



STATEMENT OF QUALIFICATIONS

Routine Engineering Services for **Water Projects**

Jefferson Parish, Louisiana

Resolution No. 138809 | SOQ 22-013



Submitted To:



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

Submitted By:

ECM Consultants, Inc.

1301 Clearview Parkway, Suite 200, Metairie,
Louisiana 70001

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

kazem@ecmconsultants.com

In Association With:
BFM Corporation, LLC

March 31, 2022

ECM Consultants, Inc.

Engineers • Architects • Construction Managers

Email: mail@ecmconsultants.com

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

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Baton Rouge, LA 70809
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Lafayette, LA 70508
Phone (504) 885-4080

March 31, 2022

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

Re: **Routine Engineering Services for Water Projects**
Resolution No. 138809 | SOQ 22-013

Jefferson Parish Council:

ECM Consultants, Inc. is a full-service licensed engineering, architectural and construction management firm headquartered in Metairie, LA, offering a broad array of talent and expertise relevant to this RFQ. We are pleased to submit one (1) electronic copy of our Statement of Qualifications (TEC Questionnaire) for the above referenced project.

ECM has provided services including studies, evaluations, engineering design, preparation of plans and specifications, construction administration, and resident inspection for numerous water-related projects involving water distribution systems, treatment plants, pumping stations, and waterline replacements etc. Our TEC questionnaire will demonstrate that our key personnel have extensive relevant experience and are highly qualified to perform the required services. We have included BFM Corporation for surveying services as our subconsultants.

We hope our interest will receive favorable consideration. Should you have any questions or require any additional information, please contact me.

Sincerely,



Kazem Alikhani, P.E.
Chief Executive Officer

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Section 1

ECM Consultants, Inc.

TEC Professional Services Questionnaire

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Routine Engineering Services for **Water Projects** in Jefferson Parish
Resolution No. 138809 | SOQ 22-013

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

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

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

Principal:

Ujjal DasGupta, P.E.
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.

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

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

<u>8</u> Administrative	<u>0</u> Estimators	<u>0</u> Specification Writers
<u>1</u> Architects	<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>13</u> Civil Engineers	<u>0</u> Interior Designers	<u>4</u> Project Managers
<u>25</u> Construction Inspectors	<u>0</u> Landscape Architects	<u>0</u> Clerical
<u>0</u> Ecologists	<u>0</u> Land Surveyor	<u>1</u> Grant/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	

62 TOTAL

F. Is this submittal by a JOINT-VENTURE? Please check: YES NO ☒
If marked "No" skip to Section I. if Marked "yes" complete Sections G-H.

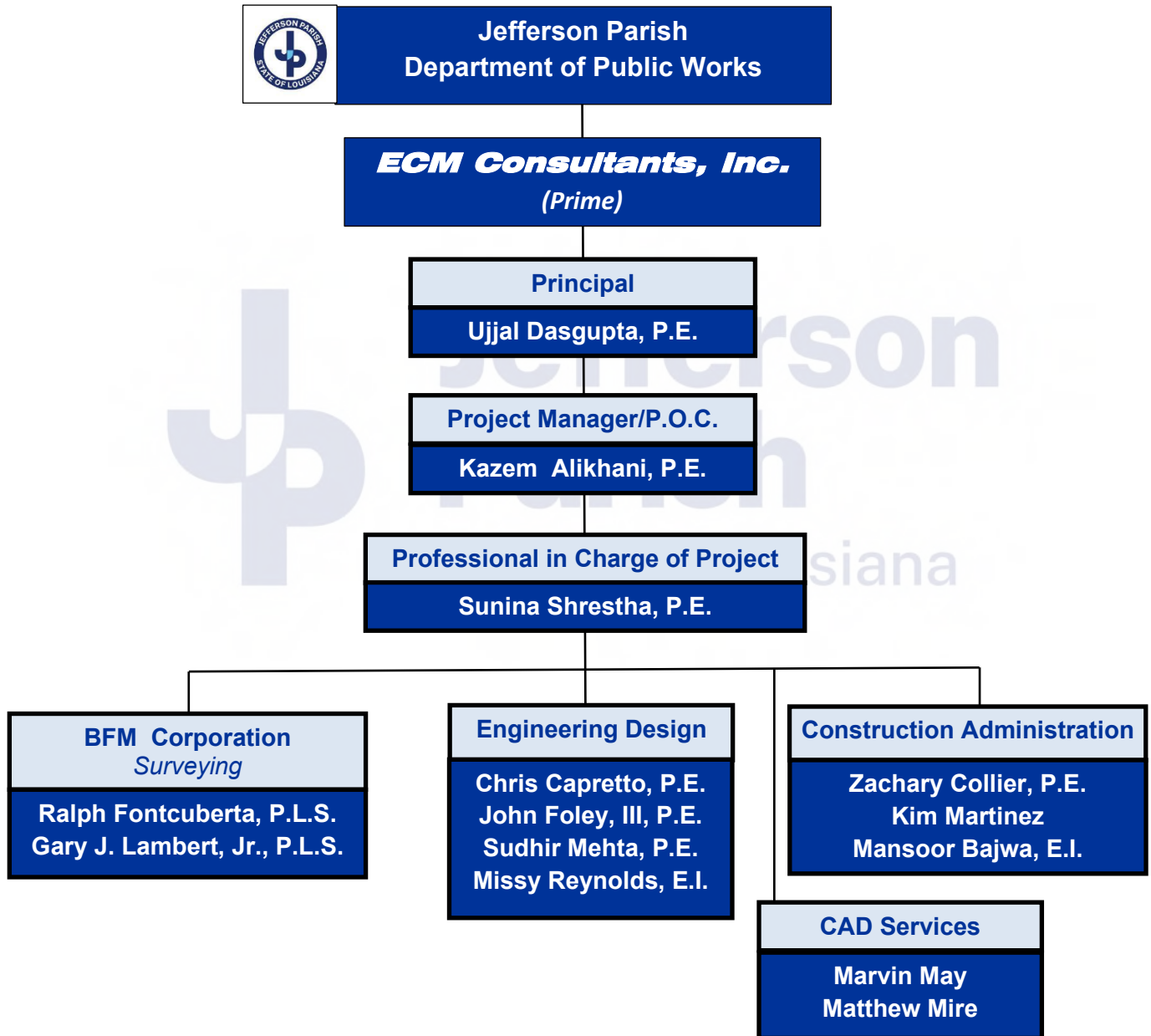
TEC Professional Services Questionnaire

G. If submittal is by JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. Please attach additional pages if necessary.		
1. N/A		
2. N/A		
H. Has this JOINT-VENTURE previously worked together? Please check <div style="display: flex; justify-content: space-around;"> YES NO </div>		
I. List all subcontractors anticipated for this Project. Please note that all subcontractors must submit a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.		
Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. BFM Corporation 15 Veterans Memorial Boulevard Kenner LA 70062	Surveying Services	YES
2. N/A	N/A	N/A
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: 14		


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:
14
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:
<p>Ms. Shrestha has 16 years of experience in analysis and design of streets, drainage, water and sewer systems for many projects involving reconstruction, rehabilitation, new construction as well as upgrade of drainage, water and sewer systems. Her experience also includes preparation of PS&E and engineering review of designs and construction plans and specifications for various roadway, drainage, water and sewer systems, designed by other engineers.</p> <p>Employment History:</p> <ul style="list-style-type: none"> ECM Consultants Inc., LA, <i>Civil Engineer (2009-present)</i> UAH, <i>Graduate Research Assistant in Civil Eng. (2007)</i> RITI Consultancy Pvt. Ltd., Nepal, <i>Field Engineer (2005)</i> <p>Relocation of Waterline for Napoleon Avenue, S&WB of New Orleans and USACE; New Orleans, LA: Ms. Shrestha provided civil engineering design for this project that included design and preparation of plans, specifications, and estimates for roadway removal and reconstruction; replacement of 12" water mains, sewer mains, including service lines and new subsurface drainage within the project.</p> <p>Replacement of Water Line for Gravier Street Improvements; New Orleans, LA: This City of New Orleans roadway reconstruction project involved design for relocation of new 20" water lines, drainage lines and service lines as a part of roadway reconstruction. Ms. Shrestha provided civil engineering design for the \$4.8 million project.</p> <p>Water System Relocation for Jefferson Avenue, S&WB of New Orleans and USACE; New Orleans, LA: This project consisted of design for removal and replacement of roadway, sewer and water line relocations, in connection with construction of a box culvert in the median of Jefferson Ave. Design work was coordinated with both USACE and the S&WB of New Orleans. Ms. Shrestha provided engineering design for roadway, roadway drainage, and relocation of water and sewer lines.</p> <p>Water Line Replacement for Read Blvd. Neighborhoods East-Group I, S&WB of New Orleans; New Orleans, LA: Ms. Shrestha provided design services to replace 1075 L of 8" water line on Chrysler St. and King Richard Dr. including valves, service lines, fire hydrants, temporary pavement restoration, and cost estimates. She also provided design services to replace 1465 lf of 8" water line and 525 lf of 12" diameter water line on Bright Dr., Chef Menteur Blvd., Coronado Dr., and Hillwood St.</p> <p>Water Line Replacement for Village De L'est, S&WB of New Orleans, New Orleans, LA: Ms. Shrestha performed engineering design and prepared PS&E for water line replacements in the Village De L'est neighborhood. The project includes replacement of 3,955 LF of 8" water line and 1,414 LF 12" water lines for various streets.</p> <p>Water Line Replacement for Read Blvd. West Neighborhoods, S&WB of New Orleans, New Orleans, LA: Ms. Shrestha provided engineering design services to replace 7,529 LF of 8" water line and 650 LF of 12" water line including valves, service lines, fire hydrants, temporary pavement restoration, and cost estimates.</p>

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:
ECM Consultants, Inc. 
Years' experience with this Firm:
26
Education: Degree(s)/Year/Specialization:
B.S./1968/Civil Engineering
Active registration: Year first registered/discipline:
1982/Civil Engineering/LA License No. 19849
Other experience and qualifications relevant to the proposed Project:

Mr. DasGupta has over 51 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.

Employment History:

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

Water Line Replacement for Gravier Street Improvements, City of New Orleans-DPW, New Orleans, LA:

Mr. DasGupta served as project manager for this design project involving roadway reconstruction, storm drainage, and **20"water line** replacement at Gravier Street between S. Galvez and Broad.

Water Line Replacement for Jefferson Avenue, Sewerage and Water Board of New Orleans and

USACE: Mr. DasGupta served as Project Manager for ECM for this \$50 million project consisting of design for roadway reconstruction from South Claiborne Avenue to Dryades Street on Jefferson Avenue in New Orleans in connection with construction of a concrete box culvert in the roadway median. Work included design and preparation of PS&E for removal and replacement of street paving, sewer and **water system relocations**.

Replacement of Water Distribution Lines For East Cargo Road and Utilities Project for New Orleans

Aviation Board: Mr. DasGupta served as Project Manager for this project involving design and preparation of plans and specifications for the \$ 8.7 million East Air Cargo Roads and utilities project at Louis Armstrong New Orleans International Airport. The project also included replacing all water distribution lines in the project area and tie-in to the main distribution line at Airline Highway.

Improvements to the Carrollton Water Treatment Plant, New Orleans, LA: Mr. DasGupta provided engineering services for a study, modifications, and improvements to Sewerage & Water Board's Carrollton Water Treatment Plant to meet the requirements of the "Safe Drinking Water Act"

TEC Professional Services Questionnaire

Waterline Relocation for Rehabilitation of S. Claiborne Avenue (Jena Street to Louisiana Avenue): Mr. DasGupta served as Project Manager for this project involving relocation/modification of a **42" water line** in connection with S. Claiborne area drainage improvements for the U.S. Army Corps of Engineers and S&WB of New Orleans.

Replacement of Water Lines for St. Bernard Housing Development, New Orleans, LA: Mr. DasGupta supervised this \$11 million project involving replacement of water, sewer, and drainage lines at St. Bernard Housing Development.

Water Line Replacement for Read Blvd. Neighborhoods East Group I, S&WB of New Orleans, New Orleans, LA: Mr. DasGupta served as Project Manager where ECM provided design services to replace 1075 LF of **8" water line** on Chrysler Street and King Richard Drive, including valves, service lines, fire hydrants, temporary pavement restoration, and cost estimates. The project also involved design services to replace **1465 LF of 8" water line and 525 LF of 12" diameter water line** on Bright Drive, Chef Menteur Blvd., Coronado Drive, and Hillwood Street.

Water Line Replacement for Village De L'est, S&WB of New Orleans, New Orleans, LA: Mr. DasGupta served as ECM's Project Manager for water line replacements in the Village De L'est neighborhood. The project includes replacement of 3,955 LF of 8" water line and 1,414 LF 12" water lines for various streets.

Water Line Replacement for Read Blvd. West Neighborhoods, S&WB of New Orleans, New Orleans, LA: Mr. DasGupta served as ECM's Project Manager for engineering design services to **replace 7,529 LF of 8" water line and 650 LF of 12" water line including valves, service lines, fire hydrants**, temporary pavement restoration, and cost estimates.

Minor Streets in District "E", City of New Orleans DPW, New Orleans, LA: Mr. DasGupta served as Project Manager for design and construction inspection of this \$2.6 million roadway improvements project which included replacement of subsurface drainage, **water** and sewer system for Carney, Knights, Dreux, and Forstall Streets.

Aircraft Rescue and Fire Fighting Building (ARFF) at LANOIA, New Orleans Aviation Board, Kenner, LA: This project involved A-E design of a new \$10 million, 24,000 sf Aircraft Rescue and Fire Fighting building including pavement, **water**, wastewater, and storm drainage design, and site paving. As Joint Venture partner, Mr. DasGupta served as the Assistant Project Manager.

Program Management for Katrina Damaged Repairs to Water Systems, S&WB of New Orleans: Mr. DasGupta served as Project Manager of ECM as subconsultant to CH2M for this \$73 million contract. ECM provided program management support involving constructability reviews of plans specifications and document control. This includes uploading daily reports to Primavera Contract Manager (PCM), checking monthly pay applications, change order management, maintaining RFI's & PCO's and logs, meeting minutes and all project related documents. ECM also provided construction management and inspection services for all construction projects at Central Yard and Carrollton Water Treatment Plant under this program.

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

Napoleon Ave. Rehabilitation (S. Claiborne to Carondelet St.), S&WB of New Orleans, New Orleans, LA: Mr. DasGupta served as Principal in Charge for ECM for this \$55.1 million SELA-funded project involving design and preparation of plans, specifications and cost estimates (PS&E) for reconstruction of Napoleon Ave. from S. Claiborne to Carondelet St. in connection with construction of the concrete box culvert in the Napoleon Ave. median. Work also included replacement of water and sewer mains including service lines. Design work was coordinated with USACE, Sewerage & Water Board of New Orleans, and City of New Orleans DPW.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Kazem Alikhani, P.E., Chief Executive Officer

Project Assignment:

Professional in Charge & POC

Name of Firm with which Associated:

ECM Consultants, Inc. 

Years' experience with this Firm:

5

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 41 years of experience in public works projects including planning, design and construction management. He spent a majority of his career working with Jefferson Parish Dept. of Public Works and was the Director of Public Works, responsible for all public works functions and overseeing an annual operating budget of \$200M and a capital budget of over \$100 million. His public works oversight consisted of managing nine departments: drainage (canals, subsurface, pump stations), sewage (collection system and wastewater treatment plants), water (distribution and water treatment plants), streets (over 3,200 lane miles), parkways, environmental, Floodplain Management and Hazard Mitigation, engineering; Capital projects including planning, managing engineering and construction of capital project improvements.

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

Employment History:

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

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.

Various Projects under LDEQ Clean Water State Revolving Loan Fund; Jefferson Parish, LA (2014): As Director of Public Works for Jefferson Parish, Mr. Alikhani helped secure \$55 million in low interest loans through the Louisiana Department of Environmental Quality (LDEQ) Clean Water State Revolving Loan Fund for design and construction of improvements to numerous treatment plants, lift stations and force mains across the Parish. Mr. Alikhani managed the planning, allocation of resources, design and construction for all public works projects

TEC Professional Services Questionnaire

under these loans. Several projects under this LDEQ fund include Terrytown Sewerage Pump Station Improvements, East Bank WWTP Rehabilitation of Belt Presses; Jefferson Hwy. and Midway Sewage Lift Station Rehabilitation and Improvements; and design and installation of Odor Control Systems at various sewage lift stations.

Assistant Director, Department of Water, Jefferson Parish Dept. of Public Works, Jefferson Parish, LA:

Mr. Alikhani assisted in the administration and management of all aspects of the Water Department operations, including operations of 140 MGD water treatment plants, maintenance and upkeep of **1,600 miles of distribution water lines**, and overseeing 140,000 utility billing accounts. He managed and coordinated capital projects ranging from \$300,000-\$25 million and developed a \$24 million annual operating budget. He managed and negotiated consultant engineering contracts, prepared engineering plans and specifications, and oversaw the GIS and SCADA systems of the department.

Gravier Street Improvements, City of New Orleans Dept. of Public Works, No. 00-4-01B, New Orleans, LA:

Mr. Alikhani was a project principal for this \$4.8 million project for which ECM provided civil engineering design and CE&I for roadway reconstruction with curbs and gutters. Design work also included subsurface drainage, **replacement of water** and sewer system, installation of ADA compliant ramps at intersections, striping and signage, and removal and replacement of sidewalks and driveways.

Water Line Replacement for FEMA Recovery Roads, St. Bernard & City Park Neighborhoods, City of New Orleans, LA:

Mr. Alikhani provided project oversight for FEMA eligible repairs in the St. Bernard and City Park neighborhoods. Work included replacement of **water lines**, roadway rehabilitation involving base repairs, asphalt leveling course and overlay, drainage improvements, curb and sidewalk repairs.

Water Line Replacement for Read Blvd. Neighborhoods East Group I, S&WB of New Orleans; New Orleans, LA:

Mr. Alikhani provided project oversight to replace **1075 lf of 8" water line** on Chrysler St. and King Richard Dr. including valves, service lines, fire hydrants, temporary pavement restoration, and cost estimates. She also provided design services to replace **1465 lf of 8" water line and 525 lf of 12" diameter water line** on Bright Dr., Chef Menteur Blvd., Coronado Dr., and Hillwood St.

Water Line Replacement for Village De L'est, S&WB of New Orleans, New Orleans, LA:

Mr. Alikhani provided project oversight for engineering design and prepared PS&E for water line replacements in the Village De L'est neighborhood. The project includes replacement of **3,955 LF of 8" water line and 1,414 LF 12" water lines** for various streets.

Water Line Replacement for Read Blvd. West Neighborhoods, S&WB of New Orleans, New Orleans, LA:

Mr. Alikhani provided project oversight for engineering design services to replace **7,529 LF of 8" water line and 650 LF of 12" water line including valves, service lines, fire hydrants**, temporary pavement restoration, and cost estimates.

Potable Water Improvement Projects: As Assistant Director of the Department of Water for Jefferson Parish,

Mr. Alikhani's prime responsibility was operations and maintenance of Water Infrastructure that included water distribution system and the treatment plants. During his tenure in the Water Department, he planned, budgeted and managed the expansion of the west bank water treatment plan. The project involved increasing the water treatment capacity by 25 MGD, that also included chemical feed and electrical system upgrade, replacement of filter media with multimedia, air scour and SCADA system. Additionally, under his supervision, numerous new water lines were planned, designed and constructed to replace the old water lines with extensive repair history or install new water lines to eliminate dead end lines or loop the water lines. Furthermore, a 500,000-gallon water tower was constructed in Grand Isle and a **32 miles submarine 18" HDPE waterline** was designed and constructed from lower Lafitte to transfer 2 MGD of water to the island.

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:

9

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 13 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)*

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

Water Line Replacement for Read Blvd. West Neighborhoods, S&WB of New Orleans, New Orleans, LA: Mr. Capretto provided design services to replace 7,529 LF of 8" water line and 650 LF of 12" water line including valves, service lines, fire hydrants, temporary pavement restoration, and cost estimates.

Water Line Replacement for Read Blvd. Neighborhoods East Group I, S&WB of New Orleans; New Orleans, LA: Mr. Capretto provided engineering design services to replace 1075 lf of 8" water line on Chrysler St. and King Richard Dr. including valves, service lines, fire hydrants, temporary pavement restoration, and cost estimates. He also provided design services to replace 1465 lf of 8" water line and 525 lf of 12" diameter water line on Bright Dr., Chef Menteur Blvd., Coronado Dr., and Hillwood St.

Water Line Replacement for Village De L'est, S&WB of New Orleans, New Orleans, LA: Mr. Capretto performed engineering design and prepared PS&E for water line replacements in the Village De L'est neighborhood. The project includes replacement of 3,955 LF of 8" water line and 1,414 LF 12" water lines for various streets.

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

Gravier St. Improvements (S. Galvez to S. Broad), City of New Orleans DPW; New Orleans, LA: Mr. Capretto provided construction administration services for this \$4.8 million project as Assistant Project Engineer. He was also involved in design, preparation of plans and specifications, and cost estimates for roadway reconstruction including storm drainage and **new water** and sewer system.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
John Foley, P.E., Civil Engineer
Project Assignment:
Civil Engineer
Name of Firm with which Associated:
ECM Consultants, Inc.
Years' experience with this Firm:
3
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 7 years of experience designing public works projects including feasibility studies, environmental assessments, roadway, drainage, water and sewer systems improvements design.</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>West Bank Group B Street Improvements, City of New Orleans, LA. Mr. Foley provided engineering services for preliminary and final design plans for a designated list of streets to be enhanced in the West Bank regional area of New Orleans. The primary enhancements include mill and overlay with full depth patching, other incidental road repairs and drainage improvement and water line relocations at conflicts in certain sections of the project area.</p> <p>Lake Terrace Oaks, Group-C, and Lake Shore Area Group-E, Roadway Improvements, City of New Orleans, LA. Mr. Foley is providing engineering design services 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 intersection</p> <p>Gentilly Terrace Group E; New Orleans, LA: Mr. Foley is providing design services 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, water and sewer systems relocations.</p> <p>Program and Construction Management for 2017 Jefferson Parish Road Bond Program Jefferson Parish DPW Jefferson Parish, LA. Mr. Foley is involved in review of plans and specifications for multiple roadway projects that include roadway reconstructions, drainage upgrades and relocations of water and sewer systems at conflicts 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.</p> <p>City Park Group - A, New Orleans, LA: Mr. D'Angelo is serving as the Project Engineer for this construction engineering inspection services for this \$6.5 million City Park Group - A project. The project scope includes full reconstruction Allard Blvd and St John Court and rehabilitation of other streets in City Park Group A project area. The project included reconstruction of PCC roadway including all roadway intersections and sidewalks with ADA ramps, new drainage system and replacement of all water and sewer mains</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Sudhir Mehta, P.E., Senior Structural Engineer

Project Assignment:

Project Engineer

Name of Firm with which Associated:

ECM Consultants, Inc.



Years' experience with this Firm:

4

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)*

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 **water** and sewer **lines** 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.

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 water** and sewer lines 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.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Missy Reynolds, E.I., Project Manager

Project Assignment:

Engineering Design

Name of Firm with which Associated:

ECM Consultants, Inc.

ECM

Years' experience with this Firm:

5

Education: Degree(s)/Year/Specialization:

B.S./1994/Civil Engineering

Active registration: Year first registered/discipline:

1995/Civil Engineering/ E.I. LA No. 16639

Other experience and qualifications relevant to the proposed Project:

Ms. Reynolds has 27 years of experience in project management 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 the Greater New Orleans region.

Employment History:

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

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


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

East Bank Water Treatment Plant, Jefferson Parish, LA: Ms. Reynolds designed the civil site plan for a 10-acre expansion of an existing **water treatment plant** to include a new laboratory building and P4 plant with process piping, access roadways, driveways, parking lots, rerouted subsurface drainage, sewer and water utilities.

Waggaman Hydraulic Study, Jefferson Parish, LA: Ms. Reynolds performed a hydrologic study for the subdivisions Waggaman, South Kenner and Manor Lane in Waggaman, LA. Each subdivision was 200-600 acres and included residential, industrial and unimproved areas. Ms. Reynolds utilized the Storm Water Management Model (EPA SWMM) to evaluate existing conditions and develop a hydrologic and hydraulic design model for each subdivision, recommending design improvements to reduce flooding. She also presented a detailed Hydraulic and Hydrology Report to show existing and proposed conditions.

Cypress Park & Erindale Subdivisions Hydraulic Study, St. Tammany Parish, LA: Ms. Reynolds performed a hydrologic study for two residential subdivisions utilizing Autodesk Storm Water Management Model (EPA SWMM) to evaluate the existing drainage capacities and contributions to bayous. She developed a hydrologic and hydraulic design model for each area and presented a detailed report showing existing and proposed design conditions along with associated probable construction costs.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Zachary Collier, P.E., Civil Engineer
Project Assignment:
Construction Administration
Name of Firm with which Associated:
ECM Consultants, Inc. 
Years' experience with this Firm:
3
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:
<p>Mr. Collier is a construction engineer with prior project experience at the Coast Protection and Restoration Authority (CPRA) and LADOTD, where he managed construction administration, inspection, operations and maintenance phase of projects. He directed and supervised crews on highways and bridge construction projects. He worked with contractors to resolves complaints and attended meetings.</p> <p>Employment History:</p> <ul style="list-style-type: none"> ECM Consultants Inc., Metairie, LA, <i>Construction Engineer (2019-to date)</i> CPRA, New Orleans, LA, <i>Construction, Operations and Maintenance Manager (2018-2019)</i> LADOTD, Baton Rouge, LA, <i>Assistant Project Engineer (Engineer Intern 2) (2017-2018)</i> LADOTD, Baton Rouge, LA, <i>Concrete Research Engineer (Engineer Intern 1 & 2) (2014-2017)</i> Professional Service Industries, Inc, Baton Rouge, LA, <i>Construction Services Technician, (March 2014 – August 2014)</i> <p>Essen Lane Widening, East Baton Rouge Parish, LA: Mr. Collier served on the Project Engineering team for this \$8 million widening project. Work included adding an additional travel lane on northbound Essen Lane, new signalized intersections, new ADA ramps at all driveways and intersections, and additional drainage capacity and relocation of waterlines.</p> <p>Severn Avenue Corrido Improvements (Veterans to West Esplanade) Metairie, Jefferson Parish, LA Mr. Collier is serving 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..</p> <p>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.</p> <p>S.P. No. H.004791, 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.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Kim Martinez, Construction Inspector

Project Assignment:

Construction Inspection

Name of Firm with which Associated:

ECM Consultants, Inc.



Years' experience with this Firm:

8

Education: Degree(s)/Year/Specialization:

Active registration: Year first registered/discipline:

DOTD Certified Inspector

Other experience and qualifications relevant to the proposed Project:

Ms. Martinez has 38 years of experience . She worked for LADOTD for 30 years. She works from ECM's Metairie Office.

Employment History:

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

Gravier Street from S. Galvez to S. Broad Street, City of New Orleans DPW, New Orleans, LA: Ms. Martinez is the lead resident inspector for this project which is presently under construction. Scope of work includes 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.

F. 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, **water** and sewer lines , unclassified excavation, grading, lime treatment, class II base course, PCC Pavement, Superpave asphaltic concrete shoulders, and associated items.

Harrison Avenue Bridges over Bayou St. John, LADOTD; Orleans Parish, LA: Ms. Martinez served as Construction Inspector for this CE&I project that involved the construction of two concrete slab span bridges. Work included demolishing the existing eastbound and westbound bridges, relocating **water** and sewer force mains drainage excavation, driving pre-cast concrete piles, installing cast-in-place concrete eastbound & westbound bridges, PCC approach slabs, removing existing roadway, new PCC roadway and sidewalks, including embankment, grading, base course, and seeding/fertilizing.

Bayou Lafourche Bridge at Larose, Lafourche Parish, LA: Ms. Martinez provided construction inspection for Bayou Lafourche Vertical Lift Bridge project. This new bridge will replace the existing LA 310 pontoon bridge at LA 657 extension to LA 308. Scope also includes maintaining all construction field records; making daily entries in SiteManager; coordinating with the U.S. Coast Guard and Parish Engineer/Representative for all relocations/adjustments of **water**, sewer and other utility facilities within the construction of the site; inspecting the contractor's construction operations and preparing final estimate packages.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Mansoor Bajwa, E.I., Construction Inspector

Project Assignment:

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).*

S.P. No. H.011752 Severn Ave: Veterans to W. Esplanade, Jefferson Parish, LA: Mr. Bajwa serves as one of the inspectors for this **\$11.5 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, **waterline**, 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.

TEC Professional Services Questionnaire


KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Marvin May, CAD Technician
Project Assignment:
CAD Services
Name of Firm with which Associated:
ECM Consultants, Inc.
Years' experience with this Firm:
15
Education: Degree(s)/Year/Specialization:
1999/AutoCAD Drafting
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>Mr. May has over 19 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.</p> <p><u>Employment History:</u></p> <ul style="list-style-type: none"> ECM Consultants Inc., LA, <i>CAD Technician (2002-present)</i> <p>Water Line Replacement for Read Blvd. Neighborhoods East Group I, S&WB of New Orleans; New Orleans, LA: Mr. May provided CAD services for the design to replace 1075 lf of 8" water line on Chrysler St. and King Richard Dr. He also provided CAD services for designs to replace 1465 lf of 8" water line and 525 lf of 12" diameter water line on Bright Dr., Chef Menteur Blvd., Coronado Dr., and Hillwood St.</p> <p>Water Line Replacement for Read Blvd. West Neighborhoods, S&WB of New Orleans, New Orleans, LA: Mr. May provided CAD drafting services for engineering design to replace 7,529 LF of 8" water line and 650 LF of 12" water line including valves, service lines, fire hydrants, temporary pavement restoration, and cost estimates.</p> <p>Water Line Replacement for FEMA Recovery Roads, St. Bernard & City Park Neighborhoods, City of New Orleans, LA: Mr. May provided CAD services for civil design for FEMA eligible repairs in the St. Bernard and City Park neighborhoods. Work included replacement of water lines, roadway rehabilitation involving base repairs, asphalt leveling course and overlay, drainage improvements, curb and sidewalk repairs.</p> <p>Water Line Replacement for Village De L'est, S&WB of New Orleans, New Orleans, LA: Mr. May provided CAD services for engineering design and preparation of PS&E for water line replacements. The project includes replacement of 3,955 LF of 8" water line and 1,414 LF 12" water lines for various streets.</p> <p>Water Line Replacement for Gravier Street Improvements, City of New Orleans-DPW; New Orleans, LA: This project involved roadway and sidewalk design as well as design for all new sewer lines, water lines, and subsurface drainage lines. Mr. May provided CAD support for this project.</p> <p>Water Line Relocation for Rehabilitation of S. Claiborne Avenue (Jena St. to Louisiana Ave.), New Orleans, LA: Mr. May was involved in CAD drafting for the roadway, drainage, and water and sewer systems for this project. Work included preparation of plan and profile, cross section, and various details.</p> <p>Relocation of Water Lines for Napoleon Avenue, S&WB of New Orleans and USACE New Orleans District; New Orleans, LA: Mr. May provided CAD drafting services for the reconstruction of Napoleon Ave. between S. Claiborne Ave. and Carondelet St. in connection with construction of a drainage box canal at the median of Napoleon Ave. This project also included plan preparation in AutoCAD for new subsurface drainage and new water lines.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Matthew Mire, E.I., CAD Technician
Project Assignment:
CAD Services
Name of Firm with which Associated:
ECM Consultants, Inc.

Years' experience with this Firm:
1
Education: Degree(s)/Year/Specialization:
2020/B.S./Civil Engineering
Active registration: Year first registered/discipline:
Other experience and qualifications relevant to the proposed Project:
<p>After graduation, Mathew joined Modjeski and Masters as Intern and provided field engineering services for various construction projects and prepared sketches for a number of in-services bridge inspections. In ECM he is providing CAD support services for several Roads, Drainage and Utilities projects.</p> <p>Employment History:</p> <ul style="list-style-type: none"> ECM Consultants Inc, <i>Engineering Intern</i>, (2021-to date) Modjeski & Masters, <i>Field Engineer</i>, (2020-2021) Cajun Industries, <i>Intern</i>, (2019) MAPP Construction, <i>Intern</i>, (2018) Wharton-Smith Construction, <i>Intern</i>, (2017) JB James Construction, <i>Intern</i>, (2016) <p>Jefferson Parish District 2 Transit Stop Improvement Study: Mr. Mire preforms conceptual design and CAD drafting for the Jefferson Parish Transit Stop Improvement Plan. The improvement plan aims at updating the transit stops, adjacent sidewalks, and crossings to all current ADA and accessibility requirements. The conceptual design is being performed using AutoCAD.</p> <p>WSLP 102 and 106 for United States Army Corps of Engineers, St. John the Baptist Parish, LA: Mr. Mire updated the latest levee cross sections, canals, T-walls, dimensions, and plan view designs for the plan set of WSLP 102 and 106 using AutoCAD.</p> <p>South Central Florida Express System Wide Bridge Inspection, Clewiston, Florida: Mr. Mire performed a quality assessment inspection identifying defects for 34 bridges for SCFE RR near Clewiston Florida and the surrounding area. The inspection provided the client with the current condition of the bridges and highlighted areas for repair.</p> <p>Canadian National Bridge Replacement, Bonnet Carre Spillway: Mr. Mire was an on-site field engineer/quality assurance inspector for the \$60 million bridge replacement project for CN near Laplace, Louisiana. The project consisted of installing a double voided concrete box girder bridge supported by reinforced concrete piles approximately 2.5 miles long in order to replace the adjacent existing timber bridge. Mr. Mire collected field data such as pile driving logs and grout cube compressive strength test, tracked quantity of material installed, and recorded daily construction activities in the form of reports.</p> <p>Kansas City Southern Structural Steel Repairs: Shreveport, LA and Cason, TX Mr. Mire was an on-site field engineer/quality assurance inspector for repairs of three orthotropic bridges for KCS located in Shreveport, LA and Cason, TX. The project consisted of installing bolted reinforcement plates, welding, and replacement of bearings at various locations where cracks and corrosion were present. Mr. Mire prepared daily reports and tracked quantity of material installed to verify the contractor installed welds and reinforcement plates at the appropriate locations.</p>

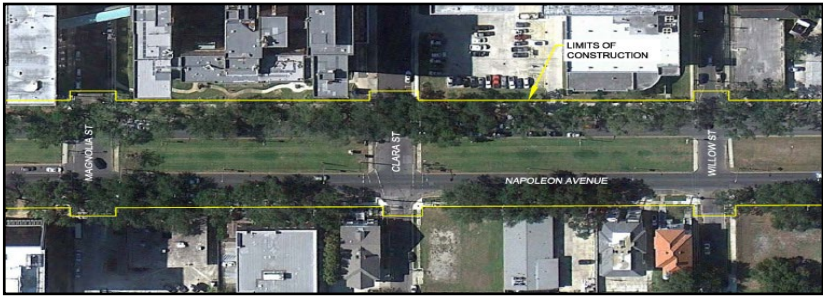
L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.



PROJECT NO. 1


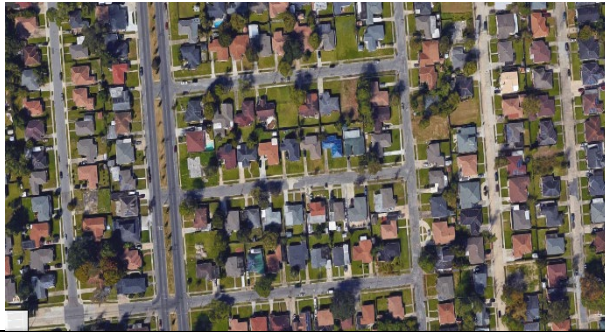
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Water Line Replacement Program for Read Boulevard East Neighborhoods New Orleans, LA S&WB of New Orleans 625 St. Joseph Street New Orleans, LA 70165	<p>ECM provided engineering design and preparation of PS&E for waterline replacements for the neighborhoods of Read Blvd. East. This project involved replacement of water lines damaged by Hurricane Katrina and were undertaken in conjunction with roadway rehabilitation projects the City of New Orleans Dept. of Public Works, requiring extensive coordination. ECM provided design services to replace 1075 LF of 8" water line on Chrysler Street and King Richard Drive, including valves, service lines, fire hydrants, temporary pavement restoration, and cost estimates. The project also involved design services to replace 1465 LF of 8" water line and 525 LF of 12" diameter water line on Bright Drive, Chef Menteur Blvd., Coronado Drive, and Hillwood Street.</p>	
Completion Date: (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2016	\$1.7M	\$1.7M


PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Lake Terrace Oaks, Group C Road and Waterway Improvements New Orleans, LA City of New Orleans DPW Khalid Saleh, P.E. 504.865.0659 1300 Perdido St. Room 6W03 New Orleans, LA 70112	<p>ECM is providing engineering design services for preparing preliminary, advance check plans and final plans and specifications and estimates (PS&E) for the streets in the Lake Terrace Oaks- Group – C project. This project is a part of a FEMA funded roadway capital improvement program for the City of New Orleans. ECM is providing engineering design for these projects that include 20 city blocks of roadway including intersections. 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. Project included drainage upgrades, relocations of waterlines and sewer lines.</p>	
Completion Date: (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Ongoing	\$11.5M	\$11.5M

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Water Line Replacement Program for Village De L'est Neighborhood New Orleans, LA S&WB of New Orleans 625 St. Joseph Street New Orleans, LA 70165	ECM provided engineering design services and prepared plans, specifications and estimates (PS&E) for water line replacements in the Village De L'est neighborhood. The project includes replacement of 3,955 LF of 8" water line and 1,414 LF 12" water lines for various streets. This project involved replacement of water lines damaged by Hurricane Katrina and were undertaken in conjunction with roadway rehabilitation projects the City of New Orleans Dept. of Public Works, requiring extensive coordination.	
Completion Date: (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2016	\$1.5M	\$1.5M
PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Relocation of Water Line for Napoleon Avenue New Orleans, LA S&WB of New Orleans 625 St. Joseph Street New Orleans, LA 70165	The project scope included design for reconstruction of Napoleon Avenue between South Claiborne Avenue and Carondelet Street and adjoining intersections. ECM provided design, preparation of plans and specifications, cost estimates, hydrologic and hydraulic analysis, and construction administration for this project. Scope included 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.	
		
	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2016	\$55M	\$20M

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Water System Relocation for Jefferson Avenue New Orleans, LA S&WB of New Orleans 625 St. Joseph Street New Orleans, LA 70165	<p>This project scope included design for a concrete box culvert extending from South Claiborne Avenue to Dryads Street and reconstruction of the roadway and intersection within project limits. ECM provided engineering design, preparation of plans and specifications, and estimates for drainage, relocation of 12" water lines and sewer lines in connection with roadway reconstruction.</p> 	
Completion Date: (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2017 (E)	\$50M	\$20M
PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Water Line Replacement for Gravier Street Improvements New Orleans, LA City of New Orleans DPW Khalid Saleh, P.E. 504.865.0659 1300 Perdido St. Room 6W03 New Orleans, LA 70112	<p>ECM provided engineering design services for this \$4.8 million roadway reconstruction project. The project included drainage system with pipe sizes ranging from 12" to 42" in diameter. ECM also provided design for approximately 2,600 LF of water mains ranging in size from 8" to 20" in diameter with associated water house connections. Design also included relocation of approximately 2,400 LF of sanitary sewer ranging in size from 8" to 15" in diameter. 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)	\$4.8M	\$4.8M

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Fleur de Lis Drive Reconstruction (30th St. To Old Hammond Hwy.) New Orleans, LA City of New Orleans DPW Khalid Saleh, P.E. 504.865.0659 1300 Perdido St. Room 6W03 New Orleans, LA 70112	<p>ECM provided construction contract administration and construction engineering and inspection (CE&I) services for this \$12 million project involving reconstruction of Fleur de Lis Drive from 30th Street to Old Hammond Highway, a main thoroughfare separated by a median in a residential area of New Orleans. This Urban Systems project included removal of existing paving, excavation, new subsurface drainage system and drainage structures, removal and replacement of sewer force mains and water mains. The new roadway construction included grading, subbase, class II base course, Portland cement concrete pavement, concrete curb, ADA compliant ramps, sidewalks, driveways, striping and related work.</p> 	
Completion Date: (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020 (A)	\$12 million	\$12 million
PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Water Line Replacement Program for and Read Blvd. West Neighborhoods New Orleans, LA S&WB of New Orleans 625 St. Joseph Street New Orleans, LA 70165	<p>ECM provided engineering design and resident inspection for waterline replacements for this neighborhood. These projects involved replacement of 7,529 LF of 8" water line and 650 LF of 12" water line including valves, service lines, fire hydrants, temporary pavement restoration of waterlines damaged by Hurricane Katrina. These projects are undertaken in conjunction with roadway rehabilitation projects by DPW and required extensive coordination with SWBNO, DPW and other privately owned utilities entities.</p> 	
Completion Date: (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2016 (A)	\$2.4M	\$2.4M

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Program and Construction Management for Katrina Damage Repairs to Water Systems, New Orleans, LA S&WB of New Orleans 625 St. Joseph Street New Orleans, LA 70165	<p>ECM provided Program and Construction Management for this contract, as subconsultant to CH2M, to repair damage to the Water System at the Central Yard and the Carrollton Main Water Treatment Plant following Hurricane Katrina. ECM monitored all construction work and coordinated with various subconsultants and stakeholders to ensure the program ran efficiently and safely and that it met the owner's goals.</p> <p>ECM provided all construction management and inspection for work at the Carrollton Main Water Treatment Plant, which involved repairs to the filter galleries including damaged pipes, boilers, pre-heaters, pump vaults, lighting, flooring, ceilings, walls and windows.</p> <p>ECM's services also included constructability reviews of plans specifications and document control. This included uploading daily reports to Primavera Contract Manager (PCM), checking monthly pay applications, change order management, maintaining RFI's & PCO's and logs, meeting minutes and all project related documents.</p>	
Completion Date: (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2019 (A)	\$73M	\$28M
PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Katrina Damage Repairs at Joe Brown Park New Orleans, LA City of New Orleans Capital Projects Administration 1300 Perdido Street, Suite 6E15 New Orleans, LA 70112	<p>ECM provided engineering design, preparation of plans and specifications, and estimates (PS&E) for this \$6.9 million project to repair damages caused by Hurricane Katrina to buildings, roadways, drainage, and other facilities at the large suburban park. The project also involved damage assessments and design for repairs and upgrades to water, and sewer systems.</p>	
		
Completion Date: (Actual or Estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2014 (A)	\$6.9M	\$6.9M

TEC Professional Services Questionnaire

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

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

TEC Professional Services Questionnaire

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

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TEAM PROFILE

MINIMUM QUALIFICATIONS

EVALUATION CRITERIA

1. Professional Training & Experience
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5. Prior Successful Completion of Projects
6. Size of Firm
7. Past Performance on Parish Contracts

QUALITY CONTROL PLAN

CONCLUSION

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

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

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

Minimum Qualifications

Minimum Qualifications	Personnel Meeting Requirement
1. One Principal who is a professional engineer who shall be registered as such in Louisiana.	Ujjal DasGupta, P.E., President /Owner LA License No. 19849
2. A Professional in Charge of the Project who is a Professional Engineer who shall be registered as such in Louisiana with a minimum of five (5) years' experience in the disciplines involved.	Sunina Shrestha, P.E. 16 years' experience LA License No. 37901 Sudhir Mehta, P.E. 49 years' experience LA License No. 18950
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)	Sunina Shrestha, P.E. LA Civil Eng. #37901 Sudhir Mehta, P.E. LA Civil Eng. #18950 Chris Capretto, P.E. LA Civil Eng. #38641

Team Profile

ECM Consultants, Inc. is an engineering, architectural and construction management firm headquartered in Metairie, LA with a full-service branch office in Baton Rouge. ECM was incorporated under the laws of the State of Louisiana on August 31, 1995 and holds current licenses in Professional Engineering (No. 2003) and Construction Management (No. 31739). Over the last 27 years, ECM has provided professional services on over 800 projects for clients including:

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

The qualifications, integrity, reliability, and commitment

TEC Professional Services Questionnaire

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

ECM substantially exceeds minimum qualification requirements.

1. PROFESSIONAL TRAINING AND EXPERIENCE

RELEVANT PROJECT EXPERIENCE

ECM has extensive experience in engineering design, preparation of plans and specifications, construction administration, and construction engineering and inspection for water projects. Our related experience includes the following:

- Water line replacement program for Read Blvd. East Neighborhood for S&WB of New Orleans
- Water line replacement program for Read Blvd. West Neighborhood for S&WB
- Water line replacement program for Village De L'est Neighborhood for S&WB
- Relocation of Napoleon Ave. water lines, S&WB of New Orleans
- Potable and fire water mains for ARFF building at Louis Armstrong New Orleans International Airport for NOAB
- Replacement of water, sewer, and drainage systems at St. Bernard Housing Development in New Orleans for HANO
- New water, drainage, and sewerage systems for Desire Hope VI Development in New Orleans for HANO
- New 20" water line for Gravier Street improvements for City of New Orleans
- Water system replacement at HANO Lafitte Housing Development
- Relocation of major water lines at South Claiborne Ave. for S&WB of New Orleans
- Water system relocation for Jefferson Ave. for S&WB of New Orleans
- Katrina damage repairs to water lines at Joe Brown Park for City of New Orleans
- Program/Construction Management for Katrina damage repairs to S&WB of New Orleans water system

EXPERIENCE & TRAINING OF KEY PERSONNEL

ECM's staff of professional engineers, construction managers, inspectors, CAD technicians and administrative support personnel have worked on a variety of water infrastructure projects for Jefferson Parish and other parishes as well as various government agencies. Our staff is duly trained and certified, exceeding minimum qualifications for meeting Parish requirements. Our project staff includes the following:

Ujjal DasGupta, P.E. PRINCIPAL: Mr. DasGupta has over 51 years of experience in managing design and construction phase services for water treatment and distribution system projects. He is a Louisiana licensed P.E. with a B.S. in Civil Engineering.

Kazem Alikhani, P.E., PROJECT MANAGER: 41 years of experience managing public works projects including planning, design and construction management. Under his direction as Jefferson Parish Director of Public Works, he was responsible for all public works functions and overseeing an annual operating budget of \$200M and a capital budget of over \$100 million.

Sunina Shrestha, P.E. PROFESSIONAL IN CHARGE: Ms. Shrestha has 16 years of experience in civil, hydraulic and hydrologic engineering and design and project management for water projects. She is a Louisiana licensed P.E. and holds an M.S. in Civil Engineering with a concentration in Water Resources and Environmental Engineering.

Christopher Capretto, P.E. CIVIL ENGINEER: Mr. Capretto has 13 years of experience in civil engineering including water and drainage systems design. He also has experience in design and preparation of PS&E and construction administration of roadway reconstruction projects. He is a Louisiana licensed P.E. with a B.S. in Civil Engineering.

John Foley, III, P.E., CIVIL ENGINEER is a Registered Professional Engineer with 7 years of experience designing LADOTD and public works projects including feasibility studies, environmental assessments, roadway, wastewater and drainage

TEC Professional Services Questionnaire

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

improvements

Sudhir Mehta, P.E., CIVIL/STRUCTURAL ENGINEER: Mr. Mehta has 49 years of experience in the design, analysis and construction of major hydraulic structures such as pumping stations, floodwalls, floodgates and other flood control structures for multiple USACE districts, states and municipalities.

Missy Reynolds, PROJECT MANAGER: Ms. Reynolds has more than 27 years of experience in engineering design for major roadway, drainage, water and sewer projects in Southeast Louisiana.

Zach Collier, P.E., CONSTRUCTION ENGINEER: Mr. Collier is a construction engineer with prior project experience at CPRA and LADOTD, where he managed construction administration, inspection, operations and maintenance phase of projects. \$150,000 to \$8 million each. ECM alone completed about 78 task orders on-schedule and earned about \$40 million in fees.

Kim Martinez RESIDENT INSPECTION: Ms. Martinez has over 38 years of experience as a construction inspector including 30 years working with LADOTD as both an inspector and construction technician.

Mansoor Bajwa, E.I., RESIDENT INSPECTION: Mr. Bajwa has over 22 years of experience in the field of construction contract administration, engineering and inspection. His experience includes inspection of roadways and bridges, substructure drainage and utilities.

Marvin May CAD SERVICES: Mr. May has over 19 years' experience in AutoCAD drafting. His experience includes preparation of plans and profiles, cross sections, and miscellaneous details for roadway, drainage and water, sewer, and drainage related projects.

Matthew Mire, E.I. CAD SERVICES: He is providing CAD support services for several Roads, Drainage, water and sewer projects.

2. CAPACITY FOR TIMELY COMPLETION OF WORK

ECM understands the requirements of successfully managing and has the capacity and resources for

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

3. LOCATION OF PRINCIPAL OFFICE

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

4. ADVERSARIAL LEGAL PROCEEDINGS BETWEEN THE PARISH AND FIRM

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

5. PRIOR SUCCESSFUL COMPLETION OF PROJECTS

ECM has received "Exceptional" performance ratings from various USACE Districts, and "Outstanding" performance rating from U.S. HUD, and "Letters of Commendation" from the U.S. Customs Service, USDA, U.S. HUD, USACE New Orleans District, and various other local government agencies such as Jefferson Parish, City of New Orleans Dept. of Public Works, Calcasieu Parish Police Jury, and many more. Below are examples and references to related projects:

- **Napoleon Avenue Reconstruction for Box Canal**
Ron Spooner, P.E.
S&WB of New Orleans
(504) 865-0650
rspooner@swbno.org
- **S. Claiborne Avenue rehabilitation for Manifold Canal**
Ron Spooner, P.E.
S&WB of New Orleans

TEC Professional Services Questionnaire

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

(504) 865-0650

rspooner@swbno.org

- **Jefferson Parish Roadway Projects**

Mark Drewes, P.E.

Jefferson Parish-DPW

(504) 736-6506

jpengineering@jeffparish.net

- **Jefferson Parish Capital Projects**

Neil Schneider, P.E.

Jefferson Parish Department of Capital Projects

(504) 736-6833

jppw@jeffparish.net

The following are examples of a few additional projects performed by ECM:

- **New 20" force main for the City of Kenner:** ECM's estimate was \$523,437.00 and the low bid was \$529,347.00, only \$90.00 lower than our estimate.
- **Roadway reconstruction and subsurface drainage improvements for minor streets in District "E" for the City of New Orleans:** ECM's estimate was \$2.6 million, and the low bid was \$2.55 million. The project was completed within the bid amount.
- **Contract No. W912P80-07-D-0031 for the U.S. Army Corps of Engineers- HPO:** ECM was the managing J/V partner. A total of 99 Task Orders were issued, 90 percent of which received "Exceptional" ratings and the remaining 10 percent received "Very Good" ratings.
- **Contracts No. C-FTW-00366 and 00411; U.S. HUD, Atlanta Contracting Operations, Fort Worth Texas:** ECM received an "Outstanding" performance rating for both of these contracts. The evaluation report states: "The contractor has demonstrated an outstanding performance level that was significantly in excess of anticipated achievements and is commendable as an example for others, so that it justifies adding a point to the score. It is expected that this rating

will be used in those rare circumstances where contractor performance clearly exceeds the performance levels described as Excellent"

6. SIZE OF FIRM

ECM has **62** qualified professional engineers and support staff to work on routine and specialized projects that will be necessary to provide high quality professional services on this contract. Our team includes ten civil engineers, two structural engineers, four project managers, two engineering interns, a mechanical engineer, two architects, thirty-two construction inspectors, three CAD technicians, and eight administrative and support staff.

7. PAST PERFORMANCE ON PARISH CONTRACTS

ECM has successfully completed a number of projects for Jefferson Parish, **controlling costs**, providing **high quality work**, and maintaining the contract's **schedule**.

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

- Roadway and drainage improvements for West Metairie/Severn Avenue for Jefferson Parish. ECM's estimate was \$1 million, the low bid was \$899,000, and project was completed on-schedule with only one deductive change order amounting to 1.8 percent of the bid amount.
- B&C Canal box culvert for Jefferson Parish. The project bid was lower than the engineering estimate of \$1.6 million. The project was completed on-schedule with a deductive change order in the amount of \$29,000.00.

TEC Professional Services Questionnaire

QUALITY CONTROL PLAN

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

Routine progress meetings are held to determine progress, coordination, and resolution of challenges associated with the project. The project engineer checks the design computations and the drawings at every stage for quality assurance.


After completion of the construction documents, our experienced personnel perform a "constructability review" to avoid any conflicts which may arise during construction. The final review is performed by the project manager and then submitted to a third party for peer review depending upon the complexity of the project. Our quality control program has resulted in the production of virtually error-free construction documents and has minimized possible change orders during construction.



CONCLUSION

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

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

Signature: 

Print Name: Kazem Alikhani, P.E.

Title: Chief Executive Officer

Date: 03/31/2022

Section 2

BFM Corporation, LLC.

TEC Professional Services Questionnaire

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Routine Engineering Services for Water Projects

SOQ 22-013 | Resolution No. 138809

B. Firm Name & Address:



BFM
CORPORATION, LLC
Professional Land & Hydrographic Surveying

BFM Corporation, LLC

15 Veterans Memorial Boulevard
Kenner LA 70062

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

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

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

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

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

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

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

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

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

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

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

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

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

TEC Professional Services Questionnaire

G. If submittal is by a JOINT-VENTURE, list the firms participating and outline specific areas of responsibility (including administrative, technical, and financial) for each firm. please attach additional pages if necessary.		
1. N/A		
2.		
H. Has this JOINT-VENTURE previously worked together? Please check: YES _____ NO _____ N/A		
I. List all subcontractors anticipated for this Project. Please note that <u>all subcontractors must submit a fully completed copy of this questionnaire</u>, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.		
Name & Address:	Specialty:	Worked with Prime Before (Yes or No):
1. N/A		
2.		
3.		
J. Please specify the total number of support personnel that may assist in the completion of this Project: <u>24</u> (all personnel, primary and support, will be available on all assigned projects)		

TEC Professional Services Questionnaire

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

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

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

Project Assignment:

Registered Professional Land Surveyor

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years experience with this Firm:

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

Education: Degree(s)/Year/Specialization:

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

Active registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

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

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

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

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

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

- *East Bank Water Treatment Plant Improvements, Jefferson Parish, LA*
- *East Jefferson Water Works - River Road, Jefferson Parish, LA*
- *East Bank Water Treatment Plant Improvements - 3D Laser Scanning Survey, Jefferson Parish, LA*
- *Lower Lafitte Waterline, Jefferson Parish, LA*
- *Lower Lafitte Waterline Stakeout, Jefferson Parish, LA*
- *Belle Chasse Water Plant Intake, Belle Chasse, Jefferson Parish, LA*
- *River Road Water Line Replacement, Jefferson Parish, LA*
- *Locate 16-inch Water Line between Valve Stations 18 & 24, Grand Isle, Jefferson Parish, LA*
- *Central Avenue Project, Metairie, Jefferson Parish, LA*
- *Emergency Generator Replacement at the East Bank Treatment Plant, Jefferson Parish, LA*
- *Water Line Location Surveying, Grand Isle, Jefferson Parish, LA*
- *River Road Water Line, Waggaman, Jefferson Parish, LA*
- *Grand Isle Water Tower, Grand Isle, Jefferson Parish, LA*
- *Evans Road Waterline Repair - Mississippi River Levee Cross Section, Jefferson Parish, LA*
- *Iris Avenue Water Line Replacement, Jefferson Parish, LA*
- *West Bank Water Intake Basin Hydrographic Survey, Jefferson Parish, LA*
- *Waterline Location, Lower Lafitte Shoreline Stabilization, Jefferson Parish, LA*
- *Hydrological Survey of the East Bank Water Treatment Plant Intake Basin, Jefferson Parish, LA*
- *Fifi Island/Bayou Rigaud Water Line Location, Grand Isle, Jefferson Parish, LA*
- *DPW Proj. 2008-018-WR, Grand Isle Water Tower Site, Town of Grand Isle, Jefferson Parish, LA*
- *Canal No. 17 Bank Stabilization Phase II, Jefferson Parish, LA*
- *Channel Repair, Phase II, Construction Unit No. 3 (West Bank), Jefferson Parish, LA*
- *Channel Repair, Phase II, Construction Unit No. 2 (East Bank), Jefferson Parish, LA*
- *Grand Isle Water Main Location, Jefferson Parish, LA*
- *Water Main Installation, Live Oak Boulevard, West Bank, Jefferson Parish, LA*
- *Levee Cross Sections, Waggaman, Jefferson Parish, LA*

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

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

Project Assignment:

Engineering Liaison

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

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

Education: Degree(s)/Year/Specialization:

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

Active registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

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

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

BFM Corporation projects overseen by Mr. Poché would include:

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

Chad M. Poché, P.E. (continued)

Levee Cross Sections, Waggaman, Jefferson Parish, LA. BFM's scope of services included a cross section survey with location & inverts of water manholes & valves for the project. (\$2,845 (fee); 2018)

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

Paillet Basin Tidal Protection Levee, Town of Jean Lafitte, Jefferson Parish, LA. BFM provided topographic and hydrographic surveying services for the project. Scope included establishing three static GPS observation points at major turns on the levee to ensure baseline is constrained to State Plane Coordinates; BFM also established a baseline along the centerline of the existing earthen levee (referenced to NAD 1983 2011). BFM set vertical control Temporary Benchmarks (TBM) which were referenced to horizontal control points (NAVD 1988 Geoid 12B). Plotted a cross section depicting the ground, edge of water, top and toe of earthen levee, and levee centerline at typical widths of 100 feet. Located visible above-ground utilities as well as underground utilities with visible surface evidence (where available, BFM obtained record drawings from relevant agencies to further plot utilities), as well as existing wall, center of pumps, and discharge pipes at the existing pump station. Trees and large shrubbery & etc. were located and described. Existing improvements (such as sheds, piers, and buildings) and trees were included in general location surveying. Deliverables included hardcopy, PDF, and AutoCAD DWG files. (\$150,000 (fee); 2018)

Lapalco Boulevard Turn Lane (Lapalco Boulevard at Baratara 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 Baratara 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)

Destrehan Avenue Bike Path (Patriot Street to Chadwood Drive), Harvey, Jefferson Parish, LA. BFM prepared a Route Topographic Survey for the project; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The project area included the Destrehan ramp intersection, Chadwood Drive to Destrehan Avenue, and from the Destrehan ramp to Patriot Street. Surveying services further included the intersection of Destrehan Avenue to all side streets within the project area. (\$86,355 (fee); 2019)

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

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

John Philip Thayer
Field Operations Supervisor

Project Assignment:

Field Operations Supervisor

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years experience with this Firm:

14 years (joined BFM in 2008); 15 years total (2007)

Education: Degree(s)/Year/Specialization:

B.S., 2007, Physical Education, Trevecca Nazarene University

Active registration: Year first registered/discipline:

Professional Land Surveyor Registration in process, State of Louisiana

Other experience and qualifications relevant to the proposed Project:

Mr. Thayer is a Field Operations Supervisor with considerable experience in field surveying services, including ALTA/as-built surveying, construction layout, boundary, topographic, cross-sections, GPS use, and numerous other surveying types.

Central Avenue Project, Metairie, Jefferson Parish, LA. BFM provided topographic surveying services for the Central Avenue project, which extended from Airline Highway to Karen Drive. This included location of utilities, notably the municipal water line. (\$14,580 (fee); 2014)

River Road Water Line, Waggaman, Jefferson Parish, LA. As requested by the Project Engineer, BFM provided water line location & general surveying services for the project, which extended from the St. Charles Parish line to Rivet Boulevard in Waggaman. (\$43,211 (fee); 2012)

Grand Isle Water Tower, Grand Isle, Jefferson Parish, LA. BFM provided as-requested amended surveying services for the project. This was an extension of DPW Proj. 2008-018-WR, executed in 2009, for additional project work. (\$8,753 (fee); 2012)

Water Line Location Surveying, Grand Isle, Jefferson Parish, LA. BFM located a 16-inch water line at Camp Club in Grand Isle, Louisiana. (\$1,701 (fee); 2012)

West Bank Water Intake Basin Hydrographic Survey, Jefferson Parish, LA. BFM provided hydrographic surveying services for the Intake Basin at the West Bank plant. (2011)

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

John Philip Thayer (continued)

Fifi Island/Bayou Rigaurd Water Line Location, Grand Isle, Jefferson Parish, LA. BFM's surveying services located a 16-inch water line utility in Fifi Island and Bayou Rigaurd in Grand Isle, Louisiana. (\$3,178 (fee); 2010)

East Jefferson Water Works – River Road, Jefferson Parish, LA. BFM's surveying services for the project involved the location of existing water lines/pipes for the East Jefferson Water Works located on River Road in Jefferson Parish. (\$2,070 (fee); 2017)

East Bank Water Treatment Plant Improvements, Jefferson Parish, LA. BFM executed a boundary survey, utilizing Laser Scan P3, for an As-Built Utilities survey. This included draft surveying (in conjunction with the Prime Firm) as well as provision of final survey as directed. In a later phase, BFM provided topographic and boundary surveying services. (\$154,770 (fee); 2017)

Belle Chasse Water Plant Intake, Belle Chasse, Jefferson Parish, LA. BFM provided bathymetric surveying services for the project. (\$14,804 (fee); 2016)

Locate 16-inch Water Line between Valve Stations 18 & 24, Grand Isle, Jefferson Parish, LA. BFM provided surveying services to locate the water line situated between valve stations 18 and 24 in Grand Isle. (\$133,444 (fee); 2014)

Emergency Generator Replacement at the East Bank Treatment Plant, Jefferson Parish, LA. BFM prepared a topographic survey of the area surrounding the proposed site for the emergency generators. (\$5,888 (fee); 2012)

Evans Road Waterline Repair – Mississippi River Levee Cross Section, Jefferson Parish, LA. BFM provided cross section surveying services for the Evans Road Mississippi River Levee profiles as requested by the Parish in order to obtain USACE permitting. The cross section view showed the existing levee cross section, the design levee cross section, and the proposed excavation sites. (\$4,485 (fee); 2012)

Iris Avenue Water Line Replacement, Jefferson Parish, LA. BFM provided topographic surveying services for the Iris Avenue Water Line Replacement, which included the area from River Road to Jefferson Highway. (\$18,493 (fee); 2011)

Hydrological Survey of the East Bank Water Treatment Plant Intake Basin, Jefferson Parish, LA. BFM provided hydrological surveying services for the project. (\$4,975 (fee); 2010)

Waterline Location, Lower Lafitte Shoreline Stabilization, Jefferson Parish, LA. BFM provided surveying services associated with the location of a 16 in plastic waterline in the Barataria Waterway as part of the Lower Lafitte Shoreline Stabilization project. (\$27,825 (fee); 2011)

Grand Isle Water Tower Site, Town of Grand Isle, Jefferson Parish, LA. BFM provided topographic surveying for the project. (\$6,859 (fee); 2009)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Gary J. Lambert, Jr., PLS

Registered Professional Land Surveyor

Project Assignment:

Registered Professional Land Surveyor; Project Manager/Drafting Supervisor

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years experience with this Firm:

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

Education: Degree(s)/Year/Specialization:

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

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

Active registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

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

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

North Arnoult Drainage Pump Station Improvements, Jefferson Parish, LA. BFM's project services included both boundary and topographic surveying of the project site. (\$6,870 (fee); 2019)

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

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

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

Sewer Lift Station L-13-6, Ehret Road, Marrero, Jefferson Parish, LA. BFM's surveying scope involved topographic and boundary surveying services for the project in Marrero. BFM established a baseline parallel to Ehret Road, with the beginning, end, and points of intersection referenced by three point ties to topographic features in the area. With the limits of survey established (Ehret Road, Weatherly Place, Crestridge Circle, and Broas Drive), BFM plotted the location of improvements. Visible above-ground utilities & below-ground utilities with visible surface evidence were also plotted. (\$8,790 (fee); 2019)

Coventry Drainage Pump Stations, Jefferson Parish, LA. BFM provided a Route Topographic Survey with Hydrographic Survey for the project, located in River Ridge, Louisiana. The limits of survey extended from r/w to r/w along Jefferson Highway. The levee and hydrographic survey area was noted as 400 feet wide (200 ft. in either direction of the extended centerline of Colonial Heights Road). Drone Surveying was a key element of the project. The hydrographic survey extended 500 feet into the river from the water's edge. (\$89,780 (fee); 2020)

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

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

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

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Christopher Lemley
Quality Control Supervisor

Project Assignment:

Quality Control Supervisor

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years experience with this Firm:

8 years (joined BFM in 2014); 16 years total (2006)

Education: Degree(s)/Year/Specialization:

High School Diploma

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Mr. Lemley serves as BFM's Quality Control Supervisor, overseeing all work and activity by the firm's personnel to be sure all is kept up to our exacting standards. His surveying experience includes over 8 years as a Survey Crew Chief. His survey software experience includes projects involving Trimble, Topcon, Leica, and Hypack, and has maintained and operated GPS, Auto-Level, and Total Station.

Lower Lafitte Waterline Stakeout, Jefferson Parish, LA. BFM provided stakeout surveying for the project, staking the water line every 50 feet (with 4 ft. wooden stakes). (\$10,380 (fee); 2016)

River Road Water Line Replacement, Jefferson Parish, LA. As directed by the Project Engineer, BFM provided topographic surveying services for the project, which extended from Rivet Boulevard to Willswood Drive. This project was part of the Louisiana Department of Health and Hospitals (LDHH) Clean Drinking Water loan program. (\$84,700 (fee); 2015)

East Bank Water Treatment Plant Improvements, Jefferson Parish, LA. BFM executed a boundary survey, utilizing Laser Scan P3, for an As-Built Utilities survey. This included draft surveying (in conjunction with the Prime Firm) as well as provision of final survey as directed. In a later phase, BFM provided topographic and boundary surveying services. (\$154,770 (fee); 2017)

Belle Chasse Water Plant Intake, Belle Chasse, Jefferson Parish, LA. BFM provided bathymetric surveying services for the project. (\$14,804 (fee); 2016)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Thomas O. Wright
Survey Crew Chief

Project Assignment:

Survey Crew Chief

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years experience with this Firm:

14 years (joined BFM in 2008); 45 years total (1977)

Education: Degree(s)/Year/Specialization:

High School Diploma

Active registration: Year first registered/discipline:

*American Traffic Safety Service Assn. – Traffic Flagger/Control Technician/Control Supervisor
Basic OSHA Training - Completed
Transportation Work Identification Card (TWIC)*

Other experience and qualifications relevant to the proposed Project:

Mr. Wright has over 40 years of experience in surveying services, including a multitude of project types (water, wastewater, stormwater, drainage, roadway, etc.) throughout the region.

Lower Lafitte Waterline, Jefferson Parish, LA. BFM provided stakeout services for the Lower Lafitte Waterline project. (\$10,380 (fee); 2017)

Grand Isle Water Tower, Grand Isle, Jefferson Parish, LA. BFM provided as-requested amended surveying services for the project. This was an extension of DPW Proj. 2008-018-WR, executed in 2009, for additional project work. (\$8,753 (fee); 2012)

Fifi Island/Bayou Rigaurd Water Line Location, Town of Grand Isle, Jefferson Parish, LA. BFM's surveying services located a 16-inch water line utility in Fifi Island and Bayou Rigaurd in Grand Isle, Louisiana. (\$3,178 (fee); 2010)

Locate 16-inch Water Line between Valve Stations 18 & 24, Grand Isle, Jefferson Parish, LA. BFM provided surveying services to locate the water line situated between valve stations 18 and 24 in Grand Isle. (\$133,444 (fee); 2014)

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:

32 years (joined BFM in 1990); 32 years total (1990)

Education: Degree(s)/Year/Specialization:

High School Diploma

Active registration: Year first registered/discipline:

*American Traffic Safety Service Assn. – Traffic Flagger
Transportation Work Identification Card (TWIC)*

Other experience and qualifications relevant to the proposed Project:

Mr. Barrios' surveying experience includes boundary, hydrographic, and topographic. He has worked on location and performed topographic surveys for a number of major projects.

Belle Chasse Water Plant Intake, Belle Chasse, Jefferson Parish, LA. BFM provided bathymetric surveying services for the project. (\$14,804 (fee); 2016)

Locate 16-inch Water Line between Valve Stations 18 & 24, Grand Isle, Jefferson Parish, LA. BFM provided surveying services to locate the water line situated between valve stations 18 and 24 in Grand Isle. (\$133,444 (fee); 2014)

Iris Avenue Water Line Replacement, Jefferson Parish, LA. BFM provided topographic surveying services for the Iris Avenue Water Line Replacement, which included the area from River Road to Jefferson Highway. (\$18,493 (fee); 2011)

Grand Isle Water Main Location, Jefferson Parish, LA. BFM provided all surveying services associated with the location of the Grand Isle water main. (\$20,000 (fee); 2002)

Water Main Installation, Live Oak Boulevard, West Bank, Jefferson Parish, LA. BFM provided topographic surveying services for the project. (\$20,000 (fee); 1998)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Eric Gladney
Survey Crew Chief

Project Assignment:

Survey Crew Chief

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years experience with this Firm:

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

Education: Degree(s)/Year/Specialization:

High School Diploma

Active registration: Year first registered/discipline:

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

Other experience and qualifications relevant to the proposed Project:

Lower Lafitte Waterline Stakeout, Jefferson Parish, LA. BFM provided stakeout surveying for the project, staking the water line every 50 feet (with 4 ft. wooden stakes). (\$10,380 (fee); 2016)

East Jefferson Water Works – River Road, Jefferson Parish, LA. BFM's surveying services for the project involved the location of existing water lines/pipes for the East Jefferson Water Works located on River Road in Jefferson Parish. (\$2,070 (fee); 2017)

River Road Water Line Replacement, Jefferson Parish, LA. As directed by the Project Engineer, BFM provided topographic surveying services for the project, which extended from Rivet Boulevard to Willswood Drive. This project was part of the Louisiana Department of Health and Hospitals (LDHH) Clean Drinking Water loan program. (\$84,700 (fee); 2015)

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

Belle Chasse Water Plant Intake, Belle Chasse, Jefferson Parish, LA. BFM provided bathymetric surveying services for the project. (\$14,804 (fee); 2016)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Jeff Patin

Survey Crew Chief

Project Assignment:

Survey Crew Chief

Name of Firm with which associated:

BFM CORPORATION, LLC
Professional Land & Hydrographic Surveying

Years experience with this Firm:

3 years (joined BFM in 2019); 23 years total (1999)

Education: Degree(s)/Year/Specialization:

High School Diploma

Active registration: Year first registered/discipline:

Transportation Work Identification Card (TWIC)

Other experience and qualifications relevant to the proposed Project:


Mr. Patin has worked as a Survey Crew Chief and Instrumentman for 20 years for a number of southeastern Louisiana surveying firms on projects throughout the region. His work history includes supervision of field crew personnel, operation of various survey equipment (Topcon GPT, Leica GPS, Total Station, etc.), calculations, information collection, and any & all work required to execute the survey and obtain the information needed. Mr. Patin has worked on projects for various public & private clients, and has performed field work under the direction of the Corps of Engineers.

Town Center Water Well, City of Slidell, LA. BFM's surveying scope included topographic and boundary surveying services for the project. (\$16,533 (fee); 2019)


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

5th & 9th Sewer Lift Station Upgrades, Harvey, Jefferson Parish, LA. BFM's scope involved a topographic survey of the project site, located at the intersection of 5th Avenue & 9th Street. Cross sections were taken on a 25 ft grid within limits. (\$6,790 (fee); 2019)


TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Anthony Watson CADD Technician
Project Assignment:
CADD Technician
Name of Firm with which associated:
 Professional Land & Hydrographic Surveying
Years experience with this Firm:
11 years (joined BFM in 2011); 31 years total (1992)
Education: Degree(s)/Year/Specialization:
<i>Coursework - CAD, Avatech Solutions, Los Colinas, TX</i>
Active registration: Year first registered/discipline:
NA
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Watson has experience as a draftsman/CADD technician, having started his career as an intern with the Surveying Department of the City of Plano, TX. His experience through the years includes manual and computer-aided drafting for a wide range of projects, ranging from small lot surveys to subdivisions to municipal treatment and private industrial plants. He has experience in all facets of surveying (boundary, topographic, ALTA/ACSM, plan & profile, etc.) in both drafting and field environments.</p> <p>Lower Lafitte Waterline Stakeout, Jefferson Parish, LA. BFM provided stakeout surveying for the project, staking the water line every 50 feet (with 4 ft. wooden stakes). (\$10,380 (fee); 2016)</p> <p>Locate 16-inch Water Line between Valve Stations 18 & 24, Grand Isle, Jefferson Parish, LA. BFM provided surveying services to locate the water line situated between valve stations 18 and 24 in Grand Isle. (\$133,444 (fee); 2014)</p> <p>East Bank Water Treatment Plant Improvements, Jefferson Parish, LA. BFM provided surveying services for Tasks 1 (topographic) and 2 (boundary) of the project, part of a major improvements project for the East Bank Water Treatment Plant in Jefferson Parish. (\$24,465 (fee); 2016)</p> <p>Evans Road Waterline Repair – Mississippi River Levee Cross Section, Jefferson Parish, LA. BFM provided cross section surveying services for the Evans Road Levee profiles as requested by the Parish in order to obtain USACE permitting. The cross section view showed the existing levee cross section, the design levee cross section, and the proposed excavation sites. (\$4,485 (fee); 2012)</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Shaun Clements CADD Technician
Project Assignment:
CADD Technician
Name of Firm with which associated:
 BFM CORPORATION, LLC Professional Land & Hydrographic Surveying
Years experience with this Firm:
4 years (joined BFM in 2018); 7 years total (2015)
Education: Degree(s)/Year/Specialization:
Associates of Applied Sciences, 2015, Computer Drafting and Design (ITT)
Active registration: Year first registered/discipline:
NA
Other experience and qualifications relevant to the proposed Project:
<p>North Arnoult Drainage Pump Station Improvements, Jefferson Parish, LA. BFM's project services included both boundary and topographic surveying of the project site. (\$6,870 (fee); 2019)</p> <p>Sewer Lift Station L-13-6, Ehret Road, Marrero, Jefferson Parish, LA. BFM's surveying scope involved topographic and boundary surveying services. (\$8,790 (fee); 2019)</p> <p>Holly Drive Drainage Project, Lewisburg Estates Subdivision, Mandeville, St. Tammany Parish, LA. BFM provided boundary with topographic surveying of the project site (multiple lots) in the Lewisburg Estates Subdivision for this drainage project. (\$13,392 (fee); 2019)</p> <p>Avenue D Drainage Improvements (Phase VIII: Allo Street), Metairie, Jefferson Parish, LA. BFM executed a Route Topographic Survey for the project; the full scope plan & profile included all services, utilities, properties, elevations and items necessary to perform any and all engineering and construction work. The project area (Allo Street) extended from 4th Street to 6th Street. (\$12,855 (fee); 2019)</p> <p>West Bank Bus Stop Improvements, Jefferson Parish, LA. BFM's surveying services involved topographic surveying (25 ft grid) for multiple bus stop locations (AV26, AV27, AV3 (6 sites), AV40, AV42, AV43, AV44, AV45, AV47, AV65, AV74, AV76, HL67, MR44, MR52). (\$26,622 (fee); 2019)</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Kevin A. Roberts CADD Technician
Project Assignment:
CADD Technician
Name of Firm with which associated:
 Professional Land & Hydrographic Surveying
Years experience with this Firm:
4 years (joined BFM in 2018); 37 years total (1985)
Education: Degree(s)/Year/Specialization:
A.D., 1999, Drafting & Design, Louisiana Technical College <i>Coursework, 1994-1997, Nunez Community College</i> <i>Coursework, 1984-1988, Delgado Community College</i> <i>Coursework, 1982-1983, University of New Orleans</i>
Active registration: Year first registered/discipline:
NA
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Roberts has experience with civil engineering, offshore engineering, water purification systems, and general architectural and construction design & terminology. He obtained his A.D. in Drafting in 1999, and has taken additional coursework throughout his career.</p> <p>Town Center Water Well, City of Slidell, LA. BFM's surveying scope included topographic and boundary surveying services for the project. (\$16,533 (fee); 2019)</p> <p>Lapalco Boulevard Bridge at Harvey Canal, Jefferson Parish, LA. BFM provided extensive surveying services for a topographic survey and right-of-way (ROW) determination for the project. Project elements included setting GPS Static Control (5 permanent control points), traversing a proposed survey line, and land topography surveying. Additional phases included hydrographic topography of the project area, the right-of-way determination, and subsurface utility engineering (SUE). A Route Topographic Survey was also included as part of the scope. (\$575,738 (fee); 2019)</p> <p>5th & 9th Sewer Lift Station Upgrades, Harvey, Jefferson Parish, LA. BFM's scope involved a topographic survey of the project site, located at the intersection of 5th Avenue & 9th Street. Cross sections were taken on a 25 ft grid within limits. (\$6,790 (fee); 2019)</p>

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:



Years experience with this Firm:

13 years (joined BFM in 2009); 25 years total (1997)

Education: Degree(s)/Year/Specialization:

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

Active registration: Year first registered/discipline:

NA

Other experience and qualifications relevant to the proposed Project:

East Bank Water Treatment Plant Improvements, Jefferson Parish, LA. BFM executed a boundary survey, utilizing Laser Scan P3, for an As-Built Utilities survey. This included draft surveying (in conjunction with the Prime Firm) as well as provision of final survey as directed. In a later phase, BFM provided topographic and boundary surveying services. (\$154,770 (fee); 2017)

East Jefferson Water Works – River Road, Jefferson Parish, LA. BFM's surveying services for the project involved the location of existing water lines/pipes for the East Jefferson Water Works located on River Road in Jefferson Parish. (\$2,070 (fee); 2017)

Locate 16-inch Water Line between Valve Stations 18 & 24, Grand Isle, Jefferson Parish, LA. BFM provided surveying services to locate the water line situated between valve stations 18 and 24 in Grand Isle. (\$133,444 (fee); 2014)

Waterline Location, Lower Lafitte Shoreline Stabilization, Jefferson Parish, LA. BFM provided surveying services associated with the location of a 16 in plastic waterline in the Barataria Waterway as part of the Lower Lafitte Shoreline Stabilization project. (\$27,825 (fee); 2011)

Hydrological Survey of the East Bank Water Treatment Plant Intake Basin, Jefferson Parish, LA. BFM provided hydrological surveying services for the project. (\$4,975 (fee); 2010)

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:	
East Bank Water Treatment Plant Improvements Project (including Laser Scanning), Jefferson Parish, Louisiana Stantec 1340 Poydras Street, Suite 1420 New Orleans LA 70112 Jeffrey Sapia, P.E., 225-926-3991 jeffrey.sapia@stantec.com		BFM provided surveying services for Tasks 1 (topographic) and 2 (boundary) of the project, part of a major improvements project for the East Bank Water Treatment Plant located at 3600 Jefferson Highway in Jefferson Parish. This included executing a 3D Laser Scan for an As-Built Utilities survey. Draft surveying (in conjunction with the Prime Firm) as well as provision of final survey were prepared as directed.	
Completion Date (Actual or estimated):		Estimated Cost:	
		Entire Project:	Work for which Firm was Responsible:
2017 June		N/A	\$166,230 (fee)

PROJECT NO. 2

Project Name, Location, and Owner's Contact Information:		Nature of Firm's Responsibility:	
River Road Water Line Replacement, 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		As directed by the Project Engineer, BFM provided topographic surveying services for the project, which extended from Rivet Boulevard to Willswood Drive. This project was part of the Louisiana Department of Health and Hospitals (LDHH) Clean Drinking Water loan program.	
Completion Date (Actual or estimated):		Estimated Cost:	
		Entire Project:	Work for which Firm was Responsible:
2015 June		N/A	\$84,700 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
East Bank Water Treatment Plant Project – Water and Utility Line Survey, Jefferson Parish, Louisiana Stantec Consulting Services, Inc. 1340 Poydras Street, Suite 1420 New Orleans LA 70112 Jeffrey Sapia, P.E., 225-926-3991 jeffrey.sapia@stantec.com	BFM's surveying services, as part of Task Order No. 3 of the project, involved BFM's location of exposed water or utility lines after said lines were excavated by another firm. Horizontal location and vertical elevation, at top of pipe, was recorded along with the pipe size and type. Field data was processed to add to the existing topographic survey, previously executed by BFM.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018 October	N/A	\$19,703 (fee)

PROJECT NO. 4		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
River Road Water Line, Waggaman, 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	As requested by the Project Engineer, BFM provided water line location & general surveying services for the project, which extended from the St. Charles Parish line to Rivet Boulevard in Waggaman.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2012 November	N/A	\$43,211 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
Belle Chasse Water Plant Intake, Belle Chasse, Jefferson Parish, Louisiana Kyle Associates, LLC 638 Village Lane North Mandeville LA 70471 Phil O. Nelson, P.E., 985-727-9377 pnelson@kyleassociates.net	BFM provided bathymetric, boundary and topographic surveying services for the project. Improvements on the site were located, as well as visible above-ground utilities & underground utilities with visible surface evidence. Existing storm sewer and sanitary sewers were located using top of casing; invert elevations were provided on the survey. Bathymetric surveys were tied to the U.S. Army Corps of Engineers baseline. Deliverables included indelible prints and AutoCAD DWG format drawing files	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2016 July	N/A	\$14,804 (fee)

PROJECT NO. 6		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
Central Avenue Project (including location of Municipal Water Line), Metairie, Jefferson Parish, Louisiana Principal Engineering 1011 N Causeway Blvd Suite 19 Mandeville LA 70471 Tyler Gaspard, E.I., 985-624-5001 tyler@principal-engineering.com	BFM provided topographic surveying services for the Central Avenue project, which extended from Airline Highway to Karen Drive. This included location of utilities, notably the municipal water line.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2014 February	N/A	\$14,580 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
East Jefferson Water Works – River Road, Jefferson Parish, Louisiana Stantec 1340 Poydras Street, Suite 1420 New Orleans LA 70112 John Catalanotto, P.E., 504-234-1556 john.a.catalanotto@stantec.com	BFM's surveying services for the project involved the location of existing water lines/pipes for the East Jefferson Water Works located on River Road in Jefferson Parish.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2017 June	N/A	\$2,070 (fee)

PROJECT NO. 8		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
Lower Lafitte Waterline Project, Jefferson Parish, Louisiana CB&I 2424 Edenborn Avenue Suite 450 Metairie LA 70001 Gene S. Gillen, P.E., 504-832-4881 gene.gillen@cbi.com	BFM provided stakeout surveying for the project, staking the water line every 50 feet (with 4 ft. wooden stakes).	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2017 January	N/A	\$10,380 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
Locate 16-inch Water Line between Valve Stations 18 & 24, Grand Isle, Jefferson Parish, Louisiana Jefferson Parish Water Department 1221 Elmwood Park Blvd Ste 909 Jefferson LA 70123 R. Douglas Vincent, P.E., 504-838-4363 JPWater@jeffparish.net	BFM provided surveying services to locate the water line situated between valve stations 18 and 24 in Grand Isle.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2014 August	N/A	\$133,444 (fee)

PROJECT NO. 10		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
Waterline Location, Lower Lafitte Shoreline Stabilization, Jefferson Parish, Louisiana Shaw Coastal Post Office Box 98519 Baton Rouge LA 70884 Gene Gillen, P.E., 225-932-2500	BFM provided surveying services associated with the location of a 16 in plastic waterline in the Barataria Waterway as part of the Lower Lafitte Shoreline Stabilization project.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2011 August	N/A	\$27,825 (fee)

TEC Professional Services Questionnaire

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

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

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

BFM CORPORATION, LLC

Professional Land & Hydrographic Surveying

CRITERIA 1 • PROFESSIONAL TRAINING AND RELEVANT PROJECT EXPERIENCE

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

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

Our capabilities include the following and more:

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

TEC Professional Services Questionnaire

N. continued.

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

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

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

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

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

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

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

TEC Professional Services Questionnaire

N. continued.

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

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

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

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

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

CRITERIA 3 • LOCATION OF PRINCIPAL OFFICE

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

CRITERIA 4 • ADVERSARIAL LEGAL PROCEEDINGS WITH PARISH

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

CRITERIA 5 • PRIOR SUCCESSFUL COMPLETION OF PROJECTS

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

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

TEC Professional Services Questionnaire

N. continued.

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

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

CRITERIA 6 • SIZE OF FIRM

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

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

CRITERIA 7 • PAST PERFORMANCE ON PARISH CONTRACTS

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

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

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

Signature: _____

Print Name: _____

Chad M. Poché, P.E.

Title: _____

Executive Vice President

Date: _____

March 14, 2022

ECM Consultants, Inc.

1301 Clearview Parkway, Suite 200, Metairie, Louisiana 70001