



STATEMENT OF QUALIFICATIONS

Routine Engineering Services for Street Projects

Jefferson Parish, Louisiana

Resolution No. 144319 SOQ No. 24-021



Submitted To:

Jefferson Parish Council
Attn: Mark Buttery, Purchasing Specialist II
General Government Building
200 Derbigny Street, Suite 6700

Submitted By:

ECM Consultants, Inc.

1301 Clearview Parkway, Suite 200,
Metairie, Louisiana 70001

Telephone: 504-885-4080 • Fax: 504-885-1439

kazem@ecmconsultants.com

In Association with:

BFM Corporation, LLC

Gulf South Engineering and Testing, Inc.

July 16, 2024

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Routine Engineering Services for **Street Projects**
Resolution No. 144319 | SOQ No. 24-021**

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ECM Consultants, Inc.

Engineers • Architects • Construction Managers

Email: mail@ecmconsultants.com

Web: www.ecmconsultants.com

1301 Clearview Parkway, Suite 200
Metairie, LA 70001
Phone (504) 885-4080

8048 One Calais Avenue, Suite F
Baton Rouge, LA 70809
Phone (225) 615-7885

400 E. Kaliste Saloom Road Suite 4100
Lafayette, LA 70508
Phone (504) 885-4080

July 16, 2024

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

Re: **Routine Engineering Services for Streets Projects** in Jefferson Parish
Resolution No. 144319 | SOQ 24-021

Jefferson Parish Council:

ECM Consultants, Inc. is a licensed engineering, architectural, and construction management firm headquartered in Metairie, LA, offering a comprehensive range of talent and expertise pertinent to this Statement of Qualifications (SOQ). We are pleased to submit one (1) electronic copy of our Statement of Qualifications (TEC Questionnaire) for the above-referenced project via <http://www.centralauctionhouse.com>.

ECM Consultants, Inc. has significant experience providing professional services for street projects to various esteemed clients, including the Jefferson Parish Department of Public Works, the City of New Orleans Department of Public Works, the Louisiana Department of Transportation and Development (LADOTD), the City of Baton Rouge Department of Public Works, the New Orleans Aviation Board (NOAB), and other agencies. We have delivered professional services for engineering design, preparation of plans, specifications and estimates, construction administration, and resident inspection for numerous street projects. Notable projects include the improvements to Lapalco Boulevard (Westwood to Tanglewood), Edwards Avenue, Severn Avenue (from West Esplanade to Veterans Blvd.), and Latigue Road for Jefferson Parish, the reconstruction of Napoleon Avenue, Jefferson Avenue, and Gravier Street for the City of New Orleans; and the reconstruction of Glen Oaks Drive, Strain Road, and Port Hudson Road for the City of Baton Rouge.

Our team for this project includes BFM Corporation, LLC for surveying services Gulf South Engineering and Testing for geotechnical services. Upon review of our qualification package, we hope our team will receive favorable consideration.

Sincerely,




Kazem Alikhani, P.E.
Chief Executive Officer

Section 1


ECM Consultants, Inc.

TEC Professional Services Questionnaire

TEC Professional Services Questionnaire

A.	Project Name and Advertisement Resolution Number:																															
	Routine Engineering Services for Street Projects Resolution No. 144319 SOQ 24-021																															
B.	Firm Name & Address:																															
	 ECM Consultants, Inc. 1301 Clearview Parkway, Suite 200 Metairie, LA 70001																															
C.	Name, title and contact information of Principal as defined in Section 2-926 of the Jefferson Parish Code of Ordinances, who is a registered, licensed architect, professional engineer, or surveyor in the State of Louisiana:																															
	<u>Principal:</u> Ujjal DasGupta, P.E. Louisiana Licensed Professional Engineer P.E. License No. 19848 Tel: (504) 885-4080 Fax: (504) 885-1439 Email: ujjal@ecmconsultants.com																															
D.	Name and contact information of employee who is registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline.																															
	<u>Professional in charge of Project:</u> Sunina Shrestha, P.E. Louisiana Licensed Professional Civil Engineer P.E. Licensed 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																															
	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%;"><u>8</u> Administrative</td> <td style="width: 33%;"><u>0</u> Estimators</td> <td style="width: 33%;"><u>0</u> Specification Writers</td> </tr> <tr> <td><u>1</u> Architects</td> <td><u>0</u> Geologists</td> <td><u>2</u> Structural Engineers</td> </tr> <tr> <td><u>0</u> Chemical Engineers</td> <td><u>0</u> Geotechnical Engineers</td> <td><u>0</u> Graduate Engineers</td> </tr> <tr> <td><u>16</u> Civil Engineers</td> <td><u>0</u> Interior Designers</td> <td><u>4</u> Project Managers</td> </tr> <tr> <td><u>32</u> Construction Inspectors</td> <td><u>0</u> Landscape Architects</td> <td><u>0</u> Clerical</td> </tr> <tr> <td><u>0</u> Ecologists</td> <td><u>0</u> Land Surveyor</td> <td><u>1</u> Grant/Fund Specialists</td> </tr> <tr> <td><u>1</u> Electrical Engineers</td> <td><u>2</u> Mechanical Engineers</td> <td><u>0</u> Sanitary Engineers</td> </tr> <tr> <td><u>2</u> Engineer Intern</td> <td><u>0</u> Environmental Engineers</td> <td><u>0</u> Graduate Architect</td> </tr> <tr> <td><u>0</u> Professional Land Surveyors</td> <td><u>3</u> CAD Technicians</td> <td></td> </tr> <tr> <td colspan="2"></td> <td style="text-align: right;"><u>72</u> TOTAL</td> </tr> </table>		<u>8</u> Administrative	<u>0</u> Estimators	<u>0</u> Specification Writers	<u>1</u> Architects	<u>0</u> Geologists	<u>2</u> Structural Engineers	<u>0</u> Chemical Engineers	<u>0</u> Geotechnical Engineers	<u>0</u> Graduate Engineers	<u>16</u> Civil Engineers	<u>0</u> Interior Designers	<u>4</u> Project Managers	<u>32</u> Construction Inspectors	<u>0</u> Landscape Architects	<u>0</u> Clerical	<u>0</u> Ecologists	<u>0</u> Land Surveyor	<u>1</u> Grant/Fund Specialists	<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> Graduate Architect	<u>0</u> Professional Land Surveyors	<u>3</u> CAD Technicians				<u>72</u> TOTAL
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F.	Is this submittal by a JOINT-VENTURE? Please check: YES NO <input checked="" type="checkbox"/> If marked "No" skip to Section I. if Marked "yes" complete Sections G-H.																															

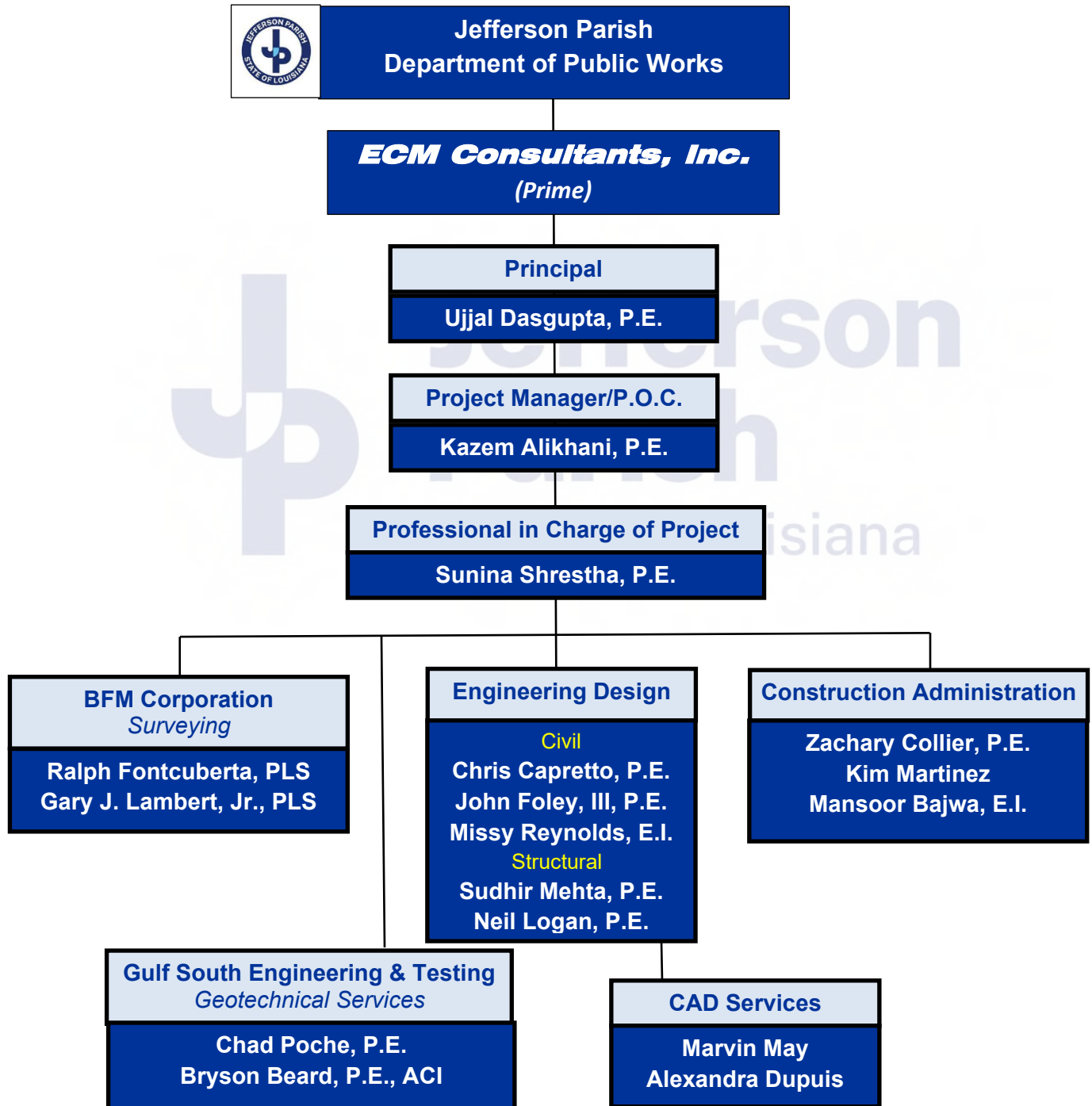
TEC Professional Services Questionnaire

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 <input checked="" type="checkbox"/> X		
I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.		
Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. BFM Corporation 15 Veterans Memorial Boulevard Kenner LA 70062	Surveying Services	YES
2.  GULF SOUTH <small>ENGINEERING AND TESTING, INC.</small> <small>Geotechnical & Materials Consultants</small> 2201 Aberdeen Street Kenner LA 70062	Geotechnical Services	YES
3. N/A	N/A	N/A
4. N/A	N/A	N/A
J. Please specify the total number of support personnel that may assist in the completion of this Project: 11		

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:

Name & Title:

Sunina Shrestha, P.E., Engineering Manager

Project Assignment:

Professional In Charge of Project

Name of Firm with which Associated:

ECM Consultants, Inc.

Years' experience with this Firm:

13

Education: Degree(s)/Year/Specialization:

M.S./2008/Civil Engineering, Water Resources, and Environmental Engineering

Active registration: Year first registered/discipline:

2013/Civil Engineering/LA License No. 37901

Other experience and qualifications relevant to the proposed Project:

Ms. Shrestha has **16 years of experience** in analysis and design of streets projects involving reconstruction, rehabilitation, new construction as well as complete and smart streets. Her experience also includes preparation of PS&E and engineering review of designs and construction plans and specifications for various roadway projects. She is very familiar with Jefferson Parish streets design standards as well as LADOTD's Standard Specifications for Roads and Bridges, AASHTO and FHWA requirements. She has additional experience in GIS, hydrologic and hydraulic analysis, drainage studies, subsurface drainage and utilities design etc. She is highly proficiency in HEC-RAS, HEC-HMS, SWAT, GIS, AutoCAD, AutoCAD Land Development, SAP 2000, WINSLAMM, LADOTD Hydraulics programs.

Employment History:

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

Lake Terrace Oaks, Group-C, and Lake Shore Area Group-E, Roadway Improvements, City of New Orleans, LA. Ms. Shrestha is serving as Project Engineer for these projects that involve complete reconstruction of **20 blocks neighborhood PCCP roadway** including subsurface drainage system, replacement of water and sewer systems as required. Work includes PCC paving, new base, concrete curb, sidewalks, driveway aprons and ADA compliant ramps at roadway intersections. The project design is 95% complete. She is responsible for managing, supervising and overseeing work product for conformance with City of New Orleans General Specifications for Street Paving.

Severn Avenue Corridor Improvement, Jefferson Parish DPW, Jefferson, LA: Ms. Shrestha served as Project Engineer for design and preparation of plans, specifications and estimates (PS&E) for this \$14.2 million **6-lane PCC roadway** reconstruction project with concrete curb and drainage. Work also included improvement to all side street intersections, ADA compliant ramps and all driveway apron, new brick paver sidewalk, new bicycle lane, additional of turn lanes at intersections, street lighting, **pedestrian** lighting, new permanent striping including crosswalk, modifications to traffic signals, pedestrian signal, landscaping and ten parklets with associated amenities in the corridor. She reviewed plans prepared by other engineers and subconsultants to ascertain conformance with LADOTD Roadway Plan Preparation Manual. Her responsibilities also include coordination with DPW-Jefferson Parish, JP Council, LADOTD, utility entities, and subconsultants.

City Park and St. Bernard Neighborhoods, FEMA Eligible Street Repairs, New Orleans DPW, New Orleans, LA: Ms. Shrestha provided engineering design services for this project that included field investigations to determine extent of roadway damages acceptable to FEMA including documentations, rehabilitation designs, preparation of cost estimates and plans and specifications. The project involved survey, field investigation to identify and measure Katrina related damages to roadways, preparation of scope reports, updating PW Work sheets for FEMA-Eligible repairs within the boundary of the City Park Neighborhood. The project scope also included preparation of Construction Plans and Specifications, cost estimates for pavement rehabilitation involving base repairs, cold mill and overlay, curb, and sidewalk repairs including utility adjustments and new ADA ramps for all street intersections. In addition to preparation of plans & profiles, ECM prepared various details not in city standard plans, special curb details, and sidewalk and driveway details.

TEC Professional Services Questionnaire

Port Hudson - Pride Road (LA 964 - LA 19), Baton Rouge, LA : Ms. Shrestha is serving as project manager providing engineering design services for the replacement of Port Hudson Pride Road extending from LA 964 to LA 19 (approximately 2.6 miles). The project involved multiple intersection roads and bridges. The project is part of the MOVEBR Program, designated as a New Capacity Improvement Project. The proposed scope of work includes planning and design activities to increase capacity and enhance traffic flow within the project limits. Port Hudson - Pride Road is currently a two-lane roadway with open ditches, without paved shoulders. This project includes reconstruction of existing Port Hudson – Pride Road, adding paved shoulders on entire length of project and construction of sidewalks within the developed areas to Pin Oak Subdivision and reconstruction of existing bridges. The project also involves the improvement of the existing drainage system and planning and design activities to improve the traffic and connectivity of the existing Port Hudson pride road.

Gravier Street Improvements (Between South Galvez and South Broad), City of New Orleans-DPW, New Orleans, LA: Ms. Shrestha provided civil engineering for this \$5.2 million project which consisted of design, preparation of plans and specifications, and cost estimates (PS&E) for roadway reconstruction including storm drainage, sidewalk improvements, and water & sewer improvements. The project involved extensive coordination with the Sewerage and Water Board and other utility entities regarding both vertical and horizontal location of utilities. ECM provided all services required for topographic survey (through subconsultant), preparation of preliminary plans, final plans, specifications, construction administration, resident inspection services, and bid documents.

Gentilly Terrace Group E; New Orleans, LA: Ms. Shrestha served as the project manager for this roadway reconstruction project that involves design and preparation of plans, specifications and estimate (PS&E) for removal and replacement of PCC and asphalt roadway and H&H analysis for drain system design. She was also involved in coordination with S&WB, park and parkways and other utility entities.

Rehabilitation of Jefferson Avenue in Conjunction with Drainage Box Canal, S&WB of New Orleans and USACE; New Orleans, LA: Ms. Shrestha provided civil engineering design in connection with construction of a concrete box culvert extending from South Claiborne Avenue to Dryades Street in New Orleans. The civil engineering scope for the project consisted of removal and replacement of street paving and curbs, relocation of water and sewage lines and local drainage lines, and traffic detour and control plans. Design work was coordinated with both USACE and the Sewerage and Water Board of New Orleans.

Napoleon Avenue Reconstruction, S&WB of New Orleans/US Army Corps of Engineers; New Orleans, LA: Ms. Shrestha provided civil engineering design for the \$55 million reconstruction of Napoleon Avenue between South Claiborne Avenue and Carondelet Street in connection with construction of a drainage box canal at the median of Napoleon Avenue. The project 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.

Glen Oaks Drive (Plank Rd. to McClelland Dr.), Baton Rouge DPW, Baton Rouge, LA: Ms. Shrestha served as project engineer for this \$10M project involving engineering design for construction of a three-lane concrete curb and gutter roadway with sidewalks and subsurface drainage on Glen Oaks Dr. from Plank Rd. to McClelland Dr. Glen Oaks is a one-mile existing Urban Collector roadway. The project also includes improvements to several intersections, topographic survey, ROW survey and ROW plan preparation, subsurface drainage system design and H&H analysis for the outfalls.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Ujjal DasGupta, P.E., President
Project Assignment:
Principal-In-Charge
Name of Firm with which Associated:
<i>ECM Consultants, Inc.</i>
Years' experience with this Firm:
29
Education: Degree(s)/Year/Specialization:
B.S./1968/Civil Engineering
Active registration: Year first registered/discipline:
1982/Civil Engineering/LA License No. 19849
Other experience and qualifications relevant to the proposed Project:
<p>Mr. DasGupta has over 53 years of experience in the fields of civil and structural engineering, project management, and construction engineering. He has been responsible for managing design and construction engineering services for many major and minor streets for the City of New Orleans, Jefferson Parish, City of Kenner, and bridge designs for LADOTD.</p> <p><u>Employment History:</u></p> <ul style="list-style-type: none"> ECM Consultants Inc., LA, <i>President (1995-present)</i> C&S Consultants, Inc., LA, <i>Vice President (1983-1995)</i> Pepper & Associates & Kiddie Consultants, LA, <i>Sr. Engineer (1980-1983)</i> McDermott, Inc., LA, <i>Sr. Structural Engineer (1980-1982)</i> Dunbar & Dickson, Inc., TX, <i>Project Engineer (1976-1980)</i> Public Works Department., India, <i>Assistant Engineer (1968-1976)</i> <p><u>Seyvern Avenue Corridor Improvement for Complete Street Reconstruction, (West Esplanade to Veterans Blvd.), Jefferson Parish DPW, Jefferson, LA:</u> Mr. DasGupta served as Principal in Charge during design phase of this \$14.2 million Federally funded Urban System project requiring plan preparation conforming to LADOTD standards. He is responsible for review and finalization of project scope as per instruction of Jefferson Parish. His responsibilities also include coordination and communication with DPW-Jefferson Parish, JP Council, LADOTD, RPC, utility entities, and subconsultants relative to project status. He is responsible for review of the scope, design criteria and overseeing the designs, preparation of plans, specifications, and estimates (PS&E). Scope of the project include removal and replacement of existing concrete pavement, sidewalks with new 8' wide brick paver sidewalks, corridor improvements to facilitate new bike lane, replacement and upgrade of subsurface drainage system, streetscaping, pedestrian lighting, new decorative street lighting, and new bike lane and pavement striping. Project also includes landscaping, an irrigation system, parklets with brick pavers and amenities like benches, potted plants, bike racks, trash receptacles, etc.</p> <p><u>West Metairie/Seyvern Avenue Improvements, Jefferson Parish/LADOTD; Jefferson Parish, LA:</u> Mr. DasGupta served as Project Manager for engineering design, preparation of plans and specifications, cost estimates, construction administration, and construction engineering and inspection for this \$1 million roadway improvements at the intersection of West Metairie and Seyvern Avenue.</p> <p><u>Gravier Street Improvements (Between S. Galvez & S Broad), City of New Orleans-DPW, New Orleans, LA:</u> Mr. DasGupta served as Project Manager for this \$5.2 million project involving design, preparation of plans and specifications, estimates (PS&E), construction administration and resident inspection for roadway reconstruction. Scope of the project included design for PCC roadway reconstruction with curbs and gutters, sidewalks & driveways, replacement of subsurface drainage system involving up to 48" lines, 20" water line and 6" to 15" sewer lines.</p>

TEC Professional Services Questionnaire

Napoleon Avenue Reconstruction (S. Claiborne to Carondelet St.), S&WBNO, New Orleans, LA (SELA project): Mr. DasGupta served as Project Manager for ECM for this \$55.1 million SELA-funded project involving design, preparation of plans, specifications and cost estimates (PS&E) and construction administration. ECM's scope of work included design for reconstruction of Napoleon Avenue roadway from South Claiborne to Carondelet Street in connection with construction of a drainage box culvert in the median. Scope also included removal and replacement of sidewalks; driveway aprons; pavement markings and signage; replacement/relocation of water, sewer and drainage systems and utility conflict resolutions.

Lapalco Boulevard (Westwood to Tanglewood), Jefferson Parish/LADOTD; Jefferson Parish, LA: Mr. DasGupta managed this \$14 million project involving engineering design and preparation of plans and specifications for widening of an existing roadway and construction of a new roadway. The project included cold planning, base repairs, curb repairs, drainage improvements, asphalt leveling and wearing course, striping for the existing two-lane street, and construction of two new additional lanes involving excavation, sand subbase, aggregate base, asphalt base, wearing course, and striping.

Improvements to Manhattan Boulevard (11th St. to Gretna Blvd.), Jefferson Parish/LADOTD; Jefferson Parish, LA: Mr. DasGupta served as Project Manager for this \$1.5 million project involving roadway improvements to Manhattan Blvd. from 11th St. to Gretna Blvd. This roadway has asphaltic concrete overlay over the PCC concrete road. Scope of work included cold planning of existing road, damaged concrete panel replacement, clean drain lines, adjust catch basins, repair/replace concrete curb, asphaltic concrete overlay, striping, and replacement of traffic signal loop detectors.

Glen Oaks Drive, City of Baton Rouge DPW; Baton Rouge, LA: Mr. DasGupta served as Principal-in-Charge for civil engineering design of this \$10 million reconstruction project that included design for removal of exiting roadway, widening of asphalt roadway with curb and gutter, replacement of PCC panels at the intersection, new sidewalks, new driveways, new subsurface drainage systems, utility replacement, striping, and new traffic signals.

Improvements to Edwards Avenue, Jefferson Parish DPW; Jefferson Parish, LA: Mr. DasGupta served as Project Manager for the engineering design, preparation of plans and specifications, and cost estimates for removal of an existing two-lane roadway and widening to construct a four-lane PCC roadway, including subsurface drainage and utilities.

Latigue Road (Live Oak to River Rd), Jefferson Parish DPW, Jefferson Parish, LA: Mr. DasGupta serves as Project Manager for this two-phase project to design a new two-lane roadway and drainage system and to remove and reconstruct existing roadways, curbs and gutters, drainage, striping, and relocate utilities. ECM provided design services that included establishing roadway alignment, selection of the typical section, preliminary cost estimates, and preparation of plans, specifications and final cost estimates for this \$7.5 million new roadway and reconstruction project. The new roadway phase included survey, geotechnical investigation, pavement section design, hydraulic analysis for drainage, major drainage improvements, striping and a new traffic signal.

Rehabilitation of Lapalco Boulevard (Phases I, II, & III), Jefferson Parish DPW/ LADOTD: Mr. DasGupta served as Project Manager for this \$3 million project involving cold planning, base repair, adjusting catch basins, curb repairs, asphalt leveling course and wearing course overlay, striping, adding new guardrails, and reconstruction of bridge approach slabs. The limit of the project was Phase I (Belle Chasse Hwy. to Wall Blvd.), Phase II (Wall Blvd. to Timberlane Dr.), and Phase III (Timberlane Dr. to Manhattan Blvd.). Scope of work included design; preparation of plans, specifications, and estimates; and construction phase services.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Kazem Alikhani, P.E., Chief Executive Officer

Project Assignment:

Project Manager/P.O.C.

Name of Firm with which Associated:

ECM Consultants, Inc.

Years' experience with this Firm:

8

Education: Degree(s)/Year/Specialization:

M.S./1984/Civil, H&H Engineering; B.S./1980/Mechanical Engineering

Active registration: Year first registered/discipline:

1992/Mechanical & Environmental Engineering/LA License No. 25073

Other experience and qualifications relevant to the proposed Project:

Mr. Alikhani has over 44 years of experience in public works projects including planning, design and construction management. As CEO of ECM, Mr. Alikhani serves as Project Manager for a variety of infrastructure projects, overseeing staff, budgets, timeline and working with owners, consulting firms and subconsultants to ensure timely and accurate project delivery. He spent the majority of his career working with the Jefferson Parish Department of Public Works responsible for all public works functions and overseeing an annual operating budget of \$200 million and a capital budget of over \$100 million. His oversight consisted of managing several departments that included drainage sewerage, water, streets, parkways, environmental, hazard mitigation, engineering and capital projects departments. In addition to managing all departments his responsibility also included responsibility for engineering and construction management of capital improvements projects.

Employment History:

- ECM Consultants, Inc., *Chief Executive Officer (2016-Present)*
- Jefferson Parish DPW, *Director of Public Works (2010-2016)*
- Jefferson Parish DPW, *Director of Drainage (2004-2010)*
- Jefferson Parish DPW, *Asst. Director of Water (1995-2004)*
- Jefferson Parish DPW, *Engineering Department Professional Engineer (1993-1994)*
- Jefferson Parish DPW, *Drainage Dept. Professional Engineer (1982-1992)*
- Guillot & Vogt Engineering, *Professional Engineer (1980-1982)*

Oakwood Smart Growth – Hector Avenue Improvements (Whitney Ave. to Terry Parkway): Mr. Alikhani served as the Principal in Charge for this project, the scope of which includes design for a 12-foot-wide pervious concrete shared-use pedestrian/bike path on the north side of Hector Avenue from Whitney Avenue to Terry Parkway with a pedestrian bridge crossing the canal at Wright Avenue. It also includes five 115-foot long parking bays on the north side of Hector Ave. Where parking bays are not added, the road will be widened by two feet using pervious concrete for improved drainage. The project also includes creating a pedestrian walkway on the south side of the roadway, striping and solar powered high visibility flashing lights on the pavement, landscaping, trees, and green areas along both sides of the roadway.

Program and Construction Management for 2017 Jefferson Parish Road Bond Program | Jefferson Parish DPW | Jefferson Parish, LA. Mr. Alikhani is serving as Project Principal providing project oversight for the 2017 Jefferson Parish Road Bond Project on the Eastbank of Jefferson Parish. This project currently has \$208 million of construction projects as of 2021. The program mostly includes the design and construction of roadways, bridges and utilities relocations integral to the roadway projects. He provides oversight that include reviewing all PS&E, resolve design and constructions issues including resolution of utility conflicts.

TEC Professional Services Questionnaire

Latigue Road Extension (Live Oak to River Rd), Jefferson Parish DPW, Jefferson Parish, LA: Mr. Alikhani is in charge of QA/QC for this two-phase project to design a new two-lane roadway and drainage system and to remove and reconstruct existing roadways, curbs and gutters, drainage, striping, and relocate utilities. ECM provided design services that included establishing roadway alignment, selection of the typical section, preliminary cost estimates, and preparation of plans, specifications and final cost estimates for this \$7.5 million new roadway and reconstruction project. The new roadway phase included survey, geotechnical investigation, pavement section design, hydraulic analysis for drainage, major drainage improvements, striping and a new traffic signal.

Fleur De Lis Drive Reconstruction (30th-Old Hammond Hwy), LADOTD; Orleans Parish, LA: Mr. Alikhani served as Project Manager for this \$12 million PCCP roadway project providing construction administration and CE&I services for reconstruction of Fleur de Lis drive, a main artery in a residential corridor. The project scope includes roadway removal, excavation, grading, class II base course, superpave asphaltic concrete pavement, Portland cement concrete pavement, as well as ADA accessible sidewalks, curb and gutter, driveways and removal/replacement of sewer force mains, water mains, drain lines and drainage structures. Mr. Alikhani oversaw, managed the project, supervised construction engineer and the inspectors and ensuring proper oversight of contractors' operations, maintaining documentation, preparing field changes and recording change orders, coordinating testing/sampling, conducting meetings, and communicating with City and LADOTD coordinators.

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.

Safe Routes to School, LADOTD; New Orleans, LA: Mr. Alikhani is serving as Principal in Charge for this contract and, among other projects, has overseen civil engineering design for projects in 11 locations across Districts 03, 07 & 61, including sidewalk and intersection improvements, ADA access, traffic calming and speed-reduction improvements, off-street bicycle and pedestrian facilities, secure bike parking facilities, and traffic diversion improvements. Locations have included Barbe Elementary in Calcasieu Parish, Pesson Elementary and LA-675/Jefferson Island in Iberia Parish, White Castle High School in Iberville Parish, Bernard Terrace & Westdale Middle School in East Baton Rouge Parish, Martin Street Sidewalks in St. Martin Parish, Choctaw Road in Lafourche Parish, Lafayette Local Roads HFST, Sidewalks in St. John the Baptist Parish, and St. Tammany Parish roadways.

Youth Study Center Streets, City of New Orleans-DPW, LA: Mr. Alikhani provided project management for this CDBG project involving roadway improvements to Davey St., Encampment St., Cadillac St., and Milton St. in the St. Bernard Neighborhood. Roadway improvements involving resurfacing of asphalt pavement. Work included coldmill, base repairs and overlay, replacing damaged sidewalks, and driveway aprons, and providing ADA ramps at all intersections were designed. The project also includes construction administration of roadway improvements.

Belle Chasse Bridge and Tunnel Replacement, P3, Design-Build Project, Plaquemines Parish, LA: Mr. Alikhani is serving as Project Manager for Construction Quality Control Management (CQCM) services being provided by ECM for this \$183 million, P3 design-build project to construct a new Mid-Level fixed span bridge that will span the Intracoastal Waterway on Louisiana Highway 23. The project will include the demolition of the existing Perez Bridge and Tunnel. The new bridge is being constructed to current clearance standards for marine vessels as required by the US Coast Guard. This work includes pile load testing, pile driving, installing prestressed concrete girders, steel girders, concrete deck, on grade roadway including earthwork, subbase and base, drainage, utilities relocation, PCC pavement, Asphaltic Concrete pavement, concrete barrier railing, roadway lighting, MSE Wall construction and striping. ECM's Quality Control team of engineers and LADOTD certified inspectors are responsible for sampling and testing to ensure compliance with the project requirements

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Christopher Capretto, P.E., Civil Engineer

Project Assignment:

Civil Engineer

Name of Firm with which Associated:

ECM Consultants, Inc.

Years' experience with this Firm:

10

Education: Degree(s)/Year/Specialization:

B.S./2009/Civil Engineering

Active registration: Year first registered/discipline:

2014/Civil Engineering/LA License No. 38641

Other experience and qualifications relevant to the proposed Project:

Mr. Capretto has 16 years of experience in highway and transportation projects, including bridge inspection and rating, pavement design, traffic analysis, design of horizontal and vertical alignments, and storm water drainage design. His participation in representative projects includes project management, design of steel structures, design of concrete foundations, modeling and detailed drafting of roadways, drainage design for urban and rural highways and streets, and coordination with federal agency representatives. Mr. Capretto is experienced in AutoCAD drafting, the writing and technical editing of design specifications, and various other technical support for engineering projects.

Employment History:

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

Jefferson Parish Road Bond East Bank Program Management: As one of the engineers responsible for managing the JP Road Bond Program on the East Bank, Mr. Capretto is currently overseeing multiple on-going construction projects, with several more getting ready to start within the next few months. These projects are part of the current **Road Bond Program**, that funds major **transportation projects** throughout the parish. His responsibilities have included coordinating between JP engineers and the various contractors and subcontractors; attending all kick-off and progress meetings; regular visits to each of the project sites; reviewing inspection reports and testing lab reports; reviewing and approving RFIs, change orders, and invoices; and maintaining a general sense of progress from kick-off of the work on through to completion of the projects.

Severn Ave. Corridor Improvements (West Esplanade to Veterans Blvd.) Metairie, Jefferson Parish, LA: Mr. Capretto provided civil engineering design support for the design of this **\$12 million** roadway reconstruction Project involving **hydraulic analysis for new drainage**, roadway design, preparation of plans, specifications, and estimates (PS&E) for reconstruction of a PCC roadway with concrete curb. Work also included improvement to all side street intersections, sidewalks and ADA compliant ramps and all driveway apron, new brick paver sidewalk, new bicycle lane, additional of turn lanes at intersections, street lighting, pedestrian lighting, new permanent striping

Gravier Street Improvements (S. Galvez to S. Broad), City of New Orleans DPW; New Orleans, LA: As **Assistant Project Manager**, Mr. Capretto provided construction administration and inspection services for this roadway reconstruction project. His responsibility included attending weekly progress meetings, preparing, and distributing minutes of meetings, coordination with various agencies, response to RFIs, submittal and plan changes reviews and management, resolution of field issues in consultation with resident inspector and designer, and site visits. In addition to, removal and reconstruction of the road with concrete pavement, the project also included new major subsurface drainage system with RCPs from 24" to 48". sidewalk 20" water main and 8" sewer system.

Glen Oaks Drive, City of Baton Rouge DPW, Baton Rouge, LA: Mr. Capretto provided civil engineering design for this **\$10 million** reconstruction project that included design for construction of a three-lane asphalt roadway with concrete curb and gutter, 6-foot ADA compliant sidewalks and subsurface drainage improvements along a one-mile existing Urban Collector roadway. The project also included improvements to several intersections including the addition of turn lanes at three intersections.

TEC Professional Services Questionnaire

LA Highway 1090, Military Road; St. Tammany Parish, LA: Mr. Capretto served as project designer for intersection improvements in a residential area. Work included asphalt roadway section design, horizontal and vertical alignment, and drainage design. The scope included location of utilities using subsurface utility engineering and coordination of improvements to minimize utility relocation and right-of-way costs. Mr. Capretto drafted drainage maps, plan and profile sheets, and geometric details.

Youth Study Center Streets, New Orleans, LA: Mr. Capretto provided civil engineering design and project coordination services on this project involving roadway improvements to Davey St., Encampment St., Cadillac St., and Milton St. in the St. Bernard Neighborhood. General improvements included resurfacing of asphalt pavement involving coldmill and overlay, replacing damaged sidewalks and driveway aprons, and providing ADA ramps at all intersections.

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

City Park Neighborhood, FEMA Eligible Street Repairs, New Orleans DPW, New Orleans, LA: Mr. Capretto provided engineering design services for this project to determine extent of roadway damages acceptable to FEMA including field investigations, survey, documentation, rehabilitation designs, preparation of cost estimates and plans and specifications. ECM prepared scope reports, updated PW Work sheets for FEMA-Eligible repairs within the boundary of the neighborhood. The project scope included preparation of construction plans and specifications, cost estimates for pavement rehabilitation involving base repairs, cold mill and overlay, curb, and 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.



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
John Foley, III, P.E., Civil Engineer
Project Assignment:
Engineering Design
Name of Firm with which Associated:
<i>ECM Consultants, Inc.</i>
Years' experience with this Firm:
5
Education: Degree(s)/Year/Specialization:
B.S./2014/Civil Engineering
Active registration: Year first registered/discipline:
2018/Civil Engineering/LA License No. 42740
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Foley is a Registered Professional Engineer with 10 years of experience designing LADOTD and public works projects including feasibility studies, environmental assessments, roadway, wastewater and drainage improvements.</p> <p>Employment History:</p> <ul style="list-style-type: none"> ECM Consultants Inc., Metairie, LA, <i>Civil Engineer (2019-to date)</i> Buchart Horn, Inc., Kenner, LA, <i>Project Engineer (2014-2019)</i> HNTB, Baton Rouge, LA, <i>Engineering Intern (2013-2014)</i> Louisiana State University, Baton Rouge, LA, <i>Senior Design Project Manager and CAD Tech, (2013-2014)</i> <p>Transit Improvement Design for District 3, Jefferson Parish, LA: Mr. Foley is serving as Project Engineer providing professional engineering services to design improvements to 317 bus stops within Council District 3 for Jefferson Parish. Scope of work included preparing detailed construction plans and technical specifications with the latest LA DOTD criteria. He prepared plans that included locations of all utilities affected, ownership and taking lines of rights-of-way, and improvements to the bus stops and adjacent intersection. Improvements included enhancements for accessibility, safety and features needed to achieve ADA compliance. Work included required sidewalks, ADA ramps, crosswalks, signage, striping, boarding and alighting areas, benches, and shelters. He prepared and submitted permits for approval to state and local authorities and prepared a detailed opinion of probable construction cost.</p> <p>Lake Terrace Oaks, Group-C, Neighborhood Roadway Improvements, City of New Orleans: Mr. Foley is serving as project civil Engineer and providing design services for this \$10 million project that involves complete reconstruction of 17 blocks of neighborhood residential roadway including subsurface drainage system, replacement of water and sewer systems as required. Work includes PCC paving, new base, concrete curb, sidewalks, driveway aprons and ADA compliant ramps at roadway intersection. He is performing all design conforming to City of New Orleans General Specifications for Street Paving.</p> <p>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 will include mill and overlay with full depth patching; other incidental road repairs will be required in certain sections of the project area.</p> <p>West Metairie Avenue Restoration, Jefferson Parish, LA. Mr. Foley provided condition assessment, design, and construction documentation for the replacement of failed concrete panels, drainage structure repairs, and canal banks slope stabilization. Project Designer responsible for designing plans and calculating quantities.</p> <p>LA 931 at Roddy Road Roundabout, Ascension Parish, Gonzales, LA. Mr. Foley provided design services for a single-lane asphalt roundabout at the intersection of LA 931 and Roddy Road in Gonzales, LA. Services included preparing a roundabout report (crash analysis, cost-benefit analysis, traffic analysis, speed study, safety analysis), subsurface drainage, preliminary and final design plans, specifications, special provisions, construction estimates, and engineering calculations. The design complied with state and federal guidelines. As project engineer, he performed design of roadway geometry, prepared plan and profile and typical sections for preliminary design plans and roundabout report.</p>

TEC Professional Services Questionnaire

Harrison Avenue Improvements, St. Tammany Parish, Covington, LA: Mr. Foley was a part of the project team that conducted a feasibility study and subsequent design and construction management of recommended improvements. He as a part of the design team, evaluated two proposed alternates for the reconstruction of Harrison Avenue and provided design services for a **two-lane roadway with raised median**, sidewalks, two **roundabouts**, and subsurface drainage. He designed and prepared line and grade sheets.

Highland-Burbank Connector, City of Baton Rouge/Parish of East Baton Rouge, LA: Mr. Foley was a project engineer for a detailed planning study and design of two alternatives for a **new three-lane highway** connecting Highland Road and Burbank Drive in Baton Rouge. He was responsible for the preparation of design study report.

US 61 Corridor Improvements, St. John the Baptist Parish, LaPlace, LA: Mr. Foley served as Project Designer and prepared preliminary and final plans, **right-of-way plans**, and special details for improvements along the **US 61 Corridor** in Laplace in St. John the Baptist Parish.

Program Management for 2017 Jefferson Parish Road Bond Project, Jefferson Parish, LA: Mr. Foley is currently performing review of consultant's plans, specifications and cost estimates. This project currently has \$130M of construction projects and includes the design and construction of **roadways, bridges**, utilities and pedestrian bike paths and bridges.



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Missy Reynolds, Deputy Program Manager

Project Assignment:

Civil Engineering Design

Name of Firm with which Associated:

ECM Consultants, Inc.

Years' experience with this Firm:

7

Education: Degree(s)/Year/Specialization:

B.S./1994/Civil Engineering

Active registration: Year first registered/discipline:

E.I./LA/No. 16639

Other experience and qualifications relevant to the proposed Project:

Ms. Reynolds has 31 years of experience in project management and engineering support for construction of roadways, water facilities, canals and drainage structures, and development projects. She has provided oversight for civil and hydraulic studies, reconstruction, new construction and other improvements across Jefferson Parish.

Employment History:

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

Program and Construction Management for 2017 Jefferson Parish Road Bond Project, Jefferson Parish, LA: Ms. Reynolds is serving as Senior Project Manager for the 2017 Jefferson Parish Road Bond Project on the East bank of Jefferson Parish. This project currently has \$130 million of construction projects and includes the design and construction of roadways, bridges, utilities and pedestrian bike paths and bridges. Ms. Reynolds is responsible reviewing consultants' PS&E for constructability and compliance JP/LADOTD standards and coordinating with local and State entities. Her duties include working with several consulting firms to resolve design and constructions issues and coordinating with private businesses and utilities including railroad companies. Ms. Reynolds reviews contractor submittals to ensure conformity, resolves construction issues, performs site visits to ensure that all construction work is in compliance and write NCR when applicable, her duty also include supervising inspectors, coordinates with designers, DPW, contractors, reviews testing lab reports and performs substantial completion and final walk-throughs for all projects.

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

Mid-City Street Improvements, Gentilly Woods & Read Boulevard East Group C Neighborhoods, New Orleans, LA: Ms. Reynolds performed engineering services for rehabilitation and reconstruction of roadways in several neighborhoods, identifying storm-related damages to both roadways and subsurface 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.

Ames Boulevard (Westbank Expressway to Happy Street), LADOTD, Jefferson Parish, LA: Ms. Reynolds supervised design of approximately 1.5 miles of roadway in accordance with LADOTD Urbans Systems design criteria. Design included replacing curb and gutter, ADA ramps, asphaltic overlay, and adjusting the existing drainage structures.

Williams Boulevard at Vintage Drive U-Turn Improvements, Kenner, LA. Ms. Reynolds designed a \$1.2 million new east/west U-turn at the intersection of Williams Blvd. and Vintage Drive to latest AASHTO design standards and LADOTD Standard Specifications for Roads and Bridges. for turning radius for 18-wheelers. Design included milling and overlay of turning lanes, redesign of subsurface drainage and concrete median in accordance with ADA requirements. Ms. Reynolds prepared construction specifications, typical details, cost estimates coordinated with Jefferson -DPW and LADOTD for approval of design This project was part of City of Kenner Bond Program.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Sudhir Mehta, P.E., Senior Structural Engineer

Project Assignment:

Structural Engineer

Name of Firm with which Associated:

ECM Consultants, Inc.

Years' experience with this Firm:

6

Education: Degree(s)/Year/Specialization:

M.S./1972/Civil Engineering; B.S./1970/Civil Engineering

Active registration: Year first registered/discipline:

1980/Civil Engineering/LA License No. 18950

Other experience and qualifications relevant to the proposed Project:

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

Employment History:

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

West Metairie Bridge, Jefferson Parish, LA: Mr. Mehta served as the Structural Engineer for this bridge replacement project. Scope of work included preparation of construction documents, plans, specifications, and estimates PS&E) for replacement of existing bridge on West Metairie Ave over Soniat Canal. The work included demolition of the existing bridge, design of 100 feet cast in place bridge with Quad Prestressed Concrete Beams, design of approach slabs and erosion protection, as necessary. The analysis and design of the bridge was performed in conformance with the AASHTO LRFD Bridge Design Standards as well as the requirements of Louisiana LRFD Bridge Design Manual, Latest edition.

West Napoleon Ave Reconstruction (Causeway Blvd and Severn Avenue), Jefferson Parish, LA: The project consisted of demolition of existing lanes on the north side of the West Napoleon canal and installing two lanes each on the north and the south side of the canal. Mr. Mehta's duties included coordinating the project with all public and private agencies, relocating utilities that were in conflict, design drainage, develop typical roadway sections, prepare roadway plan and profile, vertical and horizontal geometrics of the project, quantity takeoffs, cost estimates and prepare construction documents including technical specifications.

Clearview Parkway and South Service Road Intersection, Jefferson Parish, LA: Mr. Mehta was a Project Engineer for the addition of a left turn lane in the northbound lanes. He developed plan and profiles, designed geometrics of the intersection to accommodate turning of WB-50 trucks, developed typical roadway section, designed storm drainage, relocation of utilities at conflicts, estimate quantities and probable construction cost. He was responsible for preparation of construction documents and coordination with all public and private agencies whose interests and or operations were affected by the proposed project.

Lapalco Blvd. Bridge over Bayou Segnette, Jefferson Parish, LA: Mr. Mehta performed QA review of structural engineering design and plans and specifications services for rehabilitation this 40-year-old, 3000' long high-rise, concrete and steel girder bridge. Work included replacement of 182 bearing pads under girders, repainting steel girders, replacement of expansion joints, curtain walls, miscellaneous repairs and replacement of the bridge railings for an estimated cost of \$4.1 million. ECM's FHWA NHI certified engineers and inspectors provided safety inspection services for this bridge and findings led to ECM's recommendation to raise the height of the safety rail on both sides of this 3,000-foot-long bridge. Recommendations included retrofitting the existing rail with metal railing or

TEC Professional Services Questionnaire

removing and replacing the existing rail, and cost estimates have been presented to the owner. The project also included bridge load rating in accordance with LADOTD Standards.

West Napoleon Ave Reconstruction (Causeway Blvd and Severn Avenue), Jefferson Parish, LA: The project consisted of demolition of existing lanes on the north side of the West Napoleon canal and adding two new lanes each on the north and the south side of the canal. Mr. Mehta's duties included coordinating with all public agencies and private entities for relocating utilities that were in conflict, design drainage, develop typical roadway sections, prepare roadway plan and profile, vertical and horizontal geometrics of the project, quantity takeoffs, cost estimates and prepare construction documents including technical specifications.

Strain Road Bridge Over Drainage Bayou, Baton Rouge, LA: Mr. Mehta served as a project support engineer for a comprehensive hydrologic and hydraulic design study report and provided final design services for Strain Road Bridge over Drainage Bayou project. ECM prepared a design report with two design alternatives that included the replacing of existing bridge with two 60 foot long, 8' x 8' box culverts with 150 feet of channel improvement and second included replacing existing bridge with a new 100 foot long bridge with some channel improvement downstream of the channel. Based on the cost benefit analysis first alternative was selected. He was involved in the design and preparation of construction plans of two 8' x 8' box culverts. The approaching roadway is a two-lane asphalt concrete street with subsurface drainage system which will be reconstructed.

Port Hudson Pride Road Bridge Replacement, City of Baton Rouge/East Baton Rouge Parish, LA: Mr. Mehta served as Structural Engineer for the replacement of Port Hudson Pride Road Bridge at Copper Mill Bayou. He performed design study that included hydraulic, environmental and geotechnical considerations, topographic survey and preliminary design. He performed final design and was responsible for preparation of final construction plans and cost estimate. He also performed bridge load rating per LADOTD/AASHTO requirements. Estimated cost \$1.3 million

West Shore Lake Ponchartrain (WSLP) Flood risk reduction project, Segments 102 and 106, USACE Contract No. W912-P8-16-D-0005, Task Order 0011, St. Charles Parish, LA: Project Structural Engineer. The purpose of this project is to construct a 100-year level flood risk reduction system for the residents of the three parishes. The WSLP 102 and WSLP 106 of approximately 2 miles, is a part of 18.5 miles long West Shore Lake Pontchartrain project at its east approach. The salient features of this contract are earthen Levees, T-walls, and a Drainage Structure in the Montz canal with four (4) stainless steel sluice gates. The flood mitigation configuration is such that a portion of T-wall construction in this reach crosses the existing I-10 alignment and must be constructed under the I-10 east bound and west bound bridges. The scope of work of the WSLP 102 & 106 contracts includes engineering design, preparation of PS&E for all civil, structural, mechanical, electrical, and geotechnical engineering considerations. Mr. Mehta is responsible for all structural design for Flood walls, and gated drainage structure in Montz canal for both the segments. Estimated cost \$118 million.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Neil Logan, P.E., Structural Engineer

Project Assignment:

Structural Engineer

Name of Firm with which Associated:

ECM Consultants, Inc.

Years' experience with this Firm:

20

Education: Degree(s)/Year/Specialization:

B.S./Civil Engineering/1974

Active registration: Year first registered/discipline:

LA/Civil Engineering #14607

Other experience and qualifications relevant to the proposed Project:

Mr. Logan has more than 48 years of experience as a structural engineer. His project experience includes major bridges, elevated roadways, drainage culverts, drainage pumping stations, and other facilities. He is thoroughly familiar with AASHTO standards Specifications for Highway and Bridges. and LADOTD Bridges Design Manual and Standard Plans as well all engineering Directives. He is an expert for LRFD bridge design standards. He served in Jefferson Parish Structural Review Board for decades.

Employment History:

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

Causeway Boulevard Overpass Complex, USACE-New Orleans District, Jefferson Parish, LA : Under USACE Contract Nos. W912P8-07-D-0055 Mr. Logan provided bridge design services for this \$35 million project that included bridge and roadway approaches for the overpass structures at south end of the Causeway. The scope of work included precast concrete piles; cast-in-place pile bent caps, AASHTO girders, concrete decks; approach slabs and removal of a segment of the Causeway bridge for construction of a concrete floodwall below the bridge. Work also included construction of raised bridge segment, and bridge transition to the existing median to accommodate raising of the asphalt roadway approach. He performed approach portion of the bridge design conforming to ASHTO standards Specifications for Highway and Bridges.

Lapalco Boulevard Bridge Over Bayou Segnette, Jefferson Parish DPW, Jefferson Parish, LA.: Mr. Logan provided comprehensive bridge inspection and design for rehabilitation of a 40 years old 3,000 ft. long high-rise bridge consisting of prestressed concrete and steel girders with CIP deck, bents that are supported by reinforced concrete piers/columns system resting on pile supported concrete footings. Scope for these \$2.5 million (excluding bridge railing) projects that included structural inspections of girders, bents, risers, anchor bolts, bearing pads, deck, railings, curtain walls and approaches etc., as well as underwater inspections of the piers and foundation and scour depths. He designed a support structure for a bent where the deck slabs have slid substantially on the bent cap, new curtain walls, jacking and raising for replacing all neoprene bearing pads, and misc. repairs.

West Metairie Bridge, DPW- Jefferson Parish, Jefferson Parish, LA : Mr. Logan performed structural engineering services for this \$2.1 million bridge replacement project. Scope of work included preparation of plans and specifications, for replacement of existing bridge on West Metairie Ave over Soniat Canal. The work included design of 100 feet cast in place bridge with Quad Prestressed Concrete Beams, design of approach slabs, wing walls and erosion protection. The analysis and design of the bridge was performed in conformance with the AASHTO LRFD Bridge Design Standards as well as the requirements of Louisiana LRFD Bridge Design Manual, Latest edition. '

Duncan Canal Bridges, USACE- New Orleans District, Kenner, LA : As senior structural engineer, Mr. Logan designed two bridges north of the Duncan Canal Pumping Station as a part of \$8 million breakwater structure construction project. He performed design and was responsible for preparation of PS&E and engineering during construction. The first bridge is a cast-in place bridge that included piles, pile caps, concrete slab and concrete barrier. The second one is a precast concrete bridge that included concrete piles, pile caps,

TEC Professional Services Questionnaire

decks, barrier and wing walls and a 45' pre-stressed concrete girder span removable section. All design was performed as per AASHTO standards.

St. John Bridge over Bayou Lafourche, Lafourche Parish, LA Mr. Logan provided structural engineering services for the replacement of an existing bridge with a 9-20' slab span bridge. This \$1.7 million project involved design; preparation of plans, specifications, and estimates (PS&E) for the removal of existing bridge with a new cast-in place bridge that included new pile foundation substructure; pile bent, bridge superstructure deck slab and concrete barrier rails. Also included bridge approach slabs, asphalt roadway transition; striping; guardrail and ripraps.



**Jefferson
Parish**
State of Louisiana

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Marvin May, CAD Technician

Project Assignment:

CAD Technician

Name of Firm with which Associated:

ECM Consultants, Inc.

Years' experience with this Firm:

21

Education: Degree(s)/Year/Specialization:

1999/AutoCAD Drafting

Active registration: Year first registered/discipline:

Other experience and qualifications relevant to the proposed Project:

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

Employment History:

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

Glen Oaks Drive, City of Baton Rouge DPW; Baton Rouge, LA: Mr. May provided CAD services for this reconstruction project that included design for construction of a three-lane concrete roadway with turn lanes at several sideroad intersections. Work also included 6-foot sidewalks, ADA compliant ramps at intersections and subsurface drainage improvements along a one-mile of the existing Urban Collector roadway. He prepared plans and profiles, typical sections, roadway, drainage and misc. details.

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

Jefferson Avenue (S. Claiborne to Dryades), USACE-NOD; New Orleans, LA: Mr. May provided CAD services for this project extending from S. Claiborne Avenue to Dryades Street. The project involved a concrete drainage box culvert and improvements to roadways, intersections, and utility relocation.

W. Metairie/Severn Avenue Improvements (West Metairie to Derbigny), Metairie, LA: Mr. May provided CAD support on this project which included preparation of plans and details for removal and reconstruction of roadway including curb and gutter, as well as replacement of PCC panels at intersection, new subsurface drainage system, striping, and new traffic signals.

Improvements to Manhattan Blvd (11th St to Gretna Blvd), SP No. 742-26-0048, JP DPW No. 2002-002-RBI: Mr. May provided CAD drafting services for this \$1.3 million project involving asphalt roadway and intersection rehabilitation improvements to Manhattan Boulevard from 11th Street to Gretna Boulevard in Jefferson Parish. Turn lane improvements were also performed within the limits of construction.

Rehabilitation of Lapalco Boulevard (Westwood to Tanglewood), Jefferson Parish-DPW/LADOTD; Jefferson Parish, LA: Mr. May provided CAD drafting for this project which involved and preparation of plans and details for widening of existing roadway and construction of new roadway. This included cold planing, base repairs, curb repairs, drainage improvements, asphalt leveling and wearing course, striping for the existing two-lane street, and roadway plans and profiles, sections and details, including drainage for construction of two additional lanes with a median.

Latigue Road, JPDWP, Jefferson Parish, LA: Mr. May provided CAD Support on this project that involved preparation of plans and details for a new two-lane asphalt roadway and reconstruction of existing roadways with asphaltic concrete roadway, curb and gutters, and drainage.

Gravier Street Improvements (S. Galvez to S. Broad), City of New Orleans DPW, New Orleans, LA: Mr. May is providing CAD support 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.

S. Claiborne Ave. Reconstruction, Sewerage & Water Board of New Orleans, New Orleans, LA: Mr. May was involved in CAD drafting for roadway, drainage, and utility system for this project. Work included preparation of plan and profile, x-section and various details. This project under Southeast Louisiana Flood Control Program (SELA) was funded by U.S. Army Corps of Engineers and was designed conforming to USACE standards, and S&WB of New Orleans, DPW-City of New Orleans and LADOTD requirements.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Alexandra Dupuis, CAD Technician

Project Assignment:

CAD Technician

Name of Firm with which Associated:

ECM Consultants, Inc.

Years' experience with this Firm:

>1

Education: Degree(s)/Year/Specialization:

2017/AutoCAD Drafting

Active registration: Year first registered/discipline:

Other experience and qualifications relevant to the proposed Project:

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

Employment History:

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

The following are examples of his relevant experience:

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

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

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

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

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

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Zachary Collier, P.E., Civil/Construction Engineer

Project Assignment:

Construction Engineer

Name of Firm with which Associated:

ECM Consultants, Inc.

Years' experience with this Firm:

5

Education: Degree(s)/Year/Specialization:

B.S./2014/Civil Engineering

Active registration: Year first registered/discipline:

2018/Civil Engineering/LA License No. 42957

Other experience and qualifications relevant to the proposed Project:

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

Employment History:

- ECM Consultants, Inc., LA, *Civil/Construction Engineer (2020-present)*
- Coastal Protection and Restoration Authority, *Construction & Operations Manager (2018-2020)*
- LADOTD, *Assistant Project Engineer (2017-2018)*

Seymour Avenue Corridor Improvements (Veterans to West Esplanade) Metairie, Jefferson Parish, LA Mr. Collier served as the **construction engineer** on the project. The scope includes upgrading subsurface drainage system, removal of existing PCC pavement, unclassified excavation, scarifying and grading the base, new PCC pavement, concrete curbs, and sidewalk with brick pavers, ADA ramps, new bike lanes, landscaping, artwork at intersections with brick pavers, street lighting, and traffic and pedestrian signals and ten parklets. He is responsible for monitoring all construction activities for conformance with plans and specifications, entering data in Site Manager, and maintaining all documents.

City Park Neighborhood, Group - A, DPW New Orleans, LA Mr. Collier served as Construction Engineer for this **\$8.6 million** roadway improvement project. Work included PCC pavement reconstruction and milling; base repairs and asphalt overlay for the rehabilitations. He was responsible for supervision of Resident Inspectors and quality assurance to ascertain that the project is constructed in strict compliance with plans and specifications and in good workmanship manner as per industry standard.

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

River Road: Florida to Phlox – Multi-use Path, East Baton Rouge Parish, LA: This project included constructing a multi-use path, ADA accessible ramps and crosswalks, and rehabilitating the roadway on River Road (US-61X). Mr. Collier served as the Assistant Project Engineer and was responsible for overseeing contract administration, inspection, and final closeout. He attended pre-construction and construction progress meetings, supervised inspectors; reviewed and maintained project documents such as submittals, RFIs, test reports, daily inspection reports and other project documents. During site visits, he observed contractor's work activities for compliance with plans and specifications and reviewed and entered contractor's pay requests in SiteManager.

Government Street Rehabilitation, East Baton Rouge Parish, LA: Mr. Collier served on the Project Engineering team for this **\$12 million** project which consists of rehabilitating the sidewalks and driveways, milling and overlaying the existing asphalt roadway, and patching and overlaying the existing PCCP on Government Street to add a bike lane and to create a more pedestrian friendly facility. This project also includes a roundabout at Government Streets intersection with Lobdell Avenue. Mr. Collier's responsibilities included contract administration services for the project.

TEC Professional Services Questionnaire

Pecue Lane/I-10 Interchange Phase II: Bridges Over I-10, East Baton Rouge Parish, LA: Mr. Collier serves as the Project Engineer for this **\$14.6 million** overpass construction project includes two new multi-lane bridges over I-10 in Baton Rouge which will form the center of one of the state's first diverging diamond interchanges. He is providing contract administration services that includes project coordination, attending progress meetings, document management, data entry in SiteManager, manage RFIs and submittals, review plan change requests, review monthly pay estimates, prepare plan changes, keep concise record of all documents in chronological order so that project closeout documentation for final acceptance, including the 2059 will be arranged and completed properly on time.

Belle Chasse Bridge and Tunnel Replacement, P3, Design-Build Project, Plaquemines Parish, LA. Mr. Collier is serving as Project Engineer for this **\$162 million**, P3 design-build project to construct a new Mid-Level fixed span bridge that will span the Intracoastal Waterway on Louisiana Highway 23. The project will include the demolition of the existing Perez Bridge and Tunnel. This work includes pile load testing, pile driving, installing prestressed concrete girders, steel girders, concrete deck, on grade roadway including earthwork, subbase and base, drainage, utilities relocation, PCC pavement, Asphaltic Concrete pavement, concrete barrier railing, roadway lighting, MSE Wall construction and striping. ECM's Quality Control team of engineers and LADOTD certified inspectors are responsible for sampling and testing to ensure compliance with the project.



Jefferson
Parish
State of Louisiana

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Kim Martinez, Senior Construction Inspector

Project Assignment:

Senior Construction Inspector

Name of Firm with which Associated:

ECM Consultants, Inc.

Years' experience with this Firm:

12

Education: Degree(s)/Year/Specialization:

High School

Active registration: Year first registered/discipline:

LADOTD certified Embankment & Base Course, PCC Paving, and Asphalt Paving inspector; ATSSA Nighttime Control certified and Work Zone Traffic Control Flagger/Technician/Supervisor

Other experience and qualifications relevant to the proposed Project:

Ms. Martinez has 41 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 and roadway pavement, pile driving, checking rebar for concrete structure; bridge deck pours; inspection of pouring pile caps, footings and installing girders; etc. She was responsible for coordination with owners, contractors and project managers, preparing daily reports, and documenting daily work quantities, safety, and all construction activities.

Employment History:

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

Severn Avenue Reconstruction: Veterans to W. Esplanade, Jefferson Parish, LA: Ms. Martinez served as the Lead Construction Inspector for this \$14.2 million roadway reconstruction project. This project included PCC paving, major drainage improvements, ADA facilities, the addition of dedicated bike lanes, addition of turn lanes, street lighting and landscaping etc. She provided construction inspection services that included 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, reviewed monthly pay estimates and assisted Project Engineer in change orders management.

Gravier Street from S. Galvez to S. Broad Street, City of New Orleans, DPW, New Orleans, LA: Ms. Martinez served as the lead resident inspector for this project involving roadway, and sidewalk removal, excavation, installation of major subsurface drainage system and structures, new **PCC pavement**, concrete sidewalks with A/C ramps, driveways, etc. Project also included 42" RCP for drainage, 20" water line and 8"-15" sewer main.

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

Edward Hebert Boulevard Improvements, LADOTD; Belle Chasse, LA: Ms. Martinez provided inspection services for this project involving new PCC roadway, asphalt overlay, excavation, embankment, grading, class II base course, drainage, and utilities.

Westside Boulevard Road Extension (Marie Drive to St. Louis Canal); Terrebonne Parish, LA: Ms. Martinez provided inspection services for this project that involved construction of new PCC pavement roadway for the extension of the existing Westside Boulevard from Marie Drive to St. Louis Canal. The scope of work included new drainage system, utilities, unclassified excavation, grading, lime treatment, class II base course, PCC Pavement, Superpave asphaltic concrete shoulders, and associated items.

Fleur De Lis Drive Reconstruction, LADOTD, New Orleans, LA: Ms. Martinez served as Lead construction inspector for this

TEC Professional Services Questionnaire

Urban Systems project on Fleur de Lis Dr., in a residential area between 30th St. and Old Hammond Hwy. ECM provided construction contract administration and CE&I services for roadway reconstruction including sidewalks, PCC pavement, grading, subsurface drainage and utilities. She performed inspections, monitored contractor activities, provided documentation and daily reports, and coordinated with contractor and Project Engineer.

I-10 SW Frontage Road Extension, LADOTD; Slidell, LA: Ms. Martinez provided inspection services for new construction of 0.988 miles of I-10 SW Frontage Rd extension and accompanying 7-span bridge. Scope of work for the roadway included grading and earthwork, lime treatment, base course, PCC paving, pavement markings, and permanent signing. She prepared daily reports, reviewed pay estimates, monitored contractor activities, and coordinated with the Project Engineer.



**Jefferson
Parish**
State of Louisiana

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Mansoor Bajwa, E.I.

Project Assignment:

DOTD Certified Inspector

Name of Firm with which Associated:

ECM Consultants, Inc.

Years' experience with this Firm:

6

Education: Degree(s)/Year/Specialization:

B.S./1980/ Civil Engineering

Active registration: Year first registered/discipline:

Applicable Certifications for Inspectors: LADOTD Certified Asphaltic Concrete Paving and Structural Concrete Inspector. He is a certified Work Zone Traffic Control Flagger/Technician/Supervisor.

Other experience and qualifications relevant to the proposed Project:

Mr. Bajwa has more than 25 years of experience in the fields of engineering and construction management and inspection. His experience includes structural inspection of bridges including pile installations, roadways, large parking lots, pumps stations, heavy concrete structures. Drainage and other utilities. He has been responsible for daily report preparation, preparation of monthly pay estimates, and review of calculated quantities. He is proficient in MS Office and Excel.

Employment History:

- ECM Consultants Inc., LA, *Senior Construction Inspector (2014-present)*
- HNTB Corporation, *Inspector II (2012-2014)*
- Rahman & Associates, Inc., *Construction Inspector (2010-2012)*
- Lahore, Pakistan Government, *Civil Engineer (2007-2010)*
- Parsons Brinkerhoff, *Transportation Engineering Technician (2005-2007)*
- Lahore, Pakistan Government, *Civil Engineer (1981-2005)*.

Severn Ave: Veterans to W. Esplanade, Jefferson Parish, LA: Mr. Bajwa serves as one of the inspectors for this **\$14.2 million** complete PCC road construction project. The project includes drainage improvements including new trunk lines, manholes and catch basins along the length of the project, PCC paving, curb, 8' wide brick paver **pedestrian sidewalks, ADA compliant intersections**, new decorative street lighting, and landscaping. His duties included monitoring work being performed by the contractor for compliance with approved plans, specifications, and LADOTD standards. He maintained records of work quantities of pay items and recorded all work activities of work.

Submerged Roads, Phase B, LADOTD, New Orleans, LA Mr. Bajwa served as Senior Construction Inspector for this project, providing inspection of asphaltic concrete pavement, PCC pavement, patching, ADA compliant ramps, pavement markings and rehabilitation of subsurface drainage system where required.

Reconstruction of Holiday Drive, City of New Orleans-DPW No. 086, New Orleans, LA: Mr. Bajwa served as Construction Inspector for the reconstruction of Holiday Drive with **asphaltic concrete paving** including subsurface drainage systems, water and sewer systems and utilities relocations. He monitored ongoing work for compliance with approved specifications, plans, and City standards. He kept records of work quantities, contractor's progress as compared to approved schedule and prepared progress reports; reviewed change order requests; and prepared as-built plans.


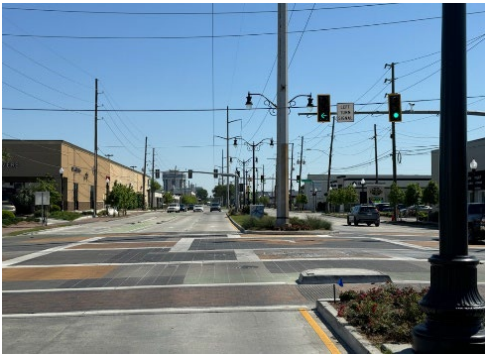
French Quarter Street Overlay, LADOTD, New Orleans, LA: Mr. Bajwa served as Senior Construction Inspector for this project and provided inspection of asphaltic concrete pavement, PCC pavement, drainage system rehabilitation, utility structure adjustments, ADA compliant ramps, and pavement markings. His duties included monitoring construction activities for compliance with plans, specifications, plans and city standards.

Rehabilitation of Baronne, Burgundy and South Peters Streets, LADOTD, New Orleans, LA,: Mr. Bajwa served as Senior Construction Inspector for this project. Project scope included **asphaltic concrete pavement, PCC pavement**, patching, ADA compliant ramps, and pavement markings. Duties included monitoring work for compliance with approved plans, specifications, and city standards. He calculated quantities of work done and recorded in Daily Reports. Mr. Bajwa also performed field acceptance testing and sampling of materials to implement LADOTD Sampling Plan.

TEC Professional Services Questionnaire


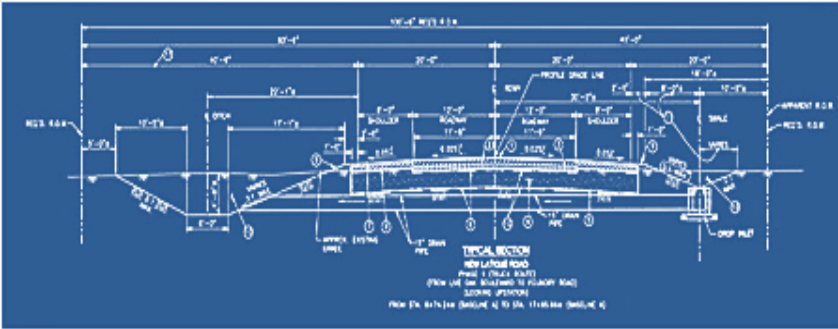
L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.

PROJECT NO. 1

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Severn Avenue Corridor Improvements Jefferson Parish, LA</p> <p>Jefferson Parish DPW / LADOTD 1221 Elmwood Park Blvd., Suite 802 Jefferson, LA 70123</p>  	<p>ECM provided engineering designs and prepared plans, specifications, and estimate (PS&E) for this \$14.2 million, 6-Lane divided, major Portland Cement Concrete (PCC) roadway with grass median. This corridor of Severn Avenue with businesses on both sides, including Lakeside mall on the east side. Initial plan for the project was to make Seven avenue corridor pedestrian friendly smart street. During field investigations and preliminary study, ECM engineers discovered that the existing pavement has signs of distress 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 new large trunk drain lines for retention of runoffs to minimize flooding in the area. This was approved and funded by RPC and the Parish. 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 and Standard Specifications for Roads and Bridges.</p> <p>Work included topographic and subsurface utility survey; development of existing and proposed drainage maps with associated hydraulic computations, design for the new 3 lanes each for North and South bound PCC roadway, widening and improvements to roadway intersections, modifications to traffic signals including new pedestrian signals, new decorative streetlights; new 8-foot wide brick paved sidewalks with ADA compliant ramps; new landscaping including irrigation system, roadway striping and designing a dedicated bike lane with buffer and construction of ten parklets with pavers, benches, potted plantings, bike racks, etc.</p> <p>ECM provided project management, engineering designs, prepared plans and profiles, Typical sections, cross sections, and details, construction phasing plan, sequence of construction plans, traffic Detour plans, specifications, and estimates. ECM provided coordination with JP-DPW, LADOTD, JP Council, RPC, various utility entities and subconsultants. ECM is currently providing construction administration and resident inspection services</p> <div data-bbox="873 1497 1317 1747" style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;"><u>Key Personnel</u> Ujjal DasGupta, P.E. Kazem Alikhani, P.E. Sunina Shrestha, P.E. Marvin May (CAD) Zachary Collier, P.E. Kim Martinez</p> </div>	
Completion Date: (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2022 (A)	\$14M	\$11 M

TEC Professional Services Questionnaire

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Latigue Road (Live Oak Blvd. to River Road) Westwego, LA</p> <p>Jefferson Parish, DPW 1221 Elmwood Parkway Harahan, LA 70123</p>  <div style="border: 1px solid black; padding: 5px; margin-top: 20px;"> <p>Key Personnel Ujjal DasGupta, P.E. Kazem Alikhani, P.E. Sunina Shrestha, P.E. Marvin May (CAD)</p> </div>	<p>ECM is provided engineering design for this \$10 million (\$7.8 million for new roadway construction for Phase-I and \$2.2 for reconstruction for Phase-II) project in Jefferson Parish. Latigue Road -Phase I includes Foundry Dr. to Live Oak Blvd. and Latigue Road Phase- II includes River Rd. to Foundry Road. Estimated ROW acquisition cost for Phase I is approximately \$800,000 to \$1 million. This two-phase project was initiated in 2002 and ECM prepared conceptual designs establishing the roadway alignment, selecting typical section, prepared preliminary cost estimates and prepared grant application for funding from several State agencies. ECM submitted six alternatives with costs to the Parish for Phase-I of the project. After selection of the most cost-effective alternative by the Parish, ECM was authorized to prepare final PS&E for both phase I and II which was completed in 2005. However, construction of this project was not undertaken by the Parish due to lack of funding. In 2016 Phase -I of the project was reinitialized due to needed changes to the alignment for ROW acquisition issues and the need for extending the road to a major industrial facility. ECM was hired by the Parish in 2016 to revise the previous plans for changed requirements and complete the final plans for Phase-I. This project is currently funded for construction of Phase -I only through 2017 Road Bond funds.</p> <p>Phase - 1 involved design for a new two 12'-lanes plus 8' shoulders, asphalt roadway with roadside open channel drainage system. The roadway is to serve as an access road (truck route) to industrial plants. Scope of work for this phase included topographic and ROW survey, preparation of ROW maps, geotechnical investigation for settlement estimates for over 3' fill on native subgrade, pavement section design, hydraulic analysis for drainage design, major drainage improvements along the proposed roadway, new traffic signal at Live Oak Blvd., striping and coordination with industries and utility owners. The project is currently in ROW acquisition phase by Parish legal Department.</p> <p>Phase -2 involved design and preparation of PS&E for the removal and reconstruction of existing two-lane roadways with asphaltic concrete roadway, curb and gutters, drainage, relocation of utilities, and roadway striping. Construction of this phase is on hold for lack of funding.</p> 	
Completion Date: (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Ongoing	\$10M	\$10M




TEC Professional Services Questionnaire

PROJECT NO. 3

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>City Park Neighborhood Roadway Improvements-Group- A New Orleans, LA</p> <p>City of New Orleans-DPW 1300 Perdido Street New Orleans, LA 70112</p>   <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Key Personnel Ujjal DasGupta, P.E. Sunina Shrestha, P.E. Chris Capretto, P.E. Missy Reynolds, EI Marvin May – CAD</p> </div>	<p>ECM provided engineering design for schematic, preliminary, plan-in- hand, pre-final, advance check and final plans and prepared PS&E conforming to City of New Orleans General Specifications for Street Paving for the streets in the City Park Neighborhood-Group A project. This project is a part of a FEMA funded roadway capital improvement program for the City of New Orleans. Total construction cost of the entire project is \$8.6 million which includes Taft Street, a \$2 million project which was a part of this project and has been completed recently. ECM provided engineering design for all the streets in the City Park Group-A project that included reconstruction and/or rehabilitation of 31 blocks of roadway including intersections. Work for roadway reconstruction included PCC paving, Asphalt paving, roadway intersections with handicap ramps conforming to current ADA standards, new sidewalk, driveways, and subsurface drainage system. Reconstruction included roadway removal, scarifying, adding geotextile fabrics and aggregate base, grading and compacting, paving with curb and gutter. Rehabilitation included cold planning, base repairs, curb and gutters and asphalt overlay.</p> <p>ECM was responsible for coordination for topographic and subsurface utility survey, field verification of survey data; coordination with S&WBNO, Entergy, AT&T and other private utilities entities for providing location and depth of their utilities and including their information in the plan and profile sheets. ECM developed existing and proposed drainage area maps and hydraulic calculations using DOTD hydraulic software HYDR Programs for the tributary area, as well as prepared a preliminary roadway plan and profile with a coordinated drainage collection system. Hydraulic design calculations were performed to size drainpipes and locate the roadway inlets.</p> <p>The project included schematic design services to develop a conceptual plan, general design criteria, and cost estimates. The preliminary design services included preliminary design plans and supporting computations, line and grade analysis, cross sections, etc.</p> <p>ECM submitted preliminary design plans to DPW, S&WBNO and all utility entities for their review and comments. Final design included incorporating plan-in-hand and other comments into preliminary plans, traffic control plans, preparation of the specifications, and final construction plans. Submittal of final documents also included hydraulic reports, plans, specifications and construction cost estimates. Additionally, the design included incorporation of replacement of water lines and sewer lines in some areas.</p> <p>Design conformed to FEMA guidelines for the Historic Area because some streets under this project are in Parkview Historic District. This project required extensive coordination with FEMA representative, the Sewerage & Water Board, Parks & Parkways for horticultural requirements and preservation of existing live oak trees.</p> <p>ECM also provided construction administration, engineering during construction and resident inspection services for this project.</p>	
Completion Date: (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2022(A)	\$8.6 M	\$1M

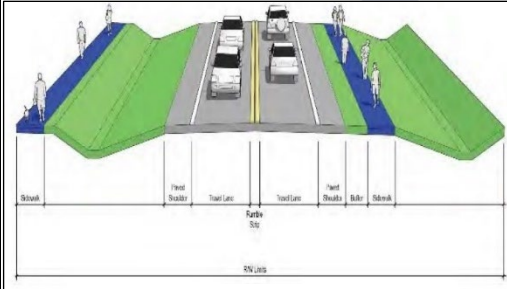

TEC Professional Services Questionnaire

PROJECT NO. 4

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Oakwood Smart Growth, Hector Ave. Improvements (Whitney Ave. to Terry Pkwy) Jefferson Parish, LA</p> <p>Jefferson Parish DPW 1221 Elmwood Park Blvd., Suite 904 Jefferson, LA 70123</p>	<p>The scope of this \$2 million project includes a 12 feet wide pervious concrete shared use pedestrian and bike path on the North side of Hector Avenue from Whitney Avenue to Terry Parkway with a pedestrian bridge crossing the canal at Wright Avenue. It also includes 5 -115 feet long parking Bays on the north side of Hector Ave. Where Parking Bays are not added, the road will be widened by two (2) feet using pervious concrete for removal of rainwater by absorption instead of discharging in the existing drainage system. The project also includes providing a pedestrian walkway on the south side of the roadway, landscaping, and green areas along both sides of the roadway. The path will meander horizontally to provide a more appealing pathway.</p> <p>Parking Bays was constructed using nine (9) inch pervious concrete over a twelve (12) inch base. Pedestrian/bike path will be constructed using 6" of pervious concrete over 12" of base. Fiber reinforcing will be added to the pervious concrete to provide more durability.</p> <p>The concrete sidewalk on the south side of the roadway is five (5) feet wide and continuous. All handicap ramps on the bike path and pedestrian walkway will be ADA compliant; Crosswalks will be high visibility crosswalks installed at intersecting roadways for the pedestrian/bike path.</p> <p>One parklet with pavers included benches and trees along the bike path; existing drain inlets are adjusted. The project also included solar powered Crossing Flashers at Terry Parkway and on street striping for bikes and pedestrian crossings.</p> <p>ECM provided construction administration and resident inspection service for this project.</p>	
 		
<div style="border: 1px solid black; padding: 5px;"> <p>Key Personnel Ujjal DasGupta, P.E. Kazem Alikhani, P.E Sunina Shrestha, P.E. Zachary Collier, P.E. Missy Reynolds, E.I. Mansoor Baiwa. E.I.</p> </div>		
Completion Date: (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2021 (A)	\$2 M	\$2 M


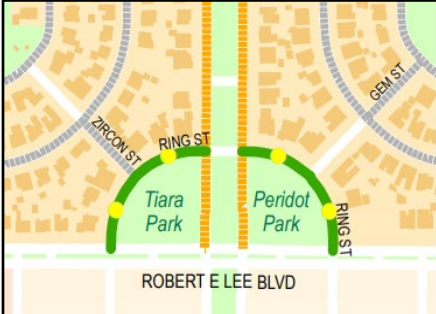
TEC Professional Services Questionnaire

PROJECT NO. 5

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Port Hudson – Pride Road (LA 964 – LA 19) Baton Rouge, LA</p> <p>City of Baton Rouge 8555 United Plaza Blvd., Baton Rouge, LA 70809</p>  <p style="text-align: center;"><i>Typical section</i></p> <div style="border: 1px solid black; padding: 5px; margin-top: 20px;"> <p>Key Personnel Ujjal DasGupta, P.E. Kazem Alikhani, P.E. Sunina Shrestha, P.E. Sudhir Mehta, P.E. Marvin May (CAD)</p> </div>	<p>ECM is providing engineering design services for this \$15 million project for the replacement of Port Hudson Pride Road extending from LA 964 to LA 19 (approximately 2.6 miles). The project involved multiple intersection roads and bridges. This is part of the MOVEBR Program, designated as a New Capacity Improvement Project.</p> <p>The proposed scope of work includes planning and design activities to increase capacity and enhance traffic flow within the project limits. Port Hudson - Pride Road is currently a two-lane roadway with open ditches, without paved shoulders. This project includes reconstruction of existing Port Hudson – Pride Road, adding paved shoulders on entire length of project and construction of sidewalks within the developed areas to Pin Oak Subdivision and reconstruction of existing bridges. The project also involves the improvement of the existing drainage system and planning and design activities to improve the traffic and connectivity of the existing Port Hudson pride road. The existing open ditches will be reconstructed to meet the current hydraulic requirement. A sidewalk will provide connectivity between LA 964 and Pin Oak Landing on both sides of Port Hudson – Pride Road.</p> <p>This section of Port Hudson- Pride also includes 2 bridges. The existing bridges are almost 48 years old and many of its components including bridge deck, timber stringers and timber caps have significantly deteriorated over the years. According to a recent inspection report the bridge has been determined to be structurally and functionally deficient. These bridges will be removed and replaced with new bridges. ECM is also working on the design of these two bridges.</p> <p>Services included preparation of a design study with road and bridge preliminary design, hydraulic, traffic, environmental, and geotechnical considerations; providing topographic survey; providing preliminary and final construction plans and cost estimates; and providing a bridge load rating in accordance with LADOTD standards and criteria. All work is being performed in accordance with MOVEBR Design Guidelines following City-Parish and LADOTD guidelines.</p> <p>As part of design study ECM team is performing the comprehensive hydrologic and hydraulic study of the existing and proposed corridor of the Port Hudson pride road and White Bayou. Bridge. They are also preparing the different alternatives for the alignment and typical section of the proposed road based, and bridges based on the H&H requirement and traffic study.</p> 	
Completion Date: (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Ongoing	\$15M	\$1.1M

TEC Professional Services Questionnaire

PROJECT NO. 6

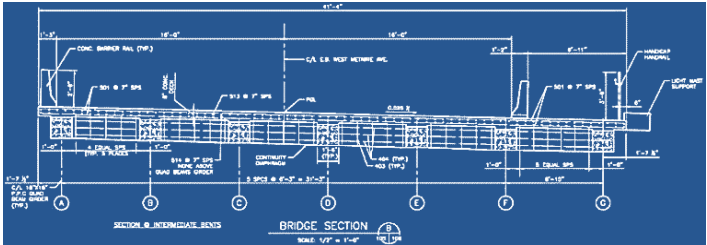
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Lake Terrace Oaks, Group C, and Lake Shore Area Group E Roadway Improvements, New Orleans, LA</p> <p>City of New Orleans DPW 1300 Perdido St. Rm 6W03 New Orleans, LA 70112</p>  <p>TYPICAL EXISTING ROADS CONDITION</p>  <p>LAKE SHORE GROUP E</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Key Personnel Kazem Alikhani, P.E. Ujjal DasGupta, P.E. Sunina Shrestha, P.E. Chris Capretto, P.E. Mansoor Bajwa Marvin May</p> </div>	<p>ECM is providing engineering design services for preparing preliminary, advance check plans and final plans and specification in conforming to City of New Orleans General Specifications for Street Paving for the streets in the Lake Terrace Oaks- Group – C and Lakeshore Area Group - F projects simultaneously. This project is a part of a FEMA funded roadway capital improvement program for the City of New Orleans. Total construction cost of the entire project is \$11.5 million (\$10 million Lake Terrace and \$1.5 million for Lake shore). ECM is providing engineering design for these projects that include 20 city blocks of roadway including intersections. Work for roadway reconstruction included PCC paving, Asphalt paving, roadway intersections with handicap ramps conforming to current ADA standards, new sidewalk, driveways and subsurface drainage system, sewer line and water line design. Reconstruction includes roadway removal, adding geotextile fabrics and aggregate base, grading and compacting, new paving with curb and gutter.</p> <p>ECM was responsible for coordination for topographic and subsurface utility survey, field verification of survey data; coordination with S&WBNO, Entergy, AT&T and other private utilities entities for providing location and depth of their utilities and including their information in the plan and profile sheets. ECM developed existing and proposed drainage area maps and hydraulic calculations using DOTD hydraulic software HYDR Programs for the tributary area, as well as prepared a preliminary roadway plan and profile with a coordinated drainage collection system. Hydraulic design calculations were performed to size drainpipes and locate the roadway inlets.</p> <p>The project included schematic design services to develop a conceptual plan, general design criteria, and cost estimates. The preliminary design services included preliminary design plans and supporting computations, line and grade analysis, cross sections, etc.</p> <p>ECM submitted preliminary design plans to DPW, S&WBNO and all utility entities for their review and comments. This project is currently at 95% preliminary completion. Plans are submitted incorporating plan-in-hand and other comments. Submittal of final documents will also include hydraulic reports, plans and specifications and final construction cost estimates. Additionally, design includes incorporation of replacement of water lines and sewer lines in some areas. Design conforms to FEMA, the Sewerage & Water Board and Parks & Parkways for horticultural requirements.</p>	
<p>Completion Date: (Actual or Estimated):</p> <p>2024 (E)</p>	<p>Estimated Cost:</p>	
	<p>Entire Project:</p> <p>\$11.5M</p>	<p>Work for which Firm was Responsible:</p> <p>\$11.5M</p>



LAKE TERRACE AND OAKS GROUP C


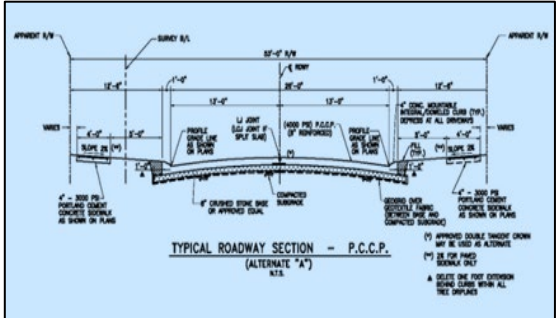
TEC Professional Services Questionnaire

PROJECT NO. 7


Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:							
<p>West Metairie Avenue Bridge Replacement, Metairie, Jefferson Parish, LA</p> <p>Jefferson Parish DPW 1221 Elmwood Park Blvd., Suite 904 Jefferson, LA 70123</p>	<p>ECM provided engineering design services for this \$2.1 million bridge construction project. ECM engineers performed structural engineering design and prepared plans, specifications and estimates (PS&E) for this project.</p> <p>West Metairie Road is a divided major road in Metairie and there are two bridges at Soniat canal crossing. The bridge on the north side was removed and replaced by the parish earlier. This project comprised of replacement of the south side bridge on West Metairie Ave. The total length of the bridge is 100 ft., spanning on three equal spans of concrete superstructure. The width of the two-lane one-way bridge is 42 ft which includes Two (2)- 12' travel lanes, shoulders on both sides and a 5' wide pedestrian lane.</p> <p>The analysis and design of the bridge was performed in conformance with the AASHTO LRFD bridge Design Standards as well as the requirements of Louisiana LRFD Bridge Design Manual, Latest edition.</p> <p>The superstructure of the bridge consists of a reinforced concrete bridge deck supported by Quad Prestressed Concrete Beams. The reinforced concrete bents have been used to support the superstructure. The pile bents are supported by 18 in square prestressed concrete piles. Two abutments, one at each end, for the project are also pile supported wall abutments.</p> <p>The structural analysis was performed by ECM's engineers for HL-93 Live Load, both Truck and tandem, as well as Louisiana Special Design vehicles using STAAD PRO's moving load generating feature. The bent was also analyzed using STAAD PRO program. Structural Concrete Design was performed using both computer assisted and manual design. The wind load on structure and on live load, stream forces, braking forces as well as bearings design calculations were performed manually to meet AASHTO criteria and design method.</p> <p>ECM prepared plans conforming to the LADOTD Bridge Design Manual and construction specifications conforming to Jefferson Parish as well as LADOTD standard specifications for Roads and Bridges.</p>							
								
<div style="border: 1px solid black; padding: 5px; margin-top: 20px;"> <p>Key Personnel Kazem Alikhani, P.E. Sunina Shrestha, P.E. Sudhir Mehta, P.E. Marvin May (CAD)</p> </div>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Estimated Cost:</th></tr> <tr> <th style="width: 50%; text-align: center;">Entire Project:</th><th style="width: 50%; text-align: center;">Work for which Firm was Responsible:</th></tr> <tr> <td style="text-align: center; vertical-align: top;">\$5 M</td><td style="text-align: center; vertical-align: top;">\$2.1 M</td></tr> </table>		Estimated Cost:		Entire Project:	Work for which Firm was Responsible:	\$5 M	\$2.1 M
Estimated Cost:								
Entire Project:	Work for which Firm was Responsible:							
\$5 M	\$2.1 M							
Completion Date: (Actual or Estimated): 2019 (A)								

TEC Professional Services Questionnaire

PROJECT NO. 8

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Gravier Street Improvements (South Galvez to Broad) New Orleans, LA</p> <p>City of New Orleans-DPW 1300 Perdido St., Ste. 6W03 New Orleans, LA 70112</p>  <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Key Personnel Ujjal DasGupta, P.E. Sunina Shrestha, P.E. Chris Capretto, P.E. Kim Martinez</p> </div>	<p>ECM provided engineering design services for this \$5.2 million roadway reconstruction project which included coordination for topographic survey including utility locations and depths. ECM developed drainage area maps and hydrologic calculations for the tributary area, as well as prepared a preliminary roadway plan and profile with a coordinated drainage collection system. Hydraulic design calculations were performed to size and locate the roadway inlets. The drainage collection system included pipe sizes ranging from 12" to 42" in Diameter. Integral to the roadway design was the additional design of approximately 2,600 Lin. Ft. of water mains ranging in size from 8" to 20" in diameter with associated water house connections. Design included relocation of approximately 2,400 Lin. Ft. of sanitary sewer ranging in size from 8" to 15" in Diameter.</p> <p>The scope of work involved detailed pavement design for both PCC and asphaltic concrete roadway reconstruction with curbs and gutters including a bid optional for PCCP roadway and installation of ADA ramps for the handicapped at intersections, and removal and replacement of sidewalks and driveways.</p> <p>The project included schematic design services to develop a conceptual plan, general design criteria, and cost estimates. The preliminary design services included preliminary design plans and supporting computations, line and grade analysis, cross sections, etc. Final design services included revisions to preliminary plans, preparation of the specifications, bid documents, traffic control plans, pavement marking, and submittal of signed and stamped final construction plans.</p> <p>ECM was responsible for submitting preliminary design plans, ACP and final plans including to the City DPW and S&WB for review and comments. Final documents included hydraulic reports, plans and specifications, construction cost estimates incorporating all comments, and bid documents.</p> <p>Project required collection of existing information and extensive coordination with the Sewerage and Water Board and other utilities regarding both vertical and horizontal location of utilities. ECM also coordinated with the Department of Public Works for horticultural requirements. ECM provided construction administration, engineering during construction and resident inspection services for this project.</p> 	
Completion Date: (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2017 (A)	\$5.2 M	\$5.2 M

TEC Professional Services Questionnaire

PROJECT NO. 9		
<p>Project Name, Location and Owner's contact information:</p> <p>Lapalco Bridge Over Bayou Segnette Jefferson Parish, LA</p> <p>Jefferson Parish DPW 1221 Elmwood Park Blvd., Suite 904 Jefferson, LA 70123</p> <div style="display: flex; justify-content: space-around; margin-top: 10px;">   </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px; background-color: #d9e1f2;"> <p style="text-align: center; margin: 0;"><u>Key Personnel</u></p> <p style="text-align: center; margin: 0;">Ujjal DasGupta, P.E. Kazem Alikhani, P.E. Marvin May (CAD)</p> </div>	<p style="text-align: center; margin: 0;">Nature of Firm's Responsibility:</p> <p>ECM performed comprehensive bridge inspection conforming to National Bridge Inspection Standard (NBIS) using FHWA-NBIS certified engineers and inspectors. Additionally, scope of the contract also included load rating analysis and subsequently design and preparation of construction documents for correcting deficiencies, damages and replacing non-standard elements for the Lapalco Blvd. Bridge over Bayou Segnette. This 40 years old bridge is a 3,000 LF long, high rise steel girder spans (over water) and prestressed concrete girder span bridge that is supported by reinforced concrete pier/column systems resting on pile supported reinforced concrete footings.</p> <p>Work included structural inspections of girders, bents, risers, anchor bolts, bearing pads, deck, expansion joints, railings, curtain walls and approaches etc., load rating analysis as well as underwater inspections of the piers and foundation and scour depths, inspection of coating (LBP) of the steel girders.</p> <p>ECM performed complete physical inspection of all the structural elements of the bridge and prepared a report for the Dept. of Engineering, Jefferson Parish, detailing all the deficiencies and damages including nonstandard bridge railings and existing Lead Based Paint (LBP) system on steel girders. ECM made recommendations for the necessary rehabilitation and repairs to the bridge elements including replacement of the bridge safety railings. After inspection report was submitted, ECM was authorized to design for remediation of all structural deficiencies of the bridge including removal of LBP and recoating of the steel girders and replacement of non-standard railings.</p> <p>ECM performed design and prepared construction plans and specifications for replacing all bearing pads for the girders which will require lifting of each span individually, replace all damaged and bent anchor bolts and angle clits, replace all deck expansion joint systems, abatement of LBP and repaint all steel girder spans, remove and replace the bridge's concrete curtain walls which have moved out of their original positions, removal and replacement of the existing bridge safety rail with PL-2 compliant railing consisting of concrete and metal rail with a total height of 3'-6", and replace permanent pavement markings.</p> <p>Some deck and approach slabs have slid and created as much as about 4" gap in some places in the expansion joint. which will be repaired by installing new expansion joint materials on the deck. Additionally, a heavy steel structure has been designed to support the concrete girders in the event the movement of the span continues beyond the bent cap. Because the deck slabs have slid substantially, Parish engaged a geotechnical firm to monitor and investigate cause for the bridge movements. Designs and plans are 100% complete and waiting for authorization by Parish for bidding.</p>	
<p>Completion Date: (Actual or Estimated):</p> <p style="text-align: center; color: blue;">2022 (A)</p>	<p>Estimated Cost:</p>	
	<p>Entire Project:</p> <p style="color: blue;">\$6.5M</p>	<p>Work for which Firm was Responsible:</p> <p style="color: blue;">\$6.5M</p>

TEC Professional Services Questionnaire

PROJECT NO. 10

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Napoleon Avenue Reconstruction (South Claiborne to Carondelet Street), New Orleans, LA</p> <p>USACE/SWBNO 7400 Leake Ave., New Orleans, LA 70118</p>   <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p>Key Personnel Ujjal DasGupta, P.E. Sunina Shrestha, P.E. Marvin May (CAD)</p> </div>	<p>ECM provided engineering designs and prepared plans, specifications and estimate (PS&E) and CA services for reconstruction of this 4-Lane divided road with bike lane, parking lane and grass median. This major collector road is located in residential and commercial areas.</p> <p>This \$55 million project involved reconstruction of Napoleon Avenue (between South Claiborne Ave. and Carondelet Street) and all side road intersections, in conjunction with construction of a major drainage box culvert in the roadway median under SELA program. Construction costs for roadway, subsurface drainage and all utilities work for which ECM was responsible for were approximately \$21 million.</p> <p>ECM's scope of work for roadway reconstruction and related work included coordination with surveyor for topographic and utilities survey, USACE-NOD, S&WBNO, Entergy and other utilities entities, DPW-City of New Orleans, the Baptist hospital and other businesses that was impacted by construction of this project. ECM also coordinated with Geotechnical engineering subconsultant for geotechnical investigations, analysis and report and Traffic engineering subconsultant for traffic control and detour plans.</p> <p>ECM engineers performed hydraulic analysis for sizing drain lines, locations of inlets and tie-in to the new box culvert. ECM engineers performed engineering design for 4-lane roadway with concrete curb and gutter and improvements to all intersections and turn lanes. ECM engineers and CAD technicians prepared plans and profiles, existing and proposed drainage maps for the street's drainage, typical sections for asphalt roadway, cross sections, summary and details quantity sheets and miscellaneous details.</p> <p>Scope also included replacement of all water mains and sewer lines including service lines at conflicts, construction of a large conflict box for the new box culvert and an existing large major brick sewer collection line at intersection of Clara Street near the entrance to Baptist hospital emergency room. Also included was new subsurface drainage system including tie-in of new and existing culverts into new concrete box culvert; removal and reconstruction of sidewalks where required, striping, and marking for bike lanes and crosswalks</p>  	
<p>Completion Date: (Actual or Estimated):</p> <p>2018 (A)</p>	<p>Estimated Cost:</p>	
	<p>Entire Project:</p> <p>\$55M</p>	<p>Work for which Firm was Responsible:</p> <p>\$21M</p>

TEC Professional Services Questionnaire

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

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

TEC Professional Services Questionnaire

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

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6. Adversarial Legal Proceedings with Parish
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FIRM PROFILE

ECM Consultants, Inc. is a locally owned, architectural and construction management firm, located at 1301 Clearview Parkway, Suite 200, Metairie, Louisiana 70001. ECM was incorporated under the laws of the State of Louisiana on August 31, 1995. Over the past 28 years, the firm has provided professional services for over 880 various projects servicing clientele including:

- Jefferson Parish Department of Public Works
- LA DOTD
- U.S. Department of Agriculture
- City of New Orleans Dept. of Public Works
- Sewerage & Water Board of New Orleans
- New Orleans Aviation Board
- Regional Transit Authority
- Jefferson Parish School Board
- City of Kenner Department of Public Works
- Housing Authority of New Orleans
- U.S. Army Corps of Engineers
- City of Baton Rouge DPW
- Port of New Orleans

ECM currently has 72 full-time, professional and support staff personnel working on infrastructure projects across Jefferson and surrounding parishes. Our expertise includes design in the fields of civil, hydraulic and structural engineering, architecture, project management, construction management and resident inspection services. ECM employs qualified and experienced

professional personnel, who are licensed and certified to perform engineering services required for the projects under this contract. Our staff has thorough knowledge of all local, state, and federal rules and regulations, and is highly experienced in successful completion of projects with Jefferson Parish.

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 Civil Engineer who shall be registered as such in Louisiana with a minimum of five (5) years' experience in the disciplines involved.	Sunina Shrestha, P.E. 16 years' experience LA Civil Eng. #37901
3. One (1) employee who is a professional engineer registered as such in Louisiana in the field or fields of expertise required for the project. (A sub-consultant may meet this requirement only if the advertised Project involves more than one discipline)	Ujjal DasGupta, P.E., LA Civil Eng. # 19849 Sunina Shrestha, P.E. LA Civil Eng. #37901 Chris Capretto, P.E. LA Civil Eng. #38641

ECM substantially exceeds minimum qualification requirements.

1. PROFESSIONAL TRAINING AND EXPERIENCE

A. RELEVANT PROJECT EXPERIENCE

ECM has extensive experience in engineering design, preparation of plans and specifications, construction administration, and construction engineering and inspection for new roadways and roadway improvement projects. Our relevant experience includes the following:

- \$14.2 million Severn Avenue Corridor Improvements for Jefferson Parish
- \$2.4 million Youth Study Center Area Streets Improvements in Orleans Parish
- \$6.5 million Rehabilitation of Lapalco Bridge over Bayou Segnette, 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.

- \$2 million Oakwood Smart Growth, Improvements on Hector Avenue in Jefferson Parish
- \$7.5 million Latigue Road Extension and Improvements for Jefferson Parish
- \$10 million Glen Oaks Drive (Plank Rd. to McClelland Rd.) for City of Baton Rouge
- \$5.2 million Gravier St., City of New Orleans DPW
- \$12 million Improvements to Lapalco Boulevard (Westwood to Tanglewood), Jefferson Parish
- \$2.3 million Improvements to West Metairie/Severn Avenue (West Metairie to Derbigny) for Jefferson Parish
- \$15 million Improvements to Brown Ave., Jefferson Parish
- \$8 million Improvements to Edwards Ave., Jefferson Parish
- \$3 million Improvements to Lapalco Blvd. (Belle Chasse Hwy. to Wall Blvd.; Wall Blvd. to Timberland Drive; and Timberlane Dr. to Manhattan Blvd.), Jefferson Parish & LADOTD
- \$20 million Napoleon Ave. (S. Claiborne to Carondelet) for USACE & S&WB of New Orleans
- \$3.5 million Rehabilitation of S. Claiborne Ave. (Jena St. to Louisiana Ave.), S&WB of New Orleans
- \$1 million Improvements to Manhattan Blvd. (11th St. to Gretna Blvd.) for Jefferson Parish & LADOTD
- \$20 million Jefferson Ave. (S. Claiborne to Dryades) for USACE and S&WB of New Orleans
- \$2.6 million Roadway Improvements to Carney, Dreux, Forstall, & Knight Streets, City of New Orleans

B. QUALIFICATIONS OF KEY PERSONNEL and SUBCONSULTANTS

Sunina Shrestha, P.E., Professional In Charge: 16 years of experience in project management, cost estimating, scheduling, engineering design and construction phase services for transportation and water resource projects.

Ujjal DasGupta, P.E., Principal-in-Charge: 53 years of experience in project management, civil and structural engineering design, construction management, and construction quality assurance services. He has been responsible for engineering design and construction management services for over several billion dollars of projects

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

Kazem Alikhani, P.E., Project Manager/POC: 44 years of experience managing public works projects including planning, design and construction management. As CEO of ECM, Mr. Alikhani serves as Project Manager for a variety of infrastructure projects, overseeing staff, budgets, timeline and working with owners, consulting firms and subconsultants to ensure timely and accurate project delivery.

Christopher Capretto, P.E., Project Engineer: 16 years of experience in engineering design, construction contract administration, inspection for roadway/bridge projects.

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

Missy Reynolds, Civil Engineering Design: 31 years' experience in engineering design, program, project and construction management for transportation, drainage, utilities, and disaster recovery projects.

Sudhir Mehta, P.E., Senior Structural Engineer: 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.

Neil Logan, P.E., Senior Structural Engineer: Mr. Logan has over 48 years of experience as a structural engineer, with project experience including floodwalls, breakwaters, drainage pumping stations, hurricane and storm damaged risk reduction structures, commercial buildings, vehicle maintenance facilities, industrial facilities and bridges.

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

Kim Martinez, Construction Inspector: 41 years of inspection experience primarily working on transportation projects across Louisiana including a 30-year career with LADOTD as an inspector and laboratory technician

TEC Professional Services Questionnaire

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

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

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

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

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

Chad Poche', P.E. Geotechnical Engineer (Gulf South) consulting geotechnical engineer for more than 20 years in South Louisiana, working on traditional and unique geotechnical engineering projects (shallow and deep foundation design, slope stability, pavement design, etc.). Mr. Poché has also provided construction oversight for waste facilities and virtually every type of earthwork-related project. He is a licensed Louisiana P.E.

Bryson Beard, P.E., ACI Geotechnical Field Engineer (Gulf South) is an Associate Geotechnical Engineer/Field Engineer who serves as a Project Manager. He has performed geotechnical engineering analyses consisting of shallow and deep foundations, slope stability, TRS and sheet pile wall design, settlement, pavement design, etc., and has prepared engineering

reports. Mr. Beard's experience in the field includes surface and subsurface soil sampling, water sampling, and soil classification.

2. Size of Firm

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

3. Capacity for Timely Completion of Work

ECM understands the requirements of successfully managing and executing contracts. Contracts will be staffed by personnel with the technical expertise, resources, and capacity to effectively fill the needs of the project. **Our efficient approach to scheduling work allows our personnel to provide all required man-hours for each of our ongoing projects.**

ECM has extensive experience performing services for concurrent task orders and projects for IDIQ contracts with a number of agencies, including Jefferson Parish, USACE, DOTD, NRCS.

4. Past Performance on Parish Contracts

ECM has successfully completed a number of projects for Jefferson Parish and various federal and state government agencies and has received "**Exceptional**" performance ratings relative to controlling costs, quality of work, and maintaining the contract's schedule. We take pride in completing projects on-schedule and within budget, and as a result we have been rewarded with repeat contracts. Below are a few examples of projects completed within budget and on time:

- Severn Avenue Corridor Improvements (Veterans Blvd. to West Esplanade Ave.)
- Oakwood Smart Growth - Hector Avenue Improvements (Whitney Avenue to Terry Parkway) for Jefferson Parish
- Lapalco Bridge Over Bayou Segnette for Jefferson Parish
- Rehabilitation of Lapalco Boulevard, Phases I, II, and III (Belle Chasse Highway to Manhattan Boulevard): Design

TEC Professional Services Questionnaire

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

and construction of all three phases of this project were completed within budget and on-schedule.

S&WB of New Orleans
(504) 865-0650, rspooner@swbno.org

5. Location of Principal Office

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

- **Glen Oaks Drive (Plank Road to McClelland Drive)**
Craig Rabalais, P.E.
City of Baton Rouge, DPW
(225) 731-3607; craig.rabalais@br.gov

6. ADVERSARIAL LEGAL PROCEEDINGS BETWEEN THE PARISH AND FIRM

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

7. PRIOR SUCCESSFUL COMPLETION OF PROJECTS

ECM has received "Exceptional" performance ratings from various USACE Districts, an "Outstanding" performance rating from U.S. HUD, and "Letters of Commendation" from the U.S. Customs Service, USDA, U.S. HUD, U.S. Army Corps of Engineers New Orleans District, and various other local government agencies such as Jefferson Parish, City of New Orleans Dept. of Public Works, Calcasieu Parish Policy Jury, and many more.

Below are references from some of our related projects:

- **Severn Avenue Corridor Improvements (Veterans Blvd. to West Esplanade Ave.)**
Mark Drewes, P.E.
Jefferson Parish -DPW
(504) 736-6784; mdrewes@jeffparish.net
- **Design and Construction of Drainage Improvements on Mounes Street (Phases I and IV)**
Neil Schneider, P.E.
Jefferson Parish -DPW
(504) 736-6739; nschneider@jeffparish.net
- **Jefferson Parish Public Works Warehouse Facility**
Mark Drewes, P.E.
Jefferson Parish – DPW
(504) 736-6784; mdrewes@jeffparish.net
- **Gravier Street Reconstruction**
Josh Hartley, Project Manager
City of New Orleans Dept. of Public Works
(504) 606-0707, jwhartley@nola.gov
- **Napoleon Avenue Reconstruction**
Ron Spooner, P.E.

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

CONCLUSION

ECM Consultants, Inc. exceeds the required qualifications, experience, and resources to perform engineering services for Street Projects in Jefferson Parish. We are poised for immediate assignment and look forward to providing excellent professional services to Jefferson Parish for this contract. We hope to receive favorable consideration.

TEC Professional Services Questionnaire

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

Signature:  **Print Name:** Kazem Alikhani, P.E.
Title: Chief Executive Officer **Date:** 07/15/2024



**Jefferson
Parish**
State of Louisiana

Section 2

BFM Corporation, LLC.

TEC Professional Services Questionnaire

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Provision of Routine Engineering Services for

Streets Projects in Jefferson Parish

SOQ **24-021** | Resolution No. **144319**

B. Firm Name & Address:



BFM Corporation, LLC

15 Veterans Memorial Boulevard | Kenner LA 70062

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

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

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

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

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

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

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

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

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

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

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

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

TEC Professional Services Questionnaire

G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.		
1. N/A		
2.		
H. Has this JOINT-VENTURE previously worked together? Please check: YES_____ NO_____ N/A		
I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.		
Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. N/A		
2.		
3.		
J. Please specify the total number of support personnel that may assist in the completion of the Project: <div style="display: flex; align-items: center;"> <div style="border-bottom: 1px solid black; width: 100px; margin-right: 10px;">26</div> <div>(all personnel will be available for assignment to the project)</div> </div>		

TEC Professional Services Questionnaire

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

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Ralph P. Fontcuberta, Jr., PLS

Executive Vice President / Registered Professional Land Surveyor

Project Assignment:

Registered Professional Land Surveyor

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

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

Education: Degree(s)/Year/Specialization:

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

Active Registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

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

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

TEC Professional Services Questionnaire

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

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

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

- West Esplanade Avenue U-Turn at Bonnabel Canal, Metairie, Jefferson Parish, LA
- Manhattan Boulevard Southbound Lanes Widening, Harvey, Jefferson Parish, LA
- Lapalco Boulevard Survey Update, Jefferson Parish, LA
- West Napoleon Avenue Extension (Highway Park Subdivision), Jefferson Parish, LA
- Bonnabel Boulevard Bike Path, Metairie, Jefferson Parish, LA
- Lapalco Boulevard Bridge at Harvey Canal, Jefferson Parish, LA
- Causeway Boulevard Overpass (over Airline Drive), Jefferson Parish, LA
- Barataria Boulevard Right Turn Lane, Jefferson Parish, LA
- Hollygrove Group E (RR065) Route Topographic Survey, Jefferson Parish, LA
- Veterans Memorial Boulevard Route Topographic Survey, Jefferson Parish, LA
- Medical Center Boulevard Lighting, Marrero, Jefferson Parish, LA
- Jefferson Highway to Charlotte Drive Route Topographic Survey, River Ridge, Jefferson Parish, LA
- Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, LA
- Soniat Canal Timber Bulkhead Replacement Route Topographic Survey, Jefferson Parish, LA
- Highway 90 Route Topographic Survey, Jefferson Parish, LA
- Bissonet Plaza Drainage Improvements (Phase 1, Elmwood & Craig Ave), Jefferson Parish, LA
- Transcontinental Drive (North Bound; W. Metairie to Veterans), Metairie, Jefferson Parish, LA
- Earhart Expressway - Proposed Lead Street On/Off Ramps, Jefferson Parish, LA
- Latigue Road Extension, Supplemental Services, Jefferson Parish, LA
- Destrehan Avenue Bike Path (Patriot Street to Chadwood Drive), Harvey, Jefferson Parish, LA
- Metairie Road Smart Growth: Causeway Boulevard and Metairie Road, Metairie, Jefferson Parish, LA
- Ames Boulevard Rehabilitation, Jefferson Parish, LA
- Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA
- Power Boulevard at Vintage Drive, Kenner, Jefferson Parish, LA
- L&A Road Revision Survey, Jefferson Parish, LA
- Green Acres Road, Metairie, Jefferson Parish, LA
- Veterans Memorial Boulevard - Westbound, Jefferson Parish, LA

TEC Professional Services Questionnaire

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

- Manhattan Boulevard Widening, Harvey, Jefferson Parish, LA
- Hector Avenue Route Topographic Survey, Gretna, Jefferson Parish, LA
- Cousins Boulevard Extension Project, Harvey, Jefferson Parish, LA
- Little Farms Avenue, Jefferson Parish, LA
- David Drive Corridor Project, Metairie, Jefferson Parish, LA
- Latigue Road Extension, Jefferson Parish, LA
- Bissonet Plaza Project Surveying, Metairie, Jefferson Parish, LA
- 11th Street Rehabilitation, Harvey, Jefferson Parish, LA
- Harvey Canal Subdivision Drainage Project, Harvey, Jefferson Parish, LA
- Lapalco Boulevard Turn Lane (Lapalco Boulevard at Barataria Boulevard), Jefferson Parish, LA
- Lift Station No. 6 Improvements, City of Harahan, Jefferson Parish, LA
- Barataria Boulevard Turn Lane Project, Marrero, Jefferson Parish, LA
- Kenner Marketplace Survey Update, City of Kenner, LA
- South Jamie Boulevard, Avondale, Jefferson Parish, LA
- Route Topographic Surveying for Multiple Streets (VFW Area), City of Harahan, Jefferson Parish, LA
- David Drive Corridor, Jefferson Parish, LA
- Mounes Street Subsurface Drainage (Phase IV, Dickory to Elmwood Park), Jefferson Parish, LA
- Metairie Road & Johnson Street, Route Topographic Survey, Jefferson Parish, LA
- Cleary Avenue Survey Checks, Metairie, Jefferson Parish, LA
- Walter Road at Melrose Avenue, River Ridge, Jefferson Parish, LA
- 25th Street & Adjacent Canal, Gretna, Jefferson Parish, LA
- Causeway Boulevard Overpass at Airline Highway (Phase 5), Metairie, Jefferson Parish, LA
- Lapalco Boulevard Survey Update, Jefferson Parish, LA
- Earhart Expressway Roadway Light Improvements, Jefferson Parish, LA
- Labarre Road Railroad Crossing, Metairie, Jefferson Parish, LA
- Citrus Road Project, Route Topographic Survey, River Ridge, Jefferson Parish, LA
- DOTD H.008068, Peters Road Bridge and Extension Project (Phase 2), Jefferson Parish, LA
- Veterans Memorial Boulevard/Power Boulevard at the Soniat Canal, Jefferson Parish, LA
- Veterans Boulevard RTA Multi-Use Trail, Jefferson Parish, LA
- Airline Overpass Rehabilitation, Phase 2, Jefferson Parish, LA
- Citrus Boulevard Improvements (Dickory Ave to Elmwood Park Blvd), Metairie, Jefferson Parish, LA
- Severn Avenue (Veterans Boulevard to West Esplanade), Metairie, Jefferson Parish, LA
- Airline Drive at Clearview Parkway/Zinnia Ave. to Houma Blvd., Jefferson Parish, LA
- Franklin Avenue (Gretna) Right-of-Way Boundary Survey, Gretna, Jefferson Parish, LA

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Chad M. Poché, P.E.

Executive Vice President / Registered Professional Geotechnical Engineer

Project Assignment:

Engineering Liaison

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

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

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

Education: Degree(s)/Year/Specialization:

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

Active Registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

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

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

TEC Professional Services Questionnaire

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

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 & hydrographic 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. (\$478,744 (fee); 2020)

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

Mounes Drive (Dickory to Elmwood Park), Jefferson Parish, LA. BFM provided a topographic survey for the Mounes Drive project, extending from Dickory to Elmwood Park Boulevard. The scope of services included establishing baseline, temporary benchmarks, and elevations, as well as boundary corners. Plotting of improvements and utility elements (sewer, water, drainage, etc.) was also included. (\$88,930 (fee); 2017)


Ames Boulevard Rehabilitation, Jefferson Parish, LA. BFM executed a Route Topographic Survey (RTS); 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 included Ames Boulevard from the apparent right-of-way (R/W) at Lapalco Boulevard to the apparent R/W north of Happy Street; approximately 4,800 linear feet. (\$82,500 (fee); 2019)

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

Transcontinental Drive (North Bound; W. Metairie Avenue to Veterans Boulevard), Metairie, Jefferson Parish, LA. BFM executed a Route Topographic Survey; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. BFM established a baseline and temporary benchmarks along each route, as well as location of improvements and utilities. (\$59,630 (fee); 2020)

Cousins Boulevard Extension Project, Harvey, Jefferson Parish, LA. BFM Corporation provided surveying services for the Cousins Boulevard Extension Project in Harvey, LA. The first phase of the project involved the Route Topographic Survey; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The survey included elements/areas of Lapalco Boulevard, Woodmere Boulevard, and Alex Kommen Boulevard. Cross Sections and rights-of-way were included. The second phase included boundary surveying and abstracting services, including research and working with the Jefferson Parish Legal Department for additional details. (\$49,300 (fee); 2018)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Gary J. Lambert, Jr., PLS Vice President / Registered Professional Land Surveyor	
Project Assignment:	
Project Manager/Drafting Supervisor	
Name of Firm with which associated:	
 BFM CORPORATION, LLC Professional Land & Hydrographic Surveying	
Years' experience with this Firm:	
6 years (joined BFM in 2018); 13 years total (2011)	<i>BFM Corporation, LLC 2018 to present</i> <i>Riverlands Surveying 2016 to 2018</i> <i>Bertucci Contracting 2011 to 2016</i>
Education: Degree(s)/Year/Specialization:	
B.S., 2018, Geomatics, Nicholls State University B.S., 2014, Construction Management, Louisiana State University	
Active Registration: Year first registered/discipline:	
2021, Professional Land Surveyor (Louisiana No. 5929)	
Other experience and qualifications relevant to the proposed Project:	
<p>Gary J. Lambert, Jr., is a registered Professional Land Surveyor in Louisiana and provides Project Management and Drafting Oversight for BFM Corporation. He is the first point of contact for clients on technical matters, scheduling, and deliverables for project work, and conducts meetings with engineering, architectural, and government officials to discuss various project needs. His project work has encompassed all manner of surveying services, from basic home lots to 100+ acre tract boundary surveys.</p> <p>In the field, Mr. Lambert has provided services as a Survey Crew Chief, using both traditional and robotic surveying methods, since the start of his professional career, and has experience with Leica, Hypack, AutoCAD, AutoCAD 3D, Trimble, and RTK surveying technologies. He further trains employees in the use of an aerial drone, laser scanner, and remote-controlled hydrographic survey boat. This survey experience includes topographic, boundary, ALTA/NSPS, FEMA, and various construction surveying. Mr. Lambert has also conducted hydrographic surveys in the Mississippi River and various other bodies of water throughout the Gulf Coast area.</p> <p>Mr. Lambert has completed Basic OSHA Training and holds license with the Gulf Coast Safety Council (08SSV, ID429523).</p>	

TEC Professional Services Questionnaire

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

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

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

Medical Center Boulevard Lighting, Marrero, Jefferson Parish, LA. BFM executed a Route Topographic Survey for the proposed lighting project; the survey extended from apparent R/W (right-of-way) to apparent R/W along Medical Center Boulevard from Wichers Drive to the West Bank Expressway (approximately 2,200 linear feet), with spot elevations taken at 50 foot intervals. The full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. BFM established a baseline and temporary benchmarks along each route, as well as location of improvements and utilities. (\$26,410 (fee); 2020)

Power Boulevard at Vintage Drive, Kenner, Jefferson Parish, LA. A survey update was provided by BFM, which was a continuation of a previous surveying project executed by the company. The scope of work included updating or addition of topographic survey at the intersection of Vintage Drive and Power Boulevard, and shooting two cross sections along the canal adjacent to a proposed bridge location. BFM further located the waterline, new monument along Power Boulevard, and located the monument of Lot 7 and adjacent property line along Janice Street and Vintage Boulevard. (\$11,390 (fee); 2019)

Cousins Boulevard Extension Project, Harvey, Jefferson Parish, LA. BFM Corporation provided surveying services for the Cousins Boulevard Extension Project in Harvey, LA. The first phase of the project involved the Route Topographic Survey; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The survey included elements/areas of Lapalco Boulevard, Woodmere Boulevard, and Alex Kommen Boulevard. Cross Sections and rights-of-way were included. The second phase included boundary surveying and abstracting services, including research and working with the Jefferson Parish Legal Department for additional details. (\$49,300 (fee); 2018)

David Drive Corridor Project, Metairie, Jefferson Parish, LA. BFM executed a right-of-way service for this phase of the David Drive Corridor project. BFM has also provided surveying for other elements of the project, including a Route Topographic Survey. (\$3,971 (fee); 2018)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Christopher Lemley Field Operations Manager/Survey Crew Chief	
Project Assignment:	
Field Operations Manager/Survey Crew Chief	
Name of Firm with which associated:	
 BFM CORPORATION, LLC Professional Land & Hydrographic Surveying	
Years' experience with this Firm:	
10 years (joined BFM in 2014); 18 years total (2006)	<i>BFM Corporation, LLC 2014 to present</i> <i>G.E.C., Inc. 2010 to 2014</i> <i>Krebs, LaSalle, LeMieux Consultants, Inc. 2006 to 2010</i>
Education: Degree(s)/Year/Specialization:	
High School Diploma	
Active Registration: Year first registered/discipline:	
<i>American Traffic Safety Service Assn. – Traffic Flagger</i> <i>Louisiana Boater Education - Boating Safety Certificate</i> <i>Norfolk Southern Roadway Worker Protection Contractor Safety Certificate</i>	
Other experience and qualifications relevant to the proposed Project:	
<p>Chris Lemley's services as BFM's Field Operations Manager includes overseeing all field work and activity by company personnel. His surveying experience includes over 8 years as a Survey Crew Chief. His survey software experience includes projects involving Trimble, Topcon, Leica, and Hypack, and has maintained and operated GPS, Auto-Level, and Total Station. Notable past project work has included the New Orleans Museum of Art, Jackson Barracks Restoration, US Highway 11, NASA Michoud Cells 3 & 4, the St. Bernard Lot Next Door Program, and multiple Orleans Parish School Recovery projects (including L.B. Landry, George Washington Carver, and Alice M. Harte schools).</p> <p>Citrus Boulevard Improvements, Jefferson Parish, LA. The project involved an Additional Route Topographic Survey; BFM provided surveying services for the Citrus Boulevard Improvements project, which extended from Dickory Avenue to Elmwood Park Boulevard. (\$7,085 (fee); 2017)</p> <p>Causeway Boulevard Overpass at Airline Highway (Phase 5), Metairie, Jefferson Parish, LA. BFM's surveying services involved the preparation of a Route Topographic Survey (FEMA) 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. (\$41,135 (fee); 2017)</p>	

TEC Professional Services Questionnaire

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

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

Manhattan Boulevard Widening, Harvey, Jefferson Parish, LA. BFM executed boundary and Right-of-Way takings surveying services for Manhattan Boulevard's southbound lanes, from the West Bank Expressway to Gretna Boulevard. (\$21,150 (fee); 2018)

Cousins Boulevard Extension Project, Harvey, Jefferson Parish, LA. BFM Corporation provided surveying services for the Cousins Boulevard Extension Project in Harvey, LA. The first phase of the project involved the Route Topographic Survey; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The survey included elements/areas of Lapalco Boulevard, Woodmere Boulevard, and Alex Kommen Boulevard. Cross Sections and rights-of-way were included. The second phase included boundary surveying and abstracting services, including research and working with the Jefferson Parish Legal Department for additional details. (\$49,300 (fee); 2018)

David Drive Corridor Project, Metairie, Jefferson Parish, LA. BFM executed a right-of-way service for this phase of the David Drive Corridor project. BFM has also provided surveying for other elements of the project, including a Route Topographic Survey. (\$3,971 (fee); 2018)


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

Lapalco Boulevard Bridge at Harvey Canal, (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, LA. BFM Corporation provided extensive surveying services for a topographic & hydrographic 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. (\$478,744 (fee); 2020)

Richard Street Surveys, Gretna, Jefferson Parish, LA. BFM provided surveying services to recover temporary benchmarks (TBMs) at Richard Street, and re-establish vertical TBM control for the Fourth Street Extension. (\$4,520 (fee); 2016)

Latigue Road Extension, Jefferson Parish, LA. BFM executed surveying services related to the Latigue Road Extension project; this included surveying for a right-of-way acquisition. This was phase I of the project for the proposed extension from Foundry Road to Live Oak Boulevard. (\$8,896 (fee); 2015)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
John Philip Thayer Procurement Director (Proposals & Project Management Support)	
Project Assignment:	
Project Management Support	
Name of Firm with which associated:	
 BFM CORPORATION, LLC Professional Land & Hydrographic Surveying	
Years' experience with this Firm:	
16 years (joined BFM in 2008); 17 years total (2007)	<i>BFM Corporation, LLC 2008 to present</i> <i>Delle Land Surveying 2007 to 2008</i>
Education: Degree(s)/Year/Specialization:	
Certificate, 2015, Land Surveying Services B.S., 2007, Physical Education, Trevecca Nazarene University	
Active Registration: Year first registered/discipline:	
N/A	
Other experience and qualifications relevant to the proposed Project:	
<p>Phil Thayer serves as BFM's Procurement Director, providing proposal preparation and Project Management Support, having considerable experience in field surveying services, including ALTA/as-built surveying, construction layout, boundary, topographic, cross-sections, GPS use, and numerous other surveying types.</p> <p>Hector Avenue Route Topographic Survey, Gretna, Jefferson Parish, LA. BFM provided Route Topographic Surveying services 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. (\$29,240 (fee); 2018)</p> <p>Little Farms Avenue, Jefferson Parish, LA. BFM executed a Route Topographic Survey of Little Farms Avenue, from the Jefferson Avenue intersection to the Airline Drive Intersection. The full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. (\$48,054 (fee); 2018)</p> <p>Route Topographic Surveying for Multiple Streets (VFW Area), City of Harahan, Jefferson Parish, LA. BFM provided Route Topographic Surveying for roadway repair areas in the VFW Area in Harahan; street locations included portions of Kielman Street, VFW Boulevard, Marquette Street, & Prados Street. The work involved the preparation of a Route Topographic Survey for each project; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. (\$11,260 (fee); 2018)</p>	

TEC Professional Services Questionnaire

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

David Drive Corridor, Jefferson Parish, LA. Continuation of a previous Route Topographic Survey project, the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. Part of Jefferson Parish PW No. 2013-026-RB. (\$11,285 (fee); 2018)

Metairie Road & Johnson Street – Route Topographic Survey, Jefferson Parish, LA. BFM's survey work involved the preparation of a Route Topographic Survey (FEMA) 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. (\$11,955 (fee); 2017)

Causeway Boulevard Overpass at Airline Highway (Phase 5), Metairie, Jefferson Parish, LA. BFM's surveying services involved the preparation of a Route Topographic Survey (FEMA) 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. (\$41,135 (fee); 2017)

Veterans Memorial Boulevard, Clearview Parkway to Severn Avenue, Jefferson Parish, LA. BFM provided topographic surveying services for the project, which encompassed approximately 8300 linear feet of Veterans Memorial Boulevard. This included median crossing (e.g., U-turns) and runs between Clearview Boulevard and Severn Avenue. (\$31,384 (fee); 2016)

Latigue Road Extension, Jefferson Parish, LA. BFM executed surveying services related to the Latigue Road Extension project; this included surveying for a right-of-way acquisition. This was phase I of the project for the proposed extension from Foundry Road to Live Oak Boulevard. (\$8,896 (fee); 2015)

Westwood Drive Rehabilitation, West Bank Expressway to Lapaclo Boulevard, Jefferson Parish, LA. BFM provided topographic surveying services from right-of-way to right-of-way, median, roadway, sidewalks, subsurface utilities, and cross-sections. (\$50,770 (fee); 2014)

MacArthur Drive Interchange Improvements – Phase 1B, US 90 B/ I-910, Jefferson Parish, LA. BFM provided baseline control and additional topographic survey for revised alignment of proposed interchange. (\$4,500 (fee); 2012)

Franklin Avenue (Gretna) Right-of-Way Boundary Survey, Gretna, Jefferson Parish, LA. BFM provided right-of-way boundary surveying services for Franklin Avenue between Stumpf Boulevard and the West Bank Expressway and the Franklin Street Utility Corridor. (\$8,300 (fee); 2011)

Airline Park Boulevard, Jefferson Parish, LA. BFM provided topographic surveying services for the Airline Park Boulevard roadway project, which extended from West Metairie Avenue north to beyond Camphor Street. (\$18,176 (fee); 2010)

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

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Dawn Hoffman
Researcher/Archivist

Project Assignment:

Researcher/Archivist

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years' experience with this Firm:

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

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

Education: Degree(s)/Year/Specialization:

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

Active Registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

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

Cousins Boulevard Extension Project, Harvey, Jefferson Parish, LA. BFM Corporation provided surveying services for the Cousins Boulevard Extension Project in Harvey, LA. The first phase of the project involved the Route Topographic Survey; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The survey included elements/areas of Lapalco Boulevard, Woodmere Boulevard, and Alex Kommen Boulevard. Cross Sections and rights-of-way were included. The second phase included boundary surveying and abstracting services, including research and working with the Jefferson Parish Legal Department for additional details. (\$49,300 (fee); 2018)

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 & hydrographic 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. (\$478,744 (fee); 2020)

TEC Professional Services Questionnaire

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

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

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)

DOTD H.971941.1, Severn Avenue Corridor, Metairie, Jefferson Parish, LA. BFM provided surveying services to locate potholes (SUE (subsurface utility engineering) potholing) in the corridor, which extended from Veterans Boulevard (north curb line) eastbound to West Esplanade Avenue (westbound south curb line). (\$13,500 (fee); 2017)

Metairie Road Smart Growth: Causeway Boulevard and Metairie Road, Metairie, Jefferson Parish, LA. BFM prepared a topographic survey of the project site for the Metairie Road Smart Growth Program. This included Metairie Road beneath the Causeway Boulevard Overpass. BFM established a baseline parallel to Metairie Road, set up two temporary benchmarks (TBMs), and located all existing improvements. Cross sections for the project area were taken on a 25 ft. grid within established limits. (\$12,660 (fee); 2019)


Causeway Boulevard Overpass (over Airline Drive), Jefferson Parish, LA. BFM's surveying services included Route Topographic and Boundary Survey for the project, which was located at the Causeway Boulevard Overpass of Airline Drive. This was designated as Phase 3 of the Rehabilitation Project, which included Ramps 4, 5, and the Traffic Circle. Drone Surveying services were also included. (\$68,090 (fee); 2020)

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

Labarre Road Railroad Crossing, Metairie, Jefferson Parish, LA. BFM executed a topographic survey with SUE (subsurface utility engineering) for the project. (\$7,556 (fee); 2017)

DOTD H.008068, Peters Road Bridge and Extension Project (Phase 2), Jefferson Parish, LA. BFM's surveying services included the stakeout of parcel (No. 4-2) for the project. (\$1,250 (fee); 2017)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Anthony Watson CADD Technician (AutoCADD Drafting Services)
Project Assignment:
CADD Technician (AutoCADD Drafting Services)
Name of Firm with which associated:
 BFM CORPORATION, LLC Professional Land & Hydrographic Surveying
Years' experience with this Firm:
<div style="display: flex; justify-content: space-between;"> <div> 13 years (joined BFM in 2011); 33 years total (1991) </div> <div style="text-align: right;"> <i>BFM Corporation, LLC 2011 to present</i> <i>Krebs LaSalle Lemieux / GEC 2008 to 2011</i> <i>Doug Connally and Associates Land Surveying (Dallas, TX) 1995-2008</i> <i>Electrician 1991 to 1995</i> <i>City of Plano TX (Part-Time Drafting Services) 1991</i> </div> </div>
Education: Degree(s)/Year/Specialization:
Coursework - CAD, Avatech Solutions, Los Colinas, TX
Active Registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>Anthony Watson has experience as a draftsman/survey technician, having started his career as an intern with the Surveying Department of the City of Plano, Texas. His experience through the years includes manual and computer-aided drafting for a wide range of projects, ranging from small lot surveys to subdivisions to municipal treatment and private industrial plants. He has experience in all facets of surveying (boundary, topographic, ALTA/ACSM, plan & profile, etc.) in both drafting and field environments.</p> <p>Metairie Road Drainage Evaluation, Metairie, Jefferson Parish, LA. BFM Corporation provided Route Topographic Surveying for this Drainage Evaluation Project (PW 2018-024-DR) in Jefferson Parish. The scope of services included a full Route Topographic Survey (includes all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work) from gutter line to gutter line along Metairie Road from the westerly apparent right-of-way (ROW) of Causeway Boulevard to easterly apparent R/W of Focis Street. The project encompassed approximately 10,400 linear feet, with cross-sections and elevations surveyed included as part of the scope. (\$18,350 (fee); 2020)</p> <p>West Esplanade Avenue U-Turn at Bonnabel Canal, Metairie, Jefferson Parish, LA. BFM provided topographic and right-of-way (R/W) surveying services for the project located in Metairie. The scope of services included establishing a baseline, two Temporary Benchmarks (TBM),</p>

TEC Professional Services Questionnaire

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

and spot elevations. BFM also located property corners to establish the rights-of-way and property ownership. The survey located existing improvements, utilities, and pipes (drainage, water, sewerage). Project deliverables included physical & digital files as well as a Three-Point Tie Worksheet. (\$11,310 (fee); 2024)

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


Lapalco Boulevard Turn Lane (Lapalco Boulevard at Barataria Boulevard), Jefferson Parish, LA. BFM provided surveying services for the Lapalco Boulevard Turn Lane project (JPPW 2017-048-RBP), which involved a westbound left turn lane to southbound Lapalco Boulevard. BFM's scope included a Route Topographic Survey of Lapalco Boulevard at Barataria Boulevard; the full scope plan & profile included all services, utilities, properties, elevations, cross sections, and items necessary to perform any and all engineering and construction work. The project site was subject to road closures during the survey and preliminary construction/preparation phase. (\$46,854 (fee); 2018)

Medical Center Boulevard Lighting, Marrero, Jefferson Parish, LA. BFM executed a Route Topographic Survey for the proposed lighting project; the survey extended from apparent R/W (right-of-way) to apparent R/W along Medical Center Boulevard from Wichers Drive to the West Bank Expressway (approximately 2,200 linear feet), with spot elevations taken at 50 foot intervals. The full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. BFM established a baseline and temporary benchmarks along each route, as well as location of improvements and utilities. (\$26,410 (fee); 2020)

Jefferson Highway to Charlotte Drive Route Topographic Survey, River Ridge, Jefferson Parish, LA. BFM executed a Route Topographic Survey of the project area (Jefferson Highway to Charlotte Drive), which further involved the Midway Drive Drainage Improvements (Phase 2) project in River Ridge. The full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. BFM established a baseline and temporary benchmarks along each route, as well as location of improvements and utilities. (\$19,135 (fee); 2020)

West Napoleon Avenue U-Turn Culvert Crossing Survey, Westgate Subdivision Drainage Improvements, Jefferson Parish, LA. BFM provided topographic surveying of a u-turn on West Napoleon Avenue, midway between Massachusetts Avenue and Mississippi Avenue. The project, which was part of the Westgate Subdivision Drainage Improvements project, also included 16 cross sections. Box culverts were also part of the project layout. (\$4,941 (fee); 2011)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Curtis "Jay" Barrios Survey Crew Chief	
Project Assignment:	
Survey Crew Chief	
Name of Firm with which associated:	
 BFM CORPORATION, LLC Professional Land & Hydrographic Surveying	
Years' experience with this Firm:	
34 years (joined BFM in 1990); 39 years total (1985)	<i>BFM Corporation, LLC 1990 to present</i> <i>Benson Mercedes Benz 1989 to 1990</i> <i>SECO Electric 1987</i> <i>Frishhertz Electric 1986 to 1987</i> <i>Plain Construction 1985 to 1986</i>
Education: Degree(s)/Year/Specialization:	
High School Diploma	
Active Registration: Year first registered/discipline:	
<i>American Traffic Safety Service Assn. – Traffic Flagger</i> <i>Basic OSHA Training Class Completion</i> <i>Transportation Work Identification Card (TWIC)</i>	
Other experience and qualifications relevant to the proposed Project:	
<p>Jay Barrios' surveying experience includes boundary, hydrographic, and topographic. He has been the Survey Crew Chief for thousands of projects and is one of the more experienced surveyors in the area. Further, Mr. Barrios has been involved on major transmission projects for Entergy and South Central Bell (AT&T).</p> <p>Metairie Road Smart Growth: Causeway Boulevard and Metairie Road, Metairie, Jefferson Parish, LA. BFM prepared a topographic survey of the project site for the Metairie Road Smart Growth Program. This included Metairie Road beneath the Causeway Boulevard Overpass. BFM established a baseline parallel to Metairie Road, set up two temporary benchmarks (TBMs), and located all existing improvements. Cross sections for the project area were taken on a 25 ft. grid within established limits. (\$12,660 (fee); 2019)</p> <p>Cousins Boulevard Extension Project, Harvey, Jefferson Parish, LA. BFM Corporation provided surveying services for the Cousins Boulevard Extension Project in Harvey, LA. The first phase of the project involved the Route Topographic Survey; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The survey included elements/areas of Lapalco Boulevard, Woodmere</p>	

TEC Professional Services Questionnaire

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

Boulevard, and Alex Kommen Boulevard. Cross Sections and rights-of-way were included. The second phase included boundary surveying and abstracting services, including research and working with the Jefferson Parish Legal Department for additional details. (\$49,300 (fee); 2018)

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

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)

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

Causeway Boulevard Overpass (over Airline Drive), Jefferson Parish, LA. BFM's surveying services included Route Topographic and Boundary Survey for the project, which was located at the Causeway Boulevard Overpass of Airline Drive. This was designated as Phase 3 of the Rehabilitation Project, which included Ramps 4, 5, and the Traffic Circle. Drone Surveying services were also included. (\$68,090 (fee); 2020)

Bonnabel Boulevard Bike Path, Metairie, Jefferson Parish, LA. BFM provided surveying services for this bicycle path along Bonnabel Boulevard, extending from Veterans Memorial Boulevard to Lake Pontchartrain, in Metairie, LA. The scope included a Route Topographic Survey (plan only). (\$37,590 (fee); 2020)

DOTD H.971941.1, Severn Avenue Corridor, Metairie, Jefferson Parish, LA. BFM provided surveying services to locate potholes (SUE (subsurface utility engineering) potholing) in the corridor, which extended from Veterans Boulevard (north curb line) eastbound to West Esplanade Avenue (westbound south curb line). (\$13,500 (fee); 2017)

Manhattan Boulevard Right Turn Lanes, Jefferson Parish, LA. BFM prepared a topographic survey along the northbound lanes of Manhattan Boulevard from Gretna Boulevard to the South Frontage Road of the Westbank Expressway. (\$29,420 (fee); 2008)

TEC Professional Services Questionnaire

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

PROJECT NO. 1

Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:						
West Esplanade Avenue U-Turn at Bonnabel Canal , Metairie, Jefferson Parish, Louisiana Jefferson Parish Department of Engineering 1221 Elmwood Park Blvd Ste 802 Jefferson LA 70123 Nolan Carreras , 504-736-6515 ncarreras@jeffparish.net	BFM provided topographic and right-of-way (R/W) surveying services for the project located in Metairie. The scope of services included establishing a baseline, two Temporary Benchmarks (TBM), and spot elevations. BFM also located property corners to establish the rights-of-way and property ownership. The survey located existing improvements, utilities, and pipes (drainage, water, sewerage). Project deliverables included physical & digital files as well as a Three-Point Tie Worksheet.						
Completion Date (Actual or estimated:)	Estimated Cost:						
	<table> <tr> <th style="text-align: center;">Entire Project:</th><th style="text-align: center;">Work for which Firm was Responsible:</th></tr> <tr> <td style="text-align: center;">May 2024</td><td> <table> <tr> <td style="text-align: center;">N/A</td><td style="text-align: center;">\$11,310 (fee)</td></tr> </table> </td></tr> </table>	Entire Project:	Work for which Firm was Responsible:	May 2024	<table> <tr> <td style="text-align: center;">N/A</td><td style="text-align: center;">\$11,310 (fee)</td></tr> </table>	N/A	\$11,310 (fee)
Entire Project:	Work for which Firm was Responsible:						
May 2024	<table> <tr> <td style="text-align: center;">N/A</td><td style="text-align: center;">\$11,310 (fee)</td></tr> </table>	N/A	\$11,310 (fee)				
N/A	\$11,310 (fee)						

PROJECT NO. 2

Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:						
West Napoleon Avenue Extension (Highway Park Subdivision) , Jefferson Parish, Louisiana Linfield Hunter & Junius, Inc. 3608 18th Street Metairie LA 70002 Mark Annino , 504-833-5300	BFM provided Route Topographic Surveying services for the West Napoleon Avenue Extension Project, located at the Highway Park Subdivision in Jefferson Parish. The Phase 1 Limits of Survey were noted to be from the apparent right-of-way to apparent right-of-way along the Airport Access Road, from and extend approximately 225 feet North and South from the projected centerline of West Napoleon Avenue.						
Completion Date (Actual or estimated:)	Estimated Cost:						
	<table> <tr> <th style="text-align: center;">Entire Project:</th><th style="text-align: center;">Work for which Firm was Responsible:</th></tr> <tr> <td style="text-align: center;">January 2021</td><td> <table> <tr> <td style="text-align: center;">N/A</td><td style="text-align: center;">\$10,095 (fee)</td></tr> </table> </td></tr> </table>	Entire Project:	Work for which Firm was Responsible:	January 2021	<table> <tr> <td style="text-align: center;">N/A</td><td style="text-align: center;">\$10,095 (fee)</td></tr> </table>	N/A	\$10,095 (fee)
Entire Project:	Work for which Firm was Responsible:						
January 2021	<table> <tr> <td style="text-align: center;">N/A</td><td style="text-align: center;">\$10,095 (fee)</td></tr> </table>	N/A	\$10,095 (fee)				
N/A	\$10,095 (fee)						

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Lapalco Boulevard Survey Update, Jefferson Parish, Louisiana</p> <p>Hartman Engineering 527 W Esplanade Ave Ste 300 Kenner LA 70065</p> <p>Jared Monceaux, P.E., 504-467-5667 jmonceaux@harteng.com</p>	<p>BFM prepared a Site Specific Update Survey for the project, which built on previous BFM surveys for the location. The field survey recovered and verified the horizontal and vertical control (from previous BFM projects noted). Spot elevations were taken; existing improvements within the designated Limits of Survey were noted. The survey also located utilities, pipes (drainage, water, sewerage), and trees. For the update, BFM specifically located newly-installed steel power poles and steel transmission towers, as well as the structures fronting along Lapalco Boulevard. Project deliverables included comprehensive/updated physical and digital files combining all new & previous survey data.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
January 2021	N/A	\$20,480 (fee)

PROJECT NO. 4		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Manhattan Boulevard Southbound Lanes Widening, Harvey, Jefferson Parish, Louisiana</p> <p>Professional Engineering Consultants Corporation (PEC) 3702 Bienville Avenue New Orleans LA 70119</p> <p>John Shires, 504-345-4842 jshires@pecla.com</p>	<p>BFM executed a Route Topographic Survey of the Manhattan Boulevard southbound lanes from the West Bank Expressway to Gretna Boulevard; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. Work consisted of multiple project elements over several years.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
January 2021	N/A	\$77,733 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Cousins Boulevard Extension Project, Harvey, Jefferson Parish, Louisiana Digital Engineering 527 W Esplanade Ave Ste 200 Kenner LA 70065 Frank T. Liang, P.E., 504-468-7515 fliang@deii.net	BFM Corporation provided surveying services for the Cousins Boulevard Extension Project in Harvey, LA. The first phase of the project involved the Route Topographic Survey; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The survey included elements/areas of Lapalco Boulevard, Woodmere Boulevard, and Alex Kommen Boulevard. Cross Sections and rights-of-way were included. The second phase included boundary surveying and abstracting services, including research and working with the Jefferson Parish Legal Department for additional details.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
August 2018	N/A	\$49,300 (fee)

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

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Lapalco Boulevard Bridge at Harvey Canal, (PW 2017-046-RBP; DOTD H.004396), Jefferson Parish, Louisiana</p> <p>Hardesty & Hanover 3850 N Causeway Blvd Ste 1850 Metairie LA 70002</p> <p>Dr. Babak Naghavi, P.E., 504-962-9212 bnaghavi@hardestyhanover.com</p>	<p>BFM Corporation provided extensive surveying services for a topographic & hydrographic 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.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
September 2020	N/A	\$478,744 (fee)

PROJECT NO. 8		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Lapalco Boulevard Turn Lane (Lapalco Boulevard at Barataria Boulevard), Jefferson Parish, Louisiana</p> <p>Burk-Kleinpeter, Inc. 4176 Canal Street New Orleans LA 70119</p> <p>Mark K. Roberts, P.E., 504-486-5901 mroberts@bkusa.com</p>	<p>BFM provided surveying services for the Lapalco Boulevard Turn Lane project (JPPW 2017-048-RBP), which involved a westbound left turn lane to southbound Lapalco Boulevard. BFM's scope included a Route Topographic Survey of Lapalco Boulevard at Barataria Boulevard; the full scope plan & profile included all services, utilities, properties, elevations, cross sections, and items necessary to perform any and all engineering and construction work. The project site was subject to road closures during the survey and preliminary construction/preparation phase.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
April 2018	N/A	\$46,854 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Power Boulevard at Vintage Drive, Kenner, Jefferson Parish, Louisiana GEC, Inc. 8282 Greenwood Boulevard Baton Rouge LA 70806 Jerome Lohman, 225-612-3000	A survey update was provided by BFM, which was a continuation of a previous surveying project executed by the company. The scope of work included updating or addition of topographic survey at the intersection of Vintage Drive and Power Boulevard, and shooting two cross sections along the canal adjacent to a proposed bridge location. BFM further located the waterline, new monument along Power Boulevard, and located the monument of Lot 7 and adjacent property line along Janice Street and Vintage Boulevard.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
April 2019	N/A	\$11,390 (fee)

PROJECT NO. 10		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Metairie Road Smart Growth: Causeway Boulevard and Metairie Road, Metairie, Jefferson Parish, Louisiana H. Davis Cole & Associates, Inc. 1340 Poydras Street Suite 1850 New Orleans LA 70112 David Martin, P.E., 504-836-2020	BFM prepared a topographic survey of the project site for the Metairie Road Smart Growth Program. This included Metairie Road beneath the Causeway Boulevard Overpass. BFM established a baseline parallel to Metairie Road, set up two temporary benchmarks (TBMs), and located all existing improvements. Cross sections for the project area were taken on a 25 ft. grid within established limits.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
May 2019	N/A	\$12,660 (fee)

TEC Professional Services Questionnaire

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

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

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

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

CRITERIA 1 | PROFESSIONAL TRAINING AND EXPERIENCE

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

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

Our capabilities include the following and more:

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

TEC Professional Services Questionnaire

N. continued.

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

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

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

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

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

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

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

CRITERIA 2 | SIZE OF FIRM

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

TEC Professional Services Questionnaire

N. continued.

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

CRITERIA 3 | CAPACITY FOR TIMELY COMPLETION

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

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

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

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

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

CRITERIA 4 | PAST PERFORMANCE ON PARISH CONTRACTS

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

As noted, Mr. Fontcuberta has **over half a century of professional land surveying experience**, including over 40 years with BFM. **He has provided professional surveying services for thousands of projects for and throughout Jefferson Parish.**

TEC Professional Services Questionnaire

N. continued.

CRITERIA 5 | LOCATION OF THE PRINCIPAL OFFICE

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

CRITERIA 6 | LEGAL STATEMENT

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

CRITERIA 7 | PRIOR SUCCESSFUL COMPLETION OF PROJECTS

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

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

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

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

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

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

Ben Lapine, Acting Director, Department of Drainage, Jefferson Parish
(504-736-6661 | JPSewerage@jeffparish.net)

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

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

Signature: _____

Print Name: Chad M. Poché, P.E.

Title: Executive Vice President

Date: June 20, 2024

Section 3

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

TEC Professional Services Questionnaire

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Provision of Routine Engineering Services for

Streets Projects in Jefferson Parish

SOQ **24-021** | Resolution No. **144319**

B. Firm Name & Address:



Gulf South Engineering and Testing, Inc.

15 Veterans Memorial Boulevard | Kenner LA 70062

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

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

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

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

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

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

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

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

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

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

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

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

TEC Professional Services Questionnaire

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

1.
N/A

2.

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

YES_____ NO_____ N/A

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

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

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

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

TEC Professional Services Questionnaire

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

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Chad M. Poché, P.E.

Executive Vice President / Registered Professional Geotechnical Engineer

Project Assignment:

Geotechnical Engineer / Principal In Charge

Name of Firm with which associated:



Years' experience with this Firm:

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

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

Education: Degree(s)/Year/Specialization:

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

Active Registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

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

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

TEC Professional Services Questionnaire

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

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

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

Earhart Expressway Lighting Improvements (Clearview Parkway to Central Avenue), 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, pile inspection, and concrete testing and inspection. (\$10,000 (fee); 2019)


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)

Airline Highway Street Lighting (Waldo St. to Transcontinental Dr.), Jefferson Parish, LA. Geotechnical investigation for new street lighting along the eastbound lane of Airline Highway from Waldo St. to Transcontinental Dr. in Jefferson Parish, LA. Scope of work included drilling 7 soil borings each to a depth of 50 feet, laboratory testing, and geotechnical engineering analysis consisting of allowable pile load capacities, estimates of settlement, slope stability analyses, and general construction recommendations. Pavement coring and a police escort were required for the borings. (\$17,500 (fee); 2014)

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

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)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Bryson S. Beard, P.E., ACI Associate Geotechnical Engineer/Field Engineer	
Project Assignment:	
Associate Geotechnical Engineer/Field Engineer	
Name of Firm with which associated:	
<div style="display: flex; align-items: center;">  <div> ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants </div> </div>	
Years' experience with this Firm:	
2 years (joined Gulf South in 2022); 3 years total (2021)	<i>Gulf South Engineering and Testing, Inc. 2022 to present</i> <i>TetraTech, Inc. 2021 to 2022</i>
Education: Degree(s)/Year/Specialization:	
B.S., Geological Engineering (2021; University of Mississippi)	
Active Registration: Year first registered/discipline:	
Louisiana P.E. License Passed October 2023 Georgia, Engineering Intern (No. EIT029180, 2022)	
Other experience and qualifications relevant to the proposed Project:	
<p>Bryson S. Beard, P.E., is an Associate Geotechnical Engineer/Field Engineer who serves as a Project Manager. He has performed geotechnical engineering analyses consisting of shallow and deep foundations, slope stability, TRS and sheetpile wall design, settlement, pavement design, etc., and has prepared engineering reports. Mr. Beard's experience in the field includes surface and subsurface soil sampling, water sampling, and soil classification. His work experience further includes core logging and oversight of groundwater monitoring well installations, piezometers, and inclinometers. He has been responsible for the preparation of reports and Facility Response Plans. He is experienced with laboratory sample preparation and testing as well as air sampling and soil gas sampling.</p> <p>Mr. Bryson recently passed his Louisiana Professional Engineering test and will be a noted P.E. for the State of Louisiana once he fulfills the apprenticeship requirements set forth by LAPELS.</p> <p>Roosevelt Boulevard Roadway Pavement Improvements (West Metairie Ave. to West Napoleon Ave.), City of Kenner, Jefferson Parish, LA. Geotechnical investigation for paved roadway improvements for Roosevelt Boulevard between West Metairie Avenue and West Napoleon Avenue in Kenner, LA. Gulf South's scope of services includes drilling 14 borings (depths of 10 feet below pavement surface), laboratory testing, engineering analyses (including pavement design) and general construction procedures and recommendations. (\$14,000 (fee); 2022)</p>	

TEC Professional Services Questionnaire

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

Barber Road Bank Stabilization, Paradis, St. Charles Parish, LA. Geotechnical engineering services for portions of the road that have failed or are failing into the ditch along Barber Road in Paradis, LA. Gulf South's scope includes drilling five borings (depth of 40 feet below ground surface), laboratory testing, engineering analyses (slope stability analyses, pavement design) and general construction procedures and recommendations. (\$12,000 (fee); 2022)

Geotechnical Exploration Proposal: Off System Road Bridge Replacement, Lock No. 2 Road, St. Tammany Parish, LA. Geotechnical engineering services for the project which consists of the construction of a replacement bridge across an existing canal off Lock No. 2 Road in St. Tammany Parish, LA. The new bridge will be pile supported and designed in accordance with Louisiana DOTD standards. The scope of services included subsurface exploration, associated geotechnical laboratory testing, and engineering services based upon project requirements. Gulf South's scope includes field exploration (drilling of soil borings), laboratory testing, engineering analyses (pile load capacities, settlement estimates, flexible pavement design recommendations, sieve analyses of stream bed soils) and general construction procedures and recommendations. (\$12,500 (fee); 2022)


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

E. Minnesota Park Roundabout Study (Minnesota Park Rd. and S. Range Rd.), Hammond, Tangipahoa Parish, LA. Geotechnical engineering services for the construction of a new paved roundabout roadway intersection at Minnesota Park Road and S. Range Road in Hammond, LA. Gulf South's scope includes drilling five undisturbed soil borings each to a depth of 10 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations for Rigid or Flexible pavements. (\$8,500 (fee); 2023)

New Roundabout (Lowes Ave at LA Hwy 44), Gonzales, Ascension Parish, LA. Geotechnical engineering services for the construction of a paved roundabout at the intersection of Lowes Avenue and Louisiana Highway 44 in Ascension Parish, LA. Gulf South's scope includes drilling four undisturbed soil borings (3 borings through existing pavement and 1 boring within an unpaved area) to depths of 10 feet below the ground surface, pavement coring, traffic control, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$9,500 (fee); 2023)

Level Street Overlay, Town of Abita Springs, St. Tammany Parish, LA. Geotechnical engineering services for the mill and overlay of Level Street (overall length of approx. 10,000 ft.) in Abita Springs, LA. Gulf South's scope of services included drilling 10 undisturbed soil borings to depths of four feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$4,500 (fee); 2023)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Joseph H. “Trey” Binder, III, ACI Laboratory Manager	
Project Assignment:	
Laboratory Manager; Laboratory Technician	
Name of Firm with which associated:	
<div style="display: flex; align-items: center;">  <div> ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants </div> </div>	
Years’ experience with this Firm:	
13 years (joined Gulf South in 2011); 13 years total (2011)	<i>Gulf South Engineering and Testing, Inc. 2011 to present</i> <i>Ardaman and Associates, Inc. 2007 to 2011</i> <i>Soil Testing Engineers, Inc. 2006 to 2007</i>
Education: Degree(s)/Year/Specialization:	
A.D., General Studies (2006; Nunez Community College)	
Active Registration: Year first registered/discipline:	
HAZMAT Awareness HAZMAT Operations Training ACI Aggregate Base Testing Technician ACI Concrete Strength Testing Technician	
Other experience and qualifications relevant to the proposed Project:	
<p>Trey Binder has direct experience with field and laboratory testing services. Mr. Binder’s field work includes soil inspection and testing consisting of nuclear density testing and soil boring logging, vibration monitoring, pile inspection, concrete testing and inspection, asphalt testing and inspection, and pavement coring. In the laboratory, Mr. Binder has performed soil laboratory testing consisting of unconfined compression strength tests, triaxial strength tests, Atterberg limits, organic content tests, moisture and density tests, Proctor compaction tests, sieve analyses, and sample extrusion.</p> <p>Roosevelt Boulevard Roadway Pavement Improvements (West Metairie Ave. to West Napoleon Ave.), City of Kenner, Jefferson Parish, LA. Geotechnical investigation for paved roadway improvements for Roosevelt Boulevard between West Metairie Avenue and West Napoleon Avenue in Kenner, LA. Gulf South’s scope of services includes drilling 14 borings (depths of 10 feet below pavement surface), laboratory testing, engineering analyses (including pavement design) and general construction procedures and recommendations. (\$14,000 (fee); 2022)</p> <p>Earhart Expressway Lighting Improvements (Clearview Parkway to Central Avenue), Jefferson Parish, LA. Gulf South provided the materials testing and inspection during construction. Gulf</p>	

TEC Professional Services Questionnaire

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

South's scope of services included vibration monitoring, bedding and backfill testing, compaction/density tests, pile inspection, and concrete testing and inspection. (\$10,000 (fee); 2019)

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)

West Esplanade Avenue Restoration (Tartan Drive to Haring Road), 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)

Airline Highway Street Lighting (Waldo St. to Transcontinental Dr.), Jefferson Parish, LA. Geotechnical investigation for new street lighting along the eastbound lane of Airline Highway from Waldo St. to Transcontinental Dr. in Jefferson Parish, LA. Scope of work included drilling 7 soil borings each to a depth of 50 feet, laboratory testing, and geotechnical engineering analysis consisting of allowable pile load capacities, estimates of settlement, slope stability analyses, and general construction recommendations. Pavement coring and a police escort were required for the borings. (\$17,500 (fee); 2014)


FEMA Submerged Roads Program, District 5 – Project 1, Jefferson Parish, LA. Perform asphalt and roadway testing and inspection as requested. (\$15,000 (fee); 2014)

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

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

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)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Eric A. Paille, C.E.T., ACI Construction Services Manager	
Project Assignment:	
Construction Services Manager	
Name of Firm with which associated:	
<div style="display: flex; align-items: center;">  <div> ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants </div> </div>	
Years' experience with this Firm:	
13 years (joined Gulf South in 2011); 35 years total (1989)	<i>Gulf South Engineering and Testing, Inc. 2011 to present</i> <i>Ardaman and Associates, Inc. 2007 to 2011</i> <i>Soil Testing Engineers, Inc. 1988 to 2007</i>
Education: Degree(s)/Year/Specialization:	
High School Diploma	
Active Registration: Year first registered/discipline:	
<i>ACI-I Field Technician (since 1991; No. 929012)</i> <i>Certified Engineering Technician (since 1992)</i> <i>Nuclear Gauge Safety Training (since 1994; No. 061321)</i> <i>Pile Driving Analyzer/CAPWAP, OSHA 40 HAZWOPER</i>	
Other experience and qualifications relevant to the proposed Project:	
<p>Eric A. Paille, C.E.T., ACI, serves as Gulf South's Construction Services Manager as well as the manager of our Gonzales office. He has experience as a technician, inspector, and testing manager, and is knowledgeable in all aspects of construction materials testing and construction inspection. Mr. Paille has performed all applicable field and soil tests over the past 30+ years. In addition, he is certified in the safe use and handling of the nuclear density gauge. He received PDA training in 2003 and has knowledge of PDA testing along with significant experience with pile driving analyzers. Mr. Paille is one of the most knowledgeable people in our industry.</p> <p>Airline Park Blvd. Rehabilitation and Drainage Upgrade (W. Napoleon to Camphor), Jefferson Parish, LA. Geotechnical investigation for pavement rehabilitation, new drain lines, and a new pump station from W. Napoleon to Camphor. Scope of work included drilling four soil borings (depths of 15 & 50 ft), laboratory testing (strength and classification), and geotechnical engineering analysis consisting of allowable soil bearing values, allowable pile load capacities, estimates of settlement, pavement recommendations, bedding and backfill recommendations, and general construction recommendations. (\$8,500 (fee); 2015)</p>	

TEC Professional Services Questionnaire

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

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

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

FEMA Submerged Roads Program, District 5 – Project 1, Jefferson Parish, LA. Perform asphalt and roadway testing and inspection as requested. (\$15,000 (fee); 2014)

New Orleans Streets Program (RR 010), Broadmoor Group A, City of New Orleans LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes soil density tests, concrete inspection and testing, vibration monitoring, and earthwork testing. (\$54,081 (fee); 2020)

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


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

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 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)

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

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

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Ian Kerner Poché, ACI Assistant Laboratory Supervisor	
Project Assignment:	
Assistant Laboratory Supervisor	
Name of Firm with which associated:	
<div style="display: flex; align-items: center;">  <div> ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants </div> </div>	
Years' experience with this Firm:	
7 years (joined Gulf South in 2017); Gulf South Engineering and Testing, Inc. 2017 to present 7 years total (2017)	
Education: Degree(s)/Year/Specialization:	
High School Diploma	
Active Registration: Year first registered/discipline:	
ACI Concrete Field Testing Technician - Grade 1 (exp 2028 03) ACI Aggregate Testing Technician - Level 1 (exp 2029 02 27)	
Other experience and qualifications relevant to the proposed Project:	
<p>Ian Poché has worked in Gulf South's laboratory for several years and has experience with virtually every type of soil test. He has also helped when needed in the CMT department and has concrete testing experience, and is an ACI-certified Concrete Field Testing Technician.</p> <p>Roosevelt Boulevard Roadway Pavement Improvements (West Metairie Ave. to West Napoleon Ave.), City of Kenner, Jefferson Parish, LA. Geotechnical investigation for paved roadway improvements for Roosevelt Boulevard between West Metairie Avenue and West Napoleon Avenue in Kenner, LA. Gulf South's scope of services includes drilling 14 borings (depths of 10 feet below pavement surface), laboratory testing, engineering analyses (including pavement design) and general construction procedures and recommendations. (\$14,000 (fee); 2022)</p> <p>Kinler & Paul Fredrick Street Drainage Improvements, Luling, St. Charles Parish, LA. Geotechnical investigation for paved and/or reconstruction of Kinler and Paul Frederick Streets in Luling in St. Charles Parish, LA. Scope included drilling a total of 10 undisturbed soil borings for the project (5 borings within each roadway; 10 feet bps). Geotechnical laboratory testing was performed on selected samples collected during the exploration in accordance with appropriate ASTM standards; this included strength tests (unconfined and/or triaxial) and classification tests (Atterberg Limits and/ or particle size). Following the collection of the field and laboratory data, a geotechnical engineer performed the evaluations necessary to characterize the subsoil conditions of the site and develop the engineering recommendations and analyses. This included current pavement materials and thicknesses, flexible pavement design recommendations, and general construction procedures and recommendations. (\$7,500 (fee); 2022)</p>	

TEC Professional Services Questionnaire

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

New Orleans Streets Program (RR 010), Broadmoor Group A, City of New Orleans LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes soil density tests, concrete inspection and testing, vibration monitoring, and earthwork testing. (\$54,081 (fee); 2020)

Geotechnical Exploration Proposal for the Lafreniere Park Healthtrack, Metairie, Jefferson Parish, LA. Gulf South was selected to provide a Geotechnical Exploration for the project site which consists of the reconstruction of the existing exercise walkway and the addition of approximately 1,000 feet of new walkway at Lafreniere Park in Metairie, LA. The existing walkway is approximately 2.5 miles long and will consist of the removal and reconstruction of the pavement and base using an asphalt paved section. The new section will consist of a concrete paved walkway. Gulf South's scope of work includes subsurface exploration, associated geotechnical laboratory testing, and engineering services based upon outlined project requirements. (\$12,000 (fee); 2022)

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

Geotechnical Exploration Report for New Fire Station 18, Metairie, Jefferson Parish, LA. Gulf South prepared a Geotechnical Exploration Report for the construction of a new first station facility (Fire Station No. 18) (with associated parking and driveways) at 3222 Melville Dewey drive in Metairie, Louisiana. The study included drilling soil test borings and the performance of soil mechanics laboratory tests to evaluate the soil's physical characteristics. Engineering analyses were made and based on the field and laboratory test data to develop recommendations for the project. Scope included drilling three undisturbed soil borings to depths of 70 feet and 8 feet below the pavement surface. Soil testing consisted of natural moisture content, unit weight, Atterberg limits, and unconfined strength testing. The analyses and recommendations presented in the report provided recommendations for design and construction of the building and parking & roadway surfaces. (\$8,500 (fee); 2023)

New Building and Paved Areas, Jefferson Parish Transit Facility, Jefferson Parish, LA. Gulf South provided geotechnical engineering services for the construction of a new two-story (7,300 sf) building located at 1118 David Drive in Kenner, LA. Field investigation included drilling four undisturbed soil borings (depths below the ground surface of 60 ft for the new building and 10 feet for the new paved area) and sampled on 5 foot centers. Laboratory testing included strength tests, classification tests, with other testing as appropriate. Geotechnical engineering evaluation characterized the subsoil conditions of the site and developed engineering recommendations and analyses (allowable soil bearing values, allowable pile load capacities, estimate of settlement, pavement design, and general construction procedures and recommendations. (\$8,900 (fee); 2020)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Brandon A. Paille, ACI Construction Materials Testing (CMT) Supervisor/Project Manager	
Project Assignment:	
Construction Materials Testing (CMT) Supervisor/Project Manager	
Name of Firm with which associated:	
<div style="display: flex; align-items: center;">  <div> ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants </div> </div>	
Years' experience with this Firm:	
5 years (2012-2016; 2023 to present); 14 years total (2010)	<i>Gulf South Engineering and Testing, Inc. 2023 to present</i> <i>Ascension Parish Sheriff's Office 2016 to 2023</i> <i>Gulf South Engineering and Testing, Inc. 2012 to 2016</i> <i>Ardaman and Associates, Inc. 2010 to 2012</i>
Education: Degree(s)/Year/Specialization:	
<i>High School Diploma</i>	
Active Registration: Year first registered/discipline:	
APNGA Nuclear Gauge Safety ACI Field Technician Level 1 OSHA Safety Training – 8 hr.	
Other experience and qualifications relevant to the proposed Project:	
<p>Brandon A. Paille, ACI has performed soil laboratory testing consisting of unconfined compression strength tests, triaxial strength tests, hydrometers, Atterberg limits, organic contents, moisture contents, proctor compaction tests, sieve analyses, as well as extrusion of samples. Mr. Paille's field experience includes soil inspection and testing consisting of nuclear density testing, soil boring logging, concrete testing and inspections, timber and precast pile logging and vibration monitoring. In Mr. Paille's years in the construction materials testing industry, he has obtained a vast amount of knowledge and experience which makes him an integral part of our Gulf South Team.</p> <p>St. James Road Program 2023 (Nicole Street), Paulina, St. James Parish, LA. Gulf South provided construction materials testing and inspection during construction of the project. Gulf South's scope of work includes soil density tests and asphalt inspection. (\$7,220 (fee); 2023)</p> <p>FEMA Submerged Roads Program, District 5 – Project 1, Jefferson Parish, LA. Perform asphalt and roadway testing and inspection as requested. (\$15,000 (fee); 2014)</p> <p>FEMA Study - Flood Damaged Roads (Parish-Wide), Ascension Parish, LA. Gulf South performed over 30 pavement cores to measure in place base and surface material types and thickness, and collected samples for testing. The firm further performed laboratory analyses and engineering evaluation to determine the effects of flooding and submerged time on various base types. (\$20,000 (fee); 2017)</p>	

TEC Professional Services Questionnaire

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

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

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

2015 Road Maintenance Project (Phase 2), Ascension Parish, LA. Gulf South performed inspection and field and laboratory testing during construction of road maintenance projects throughout Ascension Parish. These projects consisted of many roads and thousands of linear feet of new road sections. Scope of work included asphalt coring, thickness and density measurements, base course testing and inspection, and asphalt testing & inspection. (\$31,000 (fee); 2016)

2015 Road Maintenance Project (ENG-15-001), Ascension Parish, LA. Gulf South performed inspection and field and laboratory testing during construction of the road maintenance projects throughout Ascension Parish. These projects consisted of many roads and thousands of linear feet of new road sections. Scope of work included asphalt coring, thickness and density measurements, base course testing and inspection, and asphalt testing & inspection. (\$29,729 (fee); 2016)

2014 Road Maintenance Project, Ascension Parish, LA. Gulf South performed inspection and field and laboratory testing during construction of the road maintenance in Ascension Parish. (\$65,000 (fee); 2015)

CNO Touro - Roads, Sidewalk and Curb, New Orleans, LA. Perform construction material testing and inspection during construction of the CNO Touro Roads, Sidewalk and Curb in New Orleans. 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. (\$10,000 (fee); 2014)

FEMA Submerged Roads Program, Bayou St. John & Fairgrounds Neighborhoods, City of New Orleans, LA. Geotechnical investigation for the City of New Orleans, FEMA Submerged Roads Program, to determine existing pavement conditions (thickness and material types). This investigation was for the Seventh Ward Neighborhoods in New Orleans, LA. Scope of work included drilling 8 pavement cores and 2 soil borings to a depth of 5 feet (2 in concrete, 4 in asphalt, 2 in combo. concrete/asphalt), performing laboratory testing, and providing engineering reports of our findings. (\$7,786 (fee); 2014)

FEMA Submerged Roads Program, Florida Avenue Neighborhood, City of New Orleans, LA. Geotechnical investigation for the City of New Orleans, FEMA Submerged Roads Program, to determine existing pavement conditions (thicknesses and material types). This investigation was for the Florida Avenue Neighborhood in New Orleans, LA. Scope of work included drilling 19 pavement cores and soil borings to a depth of 5 feet (13 in asphalt and 6 in concrete), performing laboratory testing, and providing engineering reports of our findings. (\$20,945 (fee); 2013)

TEC Professional Services Questionnaire

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

PROJECT NO. 1

Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:
Roosevelt Boulevard Roadway Pavement Improvements (West Metairie Ave. to West Napoleon Ave.), City of Kenner, Jefferson Parish, Louisiana Hartman Engineering, Inc. 527 W Esplanade Ave Ste 300 Kenner LA 70065 B.K. Sneed, 504-466-5667 bksneed@harteng.com	Geotechnical investigation for paved roadway improvements for Roosevelt Boulevard between West Metairie Avenue and West Napoleon Avenue in Kenner, LA. Gulf South's scope of services includes drilling 14 borings (depths of 10 feet below pavement surface), laboratory testing, engineering analyses (including pavement design) and general construction procedures and recommendations.
Completion Date (Actual or estimated:)	Estimated Cost:
	Entire Project:
June 2022	N/A
	Work for which Firm was Responsible:
	\$14,000 (fee)

PROJECT NO. 2

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

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Latigue Road Extension (Phase I; Live Oak Blvd. to Foundry Rd.), Jefferson Parish, Louisiana ECM Consultants, Inc. 4409 Utica Street Suite 200 Metairie LA 70006 Sunina Shrestha, P.E., 504-885-4080 sshrestha@ecmconsultants.com	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.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
October 2018	N/A	\$7,000 (fee)

PROJECT NO. 4		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Airline Park Boulevard Rehabilitation and Drainage Upgrade (West Napoleon to Camphor), Jefferson Parish, Louisiana PECC 3702 Bienville Avenue, Suite C New Orleans LA 70119 John Shires, P.E., 800-749-2810 jshires@pecla.com	Geotechnical investigation for pavement rehabilitation, new drain lines, and a new pump station from W. Napoleon to Camphor in Metairie, LA. Gulf South's scope of work included drilling four soil borings to depths of 15 and 50 feet, laboratory testing (strength and classification), and geotechnical engineering analysis consisting of allowable soil bearing values, allowable pile load capacities, estimates of settlement, pavement recommendations, bedding and backfill recommendations, and general construction recommendations.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
February 2015	N/A	\$8,500 (fee)

TEC Professional Services Questionnaire

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

PROJECT NO. 6		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Airline Highway Street Lighting (Waldo St. to Transcontinental Dr.), Jefferson Parish, Louisiana Jefferson Parish Department of Engineering 1221 Elmwood Park Blvd Ste 802 Jefferson LA 70123 Ryan Breaux, P.E., 504-736-6514 rabreaux@jeffparish.net	Geotechnical investigation for new street lighting along the eastbound lane of Airline Highway from Waldo St. to Transcontinental Dr. in Jefferson Parish, LA. Scope of work included drilling 7 soil borings each to a depth of 50 feet, laboratory testing, and geotechnical engineering analysis consisting of allowable pile load capacities, estimates of settlement, slope stability analyses, and general construction recommendations. Pavement coring and a police escort were required for the borings.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2015	N/A	\$17,500 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Trudeau Drive Drainage Improvements at West Metairie Canal, Metairie, Jefferson Parish, Louisiana</p> <p>Hatch Mott MacDonald 650 Poydras Street, Suite 2025 New Orleans LA 70130</p> <p>Many Heymann, P.E., 504-799-0437 many.heyman@hatchmott.com</p>	<p>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.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
October 2015	N/A	\$8,000 (fee)

PROJECT NO. 8		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Green Acres Road – New Street Lighting, Metairie, Jefferson Parish, Louisiana</p> <p>Pivotal Engineering, LLC 1515 Poydras St Ste 1875 New Orleans LA 70112</p> <p>Yoseph Shifare, P.E., PTOE, PMP 504-799-3653 yshifare@pivotaleng.com</p>	<p>Geotechnical investigation for construction of a new street lighting along Green Acres Road (Airline Highway to West Metairie Boulevard) in Metairie, LA. Gulf South's scope includes drilling two undisturbed soil borings (depths of 24 ft), lab testing, and engineering analyses including subsoil properties, and general construction procedures and recommendations.</p>	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
February 2019	N/A	\$4,500 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
Earhart Expressway Lighting Improvements (Clearview Parkway to Central Avenue), Jefferson Parish, Louisiana Perrin & Carter, Inc. 3501 Ridgelake Drive Metairie LA 70002 Georgia Dufresne, 504-831-7958 gdufresne@perrincarter.com	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, pile inspection, and concrete testing and inspection.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
December 2019	N/A	\$10,000 (fee)

PROJECT NO. 10		
Project Name, Location, and Owner's contact information:	Nature of Firm's Responsibility:	
West Esplanade Avenue Restoration (Tartan Drive to Haring Road), Metairie, Jefferson Parish, Louisiana APTIM Environmental & Infrastructure, Inc. 2424 Edenborn Avenue, Suite 450 Metairie LA 70001 Gene Gillen, 504-832-4878 gene.gillen@aptim.com	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.	
Completion Date (Actual or estimated:)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
December 2019	N/A	\$10,000 (fee)

TEC Professional Services Questionnaire

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

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

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



ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants

CRITERIA 1 | PROFESSIONAL TRAINING AND EXPERIENCE

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

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

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

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.

TEC Professional Services Questionnaire

N. continued.

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

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

Field Investigation Services

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

Laboratory Testing Services

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

Construction Materials Testing & Inspection

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

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

TEC Professional Services Questionnaire

N. continued.

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

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

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

CRITERIA 2 | SIZE OF FIRM

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

CRITERIA 3 | CAPACITY FOR TIMELY COMPLETION

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

CRITERIA 4 | PAST PERFORMANCE ON PARISH CONTRACTS

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

CRITERIA 5 | LOCATION OF THE PRINCIPAL OFFICE

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

TEC Professional Services Questionnaire

N. continued.

CRITERIA 6 | LEGAL STATEMENT

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

CRITERIA 7 | PRIOR SUCCESSFUL COMPLETION OF PROJECTS

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

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

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

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

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

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

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

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

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

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

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

Signature: _____

Print Name: Chad M. Poché, P.E.

Title: Executive Vice President

Date: June 20, 2024

ECM Consultants, Inc.

1301 Clearview Parkway, Suite 200, Metairie, Louisiana 70001