than 20 years in South Louisiana, working on traditional and unique geotechnical engineering projects (shallow and deep foundation design, slope stability, pavement design, etc.). Mr. Poché has also provided construction oversight for waste facilities and virtually every type of earthwork related project. He has been the geotechnical engineer of record for thousands of projects throughout his career.

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

BFM Corporation projects overseen by Mr. Poché would include:

## TEC Professional Services Questionnaire

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

*Chad M. Poché, P.E. (continued)*

**Lapalco Boulevard Bridge at Harvey Canal, (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, LA.** BFM Corporation provided extensive surveying services for a topographic survey and right-of-way (R/W) determination for the project. Project elements included setting GPS Static Control (5 permanent control points), traversing a proposed survey line, and land topography surveying. Additional phases include hydrographic topography/bathymetric surveying of the project area, the right-of-way determination, and subsurface utility engineering (SUE). Drone Surveying was utilized throughout the project. A Route Topographic Survey was also included as part of the scope, as was Subsurface Utility Engineering (SUE). (\$478,744 (fee); 2020)

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

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


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

**Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA.** BFM executed a Route Topographic Survey for the project; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The project area (Allo Street) extended from 4th Street to 6th Street. (\$12,855 (fee); 2019)

**Holly Drive Drainage Project, Lewisburg Estates Subdivision, Mandeville, St. Tammany Parish, LA.** BFM provided boundary with topographic surveying of the project site (multiple lots) in the Lewisburg Estates Subdivision for the drainage project. (\$13,392 (fee); 2019)



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>John Philip Thayer</b> Field Operations Supervisor
<b>Project Assignment:</b>
Field Operations Supervisor
<b>Name of Firm with which associated:</b>
 Professional Land & Hydrographic Surveying
<b>Years experience with this Firm:</b>
14 years (joined BFM in 2008); 15 years total (2007)
<b>Education: Degree(s)/Year/Specialization:</b>
B.S., 2007, Physical Education, Trevecca Nazarene University
<b>Active registration: Year first registered/discipline:</b>
<i>Professional Land Surveyor Registration in process, State of Louisiana</i>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Thayer is a Field Operations Supervisor with considerable experience in field surveying services, including ALTA/as-built surveying, construction layout, boundary, topographic, cross-sections, GPS use, and numerous other surveying types.</p> <p><b>West Bank Subsurface Drainage Improvement Project, Phase II, Bellemeade Boulevard to the Violet Canal Discharge, Jefferson Parish, LA.</b> BFM provided topographic surveying for the project, which encompassed Bellemeade Boulevard from Briargrove to Brookmeade and Brookmeade from Bellemeade to the Violet Canal Discharge. (\$16,108 (fee); 2010)</p> <p><b>Mounes Street Subsurface Drainage (Phase IV, Dickory Avenue to Elmwood Park Boulevard), Jefferson Parish, LA.</b> BFM provided topographic surveying services for Phase IV of the project, part of a multiphase program to improve drainage issues on Mounes Street. Phase IV of the project involved a topographic survey of the project, extending from Dickory Avenue to Elmwood Park Boulevard. Services provided by BFM included establishment of a baseline, setting temporary benchmarks (TBMs), elevation surveys, locating improvements and utilities as well as natural elements, and right-of-way surveying. (\$23,540 (fee); 2017)</p> <p><b>Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA.</b> BFM executed a Route Topographic Survey for the project; the full scope plan &amp; profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The project area (Allo Street) extended from 4th Street to 6th Street. (\$12,855 (fee); 2019)</p>

## TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

*John Philip Thayer (continued)*

**Lapalco Boulevard Bridge at Harvey Canal, (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, LA.** BFM Corporation provided extensive surveying services for a topographic survey and right-of-way (R/W) determination for the project. Project elements included setting GPS Static Control (5 permanent control points), traversing a proposed survey line, and land topography surveying. Additional phases include hydrographic topography/bathymetric surveying of the project area, the right-of-way determination, and subsurface utility engineering (SUE). Drone Surveying was utilized throughout the project. A Route Topographic Survey was also included as part of the scope, as was Subsurface Utility Engineering (SUE). (\$478,744 (fee); 2020)

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

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

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

**Louisiana Statewide Flood Control Program (Package 1 & 2 Control and Package 3), City of Kenner, LA.** BFM provided topographic surveying services for the project. Typical surveying elements included records research, establishment of baseline, Temporary Benchmarks, and shooting of elevations. BFM provided surveying for the location of improvements and utilities (sewer, water, drainage, storm, etc.), as well as natural elements in the project area. The Louisiana Statewide Flood Control Program uses state funds in the construction of flood control infrastructure to reduce (or eliminate) the incidence of flooding or damages in a specific area. (\$17,688 (fee); 2016)

## TEC Professional Services Questionnaire

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

**Name & Title:**

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

Registered Professional Land Surveyor

**Project Assignment:**

Registered Professional Land Surveyor; Project Manager/Drafting Supervisor

**Name of Firm with which associated:**

**B<sup>2</sup>F<sup>2</sup>M CORPORATION, LLC**  
Professional Land & Hydrographic Surveying

**Years experience with this Firm:**

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

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

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

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

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

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

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

Mr. Lambert provides Project Management and Drafting Oversight for the firm. He has also provided Survey Crew Chief Services since joining BFM and offers a well-rounded experience overview for any project. Mr. Lambert has completed Basic OSHA Training and holds license with the Gulf Coast Safety Council (08SSV, ID429523).

**Lapalco Boulevard Bridge at Harvey Canal, (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, LA.** BFM Corporation provided extensive surveying services for a topographic survey and right-of-way (R/W) determination for the project. Project elements included setting GPS Static Control (5 permanent control points), traversing a proposed survey line, and land topography surveying. Additional phases include hydrographic topography/bathymetric surveying of the project area, the right-of-way determination, and subsurface utility engineering (SUE). Drone Surveying was utilized throughout the project. A Route Topographic Survey was also included as part of the scope, as was Subsurface Utility Engineering (SUE). (\$478,744 (fee); 2020)

**Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA.** BFM executed a Route Topographic Survey for the project; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The project area (Allo Street) extended from 4th Street to 6th Street. (\$12,855 (fee); 2019)

## TEC Professional Services Questionnaire

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

*Gary J. Lambert, Jr., PLS (continued)*

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

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


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

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

**Revere Road W-3 Drainage Survey, St. Tammany Parish, LA.** BFM provided surveying services to the St. Tammany Parish Government (Survey Services Contract No. 16-104) for this Drainage Survey project on Revere Road. The scope of services included a boundary survey with notation of improvements. Extensive records research was a precursor to the execution of the field survey. BFM also provided cross sections of Bayou De Zaire and of the drainage feature with notation of natural ground features, improvements, encroachments, and easements/servitudes. Upon completion, BFM provided AutoCAD maps and parcel property descriptions to the Parish. (\$18,960 (fee); 2020)




## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
<b>Name &amp; Title:</b>
<p><b>Christopher Lemley</b> Quality Control Supervisor</p>
<b>Project Assignment:</b>
<p>Quality Control Supervisor</p>
<b>Name of Firm with which associated:</b>

<b>Years experience with this Firm:</b>
<p>8 years (joined BFM in 2014); 16 years total (2006)</p>
<b>Education: Degree(s)/Year/Specialization:</b>
<p><i>High School Diploma</i></p>
<b>Active registration: Year first registered/discipline:</b>
<p>N/A</p>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Lemley serves as BFM's Quality Control Supervisor, overseeing all work and activity by the firm's personnel to be sure all is kept up to our exacting standards. His surveying experience includes over 8 years as a Survey Crew Chief. His survey software experience includes projects involving Trimble, Topcon, Leica, and Hypack, and has maintained and operated GPS, Auto-Level, and Total Station.</p> <p><b>Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, LA.</b> BFM provided surveying services for this Drainage Evaluation Project (PW 2018-024-DR). The scope of services included a full Route Topographic Survey (includes all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work) from gutter line to gutter line along Metairie Road from the westerly apparent right-of-way (R/W) of Causeway Boulevard to easterly apparent ROW of Focis Street. The project encompassed approximately 10,400 linear feet, with cross-sections and elevations surveyed included as part of the scope. (\$18,350 (fee); 2020)</p> <p><b>Drainage Improvements, Metairie Lawn to Labarre Drive, Jefferson Parish, LA.</b> BFM provided Surveying Services for this project located in Bayou Metairie Park. (\$9,740 (fee); 2016)</p> <p><b>Mounes Subsurface Drainage – Phase I, Jefferson Parish, LA.</b> BFM provided topographic surveying services for Phase I of the project, which extended from Dickory to Elmwood Park Boulevard). (\$26,240 (fee); 2017)</p>

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Thomas O. Wright</b> Survey Crew Chief
<b>Project Assignment:</b>
Survey Crew Chief
<b>Name of Firm with which associated:</b>
 Professional Land & Hydrographic Surveying
<b>Years experience with this Firm:</b>
14 years (joined BFM in 2008); 45 years total (1977)
<b>Education: Degree(s)/Year/Specialization:</b>
<i>High School Diploma</i>
<b>Active registration: Year first registered/discipline:</b>
<i>American Traffic Safety Service Assn. – Traffic Flagger/Control Technician/Control Supervisor</i> <i>Basic OSHA Training - Completed</i> <i>Transportation Work Identification Card (TWIC)</i>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>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.</p> <p><b>Mounes Street Subsurface Drainage (Phase IV, Dickory Avenue to Elmwood Park Boulevard), Jefferson Parish, LA.</b> BFM provided topographic surveying services for Phase IV of the project, part of a multiphase program to improve drainage issues on Mounes Street. Phase IV of the project involved a topographic survey of the project. Services provided by BFM included establishment of a baseline, setting temporary benchmarks (TBMs), elevation surveys, locating improvements and utilities as well as natural elements, and right-of-way surveying. (\$23,540 (fee); 2017)</p> <p><b>Massachusetts Avenue Drainage Improvements, Jefferson Parish, LA.</b> BFM provided topographic surveying services for the project, which extended from W Napoleon Avenue to Veterans Memorial Boulevard. (\$28,515 (fee); 2009)</p> <p><b>Coventry Drainage Pump Stations, Jefferson Parish, LA.</b> BFM provided a Route Topographic Survey with Hydrographic Survey for the project. The limits of survey extended from r/w to r/w along Jefferson Highway. The levee and hydrographic survey area was noted as 400 feet wide (200 ft. in either direction of the extended centerline of Colonial Heights Road). Drone Surveying was a key element of the project. The hydrographic survey extended 500 feet into the river from the water's edge. (\$89,780 (fee); 2020)</p>

## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
<b>Name &amp; Title:</b>
<b>Curtis "Jay" Barrios</b> Survey Crew Chief
<b>Project Assignment:</b>
Survey Crew Chief
<b>Name of Firm with which associated:</b>
 Professional Land & Hydrographic Surveying
<b>Years experience with this Firm:</b>
32 years (joined BFM in 1990); 32 years total (1990)
<b>Education: Degree(s)/Year/Specialization:</b>
<i>High School Diploma</i>
<b>Active registration: Year first registered/discipline:</b>
<i>American Traffic Safety Service Assn. – Traffic Flagger</i> <i>Transportation Work Identification Card (TWIC)</i>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Barrios' surveying experience includes boundary, hydrographic, and topographic. He has worked on location and performed topographic surveys for a number of major projects.</p> <p><b>West Bank Subsurface Drainage Improvement Project, Phase II, Bellemeade Boulevard to the Violet Canal Discharge, Jefferson Parish, LA.</b> BFM provided topographic surveying for the project, which encompassed Bellemeade Boulevard from Briargrove to Brookmeade and Brookmeade from Bellemeade to the Violet Canal Discharge. (\$16,108 (fee); 2010)</p> <p><b>Sena Drive Subsurface Drainage Improvements, Jefferson Parish, LA.</b> BFM provided topographic surveying services for the Sena Drive Subsurface Drainage Improvements project, which extended along Sena Drive from West Esplanade Avenue (Canal No. 2) to Nero Street. (\$13,364 (fee); 2010)</p> <p><b>Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA.</b> BFM executed a Route Topographic Survey for the project; the full scope plan &amp; profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The project area (Allo Street) extended from 4th Street to 6th Street. (\$12,855 (fee); 2019)</p> <p><b>Woodland West Subdivision Drainage Improvements, Marrero, LA.</b> BFM provided a topographic survey for the design of drainage improvement. (\$8,900 (fee); 2006)</p>

## TEC Professional Services Questionnaire

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

**Name & Title:**

**Eric Gladney**  
Survey Crew Chief

**Project Assignment:**

Survey Crew Chief

**Name of Firm with which associated:**

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

**Years experience with this Firm:**

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

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

*High School Diploma*

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

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

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

**Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA.** BFM executed a Route Topographic Survey for the project; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The project area (Allo Street) extended from 4th Street to 6th Street. (\$12,855 (fee); 2019)

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

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

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




## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
<b>Name &amp; Title:</b>
<p><b>Jeff Patin</b> Survey Crew Chief</p>
<b>Project Assignment:</b>
<p>Survey Crew Chief</p>
<b>Name of Firm with which associated:</b>

<b>Years experience with this Firm:</b>
<p>3 years (joined BFM in 2019); 23 years total (1999)</p>
<b>Education: Degree(s)/Year/Specialization:</b>
<p><i>High School Diploma</i></p>
<b>Active registration: Year first registered/discipline:</b>
<p><i>Transportation Work Identification Card (TWIC)</i></p>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Patin has worked as a Survey Crew Chief and Instrumentman for 20 years for a number of southeastern Louisiana surveying firms on projects throughout the region. His work history includes supervision of field crew personnel, operation of various survey equipment (Topcon GPT, Leica GPS, Total Station, etc.), calculations, information collection, and any &amp; all work required to execute the survey and obtain the information needed. Mr. Patin has worked on projects for various public &amp; private clients, and has performed field work under the direction of the Corps of Engineers.</p> <p><b>Coventry Drainage Pump Stations, Jefferson Parish, LA.</b> BFM provided a Route Topographic Survey with Hydrographic Survey for the project, located in River Ridge, Louisiana. The limits of survey extended from r/w to r/w along Jefferson Highway. The levee and hydrographic survey area was noted as 400 feet wide (200 ft. in either direction of the extended centerline of Colonial Heights Road). Drone Surveying was a key element of the project. The hydrographic survey extended 500 feet into the river from the water's edge. (\$89,780 (fee); 2020)</p> <p><b>Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, LA.</b> BFM provided surveying services for this Drainage Evaluation Project (PW 2018-024-DR). The scope of services included a full Route Topographic Survey (includes all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work) from gutter line to gutter line along Metairie Road from the westerly apparent right-of-way (R/W) of Causeway Boulevard to easterly apparent ROW of Focis Street. The project encompassed approximately 10,400 linear feet, with cross-sections and elevations surveyed included as part of the scope. (\$18,350 (fee); 2020)</p>

## TEC Professional Services Questionnaire

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

<b>Years experience with this Firm:</b>
<p>11 years (joined BFM in 2011); 31 years total (1992)</p>
<b>Education: Degree(s)/Year/Specialization:</b>
<p><i>Coursework - CAD, Avatech Solutions, Los Colinas, TX</i></p>
<b>Active registration: Year first registered/discipline:</b>
<p>NA</p>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Watson has experience as a draftsman/CADD technician, having started his career as an intern with the Surveying Department of the City of Plano, TX. His experience through the years includes manual and computer-aided drafting for a wide range of projects, ranging from small lot surveys to subdivisions to municipal treatment and private industrial plants. He has experience in all facets of surveying (boundary, topographic, ALTA/ACSM, plan &amp; profile, etc.) in both drafting and field environments.</p> <p><b>Mounes Street Subsurface Drainage (Phase IV, Dickory Avenue to Elmwood Park Boulevard), Jefferson Parish, LA.</b> BFM provided topographic surveying services for Phase IV of the project, part of a multiphase program to improve drainage issues on Mounes Street. Phase IV of the project involved a topographic survey of the project, extending from Dickory Avenue to Elmwood Park Boulevard. Services provided by BFM included establishment of a baseline, setting temporary benchmarks (TBMs), elevation surveys, locating improvements and utilities as well as natural elements, and right-of-way surveying. (\$23,540 (fee); 2017)</p> <p><b>Bissonet Plaza Drainage Improvements (Phase 1), Metairie, Jefferson Parish, LA.</b> BFM prepared a Route Topographic Survey for Phase 1 of the project, located at Elmwood Parkway and Craig Avenue. This project built upon work executed by the firm for a previous extensive surveying project involving Bissonet Plaza subdivision; this allowed for BFM to build upon established surveys to save time and expenses. Surveying for each element of the project included services included confirming all controls and benchmarks, topographic features, location of improvements and utilities, location of natural elements as applicable, and notation of right-of-way points. (\$7,980 (fee); 2020)</p>

## TEC Professional Services Questionnaire

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

**Name & Title:**

**Shaun Clements**  
CADD Technician

**Project Assignment:**

CADD Technician

**Name of Firm with which associated:**

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

**Years experience with this Firm:**

4 years (joined BFM in 2018); 7 years total (2015)

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

Associates of Applied Sciences, 2015, Computer Drafting and Design (ITT)

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

NA

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

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

**Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA.** BFM executed a Route Topographic Survey for the project; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The project area (Allo Street) extended from 4th Street to 6th Street. (\$12,855 (fee); 2019)

**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)

## TEC Professional Services Questionnaire

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

**Name & Title:**

**Kevin A. Roberts**  
CADD Technician

**Project Assignment:**

CADD Technician

**Name of Firm with which associated:**

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

**Years experience with this Firm:**

4 years (joined BFM in 2018); 37 years total (1985)

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

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

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

NA

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


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

**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)

**Holly Drive Drainage Project, Lewisburg Estates Subdivision, Mandeville, St. Tammany Parish, LA.** BFM provided boundary with topographic surveying of the project site (multiple lots) in the Lewisburg Estates Subdivision for the drainage project. (\$13,392 (fee); 2019)



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<p><b>Dawn Hoffman</b> Researcher/Archivist</p>
<b>Project Assignment:</b>
<p>Researcher/Archivist</p>
<b>Name of Firm with which associated:</b>

<b>Years experience with this Firm:</b>
<p>13 years (joined BFM in 2009); 25 years total (1997)</p>
<b>Education: Degree(s)/Year/Specialization:</b>
<p>A.D., 1999, Computer-Aided Drafting, Southeast College of Technology Certificate, 2003, Introduction to ArcGIS, Louisiana State University</p>
<b>Active registration: Year first registered/discipline:</b>
<p>NA</p>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p><b>West Bank Subsurface Drainage Improvement Project, Phase II, Bellemeade Boulevard to the Violet Canal Discharge, Jefferson Parish, LA.</b> BFM provided topographic surveying for the project, which encompassed Bellemeade Boulevard from Briargrove to Brookmeade and Brookmeade from Bellemeade to the Violet Canal Discharge. (\$16,108 (fee); 2010)</p> <p><b>Bissonet Plaza Drainage Improvements (Phase 1), Metairie, Jefferson Parish, LA.</b> BFM prepared a Route Topographic Survey for Phase 1 of the project, located at Elmwood Parkway and Craig Avenue. This project built upon work executed by the firm for a previous extensive surveying project involving Bissonet Plaza subdivision; this allowed for BFM to build upon established surveys to save time and expenses. Surveying for each element of the project included services included confirming all controls and benchmarks, topographic features, location of improvements and utilities, location of natural elements as applicable, and notation of right-of-way points. (\$7,980 (fee); 2020)</p> <p><b>Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA.</b> BFM executed a Route Topographic Survey for the project; the full scope plan &amp; profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The project area (Allo Street) extended from 4th Street to 6th Street. (\$12,855 (fee); 2019)</p>

## TEC Professional Services Questionnaire

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

### PROJECT NO. 1

Project Name, Location, and Owner's Contact Information:		Nature of Firm's Responsibility:	
<b>Orange Lane Drainage Pump Station Project (Drainage Mapping)</b> , Grand Isle, Jefferson Parish, Louisiana  <b>AIMS Group, Inc.</b> 4421 Zenith Street Metairie LA 70001  <b>Lowell Pitre, P.E.</b> , 504-887-7045 ljp@aimsgroupinc.com		The project consists of a new storm water pumping station on the intersection of Orange Lane at Orleans Avenue. The scope includes obtaining topographical survey information and the preparation of a drainage map for the project. Phase 1 of the project involved the topographic and right of way surveying services; BFM conducted a site topographic survey at the proposed lift station site and provided boundary surveying to determine rights of way. Phase 2 of the project established the Drainage Map. BFM located all drainage structures within the Limits of Survey; this included ditches, culverts, drain inlets, and catch basins. A drone survey was executed to gather a 25 ft elevation grid throughout the project area.	
Completion Date (Actual or estimated):		Estimated Cost:	
		Entire Project:	Work for which Firm was Responsible:
2020 August		N/A	\$32,280 (fee)

### PROJECT NO. 2

Project Name, Location, and Owner's Contact Information:		Nature of Firm's Responsibility:	
<b>Lapalco Boulevard Bridge at Harvey Canal</b> , (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, Louisiana  <b>Hardesty &amp; Hanover</b> 3850 N Causeway Blvd Ste 1850 Metairie LA 70002  <b>Babak Naghavi</b> , 504-962-9212 bnaghavi@hardestyhanover.com		BFM Corporation provided extensive surveying services for a topographic survey and right-of-way (R/W) determination for the project. Project elements included setting GPS Static Control (5 permanent control points), traversing a proposed survey line, and land topography surveying. Additional phases include hydrographic topography/bathymetric surveying of the project area, the right-of-way determination, and subsurface utility engineering (SUE). Drone Surveying was utilized throughout the project. A Route Topographic Survey was also included as part of the scope, as was Subsurface Utility Engineering (SUE).	
Completion Date (Actual or estimated):		Estimated Cost:	
		Entire Project:	Work for which Firm was Responsible:
2020 September		N/A	\$478,744 (fee)

## TEC Professional Services Questionnaire

<b>PROJECT NO. 3</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Metairie Road Drainage Evaluation,</b> Metairie, Jefferson Parish, Louisiana  <b>GEC, Inc.</b> 3445 N Causeway Blvd Ste 401 Metairie LA 70002-3779  <b>Jerome Lohmann</b> , 504-207-6926 jlohmann@gecinc.com	BFM provided surveying services for this Drainage Evaluation Project (PW 2018-024-DR). The scope of services included a full Route Topographic Survey (includes all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work) from gutter line to gutter line along Metairie Road from the westerly apparent right-of-way (R/W) of Causeway Boulevard to easterly apparent R/W of Focus Street. The project encompassed approximately 10,400 linear feet, with cross-sections and elevations surveyed included as part of the scope.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2020 May	N/A	\$18,350 (fee)

<b>PROJECT NO. 4</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Bissonet Plaza Drainage Improvements (Phase 1, Elmwood Parkway and Craig Avenue),</b> Metairie, Jefferson Parish, Louisiana  <b>Meyer Engineers Ltd.</b> 4937 Hearst St. Ste. B Metairie LA 70001  <b>Ana Theriot, P.E.</b> , 504-885-9892	BFM prepared a Route Topographic Survey for Phase 1 of the project, located at Elmwood Parkway and Craig Avenue. This project built upon work executed by the firm for a previous extensive surveying project involving Bissonet Plaza subdivision; this allowed for BFM to build upon established surveys to save time and expenses. Surveying for each element of the project included services included confirming all controls and benchmarks, topographic features, location of improvements and utilities, location of natural elements as applicable, and notation of right-of-way points.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2020 Marc	h	\$7,980 (fee)

## TEC Professional Services Questionnaire

<b>PROJECT NO. 5</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Coventry Drainage Pump Stations,</b> Jefferson Parish, Louisiana  <b>ECM Consultants, Inc.</b> 1301 Clearview Pkwy Ste 200 Metairie LA 70001  <b>Sunina Shrestha, 504-885-4080</b> SShrestha@ecmconsultants.com	BFM provided a Route Topographic Survey with Hydrographic Survey for the project, located in River Ridge, Louisiana. The limits of survey extended from r/w to r/w along Jefferson Highway. The levee and hydrographic survey area was noted as 400 feet wide (200 ft. in either direction of the extended centerline of Colonial Heights Road). Drone Surveying was a key element of the project. The hydrographic survey extended 500 feet into the river from the water's edge.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2020	N/A	\$89,780 (fee)
<b>PROJECT NO. 6</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Avenue D Drainage Improvements (Phase VIII: Allo Street),</b> Metairie, Jefferson Parish, Louisiana  <b>Hartman Engineering, Inc.</b> 16563 Airline Hwy Ste A&B Prairieville LA 70769  <b>Jared Monceaux, P.E., 225-313-4617</b> jmonceaux@harteng.com	BFM executed a Route Topographic Survey for the project; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The project area (Allo Street) extended from 4th Street to 6th Street.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2019 April	N/A	\$12,855 (fee)



## TEC Professional Services Questionnaire

<b>PROJECT NO. 7</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Mounes Street Subsurface Drainage (Phase IV, Dickory Avenue to Elmwood Park Boulevard),</b> Jefferson Parish, Louisiana  <b>APTIM</b> 2424 Edenborn Avenue Suite 450 Metairie LA 70001  <b>Gene S. Gillen, P.E.,</b> 504-832-4881 info@aptim.com	BFM provided topographic surveying services for Phase IV of the project, part of a multiphase program to improve drainage issues on Mounes Street. Phase IV of the project involved a topographic survey of the project, extending from Dickory Avenue to Elmwood Park Boulevard. Services provided by BFM included establishment of a baseline, setting temporary benchmarks (TBMs), elevation surveys, locating improvements and utilities as well as natural elements, and right-of-way surveying.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2017 December	N/A	\$23,540 (fee)

<b>PROJECT NO. 8</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Waggaman Canal Relocation Survey (Jefferson Parish Landfill Sites),</b> Jefferson Parish, Louisiana  <b>CDMSmith</b> 1515 Poydras St Ste 1000 New Orleans LA 70112  <b>Jenny Bywater, P.E.,</b> 504-799-1168 bywaterje@cdmsmith.com	BFM Corporation was contracted to provide boundary, right-of-way, and topographic surveying services for the project site. Location of improvements were plotted within the designated limits of the survey; this included buildings, fences, light standards, traffic control devices, signage, structures, pavement, and other topographic features. Existing storm sewer and sanitary sewers were located using top of casing; invert elevations were provided on the survey.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2016 February	N/A	\$19,940 (fee)

## TEC Professional Services Questionnaire

<b>PROJECT NO. 9</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Mounes Subsurface Drainage – Phase I,</b> Jefferson Parish, Louisiana  <b>CB&amp;I</b> 2424 Edenborn Avenue Suite 450 Metairie LA 70001  <b>Gene S. Gillen, P.E.,</b> 504-832-4881 gene.gillen@cbi.com	BFM provided all requested topographic surveying services for Phase I of the Mounes Subsurface Drainage project, which extended from Dickory to Elmwood Park Boulevard).	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2017 April	N/A	\$26,240 (fee)

<b>PROJECT NO. 10</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>North Arnoult Drainage Pump Station Improvements,</b> Jefferson Parish, Louisiana  <b>Hartman Engineering, Inc.</b> 527 W. Esplanade Ave Suite 300 Kenner LA 70065  <b>Rolland A. Mura,</b> 504-466-5667	BFM's project services included both boundary and topographic surveying of the project site.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2019 May	N/A	\$6,870 (fee)

## TEC Professional Services Questionnaire

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

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1.	<div style="border: 1px solid black; padding: 5px; margin: 5px;"> <i>BFM Corporation 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.**

# BFM CORPORATION, LLC

Professional Land & Hydrographic Surveying

### CRITERIA 1 • PROFESSIONAL TRAINING AND RELEVANT PROJECT EXPERIENCE

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

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

Our capabilities include the following and more:

- **Topographic Surveying**
- **Drone Surveying / Photogrammic and LiDAR**
- **Bathymetric / Hydrographic Surveys**
- **Property, Boundary, and Right-of-Way Surveys**

## TEC Professional Services Questionnaire

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

### PROJECT NO. 1

Project Name, Location, and Owner's Contact Information:		Nature of Firm's Responsibility:	
<b>Bissonet Plaza Drainage Improvements (Phase 1, Elmwood Parkway and Craig Avenue),</b> Metairie, Jefferson Parish, Louisiana  <b>Meyer Engineers Ltd.</b> 4937 Hearst St. Ste. B Metairie LA 70001  <b>Ana Theriot, P.E.,</b> 504-885-9892		BFM prepared a Route Topographic Survey for Phase 1 of the project, located at Elmwood Parkway and Craig Avenue. This project built upon work executed by the firm for a previous extensive surveying project involving Bissonet Plaza subdivision; this allowed for BFM to build upon established surveys to save time and expenses. Surveying for each element of the project included services included confirming all controls and benchmarks, topographic features, location of improvements and utilities, location of natural elements as applicable, and notation of right-of-way points.	
Completion Date (Actual or estimated):		Estimated Cost:	
		Entire Project:	Work for which Firm was Responsible:
2020 March		N/A	\$7,980 (fee)

### PROJECT NO. 2

Project Name, Location, and Owner's Contact Information:		Nature of Firm's Responsibility:	
<b>Lapalco Boulevard Bridge at Harvey Canal,</b> (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, Louisiana  <b>Hardesty &amp; Hanover</b> 3850 N Causeway Blvd Ste 1850 Metairie LA 70002  <b>Babak Naghavi,</b> 504-962-9212 bnaghavi@hardestyhanover.com		BFM Corporation provided extensive surveying services for a topographic survey and right-of-way (R/W) determination for the project. Project elements included setting GPS Static Control (5 permanent control points), traversing a proposed survey line, and land topography surveying. Additional phases include hydrographic topography/bathymetric surveying of the project area, the right-of-way determination, and subsurface utility engineering (SUE). Drone Surveying was utilized throughout the project. A Route Topographic Survey was also included as part of the scope, as was Subsurface Utility Engineering (SUE).	
Completion Date (Actual or estimated):		Estimated Cost:	
		Entire Project:	Work for which Firm was Responsible:
2020 September		N/A	\$478,744 (fee)



## TEC Professional Services Questionnaire

N. continued.

- **Maps, Cross-Sections, and Data Sets**
- **3D Laser Scanning**
- **Benchmarks**
- **Construction-Related Surveying**
- **Builder's Package Surveys**
- **American Land Title Association (ALTA) Surveys**

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

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

BFM offers **Drone Surveying Services**, featuring a DJI Matrice 600 Pro drone outfitted with a Sony A7R3 42-megapixel camera, Pixhawk Triggering System, VMAP PPK system, and an A3 Pro Flight Controller. It can capture 50 acres of land in that time (with a flight ceiling of 165 feet, pixel quality is 0.71 CM). This allows BFM to quickly & accurately capture data and facilitates quicker field work to produce highly accurate and precise surveying information. Deliverables feature Clean Point Cloud, 3D Mesh, Orthomosaic, and AutoCAD DWG Topographic.

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

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

**Please refer to the projects presented in Item L of this form as well as our personnel bios for an overview of relevant project work executed by BFM Corporation.**

## TEC Professional Services Questionnaire

N. continued.

### CRITERIA 2 • CAPACITY FOR TIMELY COMPLETION OF NEWLY-ASSIGNED WORK

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

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

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

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

### CRITERIA 3 • LOCATION OF PRINCIPAL OFFICE

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

### CRITERIA 4 • ADVERSARIAL LEGAL PROCEEDINGS WITH PARISH

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

### CRITERIA 5 • PRIOR SUCCESSFUL COMPLETION OF PROJECTS

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

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

## TEC Professional Services Questionnaire

N. continued.

- **Angela DeSoto, P.E.**, Director of Engineering, Jefferson Parish (504-736-6511 | ADeSoto@jeffparish.net)
- **Sid Trouard, P.E.**, Program Manager, Jefferson Parish Sewerage Capital Improvement Program (504-736-6386 | STrouard@jeffparish.net)
- **Tom Schreiner**, Deputy CAO, Public Works & Capital Projects, City of Kenner (504-468-7515 | tschreiner@kenner.la.us)
- **Greg Cromer**, Mayor, City of Slidell (985-646-4333 | gcromer@cityofslidell.org)

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

### CRITERIA 6 • SIZE OF FIRM

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

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

### CRITERIA 7 • PAST PERFORMANCE ON PARISH CONTRACTS

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

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

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

Signature: 

Print Name: Chad M. Poché, P.E.

Title: Executive Vice President

Date: March 10, 2022

## **Section 3**

**Gulf South Engineering &  
Testing, Inc.**

***TEC Professional Services Questionnaire***



## TEC Professional Services Questionnaire

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

## Routine Engineering Services for Drainage Projects

SOQ 22-011 | Resolution No. 138811

### B. Firm Name & Address:



**Gulf South Engineering and Testing, Inc.**

15 Veterans Memorial Boulevard

Kenner LA 70062

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

**Chad M. Poché, P.E., Principal/Vice President**

telephone 504-305-4401 • cpoche@gulfsoutheng.com

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

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

**Chad M. Poché, P.E., Principal/Vice President**

telephone 504-305-4401 • cpoche@gulfsoutheng.com

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

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

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

\*employee count also include two CMT Supervisors, 1 Senior Engineering Technician, 1 Field Engineer, 3 Laboratory Technicians, 1 Soil Boring Driller, and one Soil Boring Driller Apprentice

**32\* TOTAL**

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

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

## TEC Professional Services Questionnaire

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

1. N/A

2.

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

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

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

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

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

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

## TEC Professional Services Questionnaire

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

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

**Name & Title:**

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

**Project Assignment:**

Engineering Manager; Geotechnical Engineer

**Name of Firm with which associated:**



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

**Years experience with this Firm:**

11 years with this firm (2011); 29 years total (1993)

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

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

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

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

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

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

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

## TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

*Chad M. Poché, P.E. (continued)*

**Drainage Infrastructure Improvements, South Avondale Subdivision, Avondale, Jefferson Parish, LA.**

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

**Metairie Lawn and Ridgelake Drive Roadway & Utility Project, Metairie, Jefferson Parish, LA.**

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

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

**Trudeau Drive Drainage Improvements at West Metairie Canal, Metairie, Jefferson Parish, LA.**

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

**David Dr. Drainage Improvements (W. Esplanade Avenue to Bruin Drive), Jefferson Parish, LA.**

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

**Drainage Improvement to North Sibley Drive at West Napoleon Avenue, Metairie, Jefferson Parish, LA.**


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

**Westgate Drainage Improvements, Metairie, Jefferson Parish, LA.**

Gulf South performed field and laboratory testing during construction of various drainage improvements. Scope included earthwork testing & inspection and concrete testing & inspection. (\$8,000 (fee); 2018)



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Blake E. Vutera, P.E.</b> Engineering Manager
<b>Project Assignment:</b>
Geotechnical Engineer
<b>Name of Firm with which associated:</b>
 <b>ENGINEERING AND TESTING, INC.</b> Geotechnical & Materials Consultants
<b>Years experience with this Firm:</b>
10 years with this firm (2012); 16 years total (2006)
<b>Education: Degree(s)/Year/Specialization:</b>
M.S., 2018, Civil Engineering, University of New Orleans Certification - Coastal Engineering, 2018, University of New Orleans B.S., 2008, Civil Engineering, Louisiana State University
<b>Active registration: Year first registered/discipline:</b>
2013, Civil Engineer, Louisiana, No. 38607 2018, Professional Engineer, Texas No. 129410
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Vutera serves as Gulf South's Engineering Manager and is based in Gulf South's Kenner, LA office. His experience with the firm includes daily work on geotechnical engineering projects as well as managing all geotechnical investigations and providing assistance with laboratory testing and construction materials testing and inspection. Engineering analyses that Mr. Vutera routinely performs include: shallow and deep foundations, slope stability analyses, settlement estimates, and pavement design. He is responsible for engineering design, report preparation, proposal preparation, personnel management, project management, and client interaction.</p> <p>Mr. Vutera's field work consists of borehole logging; installation of ground water monitoring wells, piezometers, and inclinometers; overseen and evaluated pile load tests; overseen, performed, and evaluated dynamic pile testing (PDA and PIT); pavement coring; nuclear field density tests; and hand augers. Mr. Vutera has been the geotechnical engineer of record for hundreds of projects throughout his career.</p> <p><b>Metairie Lawn and Ridgelake Drive Roadway &amp; Utility Project, Metairie, Jefferson Parish, LA.</b>          Geotechnical engineering services for construction of a new roadway paving and below grade drainage pipeline in Metairie, LA. Gulf South's scope includes drilling five (5) auger borings to a depth of 20 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$8,500 (fee); 2021)</p>

## TEC Professional Services Questionnaire

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

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

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

**Verrett Canal Slope Instability Project, West Bank Drainage Department, Harvey, Jefferson Parish, LA.** Geotechnical engineering services for the potential solution (i.e. retaining wall, etc.) for the surface movement at the top slope of Verrett Canal located at 89 Natchez Trace in Harvey, LA. Gulf South's scope includes drilling a single undisturbed soil boring (depth of 60 ft. bgs), laboratory testing, engineering analyses and general construction procedures and recommendations. (\$5,000 (fee); 2020)

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


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

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

**France Road - North Paving and Drainage Improvements, WO 1-168, Port of New Orleans, LA.** Geotechnical investigation for proposed pavement overlay/reconstruction of 1.5 miles of France Road in New Orleans. Scope includes drilling 16 soil borings each to a depth of 4 feet below the existing pavement surface, lab testing, and engineering analyses including flexible pavement design recommendation (overlay & reconstruction) and general construction procedures and recommendations. (\$14,250 (fee); 2016)

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

## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
<b>Name &amp; Title:</b>	
<b>Joseph H. “Trey” Binder, III</b> Laboratory Manager	
<b>Project Assignment:</b>	
Laboratory Manager; Laboratory Technician	
<b>Name of Firm with which associated:</b>	
<div style="display: flex; align-items: center;">  <div> <b>ENGINEERING AND TESTING, INC.</b>  <small>Geotechnical &amp; Materials Consultants</small> </div> </div>	
<b>Years experience with this Firm:</b>	
11 years with this firm (2011); 16 years total (2006)	
<b>Education: Degree(s)/Year/Specialization:</b>	
A.D., 2011, General Studies, Nunez Community College	
<b>Active registration: Year first registered/discipline:</b>	
N/A	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<div style="display: flex;"> <div style="flex: 1;"> <p>Mr. Binder has direct experience with field and laboratory testing services, and is NICET certified in multiple disciplines, including Construction Materials Testing Soils, Geotechnical Engineering Technologies Exploration, and Geotechnical Engineering Technologies Laboratory (Level I). Mr. Binder has HAZMAT Awareness and Operations Training.</p> <p>Mr. Binder’s field work includes soil inspection and testing consisting of nuclear density testing and soil boring logging, vibration monitoring, pile inspection, concrete testing and inspection, asphalt testing and inspection, and pavement coring. In the laboratory, Mr. Binder has performed soil laboratory testing consisting of unconfined compression strength tests, triaxial strength tests, Atterberg limits, organic content tests, moisture and density tests, Proctor compaction tests, sieve analyses, and sample extrusion.</p> <p><b>Taft Park Drainage Improvements, Jefferson Parish, LA.</b> 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><b>Citrus Road and Greg Court Subsurface Drainage Improvements, Jefferson Parish, LA.</b> Gulf South provided the materials testing and inspection during construction. Gulf South’s scope of services included vibration monitoring, bedding and backfill testing, compaction/density tests, and concrete testing and inspection. (\$20,000 (fee); 2019)</p> </div> <div style="flex: 0.5; border: 1px solid black; padding: 5px; margin-left: 10px;"> <ul style="list-style-type: none"> <li>HAZMAT Awareness</li> <li>HAZMAT Operations Training</li> <li>ACI Aggregate Base Testing Technician</li> </ul> </div> </div>	

## TEC Professional Services Questionnaire

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

*Joseph H. Binder, III (continued)*

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

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

**France Road - North Paving and Drainage Improvements, WO 1-168, Port of New Orleans, LA.** Geotechnical investigation for proposed pavement overlay/reconstruction of 1.5 miles of roadway (France Rd.) in New Orleans, LA. Gulf South's scope includes drilling 16 soil borings each to a depth of 4 feet below the existing pavement surface, lab testing, and engineering analyses including flexible pavement design recommendation (overlay & reconstruction) and general construction procedures and recommendations. (\$14,250 (fee); 2016)

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

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

**Westgate Drainage Improvements, Metairie, Jefferson Parish, LA.** Gulf South performed field and laboratory testing during construction of various drainage improvements. Scope included earthwork testing & inspection and concrete testing & inspection. (\$8,000 (fee); 2018)

**Drainage Upgrades and Green Infrastructure Improvements, Hagan Avenue & Lafitte Avenue, City of New Orleans, LA.** Geotechnical investigation for new drainage upgrades and green infrastructure improvements between Hagan & Lafitte Avenues (to Orleans Avenue and Broad Street) in New Orleans, LA. Gulf South's scope includes drilling 13 soil borings with five borings to a depth of 30 feet and eight to a depth of 20 feet below existing paved/ground surface, laboratory testing, and engineering analyses for net allowable soil bearing values, estimates of settlement, bedding and backfill recommendations, lateral earth pressures, rigid and/or flexible pavement design recommendations, infiltration/permeability rates of near-surface soils, and general construction procedures and recommendations. Phase 2 includes piezometer well installations. (\$21,799 (fee); 2016)

## TEC Professional Services Questionnaire

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

**Name & Title:**

**Sara E. Lockwood, E.I.**  
Graduate Geotechnical Engineer

**Project Assignment:**

Graduate Geotechnical Engineer/Engineering Intern

**Name of Firm with which associated:**



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

**Years experience with this Firm:**

3 years with this firm (2019); 5 years total (2017)

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

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

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

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

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

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

- Society of Women Engineers
- American Society of Civil Engineers

**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)

**Roadway and Drainage Infrastructure Improvements (Destrehan Drive and River Oaks Drive), Destrehan, St. Charles Parish, LA.** Gulf South provided geotechnical engineering services for drainage improvements at two existing roadways sites within the City of Destrehan. Scope includes drilling six undisturbed soil borings (depths of 10 ft. below the ground surface), laboratory testing, engineering analyses and general construction procedures and recommendations. (\$4,500 (fee); 2021)



## TEC Professional Services Questionnaire

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

*Sarah E. Lockwood (continued)*

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

**Mississippi River Discharge Pump Station, River Ridge, Jefferson Parish, LA.** Gulf South provided geotechnical engineering services for the construction of a new pump station and force main discharge pipeline between Coventry Court and Lee Court in River Ridge. Scope includes drilling four undisturbed soil borings (one at 100 ft., one at 80 ft., and two at 30 ft.; all below ground surface), laboratory testing, engineering analyses and general construction procedures and recommendations. (\$35,000 (fee); 2020)

**Soniat Canal Stabilization, Harahan, Jefferson Parish, LA.** Geotechnical engineering services for the construction of the stabilization of the east bank of Soniat Canal for approximately 1,700 linear feet in Harahan, LA. Gulf South's scope includes drilling three undisturbed soil borings to depths of 50 feet below the ground surface, laboratory testing, engineering analyses (slope stability analysis) and general construction procedures and recommendations. (\$10,000 (fee); 2020)


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

**Upper Barataria Risk Reduction Project, Lafourche Basin Levee District (LBLD), Lafourche Parish, LA.** Geotechnical investigation for a flood protection project in Lafourche Parish, LA. Project consists of a new earthen levee (totaling approx. 8.8 to 9 miles or 47,000 lf) and control structure. Gulf South's scope includes drilling three undisturbed soil borings to depths of 60 feet (1 boring in canal and 1 boring on land), 200 feet (1 boring in shallow water) and performing five CPT probes to 60 feet below apparent mud line, lab testing (with 1-D Consoles), and engineering analyses including site/soil characterization, slope stability analyses, unbalance forces for structures, allowable pile load capacities, estimates of settlement, and general construction recommendations. (\$100,000 (fee); 2020)

**Proposed Roads and Ponds, Cane Ridge Subdivision, Addis, West Baton Rouge Parish, LA.** Geotechnical engineering services for the construction of a new paved roads and a pond area for a future residential development off S. Vaughan Dr. in Addis, LA. Gulf South's scope includes drilling four undisturbed soil borings (depths of 8 feet & 20 feet below ground surface), laboratory testing, engineering analyses and general construction procedures and recommendations. (\$4,000 (fee); 2019)

**New Orleans Streets Program (RR 001), Audubon Group A, City of New Orleans, LA.** Gulf South provided construction materials testing and inspection during construction of RR 001, Audubon Group A project. Scope includes soil density tests, concrete inspection and testing, vibration monitoring, and earthwork testing. (\$49,803 (fee); ongoing)

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>	
<b>Name &amp; Title:</b>	
<p style="margin: 0;"><b>Christopher Boutwell</b> Construction Materials Testing (CMT) Supervisor</p>	
<b>Project Assignment:</b>	
<p style="margin: 0;">Construction Materials Testing (CMT) Supervisor</p>	
<b>Name of Firm with which associated:</b>	
<div style="display: flex; align-items: center;">  <div> <p style="margin: 0;"><b>ENGINEERING AND TESTING, INC.</b> Geotechnical &amp; Materials Consultants</p> </div> </div>	
<b>Years experience with this Firm:</b>	
<p style="margin: 0;">10 years with this firm (2012); 13 years total (2009)</p>	
<b>Education: Degree(s)/Year/Specialization:</b>	
<p style="margin: 0;"><i>High School Diploma</i></p>	
<b>Active registration: Year first registered/discipline:</b>	
<p style="margin: 0;">N/A</p>	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<div style="display: flex;"> <div style="flex: 1;"> <p>Mr. Boutwell serves as a CMT Supervisor in Gulf South's Kenner, LA office. As a CMT Supervisor, Mr. Boutwell is responsible for scheduling technicians, technical training, resolving technical and personnel issues, equipment maintenance, preparing proposals, reviewing reports, and client interaction. Mr. Boutwell's construction monitoring experience includes nuclear density testing, concrete testing and inspection, asphalt inspection, earthwork testing and inspection, driven pile inspection, vibration monitoring, augercast pile inspection, and drilled shaft inspection. Mr. Boutwell is proficient in the following laboratory tests: soil and concrete compressive strength, moisture content, grain size sieve, organic content, Proctor compaction, lime/soil and soil/cement % determinations, density tests, and Atterberg limits.</p> <p>Mr. Boutwell has logged soil borings, performed pile load tests, floor flatness testing, anchor bolt pull out tests, obtained and secured samples from soil borings and borrow pits, and completed hand augers. Mr. Boutwell routinely operates Gulf South's pavement coring machines.</p> <p><b>Waggaman Subsurface Drainage Improvements, Waggaman, Jefferson Parish, LA.</b> Project consisted of the construction of new below grade drainage features and piping for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Our scope of services included performing pile plant inspection, pile monitoring during installation, vibration monitoring, concrete testing and inspection, earthwork testing and inspection including soil sampling and field density tests, and steel inspection. (\$7,000 (fee); 2016)</p> </div> <div style="flex: 0.5; border: 1px solid black; padding: 5px; margin-left: 10px;"> <ul style="list-style-type: none"> <li>ACI Concrete Field Testing – Grade I</li> <li>APNGA Nuclear Moisture/Density Gauge Training</li> <li>OSHA Safety Training – 8 hr.</li> </ul> </div> </div>	

## TEC Professional Services Questionnaire

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

*Christopher Boutwell (continued)*

**Westgate Drainage Improvements, Metairie, Jefferson Parish, LA.** Gulf South performed field and laboratory testing during construction of various drainage improvements. Scope included earthwork testing & inspection and concrete testing & inspection. (\$8,000 (fee); 2018)

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

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

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

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

**N. Sibley Drainage Improvements (N. Sibley at W. Napoleon), Metairie, Jefferson Parish, LA.** Gulf South provided the material testing and inspection during construction of the project. Services consisted of pile monitoring and inspection, density tests, and concrete testing and inspection. (\$5,000 (fee); 2021)

**Roadway and Drainage Infrastructure Improvements (Destrehan Drive and River Oaks Drive), Destrehan, St. Charles Parish, LA.** Gulf South provided geotechnical engineering services for drainage improvements at two existing roadway sites within the City of Destrehan in St. Charles Parish, LA. Scope of services includes drilling six undisturbed soil borings (depths of 10 ft. below the ground surface), laboratory testing, engineering analyses and general construction procedures and recommendations. (\$4,500 (fee); 2021)

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

**St. Peter's Ditch (4700 W. Metairie Ave.), Metairie, Jefferson Parish, LA.** Gulf South performed field and laboratory testing during the improvements of drainage at LA 3152 and LA 3139 (Phase 3C), including vibration monitoring. (\$25,000 (fee); 2015)

## TEC Professional Services Questionnaire

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

**Name & Title:**

**Ross L. White**  
Soil Boring Driller

**Project Assignment:**

Soil Boring Driller

**Name of Firm with which associated:**



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

**Years experience with this Firm:**

4 years with this firm (2018); 13 years total (2009)

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

High School Diploma

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

N/A

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

Mr. White is a soil boring driller with over a decade of experience as a soil boring driller and driller's helper, and has operated truck, track, and ATV mounted drilling rigs. In addition, he has performed soil borings over water on a barge and using barge drilling equipment. Mr. White is very familiar with the soils of Louisiana and Southeast Texas.

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

**Latigue Road Extension (Phase I; Live Oak Blvd. to Foundry Rd.), Jefferson Parish, LA.** Geotechnical investigation for a new paved extension road (approx. 1,000 lf) between Live Oak Boulevard and Foundry Road in Jefferson Parish, LA. Gulf South's scope includes drilling undisturbed soil borings (three at 10 ft.), lab testing, and engineering analyses including flexible pavement design recommendations and general construction procedures & recommendations. (\$7,000 (fee); 2018)

**Roadway Rehabilitation and Drainage Improvements, McClellan Street (Area A), City of New Orleans, LA.** Soil boring investigation for construction of a new roadway and drainage improvements at the Jackson Barracks at 6400 St. Claude Avenue in New Orleans, LA. Gulf South's scope includes drilling undisturbed soil borings (three to a depth of 15 ft), lab testing, and engineering analyses including flexible and/or rigid pavement design recommendations, allowable soil bearing values (below grade), bedding and backfill recommendations for piping, and general construction procedures and recommendations. (\$3,000 (fee); 2019)

## TEC Professional Services Questionnaire

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

*Ross L. White (continued)*

**Fish Bayou Control Structure (Alligator Bayou Road), Ascension Parish, LA.** Geotechnical investigation for new flood control structure across Alligator Bayou Road in Ascension Parish, LA. Gulf South's scope includes drilling three undisturbed soil borings ranging in depth from 6 to 60 feet, lab testing, and engineering analyses including allowable soil bearing values, allowable pile/shaft load capacities, estimates of settlement, rigid and/or flexible pavement design recommendations, and general construction procedures and recommendations. (\$6,000 (fee); 2018)

**Lift Station F-13-6 Replacement, Marrero, Jefferson Parish, LA.** Geotechnical investigation for construction of a new lift station replacing an existing one off Ehret Road and Broas Street in Marrero, LA. Gulf South's scope includes drilling a single 80 ft. undisturbed soil boring, lab testing, and engineering analyses including below grade foundation recommendations, allowable pile load capacities, estimates of settlement, bedding and backfill recommendations, and general construction procedures and recommendations. (\$7,900 (fee); 2019)

**New Sewer Lift Station (Butler Drive & Grambling Street), Waggaman, Jefferson Parish, LA.** Geotechnical investigation for a new sewer lift station (8 ft. diameter and 12 ft. bgs) at intersection of Butler Dr. and Grambling St. in Waggaman, LA. Gulf South's scope includes drilling one undisturbed soil boring to a depth of 60 feet, lab testing, and engineering analyses including net allowable soil bearing values, bedding and backfill recommendations, allowable pile load capacities, estimate of settlement, and general construction procedures and recommendations. (\$7,500 (fee); 2018)


**New Sewer Lift Station (Melrose Lane & Walker Road), River Ridge, Jefferson Parish, LA.** Geotechnical investigation for the construction of a new lift station near Melrose Lane and Walter Road in River Ridge, LA. Gulf South's scope includes drilling one undisturbed soil boring to a depth of 80 feet, lab testing, and engineering analyses including net allowable soil bearing values, below ground foundation recommendations, allowable pile load capacities, estimates of settlement, and general construction procedures and recommendations. (\$7,500 (fee); 2018)

**South Toledo Bend State Park Roadway, Culvert, and Erosion Repair, Toro, Sabine Parish, LA.** Geotechnical engineering services for the reconstruction of existing roadways (Bald Eagle Road and Aquilla Road), below ground drainage, and embankment stability improvements at S. Toledo Bend State Park located south of Toro in Sabine Parish, LA. Gulf South's scope includes drilling 13 undisturbed soil borings (depths of 40 ft. & 6 ft. below the ground surface), two inclinometers, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$23,000 (fee); 2020)

**New Lift Station (Elmwood Park Blvd. & Citrus Blvd.), Metairie, Jefferson Parish, LA.** Geotechnical investigation for construction of a new sewer lift station near the intersection of Elmwood Park Boulevard and Citrus Boulevard in Metairie, LA. Gulf South's scope includes drilling a single undisturbed soil boring (depth of 80 ft), lab testing, and engineering analyses including net allowable soil bearing values (as appropriate), below grade foundation recommendations, allowable pile load capacities (timber), estimates of settlement, rigid and/or flexible pavement design recommendations, and general construction procedures and recommendations. (\$7,500 (fee); 2018)



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>	
<b>Name &amp; Title:</b>	
<p><b>Wyatt M. Jones</b> Field Supervisor; Drilling and Engineering Technician</p>	
<b>Project Assignment:</b>	
Field Supervisor; Drilling and Engineering Technician	
<b>Name of Firm with which associated:</b>	
<div style="display: flex; align-items: center;">  <div> <p><b>ENGINEERING AND TESTING, INC.</b> Geotechnical &amp; Materials Consultants</p> </div> </div>	
<b>Years experience with this Firm:</b>	
2 year with this firm (2020); 5 years total (2017)	
<b>Education: Degree(s)/Year/Specialization:</b>	
<i>Construction Management, Delgado College (ongoing)</i>	
<b>Active registration: Year first registered/discipline:</b>	
N/A	
<b>Other experience and qualifications relevant to the proposed Project:</b>	
<div style="display: flex;"> <div style="flex: 1;"> <p>Mr. Jones serves as a Field Engineer with Gulf South Engineering and Testing, providing drilling and engineering support services on a variety of projects. His experience includes soil boring logging, field and site reconnaissance, and soil &amp; concrete material testing. Mr. Jones' project responsibilities have included overseeing drilling operations, planning, and coordination of field tasks. He has served as a client liaison, assembled boring layout plans, and supervised drill crews onsite while classifying testable soil samples.</p> <p>In previous positions, Mr. Jones performed all duties of a CCRL accredited lab, including monitoring and coordinating calibrations for all lab and field equipment, performing various tests on concrete and soil specimens, recording and organizing test results. As a CCTV operator, he piloted a robotic operations system underground shooting video of sewer and utility lines; this included using sonar and GPS coordinates to pinpoint utility locations.</p> <p><b>Mississippi River Discharge Pump Station, River Ridge, Jefferson Parish, LA.</b> Gulf South provided geotechnical engineering services for the construction of a new pump station and force main discharge pipeline between Coventry Court and Lee Court in River Ridge. Scope includes drilling four undisturbed soil borings (one at 100 ft., one at 80 ft., and two at 30 ft.; all below ground surface), laboratory testing, engineering analyses and general construction procedures and recommendations. (\$35,000 (fee); 2020)</p> </div> <div style="flex: 0.5; border: 1px solid black; padding: 5px; margin-left: 10px;"> <ul style="list-style-type: none"> <li>Entergy PowerSafe</li> <li>OSHA Safety Training – 8 hr.</li> </ul> </div> </div>	

## TEC Professional Services Questionnaire

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

*Wyatt M. Jones (continued)*

**Ole Miss Sewer Force Main, City of Kenner, LA.** Geotechnical engineering services for the construction of a new sewer force main along Ole Miss Drive from the John Hopkins Lift Station to 35th Street within Kenner, LA. The force main was 10-in in diameter, approximately 2,100 lf, and installed 10 to 15 feet deep via directional drilling. Gulf South's scope includes drilling four undisturbed soil borings to depths of 20 ft bgs, laboratory testing, engineering analyses and general construction procedures and recommendations. (Kenner PW-2020-2-SW) (\$8,000 (fee); 2021)

**Sewer Lift Station at Mississippi Avenue & 21st Street, Metairie, Jefferson Parish, LA.** Gulf South performed construction materials testing and inspection. Services included soil density tests, earthwork inspection and testing, backfill compaction testing, and concrete testing. (\$8,000 (fee); 2021)

**Roadway Reconstruction – North Carnation Street, City of Slidell, LA.** Geotechnical engineering services for the reconstruction of a new roadway along N. Carnation Street in Slidell, LA. Gulf South's scope includes drilling three undisturbed soil borings to depths of 6 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$2,500 (fee); 2020)

**Almonaster Street (N.E. Approach), Port of New Orleans, New Orleans, LA.** Geotechnical engineering services for construction of a new NE approach to Almonaster Street in New Orleans, LA. Gulf South's scope includes drilling two auger borings to a depth of 10 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$4,900 (fee); 2020)

**Geotechnical Investigation for a New Bulkhead, Beverly Industries, Chalmette, St. Bernard Parish, LA.** The project consists of constructing a new bulkhead along the east descending bank of the Mississippi River at Beverly Industries' facility in Chalmette, LA. Gulf South's scope of services include drilling a single undisturbed soil boring (depth of 100 ft below existing ground surface), backfilled in accordance with Louisiana DOTD/DEQ requirements. Geotechnical laboratory testing includes strength tests, classification tests (Atterberg Limits and/or particle size), and other tests deemed necessary. Engineering review includes development of recommendations and analyses, including allowable shaft/pile load capacities, bulkhead sheet-pile wall design parameters, slope stability analyses, and general construction procedures and recommendations. (\$7,500 (fee); 2021)

**Bayou Gauche/Sunset Levee - New Roller Gate, Upper Barataria Risk Reduction Program Segment 2, St. Charles Parish, LA.** Geotechnical investigation for construction of a new roller gate and T-wall structures within the UBRR flood protection/risk reduction system in St. Charles Parish, LA. Gulf South's scope includes drilling undisturbed soil borings (2 at 200 ft.), CPT probes (2 at 200 ft.), lab testing (including consolidation tests), and engineering analyses including site/soil characterization, global/local SSA for floodwalls, levee tie-ins, and floodgates, design levee lift stability, seepage analyses for sheetpile walls, settlement/downdrag analyses, unbalanced forces for structures, pile load capacities, pile foundation load-deflection relationship, estimates of settlement, ground improvement recommendations, and general construction procedures and recommendations. The borings and CPT were performed over water using barge-mounted equipment. (\$110,880 (fee); 2020)

## TEC Professional Services Questionnaire

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

### PROJECT NO. 1

Project Name, Location, and Owner's Contact Information:		Nature of Firm's Responsibility:	
<b>Metairie Lawn and Ridgelake Drive Roadway &amp; Utility Project,</b> Metairie, Jefferson Parish, Louisiana  <b>Ardurra Group, Inc.</b> 3012 26th Street Metairie LA 70002  <b>Joe Becker, P.E.,</b> 504-454-3866 jbecker@ardurra.com		Geotechnical engineering services for construction of a new roadway paving and below grade drainage pipeline in Metairie, LA. Gulf South's scope includes drilling five (5) auger borings to a depth of 20 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations.	
Completion Date (Actual or estimated):		Estimated Cost:	
		Entire Project:	Work for which Firm was Responsible:
2021 January		N/A	\$8,500 (fee)

### PROJECT NO. 2

Project Name, Location, and Owner's Contact Information:		Nature of Firm's Responsibility:	
<b>Drainage Improvements, Citrus Road &amp; Greg Court,</b> Metairie, Jefferson Parish, Louisiana  <b>Jefferson Parish c/o Buchart Horn</b> 18163 E Petroleum Drive, Suite A Baton Rouge LA 70809  <b>Alan Krouse, P.E.,</b> 225-308-2009 akrouse@bucharthorn.com  <b>Reda Youssef, P.E.</b> ryoussef@jeffparish.net		Geotechnical investigation for drainage improvements (2000 lf) along Citrus Road & Greg Court (to Jefferson Highway) in Metairie, LA. Gulf South's scope includes pavement coring and drilling five undisturbed soil borings each to 20 feet below ground surface, lab testing, and engineering analyses (including allowable soil bearing values, bedding and backfill recommendations), estimates of settlement, pavement design recommendations, and general construction recommendations.	
Completion Date (Actual or estimated):		Estimated Cost:	
		Entire Project:	Work for which Firm was Responsible:
2017 May		N/A	\$8,500 (fee)

## TEC Professional Services Questionnaire

<b>PROJECT NO. 3</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Airline Park Boulevard Rehabilitation and Drainage Upgrade (West Napoleon to Camphor), Jefferson Parish, Louisiana</b>  <b>Jefferson Parish c/o PECC</b> 3702 Bienville Avenue, Suite C New Orleans LA 70119  <b>John Shires, P.E., 800-749-2810</b> jshires@pecla.com	Geotechnical investigation for pavement rehabilitation, new drain lines, and a new pump station from W. Napoleon to Camphor in Metairie, LA. Gulf South's scope of work included drilling four soil borings to depths of 15 and 50 feet, laboratory testing (strength and classification), and geotechnical engineering analysis consisting of allowable soil bearing values, allowable pile load capacities, estimates of settlement, pavement recommendations, bedding and backfill recommendations, and general construction recommendations.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2015 February	N/A	\$8,500 (fee)

<b>PROJECT NO. 4</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Trudeau Drive Drainage Improvements at West Metairie Canal, Metairie, Jefferson Parish, Louisiana</b>  <b>Jefferson Parish c/o Hatch Mott MacDonald</b> 650 Poydras Street, Suite 2025 New Orleans LA 70130  <b>Many Heymann, P.E., 504-799-0437</b> many.heyman@hatchmott.com	Geotechnical investigation for new drainage improvements along Trudeau Drive at W. Metairie Blvd. in Metairie, LA. The improvements will consist of replacing existing box culverts within W. Metairie Canal with double barrel 7 ft. x 11 ft. culverts, approximately 300 linear feet. Gulf South's scope includes drilling two soil borings each to a depth of 50 feet, lab testing, and geotechnical engineering analysis consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, slope stability analysis, rigid and/or flexible pavement design recommendations, and general construction recommendations.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2015 October	N/A	\$8,000 (fee)

## TEC Professional Services Questionnaire

<b>PROJECT NO. 5</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Lake Cataouatche Pump Station,</b> Avondale, Jefferson Parish, Louisiana  <b>Jefferson Parish</b> 1221 Elmwood Park Blvd Ste 907 Jefferson LA 70123  <b>Mitch Theriot, P.E.,</b> 504-736-6742 mtheriot@jeffparish.net	Geotechnical engineering services for the construction of a replacement Lake Cataouatche drainage pump station in Avondale, LA. Gulf South's scope includes drilling a single undisturbed soil boring (depth of 100 ft bgs), laboratory testing, engineering analyses and general construction procedures and recommendations.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2019 October	N/A	\$12,500 (fee)

<b>PROJECT NO. 6</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Lake Cataouatche Drainage Pump Station Replacement (Chighizola Lane),</b> Grand Isle, Jefferson Parish, Louisiana  <b>Principal Engineering, Inc.</b> 1011 N Causeway Blvd Ste 19 Mandeville LA 70471  <b>André C. Monnot, P.E.,</b> 985-624-5001 andre@pi.aec.com	Geotechnical engineering services for the construction of a replacement Lake Cataouatche drainage pump station at the end of Chighizola Lane in Grand Isle. Gulf South's scope includes drilling one undisturbed soil borings to a depth of 80 feet below the ground surface, laboratory testing, engineering analyses (soil bearing values, pile load capacities, settlement estimates, retaining structure recommendations, slope stability analyses) and general construction procedures and recommendations. Pump station is close to a USACE floodwall so coordination and geotechnical engineering analyses were required to show the new pump station would not adversely affect the integrity of the floodwall.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2020 May	N/A	\$7,500 (fee)



## TEC Professional Services Questionnaire

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

<b>PROJECT NO. 8</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Drainage Infrastructure Improvements, South Avondale Subdivision,</b> Avondale, Jefferson Parish, Louisiana  <b>Jefferson Parish</b> <b>c/o Phoenix Global Construction</b> 2901 Independence St Ste 103 Metairie LA 70006  <b>Jack Lo,</b> 504-883-9021 phoenixglobal@bellsouth.net	Geotechnical investigation for drainage improvements on S. Jamie Boulevard in Avondale, LA. Gulf South's scope includes drilling five undisturbed soil borings to depths of 20 feet, lab testing, and engineering analyses including allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction procedures and recommendations.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2018 January	N/A	\$7,000 (fee)

## TEC Professional Services Questionnaire

<b>PROJECT NO. 9</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Mississippi River Discharge Pump Station,</b> River Ridge, Jefferson Parish, Louisiana  <b>ECM Consultants, Inc.</b> 1201 Clearview Parkway Suite 200 Metairie LA 70001  <b>Sunina Shrestha, P.E.,</b> 504-885-4080 sshrestha@ecmconsultants.com	Gulf South provided geotechnical engineering services for the construction of a new pump station and force main discharge pipeline between Coventry Court and Lee Court in River Ridge. Scope includes drilling four undisturbed soil borings (one at 100 ft., one at 80 ft., and two at 30 ft.; all below ground surface), laboratory testing, engineering analyses (soil bearing values, pile load capacities, settlement estimates, retaining structure recommendations, slope stability analyses) and general construction procedures and recommendations. Pump station was located on flood side of the Mississippi River levee with discharge pipes crossing levee to the protected side.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2021 September	N/A	\$35,000 (fee)

<b>PROJECT NO. 10</b>		
<b>Project Name, Location, and Owner's Contact Information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Verrett Canal Slope Instability Project,</b> <b>West Bank Drainage Department,</b> Harvey, Jefferson Parish, Louisiana  <b>Jefferson Parish</b> <b>Engineering Department</b> 1221 Elmwood Park Blvd Ste 802 Jefferson LA 70123  <b>Clinton Hotard,</b> 504-736-6500 chotard@jeffparish.net	Geotechnical engineering services for the potential solution (i.e. retaining wall, etc.) for the surface movement at the top slope of Verrett Canal located at 89 Natchez Trace in Harvey, LA. Gulf South's scope includes drilling a single undisturbed soil boring (depth of 60 ft. bgs), laboratory testing, engineering analyses and general construction procedures and recommendations.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2020 July	N/A	\$5,000 (fee)

## TEC Professional Services Questionnaire

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

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

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



### **CRITERIA 1 • PROFESSIONAL TRAINING AND RELATED EXPERIENCE**

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

**Gulf South is a woman-owned, Hudson Initiative-certified & Regional Transit Authority-recognized small business in Louisiana. Our laboratory is AASHTO and CCRL certified and USACE validated.**

## TEC Professional Services Questionnaire

N. continued.

### **Geotechnical Engineering Services**

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

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

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

### **Field Investigation Services**

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

### **Laboratory Testing Services**

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

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

### **Construction Materials Testing & Inspection**

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

- *Fill and base compaction and density testing*
- *Vibration monitoring*
- *Pre- and post-construction inspection*
- *Concrete testing and inspection*

## TEC Professional Services Questionnaire

### N. continued.

- Soil testing (field and laboratory)
- Asphalt testing
- Pile (driven & augercast) and shaft installation monitoring
- Load tests
- Earthwork/proof roll inspection
- Welding inspection
- Steel inspection
- Noise monitoring

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

#### **CRITERIA 2 • CAPACITY FOR TIMELY COMPLETION OF NEWLY-ASSIGNED WORK**

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

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

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

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

#### **CRITERIA 3 • LOCATION OF PRINCIPAL OFFICE**

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

#### **CRITERIA 4 • ADVERSARIAL LEGAL PROCEEDINGS WITH PARISH**

See *Item M*; Gulf South has not been involved in litigation with Jefferson Parish.

#### **CRITERIA 5 • PRIOR SUCCESSFUL COMPLETION OF PROJECTS**

The Principals and key employees of Gulf South have many years of applicable experience in working for and with Government Agencies and private industry. We are proud that a majority of its work is from repeat clients—we complete our projects on-time and within budget. **Multiple examples of this work are included throughout this form in both the Personnel Résumés section (Item K) and Representative Project Work (Item L).**

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



## TEC Professional Services Questionnaire

**N. continued.**

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

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

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

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

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

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

### CRITERIA 6 • SIZE OF FIRM

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

### CRITERIA 7 • PAST PERFORMANCE ON PARISH CONTRACTS

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

- *Improvements to Sewer Lift Station No. 48-3, Metairie, Jefferson Parish, LA*
- *New Building and Parking Lot, East Bank Juvenile Services, Jefferson Parish, LA*
- *Metairie Lawn and Ridgelake Drive Roadway & Utility Project, Metairie, Jefferson Parish, LA*
- *N. Sibley Drainage Improvements (N. Sibley at W. Napoleon), Metairie, Jefferson Parish, LA*
- *Sewer Lift Station at Mississippi Avenue & 21st Street, Metairie, Jefferson Parish, LA*
- *Jefferson Parish Fire Department – Garage (River Road), Bridge City, Jefferson Parish, LA*
- *Jefferson Parish Dept. of Public Works West Bank Central Warehouse, Bridge City, Jefferson Parish, LA*
- *New Charter School, Behrman Highway, Terrytown, Jefferson Parish, LA*
- *Jefferson Parish Library Renovations (2350 Metairie Road), Metairie, Jefferson Parish, LA*
- *Clancy-Maggiore Elementary School – New Art and Band Wing, Kenner, Jefferson Parish, LA*
- *Johnny Bright Playground Gymnasium HVAC Installation, Metairie, Jefferson Parish, LA*
- *Kennedy Heights Playground Gymnasium HVAC Renovation, Avondale, Jefferson Parish, LA*
- *Trudeau Drive at Canal No. 5 Drainage Improvements, Metairie, Jefferson Parish, LA*
- *Earhart Expressway (Clearview Parkway to Central Avenue) Lighting Improvements, Jefferson Parish, LA*
- *West Esplanade Avenue Restoration (Tartan Drive to Haring Road), Metairie, Jefferson Parish, LA*
- *Citrus Road and Greg Court Subsurface Drainage Improvements, Jefferson Parish, LA*
- *Improvements to Sewer Lift Station M-11-3 & Force Main, Marrero, Jefferson Parish, LA*
- *Westgate Drainage Improvements, Metairie, Jefferson Parish, LA*
- *Bike Path Soil Borings, Jefferson Highway to Northline Street, Jefferson Parish, LA*
- *Green Acres Road - New Street Lighting, Metairie, Jefferson Parish, LA*
- *New Lift Station (Elmwood Park Blvd. & Citrus Blvd.), Metairie, Jefferson Parish, LA*
- *New Sewer Lift Station (Butler Drive & Grambling Street), Waggaman, Jefferson Parish, LA*
- *Drainage Infrastructure Improvements, South Avondale Subdivision, Avondale, Jefferson Parish, LA*

## TEC Professional Services Questionnaire

### N. continued.

- Parish Line Drainage Pump Station Improvements - Phase I, City of Kenner, Jefferson Parish, LA
- Public Works West Bank Central Warehouse, Bridge City, Jefferson Parish, LA
- New Sewer Lift Station (Melrose Lane & Walker Road), River Ridge, Jefferson Parish, LA
- Drainage Improvements, Citrus Road & Greg Court, Metairie, Jefferson Parish, LA
- New Sewer Force Main Installation (Midway & Wildwood to Lift Station E3-1), Jefferson Parish, LA
- St. Peter's Ditch - Phase IV (Pump Station at Clearview), Metairie, Jefferson Parish, LA
- Waggaman Subsurface Drainage Improvements, Waggaman, Jefferson Parish, LA
- Lift Station Replacement - N. Pierce Avenue & Versailles Street, Metairie, Jefferson Parish, LA
- Marsh Island Restoration Project, Lafreniere Park, Metairie, Jefferson Parish, LA
- Lift Station Replacement - Mississippi Avenue at 21st Street, Metairie, Jefferson Parish, LA
- Kawanee at Olympic Lift Station, Metairie, Jefferson Parish, LA
- Clearview Parkway Drainage Project, Metairie, Jefferson Parish, LA
- Submerged Roads Program - Multiple Phases, Metairie, Jefferson Parish, LA
- St. Peter's Ditch (4700 W. Metairie Ave.), Metairie, Jefferson Parish, LA
- Engineering Analysis Review (EAR) - Lafitte Tidal Protection Project (Phase I), Lafitte, Jefferson Parish, LA
- David Drive Drainage Improvements (West Esplanade Avenue to Bruin Drive), Jefferson Parish, LA
- Marrero WWTP New Administration Building and Safe Room, Marrero, Jefferson Parish, LA
- New Sewer Lift Station, Mississippi Ave. and Fulton St., Metairie, Jefferson Parish, LA
- Trudeau Drive Drainage Improvements at West Metairie Canal, Metairie, Jefferson Parish, LA
- Canal Bank Stabilization, Wayne Avenue at West Bank Expressway, Jefferson Parish, LA

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

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

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

Print Name: Chad M. Poché, P.E.

Title: Vice President

Date: March 10, 2022

***ECM Consultants, Inc.***

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1301 Clearview Parkway, Suite 200, Metairie, Louisiana 70001