



Client Focused. Technology Driven.

May 26, 2021

Mr. Renny Simno
Director of Purchasing, Jefferson Parish
J.P. General Government Building
200 Derbigny Street, Suite 4400
Gretna, LA 70053

Via Electronic Submission
CentralAuctionHouse.com

RE: Res. No. 137449 Rehabilitation of the Transcontinental & Belle Lift Station
(E8-1) (SOQ 21-008)
Statement of Qualifications / TEC Professional Services Questionnaire of
C. H. Fenstermaker & Associates, L.L.C.

Dear Mr. Simno:

Fenstermaker is pleased to submit our Statement of Qualifications / TEC Professional Services Questionnaire to provide Professional Engineering Services related to the rehabilitation of the Transcontinental & Belle Lift Station. Fenstermaker has provided engineering services within the State of Louisiana for over 70 years. Today, the firm boasts nearly 300 full-time employees and continues to be a firm of choice for many of our clients across the State and region.

Joining the Fenstermaker Team are the highly respected firms of Eustis Engineering, L.L.C. and Marrero, Couvillon & Associates, L.L.C., who will provide their expertise and services.

The Fenstermaker Team will provide Jefferson Parish with the following benefits to ensure successful project completion:

- ✓ *Trusted leadership*
- ✓ *Local knowledge*
- ✓ *Successful completion of past improvement projects*
- ✓ *Office Location in New Orleans*

A diligent review of the request for qualifications has been performed, along with observations by Fenstermaker personnel who are a part of the local community familiar with the Jefferson Parish area. The Fenstermaker Team clearly understands the scope of services required for the planned lift station rehabilitation and will make a firm commitment to provide professional services on-time and on-budget.

Thank you for the opportunity to present our credentials and we look forward to hearing from you. Should you have any questions regarding our submittal or qualifications, please do not hesitate to contact Project Manager, Stefan Bourgeois, or Principal, Luke Hebert, at (504) 582-2201.

C. H. FENSTERMAKER & ASSOCIATES, L.L.C.

Stefan Bourgeois

Stefan Bourgeois, P.E. – Engineering Manager
stefan@fenstermaker.com | (504) 582-2201

Luke Hebert

Luke Hebert, P.E., CFM – Principal
luke@fenstermaker.com | (504) 582-2201

Attachment

1100 Poydras Suite 1550 · New Orleans, LA 70163 · 504.582.2201 phone · 504.582.2210 fax
www.fenstermaker.com

C. H. Fenstermaker & Associates, L.L.C.

LA Survey Firm Reg. No. VF.0000154. LA Engineering Firm Reg. No. EF.0000311. TX Survey Firm Reg. No. 10028500. TX Engineering Firm Reg. No. F-7855.

Technical Evaluation Committee (TEC) Questionnaire

Instructions

- The Technical Evaluation Committee (TEC) Questionnaire shall be used for professional services related to architecture, engineering, or survey projects.
- The TEC Questionnaire must be completely filled out. Complete ALL sections. Insert “N/A” or “None” if a section does not apply or if there is no information to provide.
- Questionnaire must be dated and signed by an authorized representative of the Firm.
- All subcontractors must be listed in the appropriate section of the Questionnaire. All subcontractors must provide a fully completed copy of this questionnaire, applicable licenses, and any other information required by the advertisement.
- If additional pages are needed, attach them to the questionnaire and include all applicable information that is required by the questionnaire.
- Failure to properly complete this TEC Professional Services Questionnaire will result in the proposal being deemed not qualified pursuant with Section 2-928(a) of the Jefferson Parish Code of Ordinances, and the proposal will not be evaluated or scored.

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Rehabilitation of the Transcontinental & Belle Lift Station (E8-1) (SOQ 21-008) – Res. No. 137449

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

C. H. Fenstermaker & Associates, L.L.C.
1100 Poydras St. Suite 1550
New Orleans, LA 70163

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:

Luke Hebert, P.E., CFM, Director, Engineer
504-582-2201; luke@fenstermaker.com

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

Stefan Bourgeois, P.E., Engineer Manager
504-582-2201; stefan@fenstermaker.com

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

<u>37</u> Administrative	<u>0</u> Estimators	<u>0</u> Specification Writers
<u>0</u> Architects (Licensed)	<u>0</u> Geologists	<u>0</u> Structural Engineers
<u>0</u> Chemical Engineers	<u>1</u> Geotechnical Engineers	<u>0</u> Graduate Engineers
<u>22</u> Civil Engineers	<u>0</u> Interior Designers	<u>28</u> Project Managers
<u>11</u> Construction Inspectors	<u>0</u> Landscape Architects	<u>5</u> Clerical
<u>29</u> Ecologists	<u>104</u> Land Surveyor (field crew)	<u>1</u> Grant/Funding Specialist
<u>0</u> Electrical Engineers	<u>0</u> Mechanical Engineers	<u>0</u> Sanitary Engineers
<u>16</u> Engineer Intern	<u>0</u> Environmental Engineers	
<u>15</u> Professional Land Surveyors	<u>6</u> CADD Technicians	<u>275</u> TOTAL

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

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

TEC Professional Services Questionnaire

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

1. N/A

2.

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

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

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. Eustis Engineering L.L.C. 3011 28th Street Metairie, LA 70002	Geotechnical Engineering	Yes
2. Marrero, Couvillon & Associates, L.L.C. 3525 Hessmer Ave. Suite 304 Metairie, LA 70002	Mechanical & Electrical Engineering	No

J. Please specify the total number of support personnel that may assist in the completion of this Project:
 5

TEC Professional Services Questionnaire

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

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Stefan Bourgeois, P.E.
Manager, Engineer

Project Assignment:

Project Manager, Engineer

Name of Firm with which associated:

C. H. Fenstermaker & Associates, L.L.C.

Years' experience with this Firm:

11 Years

Education: Degree(s)/Year/Specialization:

B.S. / 2009 / Civil Engineering

Active registration: Year first registered/discipline:

2014 / Professional Engineer / LA - License #38623

Other experience and qualifications relevant to the proposed Project:

Stefan Bourgeois, P.E., is a Senior Engineer with over 12 years of professional experience in design, planning, municipal code development and review, construction engineering, and project management. He is the Office Manager for Fenstermaker's New Orleans office. In addition to Mr. Bourgeois has been the engineer of record for the design of over 10 lift stations and various project types such as hydraulic modeling and analysis, wastewater collection and pumping design, wastewater treatment design, water distribution and treatment design, roadway and drainage design.

Andre St. Drainage and Utility Improvements (Lafayette Parish, LA) Project Engineer: This project consists of improving approximately 1,200 feet of drainage channel with concrete lining and articulated block mat. One major lift station will be upgraded in the project to allow for the channel improvements. The new lift station will serve as Carencro's largest lift station pumping up to 3.2 MGD for present day demand and 9.5 MGD for the 20-year planning period. The project consists of a 16" sewer force main and 21" sewer gravity main. Mr. Bourgeois directed all efforts related to design, survey, geotechnical coordination, right-of-way and servitude acquisitions, plans production, and utility coordination.

Francois Street Lift Station & Manola Drive Lift Station (Carencro, LA): The new Post Road wastewater treatment plant is being designed to treat all wastewater flow from the entire city and replace the existing Manola Drive and Post Road WWTPs. Currently, the Francois Street Lift Station pumps wastewater to the Manola Drive Lift Station. From there, the flow is pumped into the Manola Drive WWTP. To pump wastewater to the new Post Road WWTP, this process will be reversed and will require the Manola Drive WWTP Lift Station to be upgraded and pump to a new Francois Street Lift Station. Mr. Bourgeois served as an Engineer preparing preliminary and final plans and coordinated servitude acquisitions and negotiations.

Lift Station No. 15 Upgrade (French Colony) (Carencro, LA) Project Manager & Lead Engineer: Fenstermaker prepared plans and specifications for the City of Carencro's Lift Station No. 15 Upgrade. The upgrades consisted of replacing the existing suction lift pumps with submersible pumps, relocating the control panel, and adding a SCADA System and valve pit. A breaker panel for

TEC Professional Services Questionnaire

Continued - Other experience and qualifications relevant to the proposed Project: Stefan Bourgeois, P.E.

emergency power and a by-pass pumping system were also added. Mr. Bourgeois served as Project Manager and Lead Engineer, coordinating with Louisiana Facility Planning & Control (FP&C), coordinated permitting and surveying tasks, and lead construction administration efforts.

2014 Lift Station Upgrades (Carencro, LA): Fenstermaker prepared plans and specifications for the City of Carencro's 2014 Lift Station Upgrades, which included the Railroad St., Andre St., and St. Pierre Lift Stations. Mr. Bourgeois served as the Engineer coordinating with the City, coordinating survey tasks, preparing preliminary and final plans, specifications, DHH permit applications, GOHSEP funding, and construction administration.

West Gloria Switch Lift Station Upgrades (Carencro, LA): Fenstermaker prepared plans and specifications for the City of Carencro's West Gloria Switch Lift Station Upgrade. This upgrade included the installation of new electrical and mechanical equipment such as PLCs, SCADA System, pumps, piping, and valves. The project also included elevating the existing wet well and control panel above the 100-year base flood elevation. The lift station can remain completely operational and accessible during the 100-year storm. Mr. Bourgeois participated throughout the entire design process in preparing construction plans and specifications. He led the coordination effort between the client, electrical engineer, and permitting agencies.

Additional key projects, other than the projects listed in Section L, include:

Post Road Wastewater Treatment Plant (Carencro, LA) Project Engineer: This project consists of the design of a proposed activated sludge wastewater treatment plant for the City of Carencro. The plant will be capable of treating up to 2.0 MGD and will replace two existing plants that each treat 0.5 MGD. The design consists of a plant lift station, preliminary treatment unit, sequencing batch reactors, chlorine contact chambers, post aeration basins, chlorine gas disinfection, sludge holding tanks, and a centrifuge for sludge dewatering. Mr. Bourgeois serves as Project Engineer and is responsible for the project's success.

North Ground Storage/Pumping Facility, Lafayette Utilities System (Lafayette Parish, LA) Project Engineer: This project included the design of plans and specifications for a new 750,000-gallon ground storage water tank, including hydraulic design of pumps, valves, and piping as well as a new sodium hypochlorite injection system, site and civil design, fencing and driveway layouts, coordination for electrical controls, and supplemental support services. In addition, Fenstermaker implemented a new design system within an existing operating system.

Hector Connoly Wastewater Lift Station Improvements (Carencro, LA) Project Engineer: This project consisted of design and layout for a new wastewater lift station, 1,600 feet of sewer force main, and 2,400 feet of 8" sewer main as the collection system. Mr. Bourgeois led the design efforts of the force main, pumps, valves, wet well size, and gravity sewer main. He supervised and coordinated all of the necessary right-of-way and servitude acquisitions as well as the resources for plans production.

East Pont des Mouton - Water and Sewer Improvement and Road Widening (Lafayette Parish, LA) Project Engineer: Mr. Bourgeois assisted with the design of the improvements to the sanitary sewer collection system (gravity and force main), the design of a new lift station, and improvements to the water distribution system, all construction and contract documents, production of construction plans, and construction administration for this roadway project. This sanitary sewer portion of this project entailed the design and installation of over 8,000 cumulative feet of 8", 15", 18", 21", and 24" gravity sewer lines, 1,500 feet of 10" force main, and a 2 MGD lift station. The project involved the installation of water and sewer mains while maintaining existing water and sewer service as well as continuous traffic on East Pont des Mouton.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Paul Zappi, P.E. Engineer III
Project Assignment:
Senior Engineer
Name of Firm with which associated:
C. H. Fenstermaker & Associates, L.L.C.
Years' experience with this Firm:
1.5 Years
Education: Degree(s)/Year/Specialization:
B.S. / 1988 / Civil Engineering M.S. / 1992 / Environmental Engineering
Active registration: Year first registered/discipline:
1996 / Civil Engineer / LA - License #0027031
Other experience and qualifications relevant to the proposed Project:
<p>Paul Zappi, P.E., is a Senior Engineer with over 32 years of experience working in environmental engineering. Over 22 of these years are in municipal water/wastewater engineering. He has experience in research, testing, computer modeling, planning, design, construction, operation, and maintenance relating a wide variety of W/WW facilities and pipelines. Mr. Zappi has experience working with numerous water, wastewater, sludge, chemical, and dredged material pumping systems; including centrifugal, progressive cavity, air lift, diaphragm, and other types, in both dry and submersible settings and involving a variety of manufacturers.</p> <p>Post Road Wastewater Treatment Plant and Sludge Dewatering Facility (Carencro, LA): This project consists of the design of a proposed activated sludge wastewater treatment plant for the City of Carencro. The plant will be capable of treating up to 2.0 MGD and will replace two existing plants that each treat 0.5 MGD. The design consists of a plant lift station, preliminary treatment unit, sequencing batch reactors, chlorine contact chambers, post aeration basins, chlorine gas disinfection, sludge holding tanks, and a centrifuge for sludge dewatering. Mr. Zappi was responsible for completing 90% of the design of the wastewater treatment plant.</p> <p><u>Additional key projects, other than the projects listed in Section L, include:</u></p> <p>City of Lafayette - Lafayette Utilities System – Project Engineer: Mr. Zappi worked as project engineer for several wastewater treatment plant expansion, rehabilitation, and odor control projects; worked as project engineer for LUS' wastewater collection system rehabilitation program; pilot tested several odor control systems; prepared conceptual and preliminary design of a lift station odor control system; performed air and water quality evaluations of two WW collection systems; conducted jar and performance testing of several odor control chemical feed systems; prepared preliminary design for relocation and improvement of gravity mains and force mains; developed preliminary design of Computerized Maintenance Management System for four WWTPs (Datastream MP3); prepared odor control system O&M videos; prepared private sewer system database; participated in emergency response to Hurricanes Lili and Rita; designed various small projects at an electric generating station; and supervised consultants, contractors, and six employees.</p> <p>City of Houston - Houston Water – Wastewater Operations Branch, Member of the Houston Water Innovation Hub Internal Working Group: Mr. Zappi has developed two initial calls for proposals and helped prepare and execute three MOUs for test projects (one dewatering and two bio-sludge reduction). He is also playing key role in the execution of</p>

TEC Professional Services Questionnaire

Continued - Other experience and qualifications relevant to the proposed Project: Paul Zappi, P.E.

these projects, as well as several related outreach efforts (e.g., AWWA YP site tour and Texas Water and AWWA/WEAT San Antonio Summer Seminar presentations). He is the Coordinator for Houston Water's National Biosolids Partnership's Environmental Management System, preparing revised EMS manual for City-wide implementation and Bronze-Level recognition and organizing initial Internal Audit efforts for Silver-Level Recognition. He is the Operation Division's lead for South Houston Region WWTPs (16 plants) projects under Houston Water's Capital Improvements Program (\$150M+ annual program).

City of Beaumont - Water Utilities Division, Technical Manager: Mr. Zappi served as Technical Manager of Beaumont Water Utilities (15 to 20 employees with \$10M annual CIP budget). He managed the Administration and Quality Control groups for the water and wastewater utilities. The Administration group, which includes engineers, project managers, and inspectors supervisors and staff, responsible for planning through execution of CIP program (W/WW plants and pipelines); TCEQ SSO Initiative (including lift station/collection system maintenance/rehabilitation program and Fat, Roots, Oil, and Grease program); O&M technical support (W/WW line and plants); service and supply contracts; process optimization; residential and commercial development projects; water and wastewater service/supply agreements; water rights agreements; and other administrative responsibilities. The Quality Control group, which includes project managers and inspectors' staff, responsible for TCEQ permits (wastewater and storm water), inspections, reporting, compliance communications, and other tasks; pretreatment program; back flow prevention program; and water quality efforts.

City of Austin – Water and Wastewater Pipeline Operations Technical Support: Mr. Zappi worked as Supervisor of Austin Water's W/WW Pipeline Operations Technical Support Group for three years. His groups provided technical support (project work orders, permitting, valve isolation, bypass pumping, etc.) for numerous point repairs on the City's water transmission and distribution lines, gravity WW lines and manholes, WW force mains, and reuse water force mains. He worked closely with the City's collection system rehabilitation group. Regarding lift stations and force mains, Mr. Zappi's group worked closely with Austin's lift stations group during force main repairs. Mr. Zappi was also supervisor of the City's odor control program; which involved testing, installation, through operation and maintenance of numerous LS/FM chemical feed and air treatment systems.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Luke Hebert, P.E., CFM Director, Engineer
Project Assignment:
Project Principal, QA/QC
Name of Firm with which associated:
C. H. Fenstermaker & Associates, L.L.C.
Years' experience with this Firm:
17 Years
Education: Degree(s)/Year/Specialization:
B.S. / 2003 / Civil Engineering
Active registration: Year first registered/discipline:
2009 / Civil Engineer LA - License #00 34715
Other experience and qualifications relevant to the proposed Project:
<p>Luke Hebert, P.E., CFM is an Engineering Director with over 17 years of experience in engineering design, planning, and project management. During his career, he has designed numerous lift stations, wastewater treatment plants, water treatment plants, various roadway types (i.e. local, collector, arterial, and freeway), surface and sub-surface drainage systems, interchanges, roundabouts, standard intersections, utility relocations, and site developments.</p> <p>Andre St. Drainage and Utility Improvements, Lafayette Parish, Louisiana, Project Manager: This project consists of improving approximately 1,200 feet of drainage channel with concrete lining and articulated block mat. One major lift station will be upgraded to allow for the channel improvements. The new lift station will serve as Carencro's largest lift station pumping up to 3.2 MGD for present-day demand and 9.5 MGD for the 20-year planning period. The project consists of a 16" sewer force main and 21" sewer gravity main. Mr. Hebert was the project manager and directed all efforts such as design, survey, geotechnical coordination, ROW and servitude acquisitions, plans production, and utility coordination.</p> <p>Francois Street Lift Station & Manola Drive Lift Station (Lafayette Parish, LA): The new Post Road wastewater treatment plant (WWTP) is being designed to treat all wastewater flow from the entire city and replace the existing Manola Drive and Post Road WWTPs. Currently, the Francois Street Lift Station pumps wastewater to the Manola Drive Lift Station. From there, the flow is pumped into the Manola Drive WWTP. To pump wastewater to the new Post Road WWTP, this process will be reversed and will require the Manola Drive WWTP Lift Station to be upgraded and pump to a new Francois Street Lift Station. Mr. Hebert was responsible for the design and layout of the lift station.</p> <p>West Gloria Switch Lift Station Upgrades (Carencro, LA) Project Manager: Mr. Hebert served as the Project Manager on this project. Fenstermaker prepared plans and specifications for the City of Carencro's West Gloria Switch Lift Station Upgrade. This upgrade included the installation of new electrical and mechanical equipment such as PLCs, SCADA System, pumps, piping, and valves. The project also included elevating the existing wet well and control panel above the 100-year base flood elevation. The lift station can remain completely operational and accessible during the 100-year storm.</p> <p>Post Road Wastewater Treatment Plant (Carencro, LA) Project Manager: Mr. Herbert served as the Project Manager. This project consists of the design of a proposed activated sludge wastewater treatment plant for the City of Carencro. The plant will be capable of treating up to 2.0 MGD and will replace two existing plants that each treat 0.5 MGD. The design consists of a</p>

TEC Professional Services Questionnaire

Continued - Other experience and qualifications relevant to the proposed Project: Luke Hebert, P.E., CFM

plant lift station, preliminary treatment unit, sequencing batch reactors, chlorine contact chambers, post aeration basins, chlorine gas disinfection, sludge holding tanks, and a centrifuge for sludge dewatering.

2014 Lift Station Upgrades (Carencro, LA) Project Manager: Mr. Hebert served as Project Manager. Fenstermaker prepared plans and specifications for the City of Carencro's 2014 Lift Station Upgrades, which included the Railroad St., Andre St., St. Pierre Lift Stations. Fenstermaker also provided oversight of construction activities which included increasing pump capacities for all stations, replacing pump controls and control panels, and raising elevations of pertinent components, such as wet well tops and control panels, above the flood elevation.

Additional key projects, other than the projects listed in Section L, include:

CDBG Sewer Rehabilitation Project (Lafayette Parish, LA) Project Manager: Mr. Hebert served as Project Manager for the construction administration through coordination between the contractor, sub-contractor, the client, and planning associates. Fenstermaker led the construction administration of the City of Carencro's sewer rehab project, identifying problematic sewer mains, sewer services, and manholes allowing a non-sewer influx into the City's sewer treatment plants. Fenstermaker was responsible for the production of construction plans, all construction and contract documents, and construction administration.

Carencro New Water Treatment Plant (Lafayette Parish, LA) Design Engineer: Fenstermaker designed a new water treatment facility to replace the existing water treatment plant. This new 7,820 SQFT cinder block masonry building was designed to house four greensand filters 12' in diameter, one 6,000-gallon caustic soda and one 6,000-gallon sodium permanganate tank, a complete chlorination room, and a Master Control Center (MCC). The new design included a SCADA system, which allows the plant operator to monitor and control the operations of the plant from remote locations. The proposed plant also facilitates the production of 2 MGD. Provisions were made to allow the expansion of water production volume to 4 MGD. The designs also incorporated a unique feed system for caustic soda and sodium permanganate, eliminating the need for continuous dry delivery batching. This feed system design will reduce the city's labor costs and lower the risk of possible injury to workers handling the chemicals. Fenstermaker completed all permit applications required for the construction.

North Ground Storage-Lafayette Utilities System (Lafayette, LA) Project Engineer: This project included the design and preparation of plans and specifications for the construction of a new 750,000-gal ground storage water tank, including hydraulic design of 1,100 GPM pumps, valves, and piping, as well as a new sodium hypochlorite injection system, site and civil design, fencing and driveway layouts, coordination for electrical controls and any supplemental support services. The project was unique in the sense of implementing a new design system within an existing and already operating system. Fenstermaker was responsible for all aspects of this project such as design, survey, construction administration, and consultant coordination.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title: Mustafa Afaneh, E.I. Engineer Intern
Project Assignment: Engineer Intern
Name of Firm with which associated: C. H. Fenstermaker & Associates, L.L.C.
Years' experience with this Firm: <1 Year
Education: Degree(s)/Year/Specialization: B.S. / 2018 / Civil & Environmental Engineering
Active registration: Year first registered/discipline: 2019 / Engineer Intern / LA - License #0034198
Other experience and qualifications relevant to the proposed Project: Mustafa Afaneh, E.I. is an Engineer Intern with over 2 years of experience in engineering design within the traffic, civil, and structural sectors. His expertise extends into foundation, civil, and structural engineering. In addition, Mr. Afaneh has successfully served as the lead project coordinator for multiple civil designs including storm water management plans. City of Scott Wastewater Treatment Plant (Lafayette Parish, LA): As the City Engineer for City of Scott, Fenstermaker is assisting the city with the expansion of the existing wastewater treatment plant. Mr. Afaneh is assisting as an Engineer Intern, providing engineering services. He has attended the kickoff meeting with the City to evaluate the issues concerning the plant and is assisting the lead engineer with formulating a solution to meet the City's future population needs and to ensure that the plant is functioning at maximum efficiency. FEMA RR021 - Central City Group A (New Orleans, LA): Fenstermaker was contracted to provide professional engineering design and construction administration services for FEMA-eligible street repairs in the Central City neighborhood. Mr. Afaneh is assisting the project team in the final coordination and construction administration phase. FEMA RR105 – Lower Ninth Ward Group C (FRC) (New Orleans, LA): Fenstermaker was contracted to provide professional engineering design and construction administration services for FEMA-eligible street repairs in the Lower Ninth Ward neighborhood. Mr. Afaneh is assisting the project team in the final coordination and construction administration phase. FEMA RR045 – Filmore South Group D (FRC) (New Orleans, LA): Mr. Afaneh is serving as the Engineer Intern and is responsible in assisting the project team with preparation of final design, construction documents, and specifications. Fenstermaker was contracted to provide engineering design and construction services for FEMA-eligible street repairs in the Filmore South neighborhood.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Ryne Tanner Engineering Technician, III
Project Assignment:
CAD Technician
Name of Firm with which associated:
C. H. Fenstermaker & Associates, L.L.C.
Years' experience with this Firm:
14 Years
Education: Degree(s)/Year/Specialization:
Diploma / 2011 / Drafting & Design Technology
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>Ryne Tanner is an Engineering Technician at Fenstermaker. He works closely with professional engineers to complete design drawings for roadway projects, structural designs, utility, and drainage plans. He is proficient in Bentley MicroStation, Bentley InRoads, AutoCAD, and Autodesk Revit.</p> <p>Evangeline Downs Lift Station (Lafayette Parish, LA): The new lift station is being designed to handle the existing service area currently associated with it as well as additional flows due to known and predicted future developments within the service area. The newly designed lift station will be able to handle a fluctuation in flow from the current Average Daily Flow of 113,000 gpd to the future Average Daily Flow of 600,000 gpd. Mr. Tanner is the Lead Engineering Technician, producing the preliminary and final plans and any necessary exhibits.</p> <p>Post Road Wastewater Treatment Plant (CarenCro, LA): This project consists of the design of a proposed activated sludge wastewater treatment plant for the City of CarenCro. The plant will be capable of treating up to 2.0 MGD and will replace two existing plants that each treat 0.5 MGD. The design consists of a plant lift station, preliminary treatment unit, sequencing batch reactors, chlorine contact chambers, post aeration basins, chlorine gas disinfection, sludge holding tanks, and a centrifuge for sludge dewatering. Mr. Tanner is the lead engineering technician and is producing preliminary and final plans.</p> <p>CarenCro Water Treatment Plant (Lafayette Parish, LA) Lead Engineering Technician: Fenstermaker designed a new water treatment facility to replace the existing water treatment plant. This new 7,820 square foot building is designed to house four, 12 feet in diameter greensand filters, one 6,000-gallon caustic soda tank and one 6,000-gallon sodium permanganate tank, a complete chlorination room, and a Master Control Center. Mr. Tanner served as the lead engineer technician in creating and completing final plans for this project.</p> <p>2013 Water and Sewer Improvements (Lafayette Parish, LA): Mr. Tanner served as engineer technician in charge of creating design plans for the layout of two Lift Stations and utility work in the City of CarenCro.</p>

TEC Professional Services Questionnaire

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

PROJECT NO. 1

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Church Street Lift Station (No. 4) City of Carencro, Lafayette Parish, LA City of Carencro PO Drawer 10 210 East St. Peter Street Carencro, LA 70520 Mayor Glenn L. Brasseaux (337) 896-8481	The Church Street Lift Station is an integral component of the city's wastewater collection system. Improvements included relocating the lift station above the 500-year BFE and increasing the capacity to account for future flows. Repairs included new submersible pumps, wet well, valve pit, piping, a new force main, and a control panel raised above flood elevations. Tasks included: upgrading the lift station to allow for future flow from 0.25 MGD to 2 MGD; designing and installing 600 feet of 24" gravity sewer main and 5,000 feet of 24" force main; platting, negotiating, and acquiring all necessary utility servitudes; and providing bidding, contracting, construction administration and full-time inspection on the project.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020	\$4,630,000 (Engineering, Planning and Construction Cost)	\$755,000 (Engineering and Planning Cost)

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
East Pont des Mouton – Water and Sewer Improvement and Roadway Widening City of Lafayette, Lafayette Parish, LA Lafayette Consolidated Government 705 University Avenue Lafayette, LA 70506 Jared Veazey, P.E. (337) 291-8590	Engineering design services were provided for the construction of a 1.4-mile, 4-lane divided curb and gutter roadway with raised median, sidewalks, subsurface drainage, and street lighting. 14,300' of subsurface drainage was installed including 1,400' of 84" RCP, over 8,000' of water distribution, 7,000' of wastewater line, a wastewater lift station, and coordination of many utility companies. Water and sewer utilities were relocated, and an upgrade of an undersized wastewater lift station to a major lift station capable of flowing 2.0 MGD. The sanitary sewer portion of this project entailed the design and installation of over 8,000' cumulative feet of 15", 18", 21", and 24" gravity sewer main, 1,500' of 10" force main with the lift station.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2019	\$16,500,000 (Engineering, Planning and Construction Cost)	\$1,620,000 (Engineering and Planning Cost)

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
Francois Street Lift Station & Manola Drive Lift Station City of Carencro, Lafayette, Parish, LA City of Carencro PO Drawer 10 210 East St. Peter Street Carencro, LA 70520 Mayor Glenn L. Brasseaux (337) 896-8481	The new Francois Street and Manola Drive Lift Stations are being designed to handle additional flows due to known and anticipated developments in the City. The Manola Lift Station is upgraded with two, 60 hp pumps, and the Francois Lift Station is upgraded with three, 85 hp pumps. The Francois Lift Station is below the 100-yr base flood elevation (BFE) and the project will elevate the wet well and control panel. The project included major roadway crossing of the forcemains under Interstate-49 and LA Highway 182. The total long-term future average daily flow is approximately 2.0 MGD, which will be serviced by the new Francois Street Lift Station. The upgraded Manola Drive WWTP Lift Station will service approximately 1.0 MGD.	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2022 (Estimated)	\$5,600,000 (Engineering, Planning and Construction Cost)	\$742,000 (Engineering and Planning Cost)

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Apollo Road Extension Utilities City of Scott, Lafayette Parish, LA City of Scott 125 Lions Club Road Scott, LA 70583 Mayor Jan-Scott Richard (337) 233-1130	The City selected Fenstermaker to design and construct water and sewer main extensions. The sewer extension part of the project included the installation of 6,888' of 8" sewer main and 2,300' of 6" sewer main. A lift station with a wet well and a valve pit were also installed. The lift station has submersible pumps and a designed pumping capacity of 180 gallons per minute (gpm). Fenstermaker based the capacity of the sewer system on the services needed to accommodate the projected 25-year growth identified in the City of Scott's Comprehensive Plan for Improved Development. Services included: preliminary plans; final plans and specs; topographic & boundary survey; construction administration; and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2017	\$1,600,000 (Engineering, Planning and Construction Cost)	\$143,000 (Engineering and Planning Cost)

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
West Gloria Switch Lift Station Upgrades City of Carencro, Parish of Lafayette, LA City of Carencro PO Drawer 10 210 East St. Peter Street Carencro, LA 70520 Mayor Glenn L. Brasseaux (337) 896-8481	The upgrade included retrofitting the existing wet well, new electrical and mechanical components, SCADA, and a new site. The wet well, control panel, and valves were elevated 1' above the 100-year base flood elevation. Unique planning and design techniques were utilized to raise the operating components well above the finished grade elevation for complete operability during major storm events. The existing valve pit was replaced with above ground valves and piping for ease of access. New submersible pumps were installed that increased the pumping capacity to 220 GPM. The design included variable frequency drives (VFD) for an operable pumping capacity. Oversight of construction activities was also provided by Fenstermaker.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018	\$285,000 (Engineering, Planning and Construction Cost)	\$73,000 (Engineering and Planning Cost)

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Lift Station No. 13 (Evangeline Downs) City of Carencro, Lafayette Parish, LA City of Carencro P.O. Drawer 10 210 East St. Peter Street Carencro, LA 70520 Mayor Glenn L. Brasseaux (337) 896-8481	The new Evangeline Downs Lift Station is being designed to handle the existing service area currently associated with it as well as additional flows due to known and predicted future developments within the service area. The existing lift station pumps wastewater through a 6" sewer force main 4,723' to the next sewer manhole, which eventually flows to the Manola Wastewater Treatment Plant. Calculations show that to handle additional future flows in the area, the 6" sewer force main would need to be replaced with a 10" force main. The newly designed lift station will be able to handle a fluctuation in flow from the current Average Daily Flow of 113,000 gpd to the future Average Daily Flow of 600,000 gpd.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
December 2021 (Estimated)	\$1,200,000 (Engineering, Planning and Construction Cost)	\$158,000 (Engineering and Planning Cost)

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Post Road Wastewater Treatment Plant and Sludge Dewatering Facility City of Carencro, Lafayette Parish, LA City of Carencro PO Drawer 10 210 East St. Peter Street Carencro, LA 70520 Mayor Glenn L. Brasseaux (337) 896-8481	Fenstermaker is designing an activated sludge wastewater plant and sludge handling facility. The plant includes a 2 MGD capacity with a peak capacity of 8 MGD and the ability to expand treatment capacity to an average daily flow of 4.0 MGD, and a peak wet weather flow of 16 MGD. The project includes construction of an onsite lift station; elevated headworks with mechanical screen; splitter box; 4 sequencing batch reactors; chlorine contact chamber; parshall flume; post aeration basin; effluent plant water system; testing laboratory; chlorine & sulfur dioxide storage buildings; maintenance and administrative buildings. The plant will have a Supervisory Control and Data Acquisition System motor control center with monitor/control via internet.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Ongoing – at 75% completion June 2024 (Estimated Construction Completion Date)	\$37,000,000 (Engineering, Planning and Construction Cost)	\$2,500,000 (Engineering and Planning Cost)

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
2014 Lift Station Upgrades City of Carencro; Lafayette Parish, LA City of Carencro PO Drawer 10 210 East St. Peter Street Carencro, LA 70520 Mayor Glenn L. Brasseaux (337) 896-8481	Plans and specifications were prepared for the City's 2014 Railroad St., Andre St., and St. Pierre Lift Station Upgrades. Fenstermaker provided oversight of construction activities which included increasing pump capacities for all stations, replacing pump controls and control panels, and raising elevations of pertinent components, such as wet well tops and control panels, 1' above the water surface elevation for the 100-year storm event. The lift station upgrades were funded through FEMA's Hazard Mitigation Grant Program (HMGP).	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018	\$1,000,000 (Engineering, Planning and Construction Cost)	\$230,000 (Engineering and Planning Cost)

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Louisiana Community Development Block Grant Sewer Rehabilitation City of Carencro; Lafayette Parish, LA City of Carencro PO Drawer 10 210 East St. Peter Street Carencro, LA 70520 Mayor Glenn L. Brasseaux (337) 896-8481	Fenstermaker assisted the City with a Louisiana Community Development Block Grant (LCDBG) application to identify/repair inflow and infiltration deficiencies in the existing wastewater collection system. A video inspection of the sewer main was completed and assessed conditional rating. The inspections resulted in the completion of over \$290,000 worth of service taps, joint and mainline repairs. Over 145,000 linear ft. of gravity sewer line was cleaned. Inspection data was used to apply for and receive additional funding for continued maintenance of the gravity sewer collection system. Fenstermaker was continually consulted regarding programmatic compliance regarding the LCDBG program during the life cycle of the project.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2012	\$610,000 (Engineering, Planning and Construction Cost)	\$90,000 (Engineering and Planning Cost)

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Lift Station No. 15 Upgrade (French Colony) City of Carencro; Lafayette Parish, LA City of Carencro PO Drawer 10 210 East St. Peter Street Carencro, LA 70520 Mayor Glenn L. Brasseaux (337) 896-8481	Fenstermaker prepared preliminary and final plans and specifications for the City of Carencro's Lift Station No. 15 Upgrade Project. The upgrades consisted of replacing the existing suction lift pumps with submersible pumps, relocating the control panel, and adding a Supervisory Control and Data Acquisition System (SCADA). The upgrades also included raising the wet well top and electrical system 1' above the water surface elevation for the 100-year storm event. Services included preliminary plans; final plans and specifications; and bidding and contracting.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2014	\$315,000 (Engineering, Planning and Construction Cost)	\$55,000 (Engineering and Planning Cost)

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:	
N/A		

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



Fenstermaker is a Louisiana-based consulting firm providing multidisciplinary services specializing in civil engineering, wastewater engineering, surveying and environmental services, with offices in New Orleans, Mandeville, Lafayette, Baton Rouge, Lake Charles, and Shreveport.

Fenstermaker maintains a diverse client base consisting of municipalities, state government, large, medium, and small companies in a variety of industries. Fenstermaker's highly qualified professional staff is supported by a technologically robust management system and continuity of operations, as most senior staff members have been with the firm for decades. **Fenstermaker is well equipped to assist Jefferson Parish with the design, bidding, and construction administration services associated with the design for the Rehabilitation of the Transcontinental & Belle Lift Station (E8-1).**

Fenstermaker stands behind our qualifications, the capabilities of our personnel, and the integrity of our work.

Fenstermaker's staff of highly qualified professionals can provide Jefferson Parish with the necessary knowledge and experience required to assist with this contract. With 71 years of engineering, surveying, and environmental experience in south Louisiana, Fenstermaker maintains a unique understanding of these types of projects and their relation to the Parish's current and future infrastructure needs.

The Fenstermaker Advantage:

- Municipal Wastewater Engineering Experience
- Commitment to Quality
- 71 Year Family-Run, Louisiana-based Firm
- Available New Orleans and Mandeville-based Staff
- Unique Wastewater Leadership on Staff

1) Professional training and experience in relation to the type of work required for the engineering services:

Fenstermaker has a dedicated utilities team that specializes in lift station design, gravity sewer and forcemain design, and wastewater treatment design. The key personnel that will work on this project have extensive experience in the required services.



Luke Hebert, P.E., CFM, will serve as the Project Principal and QA/QC, and fulfills **Minimum Requirements #1, #2, and #3**. Mr. Hebert is a registered professional civil engineer in the state of Louisiana with over **17 years of verifiable experience in sanitary sewer lift station design** and is Fenstermaker's lead utilities engineer on staff. Mr. Hebert has extensive experience designing the utilities on various lift station, wastewater treatment plant, and asset management projects. Mr. Hebert currently serves as the City Engineer for the City of Carencro and has experience obtaining funding through the United States Department of Agriculture and the Louisiana Department of Health for the completion of utility projects.



Stefan Bourgeois, P.E. will serve as the Project Manager and fulfills **Minimum Requirements #2 and #3**. A registered professional engineer in the state of Louisiana, he is the New Orleans Office Manager and has **12 years of verifiable experience in sanitary sewer lift station** and wastewater design. He has managed utility projects of various size and complexity and served as the consultant City Engineer for the City of Carencro for several years. He successfully worked with the City to acquire funding for utility projects, including the City's wastewater master plan to consolidate two wastewater plants into one, new plant.

TEC Professional Services Questionnaire



Paul Zappi, P.E., who has over **32 years of professional wastewater engineering** experience, will serve as **Senior Engineer** and provide engineering support. Over 22 of these years are in municipal water/wastewater engineering. He has experience in research, testing, computer modeling, planning, design, construction, operation, and maintenance relating a wide variety of water and wastewater facilities and pipelines. Mr. Zappi has experience working with numerous water, wastewater, sludge, chemical, and dredged material pumping systems; including centrifugal, progressive cavity, air lift, diaphragm, and other types, in both dry and submersible settings and involving a variety of manufacturers.



Joining the Fenstermaker Team to assist with **Geotechnical Engineering** is the highly respected firm of **Eustis Engineering L.L.C. (Eustis)**. Eustis is headquartered in Metairie, **less than five miles from the project location**. Eustis has worked on more than 25,000 projects since its inception. Over 4,000 of these projects were in Jefferson Parish, and more than 1,000 have involved sewer systems in some capacity.



Also joining the Fenstermaker Team assisting with Mechanical and Electrical Engineering, is the respected firm of **Marrero, Couvillion & Associates, LLC (MCA)**. MCA is an engineering design consulting firm with over fifty years of experience in engineering services, including mechanical, electrical, and plumbing (MEP) disciplines. MCA's certification as a Disadvantaged Business Enterprise (DBE) by the Unified Certification Program of the Louis Armstrong New Orleans International Airport, and the Louisiana Department of Transportation and Development (DOTD) adds value to many publicly funded projects.

2) Size of firm considering the number of professional and support personnel required to perform the type of engineering tasks, including project evaluation, project design, drafting of technical plans, development of technical specifications and construction administration:

Across our five south Louisiana offices (New Orleans, Mandeville, Lafayette, Baton Rouge, Lake Charles) we currently have 23 licensed Professional Engineers on staff supported by a strong team of 16 licensed Engineering Interns (E.I.) and CAD Technicians. At Fenstermaker, we focus on improving current conditions and developing new infrastructure to provide innovative, long-term solutions for over 35 years. Fenstermaker's Engineering Division works on small to large-scale projects for a wide range of clients.

3) Capacity for timely completion of newly assigned work, considering the factors of type of engineering task, current unfinished workload, and person or firm's available professional and support personnel:

Our New Orleans office, with staff from our Mandeville, Baton Rouge and Lafayette offices, is available to complete this project within the time allotted. Fenstermaker will make available any of its qualified and knowledgeable staff to complete the project on time and to Parish requirements. The Team is available and fully capable of performing the requirements for this contract on time and within budget. Fenstermaker has a long history of successful project management and understands the importance of timely project completion and cost control on municipal projects. Our project managers and engineers perform quality work in a timely and professional manner. Our team will work closely with the Parish to provide engineering services at the requested schedule. Fenstermaker's project managers meet weekly to review project status and review project budgets monthly. Fenstermaker possesses the engineering expertise and availability required to successfully complete this project.

4) Past Performance by person or firm on projects of or similar comparable size, scope, and scale. Assertions of fault by a person or firm, which shall include time delays, cost over-runs, and or design inadequacies in prior work completed for the Parish shall be evidenced by substantiating documentation provided by the Director of Public Works for the requesting department or the Director of Engineering and received by the Chairman of the Evaluation Committee a minimum of two (2) weeks prior to the scheduled date of the Technical Evaluation Committee meeting.

Fenstermaker has over 71 years of experience in south Louisiana and has performed services on projects for local governments for over 35 years, including engineering design, permitting, and agency coordination. We have provided

TEC Professional Services Questionnaire

services to the following public sector clients:

- City of New Orleans
- New Orleans Regional Planning Commission
- Ascension Parish Government
- Plaquemines Parish Government
- Plaquemines Parish School Board
- Southeast Louisiana Flood Protection Authority-East
- Orleans Levee District
- City of Gonzales
- City of Covington
- City of Baton Rouge and Parish of East Baton Rouge
- City of Denham Springs
- Calcasieu Parish Police Jury
- Cameron Parish Police Jury
- City of Lake Charles
- Lafayette Consolidated Government
- City of Carencro
- City of Scott
- City of Youngsville
- Iberia Parish
- Acadiana Planning Commission

5) Location of the principal office where work will be performed:

Fenstermaker's fundamental strength relies on a highly qualified professional staff supported by a technologically robust management system. Most senior staff members have been with the firm for several decades. Fenstermaker has maintained a permanent New Orleans office since 1986 and has strengthened the management structure in New Orleans. **This project will be managed through Fenstermaker's New Orleans office at 1100 Poydras Street, approximately 10 miles away from the project site.**

6) Adversarial legal proceedings between the Parish and the person or firm performing professional services, in which the Parish prevailed or any ongoing adversarial legal proceedings between the Parish and the person or firm performing professional services, excluding those instances or cases where the person or firm was added as an indispensable party, or where the person or firm participated in or assisted the public entity in prosecution of its claim:

Fenstermaker has never been engaged in any legal proceedings with Jefferson Parish.

7) Prior successful completion of projects of the type and nature of the engineering services, as defined, for which firm has provided verifiable references:

Fenstermaker has experience on a multitude of public contracts at the state, local, and federal levels. The best measure of quality of work performed by Fenstermaker is observed in the number of repeat clients over the past seven decades. Over the past 20 years Fenstermaker has grown from 60 employees to nearly 300 personnel. Below is a list of client references:

City of Carencro
210 E. St. Peter St., Carencro, LA 70520
POC: Mayor Glenn L. Brasseaux (337) 896-8481

City of Scott
125 Lions Club Road, Scott, LA 70583
POC: Jan-Scott Richard (337) 233-1130

Lafayette Consolidated Government
705 University Avenue, Lafayette, LA 70506
POC: Jared Veazy, P.E. (337-291-8590

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

Signature:  Print Name: Angelle Guilbeau

Title: Director of Risk Management and Compliance Date: May 26, 2021

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:																													
SOQ 21-008 Provide Professional Engineering Services – Design for Rehab of Transcontinental & Belle Lift Station																													
B. Firm Name & Address where Project Work Will be Performed:																													
Eustis Engineering L.L.C.																													
3011 28 th Street, Metairie, Louisiana 70002																													
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:																													
Gwendolyn P. Sanders, P.E. / President / 504-834-0157 / gsanders@eustiseng.com																													
D. Name and contact information of employee who is a registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline.																													
Gwendolyn P. Sanders, P.E. / President / 504-834-0157 / gsanders@eustiseng.com																													
E. Please provide the number of employees whose primary function corresponds with each category:																													
<table style="width: 100%; border: none;"> <tr><td style="width: 33%;"><u> 7 </u> Administrative</td><td style="width: 33%;"><u> </u> Estimators</td><td style="width: 33%;"><u> </u> Specification Writers</td></tr> <tr><td><u> </u> Architects (Licensed)</td><td><u> 1 </u> Geologists</td><td><u> </u> Structural Engineers</td></tr> <tr><td><u> </u> Chemical Engineers</td><td><u> 13 </u> Geotechnical Engineers</td><td><u> 1 </u> Graduate Engineers</td></tr> <tr><td><u> </u> Civil Engineers</td><td><u> </u> Interior Designers</td><td><u> </u> Project Managers</td></tr> <tr><td><u> </u> Construction Inspectors</td><td><u> </u> Landscape Architects</td><td><u> 7 </u> Clerical</td></tr> <tr><td><u> </u> Ecologists</td><td><u> </u> Land Surveyor</td><td><u> </u> Grant/Funding Specialist</td></tr> <tr><td><u> </u> Electrical Engineers</td><td><u> </u> Mechanical Engineers</td><td><u> </u> Sanitary Engineers</td></tr> <tr><td><u> 4 </u> Engineer Intern</td><td><u> </u> Environmental Engineers</td><td><u> 48 </u> Other</td></tr> <tr><td><u> </u> Professional Land Surveyors</td><td></td><td><u> 81 </u> TOTAL</td></tr> </table>	<u> 7 </u> Administrative	<u> </u> Estimators	<u> </u> Specification Writers	<u> </u> Architects (Licensed)	<u> 1 </u> Geologists	<u> </u> Structural Engineers	<u> </u> Chemical Engineers	<u> 13 </u> Geotechnical Engineers	<u> 1 </u> Graduate Engineers	<u> </u> Civil Engineers	<u> </u> Interior Designers	<u> </u> Project Managers	<u> </u> Construction Inspectors	<u> </u> Landscape Architects	<u> 7 </u> Clerical	<u> </u> Ecologists	<u> </u> Land Surveyor	<u> </u> Grant/Funding Specialist	<u> </u> Electrical Engineers	<u> </u> Mechanical Engineers	<u> </u> Sanitary Engineers	<u> 4 </u> Engineer Intern	<u> </u> Environmental Engineers	<u> 48 </u> Other	<u> </u> Professional Land Surveyors		<u> 81 </u> TOTAL		
<u> 7 </u> Administrative	<u> </u> Estimators	<u> </u> Specification Writers																											
<u> </u> Architects (Licensed)	<u> 1 </u> Geologists	<u> </u> Structural Engineers																											
<u> </u> Chemical Engineers	<u> 13 </u> Geotechnical Engineers	<u> 1 </u> Graduate Engineers																											
<u> </u> Civil Engineers	<u> </u> Interior Designers	<u> </u> Project Managers																											
<u> </u> Construction Inspectors	<u> </u> Landscape Architects	<u> 7 </u> Clerical																											
<u> </u> Ecologists	<u> </u> Land Surveyor	<u> </u> Grant/Funding Specialist																											
<u> </u> Electrical Engineers	<u> </u> Mechanical Engineers	<u> </u> Sanitary Engineers																											
<u> 4 </u> Engineer Intern	<u> </u> Environmental Engineers	<u> 48 </u> Other																											
<u> </u> Professional Land Surveyors		<u> 81 </u> TOTAL																											
F. Is this submittal is a JOINT-VENTURE? Please check: YES <input type="checkbox"/> NO <input checked="" type="checkbox"/>																													
If marked “No,” skip to Section I. If marked “Yes,” complete Sections G-H.																													

TEC Professional Services Questionnaire

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

1.

2.

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

YES NO

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

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. None.		
2.		
3.		

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

We estimate **16** individuals will be needed to complete the geotechnical services associated with projects under this advertisement. This includes a three-member drill crew as well as laboratory, administrative, and engineering staff. More employees can be added, as necessary, to complete any project.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Benjamin M. Cody, P.E. / Principal Engineer	
Project Assignment:	
Project Manager	
Name of Firm with which Associated:	
Eustis Engineering L.L.C.	
Years' Experience with This Firm:	
20	
Education: Degree(s)/Year/Specialization:	
Master of Science / 1999 / Civil Engineering Bachelor of Science / 1996 / Civil Engineering	
Active Registration: Year First Registered/Discipline:	
Louisiana: 2002/Registered Professional Engineer Florida: 2001/Registered Professional Engineer Alabama: 2001/Registered Professional Engineer	Mississippi: 2007/Registered Professional Engineer Texas: 2014/Registered Professional Engineer Arkansas: 2014/Registered Professional Engineer
Other Experience and Qualifications Relevant to the Proposed Project:	
<p>From 1993 to 1994, Mr. Cody worked with Eustis Engineering as a soil technician. Since that time, he has completed his education and achieved the level of professional engineer.</p> <p>After leaving Eustis Engineering in 1994, Mr. Cody worked as an engineering technician with the Sewerage and Water Board of New Orleans and as a student laboratory coordinator at Tulane University's Department of Civil Engineering. Mr. Cody also assisted in teaching the introductory soil mechanics laboratory sessions.</p> <p>For more than a year, he worked as a graduate research assistant at Tulane. At that time, he was responsible for the design, construction, and implementation of bench scale testing system in contaminated soil remediation.</p> <p>From 1998 until 2001, Mr. Cody worked for engineering firms in Florida. He performed such duties as soil evaluation and engineering recommendations for projects of varying sizes including multi-story structures, bridges, and roadways. He performed Phase I environmental site assessments as well as geotechnical sensor installation.</p> <p>In 2001, he returned to the New Orleans area and to Eustis Engineering as a Project Engineer and now serves as a project manager and Principal Engineer with the firm. Since his return, Mr. Cody has performed a wide variety of engineering services including geotechnical project management, engineering design, engineering during construction, and dynamic pile testing. Private sector projects have varied from small private and commercial structures to multi-story high-rise structures, storage tanks, and other industrial facilities. Public projects have included roads and bridges, port facilities, government buildings and facilities, schools, and hurricane protection system improvements.</p> <p>Some of Mr. Cody's project experience, shown in this submittal, includes the following.</p> <ul style="list-style-type: none"> Jefferson Parish, Jung and Falcone Lift Station Upgrades (K-11-3), New Sanitary Lift Station, Marrero, Louisiana, Eustis Engineering Project No. 23819: Engineering analyses included excavation recommendations; 	

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Benjamin M. Cody, P.E. / Principal Engineer

dewatering and pressure relief; lateral earth pressures; allowable soil bearing values; allowable pile load capacities; and settlement estimates.

- **City of Kenner, Lift Station No. 4102, Airline Highway and Minden Avenue, Jefferson Parish, Louisiana, Eustis Engineering Project No. 22317:** The focus of this project was a valve pit planned adjacent to the existing lift station. After performing a geotechnical exploration and associated laboratory testing, engineering analyses and recommendations were provided comprising dewatering and pressure relief; lateral movement and settlement of the adjacent ground surface; bottom preparation of the lift station; allowable pile load capacities; estimates of settlement; and differential settlement estimates.
- **City of Kenner, Sewer Capital Improvement Program, Sewage Pumping Station Upgrade, 31st Street and Jasper Street Lift Station, Kenner, Louisiana, Eustis Engineering Project Nos. 21834 and 22559:** Mr. Cody was Project Engineer for this work. A new below-grade submersible lift station was proposed to replace the existing lift station. After drilling a boring and performing laboratory tests on samples obtained from the boring, the client was provided with estimates of settlement, allowable soil bearing values, and allowable load capacities for timber piles. Recommendations for both rigid and flexible pavements, a temporary restraining system, and foundation construction procedures were also provided.
- **Sewerage & Water Board of New Orleans - Wastewater Rehabilitation Program at Multiple Sewer Pump Station Sites, New Orleans, Louisiana, Eustis Engineering Project Nos. 20701 and 22393:** Geotechnical information was obtained for seven sewer pump stations. Borings were drilled and engineering analyses performed for each location. Later, engineering during construction services were provided for six of the original seven locations. These services included temporary retaining structure review, dynamic pile testing, wave equation analyses of piles (WEAP), vibration monitoring, and observation during the cutting of concrete cores. Mr. Cody served as a project engineer with a particular focus on WEAP analyses.
- **Ascension Parish Government - Hillaryville Wastewater Treatment Plant, Pump Station, and Effluent Force Main, Hillaryville, Louisiana, Eustis Engineering Project Nos. 23149 (.01, .02, .03):** Mr. Cody was project manager for these geotechnical explorations. A proposed pump station and effluent force main required design input. Services included a geotechnical exploration, laboratory testing, engineering analyses, foundation recommendations, and pile load capacities. When the wastewater treatment plant was up for replacement, similar tasks were performed, as well as design services including submittal review and participation in design team meetings.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Gwendolyn P. Sanders, P.E. / President
Project Assignment:
Principal Engineer
Name of Firm with which Associated:
Eustis Engineering L.L.C.
Years' Experience with This Firm:
28
Education: Degree(s)/Year/Specialization:
Bachelor of Science/1990/Civil Engineering Master of Science/1992/Civil Engineering
Active Registration: Year First Registered/Discipline:
Louisiana: 1997/Civil Engineering Mississippi: 2003/Civil Engineering Texas: 2020/Civil Engineering
Other Experience and Qualifications Relevant to the Proposed Project:
<p>Mrs. Sanders began her professional career with Eustis Engineering in 1993. Over the past 28 years, she has worked her way up through the ranks of the engineering department as an Associate Engineer, Project Engineer, Project Manager, and Engineering Manager. In 2020, Mrs. Sanders became Eustis Engineering's first woman president. As president, she is responsible for day-to-day business operations of the corporation. These include quality, safety, marketing, and long-term strategic growth. She also still actively participates in the engineering design and review processes.</p> <p>Considering her experience with Eustis Engineering, a leading Gulf Coast geotechnical firm, Mrs. Sanders has extensive experience in soft soils and working on projects in coastal Louisiana. She has been directly and indirectly involved in numerous projects throughout the Gulf Coast region, particularly in the Greater New Orleans area. Mrs. Sanders has been involved in and managed every aspect of a geotechnical engineering project, namely developing appropriate scopes of work for projects, planning and coordinating the field investigation, assigning laboratory testing, performing geotechnical engineering analyses, preparing detailed reports with engineering analyses and recommendations, reviewing reports prepared by other professionals, and consulting with clients. A majority of her work experience has dealt with identifying soil properties, developing criteria for design of foundations, and determining an appropriate foundation to support the structure under consideration.</p> <p>In 2017, Mrs. Sanders served as program advisor for the Deep Foundations Institute's 42nd annual conference. That same year, she was named one of the 50 Women of the Year by New Orleans' City Business. Mrs. Sanders is currently serving as an associate member of the American Society of Civil Engineer's Standards Committee for the Design and Construction of Foundations. She has a keen eye for detail and is a stickler for quality. Her work ethic and quality, combined with her communication skills, translate to Mrs. Sanders' ability to deliver successful geotechnical engineering projects to her clients.</p>

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Gwendolyn P. Sanders, P.E. / President

Over the years, Mrs. Sanders has been involved with more than 2,800 projects in some capacity, including six contained within this submittal.

- **Cheval Point Subdivision - Lift Station, LA Highway 327, Baton Rouge, Louisiana, Eustis Engineering Project Nos. 22953 and 23692:** Development of geotechnical design recommendations for a retaining structure at the proposed lift station, a dewatering well point system for construction of the lift station, and a permanent hydrostatic pressure relief system.
- **Bellevue Country Estates - Phases IV, V, and VI, Pavements, Lake, and Sewer Lift Station, Paulina, Louisiana, Principal Engineering Project No. 1511, Eustis Engineering Project No. 23451:** Engineering analyses and recommendations included suitability of excavated soil from the proposed lake site for use in other construction areas; the need for an adequate liner along the bottom and side slopes throughout the lake; the need for erosion control after the lake's construction; general site preparation; allowable soil bearing values for the sewer lift station; allowable pile load capacities for treated ASTM D25 quality timber piles for the lift station; stability of the lift station against bearing capacity failure and hydrostatic uplift; etc.
- **Jefferson Parish, Lift Station G8-2, Tolmas Drive and West Esplanade Avenue, Metairie, Louisiana, Eustis Engineering Project No. 22583:** This project required use of at-rest pressures to determine the structural requirements for any buried structures; stability analyses of the structure against hydrostatic uplift; base preparation recommendations for the valve pit foundation; allowable soil bearing values; allowable pile load capacities; settlement estimates; excavation and dewatering recommendations; etc.
- **Town of Henderson - Sewer Improvements, North of Interstate 10, Pump Station, Henderson, Louisiana, Eustis Engineering Project No. L0462:** Engineering analyses included estimates of allowable soil bearing values, geotextile use, lateral earth pressure, uplift pressure of the wet well, settlement, excavations, dewatering, and pressure relief of the temporary retaining structures.
- **Sewerage & Water Board of New Orleans - Wastewater Rehabilitation Program at Multiple Sewer Pump Station Sites, New Orleans, Louisiana, Eustis Engineering Project Nos. 20701 and 22393:** Geotechnical information was obtained for seven sewer pump stations. Borings were drilled and engineering analyses performed for each location. Later, engineering during construction services were provided for six of the original seven locations. These services included temporary retaining structure review, dynamic pile testing, wave equation analyses of piles, vibration monitoring, and observation during the cutting of concrete cores.
- **Sewerage & Water Board of New Orleans - Modifications to East Bank, Wastewater Treatment Plant, Construction of Monoliths 118-120, Orleans Parish, Louisiana, Eustis Engineering Project No. 22627:** Two important pipelines were unable to be relocated for this project. Therefore, an evaluation was performed to analyze the impacts of pile driving on these pipes, with an emphasis on reducing vibrations at the sewer force mains during driving. Available data and pile installation techniques were evaluated to provide estimates of allowable pile load capacities and estimates of minimum distances between pile driving operations and existing sewer force mains.

PROJECT NO. 1

Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p align="center"> Jefferson Parish Jung and Falcone Lift Station Upgrades (K-11-3) New Sanitary Sewer Lift Station Marrero, Louisiana Eustis Engineering Project No. 23819 </p> <p> Jefferson Parish Through Principal Engineering, Inc. Suite 19 1011 North Causeway Boulevard Mandeville, Louisiana 70471 Jeneva Hinojosa, E.I. @ 985-624-5001 </p>	<p>The new lift station was to consist of a fiberglass wet well and fiberglass valve pit. The wet well was to be approximately 6 feet in diameter and 18 feet in depth. The valve pit was to be approximately 6 feet in diameter and 8 feet in depth. Site improvements were to include a gravity sewer line installed approximately 12 feet below grade and a force main approximately 4 feet below grade.</p> <p>Our field investigation included the drilling of one soil boring to a depth of 80 feet below the existing ground surface drilled with truck mounted equipment. Once in the laboratory, samples collected in the field were subjected to soil mechanics laboratory tests including visual classification, natural water content, unit weight, unconfined compression shear, and one-point unconsolidated undrained triaxial compression shear.</p> <p>Using these data, our staff performed engineering analyses and developed recommendations for the project. Engineering analyses included:</p> <ul style="list-style-type: none"> • site preparation encompassing temporary and permanent drainage and excavation recommendations; • dewatering and pressure relief, lateral movement, and excavation base preparation associated with the sanitary gravity sewer line, wet well, and valve box; • lateral earth pressures; • base preparation, pipe bedding, and backfill for the force main and sanitary sewer line; • allowable soil bearing value recommendations for the wet well and valve box; • allowable pile load capacities, in compression and tension, for treated ASTM D25 quality timber; and • settlement estimates for both ground supported and pile supported project features. 	
<p align="center">Completion Date (Actual or Estimated)</p> <p align="center">June 2018 (Actual)</p>	Estimated Cost:	
	Entire Project:	Work for Which Firm Was Responsible:
	<p align="center">Unknown</p>	<p align="center">\$4,900</p>

PROJECT NO. 2

**Project Name, Location, and
Owner's Contact Information:**

Nature of Firm's Responsibility:

**Cheval Point Subdivision
Lift Station
LA Highway 327
Baton Rouge, Louisiana
Eustis Engineering Project Nos.
22953 and 23692**

Cheval Point Development, LLC
Suite 3B
9191 Siegen Lane
Baton Rouge, Louisiana 70810
Wesley Daniel @ 225-279-5410

Cheval Point Subdivision was a 57-acre site on LA Highway 327 approximately 175 feet landward of the left descending bank of the Mississippi River levee. Because of the site's location, several government agencies were included in the permitting process.

Eustis Engineering was requested by the owner to perform a technical review of the latest permit plans. Eustis Engineering was also asked to provide geotechnical design recommendations for a retaining structure at the proposed lift station, a dewatering well point system for construction of the lift station, and a permanent hydrostatic pressure relief system.

Our scope of services included cone penetration tests (CPTs) at the proposed location of a new sanitary sewer lift station to evaluate the subsoil conditions at the site. Two static CPTs were made by Eustis Engineering, one to 21 feet and one to 76 feet below the existing ground surface. During the CPTs, pore pressure dissipation tests were conducted at various depths by halting the penetration and measuring the decay of pore water pressure with time. Measurements of pore pressure decay were taken for a minimum of 1,000 seconds at each test depth. The rate of excess pore pressure dissipation was measured and plotted versus time to estimate the horizontal coefficient of consolidation.

Based on our interpretation of the CPT results as well as soil borings and CPT results from past projects performed by our firm and the U.S. Army Corps of Engineers for this project, we developed recommendations for construction of a retaining structure, recommendations for a permanent pressure relief system, and estimates for a temporary pressure relief system.

Following our technical review of the general civil engineer's recent permit plans, Eustis Engineering's recommendations and estimates were to be incorporated into the engineer's project plans for a formal resubmission to the Pontchartrain Levee District.

Eustis Engineering presented a conceptual plan for construction of the proposed lift station. This plan was based on lift station construction using a sheetpile retaining structure and providing hydrostatic pressure relief both during construction and for the design life of the completed lift station. Our conceptual plan was based on providing one of two methods of hydrostatic pressure relief by using either (1) a conventional active system of pressure relief wells or (2) a soil improvement solution by jet grouting. These conceptual solutions were based on design criteria to resist hydrostatic heave and seepage during and after construction.

PROJECT NO. 2		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
	<p>As part of the project, Eustis Engineering also installed two temporary "Casagrande" type, open standpipe piezometers, one within and one outside the retaining structure. The purpose of the piezometers was to monitor excess hydrostatic pressure of the transition and aquifer strata at the retaining structure.</p> <p>Eustis Engineering remained on site during construction providing construction oversight associated with the lift station.</p>	
Completion Date (Actual or Estimated)	Estimated Cost:	
	Entire Project:	Work for Which Firm Was Responsible:
April 2018 (Actual)	Unknown	\$63,400



PROJECT NO. 3

Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p align="center"> Bellevue Country Estates Phases IV, V, and VI Pavements, Lake, and Sewer Lift Station Paulina, Louisiana Principal Engineering Project No. 1511 Eustis Engineering Project No. 23451 </p> <p align="center"> Landcraft Homes, L.L.C. Post Office Box 2470 LaPlace, Louisiana 70069 Joseph M. Scontrino III @ 985-651-3007 </p>	<p>Bellevue Country Estates in Paulina, Louisiana, was built in phases in a relatively level sugarcane field that included drainage ditches and an access road. Phases IV, V, and VI of the 81-lot development included the construction of nearly 4,000 feet of roadway pavements, a 7-ft deep lake, and a 16-ft deep sewer lift station. The lift station was to consist of a 6-ft diameter wet well with an invert located approximately 15 feet below the ground surface and the bottom slab at 16 feet. The lift station would be constructed using 6-ft diameter reinforced concrete pipe (weighing approximately 1,850 lb/lf).</p> <p>When our personnel arrived on site, they discovered standing water and soft ground conditions. After performing seven auger borings, we received authorization from the owner to use a track mounted rig instead of the planned truck mounted rig. We drilled three undisturbed soil test borings and the eighth auger boring. One soil boring was drilled to a depth of 60 feet near the location of the proposed sewer lift station, and the other two borings were drilled to depths of 15 feet each near the proposed lake. Auger borings were drilled to depths of 8 feet along the proposed roadway alignment.</p> <p>Soil mechanics laboratory tests were performed on samples collected in the field. In conjunction with the soil borings and laboratory test results, engineering analyses were made to determine recommendations regarding the suitability of excavated soil from the proposed lake site for use in other construction areas; the need for an adequate liner along the bottom and side slopes of the lake; the need for erosion control after the lake's construction; general site preparation including drainage during and after construction; subgrade preparation and stabilization for proposed roadways; select backfill and structural fill and its compaction; pavement recommendations for flexible and rigid pavements; allowable soil bearing values for the sewer lift station; allowable pile load capacities, in compression and tension, for various sizes and embedments of treated ASTM D25 quality timber piles for the lift station; stability of the lift station against a bearing capacity failure and hydrostatic uplift; estimates of settlement and differential settlement due to fill placement and between pile/grade supported features; and the use of temporary retaining structures as well as dewatering and pressure relief during construction of the sewer lift station.</p>	
<p align="center">Completion Date (Actual or Estimated)</p>	Estimated Cost:	
	Entire Project:	Work for Which Firm Was Responsible:
<p align="center">March 2017 (Actual)</p>	<p align="center">Unknown</p>	<p align="center">\$9,000</p>

PROJECT NO. 4

Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p align="center"> Jefferson Parish Lift Station G8-2 Tolmas Drive and West Esplanade Avenue Metairie, Louisiana Eustis Engineering Project No. 22583 </p> <p align="center"> Barowka & Bonura Engineers & Consultants, LLC 209 Canal Street Metairie, Louisiana 70005 Jeffrey Bonura @ 504-828-0030 </p>	<p>Jefferson Parish planned to improve Lift Station G8-2 by installing a 12' x 12' valve pit 10 feet below the existing ground surface. To determine subsoil conditions and stratifications at the site, Eustis Engineering drilled one undisturbed soil boring to a depth of 80 feet below the existing ground surface using a truck mounted rotary type drill rig. Cohesive or semi-cohesive subsoils were sampled at close intervals or changes in stratum using a 3-in. thinwall Shelby tube sampling barrel. Once the samples were extracted from the bore hole, pocket penetrometer tests were performed on the trimmed ends of the extruded samples to provide a general indication of the soil's shear strength or consistency.</p> <p>Our laboratory technicians performed soil mechanics laboratory tests consisting of natural water content, unit weight, and unconfined compression shear on undisturbed samples obtained from the boring.</p> <p>Based on the soil boring and soil mechanics laboratory tests, Eustis Engineering developed recommendations for site preparation, excavation and dewatering, lateral earthen pressures, bedding and backfill, estimated allowable soil bearing values for mat foundations, estimates of allowable pile load capacities, estimates of settlement, and general foundation construction procedures.</p> <p>More specifically, engineering analyses included:</p> <ul style="list-style-type: none"> • use of at-rest pressures to determine the structural requirements for any buried structures; • recommendations regarding stability of the structure against hydrostatic uplift; • base preparation recommendations for the valve pit foundation including the use of geotextiles, bedding requirements, and structural fill requirements; • allowable soil bearing values for the valve pit's mat foundation; • allowable load capacities, in compression and tension, for various sizes of treated ASTM D25 quality timber piles to support the proposed valve pit; • estimates of settlement and differential settlement for both mat and timber pile foundations; • excavation and dewatering recommendations associated with construction; and • effects of areal subsidence on the project. 	
<p align="center">Completion Date (Actual or Estimated)</p>	<p align="center">Estimated Cost:</p>	
<p align="center">August 2014 (Actual)</p>	<p align="center">Entire Project:</p> <p align="center">Unknown</p>	<p align="center">Work for Which Firm Was Responsible:</p> <p align="center">\$4,100</p>

PROJECT NO. 5

Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p align="center"> City of Kenner Lift Station No. 4102 Airline Highway and Minden Avenue Jefferson Parish, Louisiana Eustis Engineering Project No. 22317 </p> <p align="center"> Hartman Engineering, Inc. Suite 300 527 West Esplanade Avenue Kenner, Louisiana 70065 Priyo Majumdar @ 504-466-5667 </p>	<p>The City of Kenner planned to renovate the existing Sewer Lift Station No. 4102. The renovation involved adding a buried valve pit adjacent to the existing lift station. The valve pit was to be 8 to 10 feet in diameter and placed 6 feet below the existing ground surface. A small cofferdam was considered for construction. Eustis Engineering was retained to perform professional geotechnical services consisting of field, laboratory, and engineering services.</p> <p>In the field, Eustis Engineering drilled one undisturbed soil boring to a depth of 60 feet to determine subsoil conditions and stratification at the project site. The drill crew also made one auger boring to a depth of 12 feet below the existing grade to measure ground water conditions at the time of the exploration. For the undisturbed boring only, team members obtained samples of cohesive or semi-cohesive subsoils at close intervals or changes in stratum using a 3-in. diameter thinwall Shelby tube sampling barrel. The samples were extruded, inspected, and visually classified in the field. Our soil technician performed pocket penetrometer tests on the samples to give a general indication of the soil's shear strength and consistency. Samples were placed in moisture proof containers to preserve their natural water content prior to laboratory testing.</p> <p>Our laboratory technicians performed soil mechanics laboratory tests on these samples to evaluate the physical properties of the various substrata.</p> <p>Engineering analyses, based on the undisturbed soil boring and soil mechanics laboratory test results, were used to develop recommendations regarding:</p> <ul style="list-style-type: none"> • site preparation including drainage, trenching and excavations, dewatering and pressure relief, and lateral movement and settlement of the adjacent ground surface; • bottom preparation including bedding, the use of geotextile fabric, and the effects of uplift pressure during/after construction; • estimated gross and net allowable soil bearing values for the valve pit's mat foundation; • allowable pile load capacities, in compression and tension, for treated timber piles; • estimates of settlement; and • general construction recommendations. 	
<p align="center">Completion Date (Actual or Estimated)</p>	Estimated Cost:	
	Entire Project:	Work for Which Firm Was Responsible:
<p align="center">October 2013 (Actual)</p>	Unknown	\$3,200

PROJECT NO. 6

Project Name, Location, and Owner's Contact Information:

Nature of Firm's Responsibility:

**City of Kenner
Sewer Capital Improvement Program
Sewage Pumping Station Upgrade
31st Street and Jasper Street Lift Station
Jefferson Parish, Louisiana
Eustis Engineering Project Nos.
21834 and 22559**

City of Kenner
Department of Public Works Through
Design Engineering, Inc.
Suite 205
3330 West Esplanade Avenue
Metairie, Louisiana 70002
John Holtgreve @ 504-836-2155

Construction was to consist of a new wet well 20 to 25 feet below the existing ground surface, a valve pit 6 to 8 feet below the existing ground surface, and an electrical panel located at the ground surface. The wet well and valve pit would each have a 12' x 12' pad. The electrical panel would have a 2' x 5' pad. Both shallow foundation systems and treated timber piles were being considered for support of the project features.

One undisturbed soil test boring was made at the site. The boring was drilled to a depth of 80 feet below the existing ground surface. Upon completion of the drilling operations, the boring was backfilled in accordance with current regulatory requirements and the pavement patched. GPS coordinates of the boring were obtained using a handheld device.

Soil mechanics laboratory tests, performed on samples obtained from the boring, were used to evaluate the physical properties of the various substrata.

Engineering analyses, based on the soil boring and laboratory test results, were made to determine recommendations regarding site preparation and drainage, pipe bedding, estimates of allowable soil bearing values, estimates of allowable load capacities for timber piles, estimates of settlement, a temporary restraining system, and foundation construction procedures as well as recommendations for rigid and flexible pavements.

Eustis Engineering also provided construction materials testing services for this project. Those services included:

- soil mechanics laboratory tests including moisture content, Atterberg limits, mechanical analysis, and standard Proctor;
- inplace density tests on sand, limestone, and crushed concrete for use as structural backfill, bedding, and base course;
- visual and physical inspection of more than 1,620 feet of timber piles;
- pile logging during installation;
- performance of vibration and acoustical monitoring during pile installation;
- review of asphalt and concrete mix designs intended for use on the project;
- visual and physical inspection of concrete placed for the lift station slab, seal slab, foundation slab, skid foundation, tank bottom, manhole, electrical pad, sidewalk, and roadway;

PROJECT NO. 6		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
	<ul style="list-style-type: none"> • compressive strength tests on concrete cylinders made during the above inspection; and • the coring and inspection of asphalt. 	
Completion Date (Actual or Estimated)	Estimated Cost:	
	Entire Project:	Work for Which Firm Was Responsible:
April 2015 (Actual)	Unknown	\$19,300



PROJECT NO. 7

Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p align="center"> Town of Henderson Sewer Improvements North of Interstate 10 Pump Station Henderson, Louisiana Eustis Engineering Project No. L0462 </p> <p> Town of Henderson, Louisiana Post Office Box 595 Henderson, Louisiana 70517 Sherbin Collette @ 337-228-7109 </p>	<p>Sewer improvements were planned for the Town of Henderson, Louisiana. A new pump station, comprising a wet well and valve pit, would be constructed on North Barn Road.</p> <p>Plans called for the wet well to be supported by an 18-in. thick concrete mat underlain by 12 inches of limestone bedding. It would be constructed of precast, reinforced concrete pipe sections having outside diameter dimensions of 72 inches with a square mat foundation having plan dimensions of 9.3' x 9.3'. The excavation for the wet well would be made to a depth of 21.5 feet below the existing ground surface.</p> <p>The adjacent valve pit would be constructed of precast, reinforced concrete pipe sections having outside diameter dimensions of 60 inches. Drawings indicated the valve pit would be supported by a 12-in. thick concrete mat underlain by 12 inches of limestone bedding. The valve pit would require excavation to an approximate depth of 6 feet below the existing ground surface. Plans also indicated the valve pit mat foundation would have plan dimensions of 7' x 7'.</p> <p>One soil boring was made to a depth of 60 feet using a truck mounted rotary type drill rig for the purpose of evaluating subsoil conditions and stratification, and to obtain samples of the various substrata. Soil mechanics laboratory tests consisted of natural water content, unit weight, unconfined compression shear, and unconsolidated undrained triaxial compression shear. In addition, Atterberg liquid and plastic limits tests were performed on selected soil samples.</p> <p>Engineering analyses, based on the soil boring and laboratory tests, were made to determine recommendations regarding site preparation; estimates of allowable soil bearing values; geotextile use, lateral earth pressure, and uplift pressure of the wet well; settlement, excavations, dewatering, and pressure relief of the temporary retaining structures (for cost estimating purposes only); and construction monitoring.</p>	
<p align="center">Completion Date (Actual or Estimated)</p>	<p align="center">Estimated Cost:</p>	
<p align="center">August 2016 (Actual)</p>	<p align="center">Entire Project:</p>	<p align="center">Work for Which Firm Was Responsible:</p>
	<p align="center">Unknown</p>	<p align="center">\$7,200</p>

PROJECT NO. 8

Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Sewerage & Water Board of New Orleans Wastewater Rehabilitation Program at Multiple Sewer Pump Station Sites New Orleans, Louisiana Eustis Engineering Project Nos. 20701 and 22393</p> <p>Sewerage & Water Board of New Orleans Through Design Engineering, Inc. Suite 205 3330 West Esplanade Avenue Metairie, Louisiana 70002 John Holtgreve @ 504-836-2155</p>	<p>This project required geotechnical information for seven sewer pump stations with plan dimensions of approximately 18' x 22'. The structures would be located approximately 7 feet below existing grade and would be supported on driven pile foundations. Piling under consideration included treated timber and square, prestressed, precast concrete piles.</p> <p>An elevated 8' X 15' electrical platform would be supported at grade on a 10' x 15' foundation slab. The total weight of the platform with roof and live loads was 68 kips. Roof uplift would create a net tension load of 17 kips on the platform. The distributed uniform loading on the 10' x 15' foundation slab was estimated to be 453 psf (not including the weight of the foundation slab).</p> <p>The existing pump stations were pile supported. At five of the seven pump station sites, specific information was provided by Design Engineering, Inc., for influent and discharge pipe depths, and for new and existing foundation depths below existing grade. We estimated pipe and foundation depths at the remaining two pump stations. New pipe diameters were estimated to range from 12 to 18 inches.</p> <p>Seven undisturbed soil test borings were drilled for the project. Six borings were made to depths of 100 feet, and one terminated at a depth of 85 feet below the existing ground surface. The undisturbed borings were made with a truck mounted Failing 3600 wet rotary type drill rig. Upon completion of the drilling operations, the borings were backfilled with cement-bentonite grout in accordance with current regulatory requirements. Soil mechanics laboratory tests, performed on samples obtained from the borings, were used to evaluate the physical properties of the subsoils.</p> <p>Engineering analyses, based on the soil borings and laboratory tests, were performed to develop recommendations regarding site preparation, placement and compaction of fill, allowable soil bearing values, allowable pile load capacities, and estimated settlement. Construction recommendations were also provided for excavations and dewatering.</p> <p>Eustis Engineering provided professional geotechnical engineering services during construction for six of the pump stations previously analyzed for the design phase of the project. Our services included a review of temporary retaining structures (sheetpile walls), dynamic pile testing, wave equation analyses of pile driving methods, vibration monitoring, and observation services during the cutting of concrete cores.</p>	
<p align="center">Completion Date (Actual or Estimated)</p>	<p align="center">Estimated Cost:</p>	
<p align="center">November 2015 (Actual)</p>	<p align="center">Entire Project:</p>	<p align="center">Work for Which Firm Was Responsible:</p>
	<p align="center">Unknown</p>	<p align="center">\$62,800</p>

PROJECT NO. 9

Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:
<p>Ascension Parish Government Hillaryville Wastewater Treatment Plant Pump Station, and Effluent Force Main Hillaryville, Louisiana Eustis Engineering Project Nos. 23149 (.01, .02, .03)</p> <p>Ascension Parish Government Through MSMM Engineering, LLC Suite 220 4640 South Carrollton Avenue New Orleans, Louisiana 70119 Mardia Manish @ 504-570-6098</p>	<p>Improvements, specifically an 8-ft diameter wet well and valve pit, were proposed to the existing pump station at the Hillaryville Wastewater Treatment Plant in Hillaryville, Louisiana. The top of the slab for the proposed wet well would be installed to approximate el -3.5 and the top of the slab for the valve pit would be installed to approximate el 5. The net bearing intensity of the wet well would be 250 psf; the bearing intensity of the valve pit would be less than the soil excavated for the pit.</p> <p>One 5-in. diameter undisturbed soil boring was made at the pump station location within the existing Hillaryville Wastewater Treatment Plant. One 3-in. diameter undisturbed soil boring was made near the intersection of Marchand School Road and River Road (LA Highway 942). Both were drilled with truck mounted wet rotary equipment to depths of 75 feet and 80 feet, respectively, below the existing ground surface. Upon completion of drilling, the holes were grouted in accordance with current regulatory requirements. Additional data were obtained from the U.S. Army Corps of Engineers, New Orleans District, using the Freedom of Information Act request. This information contained pertinent USACE slope stability plates and levee cross-sections for the left descending bank near Mississippi River Mile 171.4 AHP. Soil mechanics laboratory tests, primarily consisting of natural water content, unit weight, and unconfined compression shear, or unconsolidated undrained triaxial compression shear, were used to evaluate the physical properties of the various substrata.</p> <p>Based on the available soil boring and laboratory test data, engineering analyses and foundation recommendations included estimated allowable soil bearing values to sustain the structural loads of the mat-supported wet well and valve pit; sheetpile and bracing recommendations to maintain stability of the excavations; dewatering and pressure relief; lateral movement and settlement of the adjacent ground surface; analysis of temporary retaining structures; lateral earth pressures; recommended bedding and structural fill associated with the construction of the wet well and valve pit foundations; estimates of settlement and differential settlement associated with the project; allowable soil bearing values for the proposed pipe rack footings and access bridge abutment; and global and local stability analyses associated with these same structures.</p> <p>After completing the initial investigation, Eustis Engineering was requested to evaluate preliminary allowable single pile load capacities to aid in project construction budget estimates. Using available data, our engineers completed preliminary estimates of single pile load capacities, in compression and tension, for treated ASTM D25 quality timber piles.</p> <p>Shortly thereafter, Eustis Engineering was asked to provide additional geotechnical services, this time for the replacement of the wastewater treatment plant. The project was to consist of buildings proposed on</p>

PROJECT NO. 9

Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
	<p>grade; reinforced and partially buried concrete tanks; a pump station with an approximate 20-ft depth; asphalt roadways within the site; and buried piping. New features would include an influent pump station and effluent pump station, an effluent force main, headworks, aeration basins, a sludge area controller, a chlorine disinfection unit, an aerobic digester, a filter press building, administrative building, and a maintenance building.</p> <p>The field exploration included three undisturbed borings between 80 and 100 feet below the existing ground surface; ten auger borings to depths of 8 feet; and 11 cone penetration tests to 80 feet. The field investigation was followed by the performance of soil mechanics laboratory tests to classify the subsoils and determine their relative compressibility.</p> <p>Engineering analyses and recommendations for this portion of the project included:</p> <ul style="list-style-type: none"> • ground water management; • site preparation including subgrade preparation, recommended structural fill and its compaction, and estimated fill settlement; • excavation and dewatering recommendations as well as recommendations with regard to lateral movement and settlement of the adjacent ground surface; • earth and water pressures (at-rest, active, passive, uplift); • site preparation associated with below grade structures including base preparation, material separation, and bedding recommendations; • pipeline recommendations including material separation, recommended bedding/backfill materials and their compaction, and settlement estimates; • shallow foundation recommendations including allowable soil bearing values for footings and settlement estimates; • mat foundation recommendations including allowable soil bearing values, net applied pressure intensity, and settlement estimates; • allowable pile load capacities for treated timber, timber composite, and precast concrete piles; • pile settlement estimates due to structural loads and fill placement; • pile installation recommendations; and • recommendations for flexible and rigid pavements. <p>Finally, Eustis Engineering participated in design team meetings and performed requested submittal reviews.</p>	
Completion Date (Actual or Estimated)	Estimated Cost:	
	Entire Project:	Work for Which Firm Was Responsible:
August 2020 (Actual)	Unknown	\$45,200

PROJECT NO. 10

Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p align="center"> Sewerage & Water Board of New Orleans Modifications to East Bank Wastewater Treatment Plant Construction of Monoliths 118-120 Orleans Parish, Louisiana Eustis Engineering Project No. 22627 </p> <p> Sewerage & Water Board of New Orleans Through Integrated Management Services 126 East Amite Street Jackson, Mississippi 39201 Tommy Avant @ 901-968-9194 </p>	<p>Eustis Engineering was contracted to provide geotechnical engineering analyses for the construction of three monoliths at the East Bank Wastewater Treatment Plant in New Orleans. The construction of these monoliths had been postponed due to their close proximity to two pipelines. Initial plans had called for the relocation of these pipelines. However, due to the condition of the lines, relocation proved to be unfeasible. Leaks in these lines had been repaired by the installation of a pipe liner within each pipe.</p> <p>The proximity of construction activities and the condition and importance of these pipelines meant alternative methods of installing piles had to be explored to reduce vibrations at the sewer force mains during pile driving operations. The options being evaluated for this project included:</p> <ul style="list-style-type: none"> • using steel H-piles in lieu of concrete piles, • installing piles vertically rather than on a batter, • installing piles with the aid of predrilling, and • determining how far the piles would need to be spaced from the existing sewer force main to reduce vibrations. <p>Recommendations were based on review of available data from previous exploration and construction, estimates of allowable pile load capacities for steel H-piles, evaluation of pile installation techniques (such as predrilling), and estimates of minimum distances between pile driving operations and existing sewer force mains.</p>	
<p align="center">Completion Date (Actual or Estimated)</p> <p align="center">August 2014 (Actual)</p>	Estimated Cost:	
	Entire Project:	Work for Which Firm Was Responsible:
	<p align="center">Unknown</p>	<p align="center">\$6,000</p>

TEC Professional Services Questionnaire

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



TEC Professional Services Questionnaire

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

When Eustis Engineering opened its first office in Vicksburg, Mississippi, in 1946, it housed its entire operation in less than 500 square feet of space. *Seventy-five years later*, our personnel and equipment occupy 40,000+ square feet of space in five locations.

Eustis Engineering is the third oldest, continually operating geotechnical firm in the United States. From a two-man office to approximately 100 individuals, the firm has grown to house accounting, administrative, quality control, safety, drilling, engineering, laboratory, and construction materials testing departments. These departments work together to provide our clients with the quality work desired in a cost efficient and timely manner.

Eustis Engineering is headquartered in Metairie, Louisiana, less than five miles from the project location at the intersection of Transcontinental Drive and Belle Drive. We also operate branch offices in Lafayette and Baton Rouge, Louisiana; in Gulfport, Mississippi; and in Houston, Texas. Our offices and staff collaborate seamlessly using Microsoft Teams and other virtual platforms.

Eustis Engineering's services encompass many disciplines including the performance of:

- exploration (drilling of soil borings and cone penetration testing),
- soil mechanics laboratory tests,
- field instrumentation and monitoring,
- dynamic pile testing and non-destructive testing of piles/shafts,
- geotechnical engineering design, and
- construction quality control and materials testing services.

Eustis Engineering has worked on more than 25,000 projects since its inception. Over 4,000 of these projects were located in Jefferson Parish, and more than 1,000 have involved sewer systems in some capacity. This work history gives our engineering staff unparalleled familiarity with the foundation conditions in the Greater New Orleans area. Our engineers have provided geotechnical services at various levels in 22 states and one dozen foreign countries throughout the years.

ENGINEERING

Eustis Engineering has engineering capabilities to fulfill the requirements of nearly any project. We have developed pile capacity and bearing capacity analyses for projects throughout the coastal areas of the United States. We consider net and gross allowable bearing pressures in the design of below grade features. Eustis Engineering's evaluation of piles includes estimates of vertical capacity for groups. We also perform lateral analyses of individual piles and pile groups using LPILE and GROUP.

We perform settlement studies including estimates of settlement and time-rate of settlement, including the effects of drawdown on adjacent features. We evaluate appropriate backfills and bedding, and provide recommendations for their placement and compaction.

Our capabilities extend to performance of deep-seated global stability analyses for structures using Spencer's Method as coded in SLOPE/W and the LMVD Method of Planes as coded in UPLIFT. These programs are also used for the design and verification of levees, reinforced embankments, revetments, channel slopes, and open excavations. Our staff

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

evaluates local and global stability of temporary and permanent retaining structures. We provide recommendations for dewatering and pressure relief during construction and operation of below grade structures.

In our practice, Eustis Engineering has developed methodologies associated with the estimates of negative skin friction on pile foundations. The methods are the current state of practice. The extension of these methods is an evaluation of settlement induced bending moment (SIBM). Eustis Engineering is also utilizing a numerical model program SIGMA/W in association with the rigorous settlement program Settle3.

Finally, Eustis Engineering has performed seepage analyses for evaluation of heave, uplift, and piping. We use EM 1110-2-1913, EM 1110-2-1901, and DNR 1110-1-400 for manual calculations that consider blanket theory for earthen embankments and levees. We also use SEEP/W for a computer model and typically compare the results of manual calculations to the SEEP/W model as a quality assurance procedure.

Staffing

Our engineering staff has 15 Master's degrees in Civil Engineering, Engineering, Engineering Management, and Business Administration. Participation in post Bachelor of Science curricula, as well as continuing education and professional registration that emphasizes engineering management and technical issues, are very important to Eustis Engineering. Our engineers also regularly present in technical conferences. We encourage and fund our staff for these activities and programs.

Employee	Education	Experience	
		Years with Eustis Engineering	Total Years
Professional Engineers (P.E.)			
Benjamin M. Cody	M.S. / Civil Engineering	20	24
Brian A. Deschamp	B.S. / Civil & Environmental Engineering	9	9
	B.A. / Business Administration		
James J. Hance	M.S. / Civil Engineering	18	22
	M.B.A. / Business Administration		
Chad L. Held	M.S. / Civil Engineering	30	30
David J. Indest	M.S. / Civil Engineering	20	20
Matthew K. Morales	B.S. / Civil Engineering	12	12
Travis R. Richards	M.S. / Engineering	15	22
	M.S. / Engineering Management		
	Coastal Engineering Certificate		
Gwendolyn P. Sanders	M.S. / Engineering	28	28
Shaun R. Simon	M.S. / Civil Engineering	21	21
Patrick A. Thurmond	M.S. Engineering Management	6	6
	M.S. / Civil Engineering		
	Coastal Engineering Certificate		
Sean G. Walsh	M.S. / Civil Engineering	9	14
Benjamin G. Weinberg ⁽¹⁾	B.S. / Civil & Environmental Engineering	1	8
	M.B.A. / Business Administration		

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

Employee	Education	Experience	
		Years with Eustis Engineering	Total Years
Henry C. Worley	B.S. / Civil Engineering	3	5
	Coastal Engineering Certificate		
Engineering Interns (E.I.)			
Patrick T. Duckworth	M.S. / Civil Engineering	1	1
Lars A. Erickson	B.S. / Civil & Environmental Engineering	5	5
	Coastal Engineering Certificate		
Tomas K. Morales ⁽³⁾	B.S. / Civil Engineering	8	8
Joel R. Smith	B.S. / Civil Engineering	1	5
James M. Williams ⁽²⁾	M.S. / Civil Engineering	3	3
Engineering Graduates			
Lesley L. Reitmeyer	B.S. / Civil Engineering	12	12
Sean T. Smith ⁽³⁾	B.S. / Civil Engineering	5	5
Geologists			
Matthew J. Blasini	B.S. / Geology	1	2
Total Years of Experience		228	262

- (1) P.E. outside Louisiana.
- (2) Passed P.E. Exam, licensure pending one more year of experience.
- (3) Long Term Subcontractor

Cone Penetration Testing Capabilities

Eustis Engineering owns two dedicated track mounted CPT rigs and operates four other multi-purpose rigs that can perform CPTs. Operators are either specifically trained engineering technicians or engineers who perform the field operations utilizing the CPT equipment. Engineers with specialized knowledge and experience operating the rigs evaluate the sounds and produce the CPT logs. Five of our CPT rigs can be placed on a cargo buggy, shallow draft barge, or airboat to access coastal marsh or open water.

Dynamic Pile Testing Capabilities

Eustis Engineering was the first private consulting firm to own and operate dynamic pile testing equipment in the States of Louisiana and Mississippi. The pile types tested include timber piles; small size pipe piles; square, precast concrete piles and large (60 to 72-in. diameter) spun-cast, prestressed, concrete piles; open and closed end steel pipe piles, and steel H-piles.

We recently upgraded our data collectors and now operate four Pile Driving Analyzers® (PDAs) - two PAX units and two PDA-8G units. These units can be battery operated and use wireless gauge transmitters to eliminate the need for a main cable to connect directly to the units. We also stock and have used underwater gauges to monitor pile driving in marine environments when the pile head descends below the water surface.

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

To support our four PDA units, Eustis Engineering maintains an extensive inventory of calibrated gauges and accessories. To provide quality assurance and rapid response to issues in the field, all PDAs have wireless communication, enabling our engineers direct oversight of the dynamic pile testing process in real time.

We also use this PDA equipment to maintain the calibrations of our automatic SPT hammers on our drill rigs.

Other Non-Destructive Testing Capabilities

Our engineering staff at Eustis Engineering also performs other non-destructive testing services to verify the structural integrity of drilled shafts, augercast piles, and precast concrete piles. Some of these processes include crosshole/single-hole sonic logging (CSL or SSL), low strain pile integrity testing (PIT), and thermal integrity profiling (TIP). We also perform parallel seismic testing to evaluate existing foundation depths.

INSTRUMENTATION

Eustis Engineering has installed geotechnical instrumentation for decades. Our instrumentation programs have resulted in substantial cost savings to our clients by reducing preload durations, providing refinement of geotechnical design parameters through full scale testing, and verifying the performance of cutting edge designs. Our services go beyond the construction phase, as long term monitoring programs enable owners to maximize utilization of their facilities throughout the design life by verifying soil behavior is within acceptable limits.

Eustis Engineering provides the following instrumentation services.

- Vibrating wire devices including piezometers, extensometers, settlement gauges, and strain gauges
- Data loggers to enable periodic collection of data for vibrating wire devices
- Data links for remote web access to loggers in near real time
- Settlement plates
- Conventional slope inclinometers or MEM sensor array inclinometers
- Monitoring services of all instrumentation devices with geotechnical interpretation

Instrumentation is a natural complement to our design services, providing data to verify or modify recommendations based on the observational method. Ongoing monitoring enables us to provide continuing services from project inception to the end of a project's design life.

DRILLING

Eustis Engineering possesses licenses and credentials to perform geotechnical drilling in Louisiana and Mississippi (no license is needed in Texas). With our licenses and credentials, Eustis Engineering drills soil borings and performs sampling operations for our clients' projects in all types of environments including land, marsh, swamp, and marine. Our personnel have the capability and experience to provide these services from trucks, barges, pontoons, and swamp or marsh buggies.

Personnel

We can provide up to eight drillers and drill rigs capable of obtaining standard 3-in. diameter Shelby tube samples and 5-in. diameter fixed piston samples on land, and in water and marsh environments as indicated in the following table.

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

Capabilities of Eustis Engineering's Drill Staff	Scott Bombard	Jordan Brightwell	James Cordes	Rene Davidson	Eric Held	Julius Ivery	James Lubben	George Reitmeyer	Lawrence Rome
Hand Auger Borings	X	X	X	X	X	X	X		X
General Type (3-in. Diameter Borings)	X	X	X	X	X	X	X		X
General Type (3-in. Diameter Borings) in Hard Access Locations (Marsh, Swamp, Heavily Forested)	X	X	X	X	X	X	X		X
Undisturbed Type (5-in. Diameter Borings)	X	X	X	X	X	X	X		X
Undisturbed Type (5-in. Diameter Borings) in Hard Access Locations (Marsh, Swamp, Heavily Forested)		X	X	X	X	X	X		X
Boring Location Information (Elevation, Latitude, Longitude, Station, Offset)		X	X	X	X	X	X		X
Set Permanent Benchmarks		X	X	X	X	X	X		X
Install Instrumentation		X	X	X	X	X	X		X
Cone Penetration Tests					X			X	
Geoprobe® Sampling	X		X		X		X		X

Equipment

Eustis Engineering owns and operates six wet rotary drill rigs, both truck and skid mounted. This equipment includes one Diedrich truck mounted D-50 turbo drill rig (with an automatic SPT hammer); one Failing skid only rig (with an automatic SPT hammer); one truck mounted CME-55 rig; one track mounted CME-850X rig with an automatic hammer; one track mounted CME-850XR rig with an automatic hammer; and one truck mounted CME-55 rig with a detachable CME-55 skid unit and automatic hammer. We also own two track mounted cone penetrometer systems capable of providing up to 15 tons of reaction. Our CME track rigs provide low ground pressure and are designed to traverse soft ground surfaces, steep slopes, and lightly wooded areas.

Eustis Engineering also owns four direct push Geoprobe® units, two 3230DTs, the 6620DT and the 540M. Eustis Engineering's 6620DT/3230DT Geoprobe with their 12-in. tracks allow this equipment to be used on pavement as well as off road and in rugged terrain. The 6620DT and 3230DT rigs also can be placed on specialized equipment. This includes a jack-up barge and a cargo buggy for operations over marsh/water. These units can install shallow monitoring wells and other instrumentation. We also have the capability to perform CPTs using the 3230DT rigs.

Our 540M Geoprobe can fit into confined spaces as narrow as 32 inches. The 540M can also be utilized on an airboat for coastal terrains.

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

LABORATORY

Eustis Engineering's laboratories are constantly evolving with the purchase of new equipment on a yearly basis. Our gINT® data management software allows for maximum efficiency in production of boring logs and data entry.

Eustis Engineering has also recently acquired OpenGround®, Bentley's Cloud platform, which interfaces with a collection of geotechnical applications. OpenGround provides a comprehensive solution for collecting, reporting, managing, visualizing, analyzing, and accessing data. Its advanced digital workflows combine both subsurface and surface data into one cohesive design. This software will provide Eustis Engineering's team members access to a data source via connected applications or a web portal, increasing collaboration and efficiency. The improved access and reliability will save time and money in the planning, design, analysis, construction, and operation of infrastructure projects.

Eustis Engineering has also acquired KeyLAB® from Bentley. KeyLAB is the leading laboratory management system built specifically for geotechnical and construction materials testing laboratories. It improves our laboratory efficiency at every stage of the geotechnical and construction testing process, including sample and storeroom management, as well as electronic scheduling, testing, and reporting. It integrates with Microsoft Excel® allowing for easily customized worksheets and reports.

Technical testing common to our laboratories includes ASTM, ACI, LaDOTD, AASHTO, FAA, and U.S. Army Corps of Engineers. Our laboratories hold accreditations from AASHTO, LaDOTD, and the U.S. Army Corps of Engineers.

Staffing

Eustis Engineering currently has more than a dozen technicians to perform soil mechanics laboratory testing. These technicians are versed in the latest standards from ASTM, LaDOTD, MDOT, AASHTO, FAA, and the U.S. Army Corps of Engineers. Many of our technicians have earned certifications with the National Institute for Certification in Engineering Technologies (NICET) in the area of geotechnical engineering technology and in the subfields of construction, exploration, generalist, and laboratory.

Laboratory Quality Control

In our effort to ensure the quality of our laboratory and materials testing, our programs are regularly inspected by outside agencies such as the U.S. Army Corps of Engineers, the AMRL Group of the American Association of State Highway and Transportation Officials, and the CCRL Group of AASHTO. Eustis Engineering is also accredited by the Mississippi Department of Transportation. Eustis Engineering's laboratory is accredited with the AASHTO Materials Reference Laboratory (AMRL) in the areas of soil, aggregate, and Portland Cement Concrete.

Eustis Engineering has three soil mechanics laboratories where our laboratory practices and quality management system meet the requirements of AASHTO R 18 and ASTM E329. These offices are in Metairie, Baton Rouge, and Gulfport. Individual offices may comply with ASTM quality system specifications including ASTM C1077, ASTM D366, and ASTM D3740. Accreditations in the various areas are shown below.

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

Metairie	Baton Rouge	Gulfport
Aggregate		Aggregate
Asphalt	Aggregate	Asphalt
Concrete	Soil	Concrete
Masonry	Spray Fire-Resistive Material	Soil
Soil		Spray Fire-Resistive Material

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

Signature:  Print Name: Gwendolyn P. Sanders, P.E.
 Title: President Date: 10 May 2021



Statement of Qualifications

AFFIDAVIT

STATE OF LOUISIANA

PARISH/COUNTY OF JEFFERSON

BEFORE ME, the undersigned authority, personally came and appeared: **Gwendolyn P. Sanders, P.E.**, (Affiant) who after being by me duly sworn, deposed and said that she is the fully authorized **President of Eustis Engineering L.L.C.** (Entity), the party who submitted a Statement of Qualifications (SOQ) to **provide Geotechnical Engineering Services Related to the Design for the Rehabilitation of the Transcontinental & Belle Lift Station (E8-1)** to the Parish of Jefferson.

Affiant further said:

Campaign Contribution Disclosures

(Choose A or B, if Option A is indicated please include the required attachment):

Choice A **X** Attached hereto is a list of all campaign contributions, including the date and amount of each contribution, made to current or former elected officials of the Parish of Jefferson by Entity, Affiant, and/or officers, directors, and owners, including employees, owning 25% or more of the Entity during the two-year period immediately preceding the date of this affidavit or the current term of the elected official, whichever is greater. Further, Entity, Affiant, and/or Entity Owners have not made any contributions to or in support of current or former members of the Jefferson Parish Council or the Jefferson Parish President through or in the name of another person or legal entity, either directly or indirectly.

Choice B _____ There are **NO** campaign contributions made which would require disclosure under Choice A of this section.

Affiant further said:

Debt Disclosures

(Choose A or B, if Option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all debts owed by the affiant to any elected or appointed official of the Parish of Jefferson, and any and all debts owed by any elected or appointed official of the Parish to the Affiant.

Choice B X There are **NO** debts which would require disclosure under Choice A of this section.

Affiant further said:

Solicitation of Campaign Contribution Disclosures

(Choose A or B, if Option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all elected officials of the Parish of Jefferson, whether still holding office at the time of the affidavit or not, where the elected official, individually, either by **telephone or by personal contact**, solicited a campaign contribution or other monetary consideration from the Entity, including the Entity's officers, directors, and owners, and employees owning twenty-five percent (25%) or more of the Entity, during the two-year period immediately preceding the date the affidavit is signed. Further, to the extent known to the Affiant, the date of any such solicitation is included on the attached list.

Choice B X There are **NO** solicitations for campaign contributions which would require disclosure under Choice A of this section.

Subcontractor Disclosures

(Choose A or B, if Option A is indicated please include the required attachment):

Choice A _____ Affiant further said that attached is a listing of all subcontractors, excluding full time employees, who may assist in providing professional services for the aforementioned SOQ.

Choice B X There are **NO** subcontractors which would require disclosure under Choice A of this section.

Affiant further said:

That Affiant has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the Affiant who services in connection with the construction, alteration, or demolition of the public building or project, or in securing the public contract, were in the regular course of their duties for Affiant; and

That no part of the contract price received by Affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the Affiant who services, in connection with construction, alteration, or demolition of the public building or project, were in the regular course of their duties for Affiant.



Signature of Affiant

Gwendolyn P. Sanders, P.E.

Printed Name of Affiant

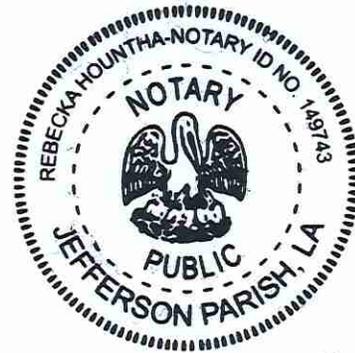
SWORN AND SUBSCRIBED TO BEFORE ME
ON THE 10 DAY OF May, 2021.

Rebecka Hountha
Notary Public

Rebecka Hountha
Printed Name of Notary

149743
Notary/Bar Roll Number

My commission expires at my Death



**POLITICAL CONTRIBUTIONS MADE TO JEFFERSON PARISH OFFICIALS
BY EUSTIS ENGINEERING L.L.C.
BETWEEN 1 JANUARY 2016 AND PRESENT DAY**

Politician	Political Office	Date	Amount
Dominick Impastato	Parish Council - District 4	4/18/2018	\$1,000
Paul D. Johnston	Parish Council - District 2	7/06/2017	\$1,000
Paul D. Johnston	Parish Council - District 2	3/08/2018	\$500
Paul D. Johnston	Parish Council - District 2	9/11/2018	\$1,000
Cynthia Lee-Sheng	Council-at-Large - Division B	4/26/2018	\$1,000
Mark D. Spears Jr.	Parish Council - District 3	12/07/2017	\$500
Mark D. Spears Jr.	Parish Council - District 3	1/26/2017	\$500
Mark D. Spears Jr.	Parish Council - District 3	7/30/2018	\$500
Ricky Templet	Parish Council - District 1	4/08/2019	\$1,000
Ricky Templet	Parish Council - District 1	3/17/2021	\$1,000
Jennifer Van Vrancken	Parish Council - District 5	1/23/2017	\$1,000
Jennifer Van Vrancken	Parish Council - District 5	5/02/2018	\$500
John Young	Parish President	10/12/2018	\$1,000

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Rehabilitation of the Transcontinental & Belle Lift Station
Resolution No. 137449

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

Marrero, Couvillon & Associates, LLC.
3525 Hessmer Ave., Suite 304
Metairie, LA 70002

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:

Greg DeCoursey, AIA
Vice President
Project Manager/Architect
(504) 834-3448
gdecoursey@mca-llc.com

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

Greg DeCoursey, AIA
Vice President
Project Manager/Architect
(504) 834-3448
gdecoursey@mca-llc.com

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

<u>3</u> Administrative	<u> </u> Estimators	<u> </u> Specification Writers
<u>1</u> Architects (Licensed)	<u> </u> Geologists	<u>1</u> Structural Engineers
<u> </u> Chemical Engineers	<u> </u> Geotechnical Engineers	<u> </u> Graduate Engineers
<u> </u> Civil Engineers	<u> </u> Interior Designers	<u>1</u> Project Managers
<u> </u> Construction Inspectors	<u> </u> Landscape Architects	<u> </u> Clerical
<u> </u> Ecologists	<u> </u> Land Surveyor	<u> </u> Grant/Funding Specialist
<u>4</u> Electrical Engineers	<u>4</u> Mechanical Engineers	<u> </u> Sanitary Engineers
<u> </u> Engineer Intern	<u> </u> Environmental Engineers	<u>2</u> Designers
<u> </u> Professional Land Surveyors	<u>1</u> CADD Operators	<u>1</u> Fire Protection Engineer
		<u>18</u> TOTAL

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

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

TEC Professional Services Questionnaire

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

1.

2.

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

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

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

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

4

TEC Professional Services Questionnaire

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

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Gregory A. DeCoursey, AIA
Vice President, Project Manager

Project Assignment:

Project Manager

Name of Firm with which associated:

Marrero, Couvillon & Associates, LLC.

Years' experience with this Firm:

25

Education: Degree(s)/Year/Specialization:

B Arch / 1977 / Architecture M Arch/1982/Architecture

Active registration: Year first registered/discipline:

1980 / Architectural

Other experience and qualifications relevant to the proposed Project:

Mr. DeCoursey has served as Project Manager for Engineering Projects for the Louisiana Department of Transportation and Development and for other Public Works and Private Sector Commercial projects. A list of a few projects that Mr. DeCoursey is serving, or has served, as Project Manager on include:

- **Louis Armstrong New Orleans International Airport – New Terminal Design, Kenner, LA** – Mechanical, Electrical, Plumbing, and Fire Protection design for a new terminal that replaced the existing 60 year old Passenger Terminal Building. This project also included design services for related projects to relocate the existing Airfield Lighting Vault, and three radar stations.
- **U.S. 11 Bridge Over Lake Pontchartrain Rehabilitation - Orleans Parish** - Architectural and mechanical design for rehabilitation of two Operator's Houses at an existing bridge over Lake Pontchartrain. Work is being done as part of a larger bridge rehabilitation project. Design is sensitive to the historic nature of the bridge and Operator's Houses.
- **Gallier Hall, New Orleans, Louisiana** - MCA provided mechanical and electrical design services for recently completed updates to New Orleans' former City Hall. The main focus of MCA's scope for the project was replacement of most components of the building's HVAC systems.
- **Coroner Office Complex – New Building, New Orleans, Louisiana** - Design of the electrical systems, HVAC systems, plumbing systems, fire suppression systems for a two building facility which provides new quarters for the Coroner and EMS operations in the City of New Orleans. In the design of these facilities, it was necessary to accommodate the very rigorous needs of the specialized operations and equipment of the end users.
- **Festival Field, New Orleans, Louisiana** - City Park in New Orleans hosts several music festivals annually, including the large and popular Voodoo Fest. In addition to outgrowing their locations, these festivals required installation of temporary facilities for every event. The management of City Park decided to create a new, permanent location for festivals within the park, with new permanent infrastructure. This area also includes a soccer field, walking/running paths and a large pavilion for social gatherings. The design included a solar power installation on the pavilion, a rainwater harvesting system, and bio-swale wetland planting areas. MCA provided mechanical and electrical design for this project.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Robert Mejia, P.E. Sr. Electrical & Instrumentation Engineer
Project Assignment:
Sr. Electrical & Instrumentation Engineer
Name of Firm with which associated:
Marrero, Couvillon & Associates, LLC.
Years' experience with this Firm:
5
Education: Degree(s)/Year/Specialization:
Bachelor of Science/1987/Electrical Engineering
Active registration: Year first registered/discipline:
1993 / Electrical/Control Systems
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Mejia has over 32 years' experience with instrumentation, control systems, Safety Instrumented Systems (SIS) and SCADA equipment. He works closely with process specialists to categorize and design control systems to comply with current industry requirements as well as client specific requirements. He applies existing client specifications for control systems/SCADA and helps develop specifications when these do not exist. He is proficient with application of design practices promulgated by standards organizations such as ISA, NFPA, API, TIA/EIA and IEEE. Some of his recent experience includes:</p> <ul style="list-style-type: none"> • Jefferson Parish Public Works - Bayou Segnette Pump Station Upgrade, Westwego LA - Replace 6 diesel pump driver units. Interface skid mounted diesel engine controllers and gearbox instrumentation with existing Murphy Panels and Parish SCADA system. • St. Mary Government– Amelia Pump Station 2 and 2A, St. Mary Parish, LA – Installation of a 48” pump that will replace an existing 20” pump at the pumping station, a new pump house and associated power. Installation of new alternator control system to link new pump with existing 48” pump and stage/alternate operation of both pumps based on water level and operating sequence. • Cyprien Pumping Station Improvements, Lafourche Parish, LA – MCA provided the electrical engineering services for a pump station structure with three 48” axial flow pumps and a separate fuel tank structure. The existing pump station was removed in its entirety prior to construction of the new pump station. • Sewage and Water Board – EWWTP Effluent Pump Station Expansion, New Orleans, LA – MCA is providing electrical and instrumentation engineering for a new priming system at the effluent outfall, lowering the EPS system curve and its energy grade line and a new 1,000-hp pump at the EPS, similar in configuration and capacity to the two existing 1,000-hp pumps. MCA will also be providing electrical and instrumentation engineering for the modifications of the EPS pump discharge header to accommodate the new pump(s) and to allow improve the flow of the parallel effluent force mains. • City of New Orleans –Mirabeau Water Garden - A 25 acre site at Mirabeau Ave. and St. Bernard Ave. is being developed into a 9.5MM gallon surge stormwater retention site as part of the comprehensive New Orleans Water Plan. The facility will include a lift station building, water runnel feature, area lighting and plans for future buildings used for educational and assembly purposes. MCA is handling the Mechanical, Electrical and Plumbing design.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
John Hamm, P.E. Sr. Electrical Engineer
Project Assignment:
Sr. Electrical Engineer
Name of Firm with which associated:
Marrero, Couvillon & Associates, LLC.
Years' experience with this Firm:
8
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 1981 / Electrical Engineering
Active registration: Year first registered/discipline:
2004 / Electrical
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Hamm has over 38 years' experience in electrical engineering, design and construction assistance. His experience includes electrical distribution systems, medium voltage switchgear and breakers, transformers, 480-volt motor control centers, variable frequency drives, automatic transfer switches, uninterruptible power supplies, emergency generators, area classification evaluation, instrument specifying, PLC specifying, lighting design and commercial designs including lighting, communication, fire alarm and special system design. Project Experience Includes:</p> <ul style="list-style-type: none"> • Ascension Parish Pump Station – New Sewage Pump Stations - MCA was engaged in designing the electrical power, controls designs, and standby generator size for the pump load at each site. • East Baton Rouge City/Parish – Sanitary Overflow Program - Multiple Pump Stations – Highland Road – Kenilworth Pkwy. – Replacing 13 pump stations to alleviate SSO's at and near the pump stations and in the respective upstream basins. This will also provide capacity to handle predicted future peak wet weather flows. • Storm Drain Pump Station, Slidell and Metairie, LA - Power, instrumentation and controls system design for storm drain pumping stations. • New raw water pumping station – Morgan City, Louisiana - A new three pump platform to take water from the Atchafalaya River for the water plant at Morgan City, Louisiana. • Jefferson Parish Public Works - Bayou Segnette Pump Station Upgrade, Westwego LA - Replace 6 diesel pump driver units. Interface skid mounted diesel engine controllers and gearbox instrumentation with existing Murphy Panels and Jefferson Parish SCADA system. • Marvin J. Braud Pump Station, Gonzales, LA - MCA prepared the Electrical and Control Systems CDs for the expansion of the pumping station by adding Diesel Driven pump motors, a new line-up of 480 MCC, a new 480VAC 3 Phase power service, new lighting for the pump building, and emergency power generation (EPG) for miscellaneous electrical loads and another EPG for the critical life-safety electrical loads. MCA performed electrical engineering services for the installation of the addition of pump No. 6 driven by 1250 HP internal combustion engines.

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:	
Bayou Segnette Drainage Pump Station Jefferson Parish MCA is subconsultant to: Rahman & Associates, LLC 3645 Williams Blvd #208 Kenner, LA 70065	Electrical engineering services for Bayou Segnette Drainage Pump Station, Westwego, LA—Pump Station Improvements to Bayou Segnette Drainage Pump Station No. 1, including the replacement of 4—150 CFS pumps and 6 engines, the rehabilitation of 6 existing gear boxes and related ancillary work.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020	\$3,500,000	\$700,000

PROJECT NO. 2		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Multiple Pump Stations East Baton Rouge Parish East Baton Rouge City/Parish MCA Subconsultant to AECOM 8757 Woodway Dr., Suite 101 West Houston, TX 77057	<p>Department of Public Works projects for the upgrade of multiple pump stations in the Highland Road/ Kenilworth area located in East Baton Rouge Parish. The project includes the upsizing of 9 pump stations and the construction of 2 pump stations to alleviate Sanitary Sewer Overflow at and near the pump stations and in respective upstream basins. The improvements will provide capacity to handle predicted future peak wet weather flows. The scope of work encompasses residential and commercial areas as well as Louisiana State University facilities.</p> <p>MCA was engaged in designing the electrical power, controls designs and standby generator size for the pump load at each site in accord with DPW standards.</p> <p>The scope of services includes: Investigations, Preliminary Design, Detailed Design, Bidding Services and Engineering Services During Construction</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2017	\$30,000,000	\$7,000,000

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
East Bank Wastewater Treatment Plant Effluent Pump Station New Orleans, LA MCA is a subconsultant to: Greenpoint Engineering Amer Tufail, P.E. 701 Loyola Ave. New Orleans, LA 70113	MCA is providing electrical and instrumentation engineering for a new 1,000 HP, 36" pump at the EBWWTP Effluent Pump Station, similar in configuration and capacity to the two existing 1,000 HP 36" pumps. MCA will also be providing electrical and instrumentation engineering for the modifications of the EPS pump discharge header to accommodate the new pump and to allow improve the flow of the parallel effluent force mains. MCA is providing electrical engineering and design to specify the new motor, drive and control, and their integration with the currently planned upgrades of the EPS electrical system. MCA is also providing electrical system modeling and upsizing one substation transformer & relocating another transformer to accommodate the additional electrical load due to the new 1000 HP pump.	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2021	\$5,500,000	\$3,000,000

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Baton Rouge City Parish Sewer Project East Baton Rouge Parish MCA Subconsultant to: Evans-Graves /Burk-Kleinpeter 9800 Airline Highway, Suite 200 Baton Rouge, LA <div style="text-align: center; margin-top: 10px;">  </div>	The Department of Public Works initiated projects for the upgrade of the Metro Airport Area sewer pump station and force main upgrades, located in East Baton Rouge Parish. The project includes 8 pump stations in the area to alleviate sanitary sewer overflow. The improvement will provide capacity to handle predicted future peak wet weather flows. The scope of work encompasses residential and commercial areas as well as Baton Rouge Metro Airport. MCA was engaged in designing the electrical power, controls, designs and standby generator size for the pump load at each site in accord with DPW standards. The scope of services includes Investigations, Preliminary Design, Detailed Design, Bidding Services, and Engineering Services During Construction.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2014	\$30,000,000	\$9,000,000

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Ascension Parish 6 Pump Stations Ascension Parish MCA Subconsultant to: Evans-Graves 9800 Airline Highway, Suite 200 Baton Rouge, LA	The submersible wastewater pump stations are located throughout Ascension Parish. There are a total of 6 duplex pump stations serving facilities in Darrow, Louisiana. The purpose of this project was to upgrade existing pump stations and design new installations for Ascension Parish Public Works. This includes design of a control system for pump operation and coordination with Entergy for build out of the power infrastructure for service at the new sites. MCA was engaged in designing the electrical power, controls designs, and standby generator size for the pump load at each site. The scope of services includes Investigations, Preliminary Design, Detailed	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2021	\$400,000	\$125,000

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Baton Rouge City/Parish Sewer Project East Baton Rouge Parish MCA Subconsultant to: CSRS 6767 Perkins Road, Suite 200 Baton Rouge, LA 70808	Multiple Pump Stations for the East Baton Rouge City/Parish Department of Public Works - Jefferson Hwy - Park Forest Dr. – The project included replacing five pump stations. The upgrades will work in conjunction with force main upgrades in other South Forced Upper Basin projects to alleviate chronic SSO's at and near the five pump stations. MCA is a subconsultant to CSRS MCA was engaged in designing the electrical power, controls designs and standby generator size for the pump load at each site in accord with DPW standards. The scope of services includes Investigations, Preliminary Design Technician, Detailed Design, Bidding Services, and Engineering Services During Construction.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2012	\$25,000,000	\$7,000,000

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Marvin J. Braud Pump Station Ascension Parish MCA Subconsultant to: Burk-Kleinpeter Tony Moschella, P.E. P. O. Box 19087 New Orleans, LA 70179</p> <div style="text-align: center;">  </div>	<p>The Marvin J Braud Pump Station Basin covers the central and northern portions of East Ascension Parish including the City of Gonzales and Prairieville, Louisiana, and East Ascension Consolidated Gravity Drainage District.</p> <p>MCA prepared the Electrical and Control Systems CDs for the expansion of the pumping station by adding Diesel Driven pump motors, a new line-up of 480 MCC, a new 480VAC 3 Phase power service, new lighting for the pump building, and emergency power generation (EPG) for miscellaneous electrical loads and another EPG for the critical life-safety electrical loads. MCA performed electrical engineering services for the installation of the addition of pump No. 6 driven by 1250n HP internal combustion engines. MCA was responsible for the modifications to upgrade the electrical utility service; Relocate the electrical utility transformers; Upgrade the existing stand by emergency power generator and install a second generator unit; Upgrade the electrical and electronic monitoring and operation control system for the existing five drainage pumps driven by 1250 HP internal combustion engines; Design the installation of the electrical power and control systems for the operation of the drainage pumps and auxiliary equipment; Design the installation of the electronic instrumentation systems for the operation and monitoring of the new pump N-6; Design the installation of lighting. Communication, security systems in the extension of the pump house.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2014	\$5,000,000	\$1,000,000

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>St. James Pump Station St. James Parish MCA was subconsultant to: Professional Engineering Consultants Tony Arikol, P.E. 7600 Innovation Ave. Baton Rouge, LA 70816</p>	<p>St. James Parish planned installation of 6 new pumping stations across the parish. MCA was responsible for the electrical power and controls design for the installation of these stations. Each station had 2 pumps which ranged from 5 to 10 hp.</p> <p>MCA provided preliminary design, construction documents, specifications, bid phase services, and construction assistance.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2015	Unknown	\$19,943 (Fee)

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
St. Tammany Pump Station St. Tammany Parish MCA was subconsultant to: Professional Engineering Consultants Tony Arikol, P.E. 7600 Innovation Ave. Baton Rouge, LA 70816	St. Tammany Parish upgraded 5 pumping stations in the Covington area. The pumps in these stations were replaced with larger pumps which required the controllers and associated electrical equipment be upgraded for the larger motors. MCA was responsible for the electrical power and controls design for the installation of these stations. Each station had 2 pumps which ranged from 5 to 15 hp. MCA provided preliminary design, construction documents, specifications, bid phase services, and construction assistance.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2015	Unknown	\$15,351 (Fee)

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
St. Mary Parish Government – Amelia Pump Station 2 and 2A St. Mary Parish, Louisiana MCA was subconsultant to T. Baker Smith Thomas Naquin 17534 Old Jefferson Hwy. #D1 Prairieville, LA 70769	Installation of a 48" pump that will replace an existing 20" pump at the pumping station, a new pump house and associated power. Installation of new alternator control system to link new pump with existing 48" pump and stage/alternate operation of both pumps based on water level and operating sequence.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018	Unknown	\$10,000 (Fee)

TEC Professional Services Questionnaire

M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.		
	Parties:	
Plaintiff:	Defendant:	Status/Result of Case:
1. None		
2.		
3.		
4.		
N. Use this space to provide any additional information or description of resources supporting Firm's qualifications for the proposed project.		
<p>MARRERO, COUVILLON & ASSOCIATES, LLC (MCA) is an engineering design consulting firm with over forty years of experience. Our engineering services include electrical, mechanical and plumbing (MEP) disciplines. Services within these disciplines include:</p> <ul style="list-style-type: none"> • Investigation/Evaluation/Recommendations for existing systems • Design of new or upgraded MEP systems • Construction Administration services • Field Inspection services. <p>The firm is current with today's rapidly changing design technologies. In this regard, MCA offers design documentation in Revit, AutoCAD and Microstation.</p> <p>Founded in Baton Rouge in 1968 by Hugo A. Marrero, Sr., P.E, MCA operates a second location in Metairie, La. The Metairie location is managed by Greg DeCoursey, A.I.A. Our in-house architect serves as a beneficial liaison between our engineering design teams and the over-all project concept.</p> <p>MCA's certification as a Disadvantaged Business Enterprise (DBE) by the Unified Certification Program of the Louis Armstrong New Orleans International Airport, and the Louisiana Department Of Transportation And Development (DOTD) adds value to many publicly funded projects. Additional certifications include:</p> <ul style="list-style-type: none"> • State and Local Disadvantaged Business Enterprise (SLDBE) • Small Entrepreneurship – Hudson Initiative • Small and Emerging Business Development (SEBD) • Small Business Administration 8A (SBA 8a) <p>In addition to our capacity as prime consultant on projects for owners, contractors, and governmental agencies, Marrero, Couvillon also performs engineering services as a sub-consultant to other design professionals. Our work covers a diverse range of public, commercial and industrial projects; large and small including:</p> <ul style="list-style-type: none"> • Sewerage and Drainage • Historical Renovations • Parks and Recreation, including zoos • Commercial facilities such as hotels and restaurants • Government facilities • Airports – terminals, hangars, airfield power/lighting 		

TEC Professional Services Questionnaire

- Highways, Bridges and Tunnels
- Industry, including sugar processing facilities and petrochemical installations
- Universities and schools.

MCA's team of experienced engineers, design technicians, Computer Aided Design/Drafting (CADD) staff, field technicians and specification writers work under the supervision of experienced project managers to develop professional construction documents used for the execution of engineering projects.



The Firm's experience in the design of systems for the operation of pumping stations and the modification and upgrade of existing ones, include numerous projects in South Louisiana. The Firm's design concepts are based on state of the art technology and the application of MCA's experience in the selection of the best equipment for the project.

1. Professional training and experience in relation to the type of work required for the routine engineering services. The team of professionals at Marrero, Couvillon & Associates, LLC. has varied and extensive experience in providing engineering services as prime consultant, or as subconsultants for sewerage and drainage projects. Our company has over 50 years of experience. Within the last five years MCA has successfully completed or is currently working on the following sewerage and drainage projects:

Project Name	Client
M. J. Braud Pump Station Expansion	Ascension Parish
Zachary Americana Pump Station Installation	City of Zachary
St. John Airport Road Wastewater Pump Station	St. John the Baptist Parish
Upgrade Existing Pump Station and Design New Installations	Darrow, Louisiana, Ascension Parish
Upgrade Metro Airport Area Sewer Pump Station	Department of Public Works, City of Baton Rouge
Sewer System Upgrades Multiple Pump Station Improvements	City of Baton Rouge
Generator Reconfiguration for Pump Station No. 45	City of Baton Rouge
Sewerage Lift Station by Freight Receiving Building	New Orleans International Airport
Upsizing Multiple Pump Stations and Construction of 2 New Pump Stations	Department of Public Works, City of Baton Rouge
St. James Parish Phase 1 – Wastewater Collection	St. James Parish
St. James Parish Additional Pump Stations	St. James Parish
St. Tammany Parish Pump Station	St. Tammany Parish
Bayou Segnette Drainage Pump Station	Jefferson Parish
St. Mary Pump Station	St. Mary Parish

TEC Professional Services Questionnaire

2. Size of firm. Marrero, Couvillon & Associates has two complete departments for Mechanical Engineering and Electrical Engineering. Each department is run by a licensed Professional Engineer. Each department has designers and CAD technicians to proficiently handle the field visits, meetings, drawings and specifications meeting all code requirements to complete these projects safely, efficiently and to meet the needs of Jefferson Parish. Our staff of eighteen professionals are prepared to serve.

3. Work Load. Presently, MCA is seeking to diversify and expand its present workload and would welcome the opportunity to serve Jefferson Parish. As depicted in the chart below, many of our projects are in CA services or nearing completion.

Project Name and Location	Current Status
Ascension Parish Pumping Stations	CA Services
Lafayette Airport Terminal	CA Services
New Orleans City Hall Elevator/Mechanical Upgrades	CA Services
City of Galveston Pumping Station	Design
University Terrace	Design
Exxon QAL Lab	CA Services
New Orleans Municipal Courts	Design
New Orleans Union Station	CA Services
Baton Rouge Department of Environmental Services Building	Design
Louisiana Wetlands Education Center	CA Services
US 11 Bridge Rehabilitation	CA Services
St. Paul School Music Building	CA Services
International High School	CA Services
New Orleans DA Office Renovation	Bidding
New Orleans Police Department Firing Range	CA Services
Low Barrier Shelter (Phase 2)	CA Services
Emergency Maintenance Facility	CA Services
New Orleans Fire Department Storage Facility	Bidding

The staff of MCA recognizes the required activities for this project and concludes that MCA has the capacity to meet the requirements to develop all aspects of the work associated with this project. MCA staff assigned to this project will be scheduled with all of the time necessary to provide services required, at the time when they are needed.

4. Past Performance on Jefferson Parish contracts. Marrero, Couvillon & Associates welcomes the opportunity to provide engineering services for Jefferson Parish. We are currently performing services as subconsultants on the Bayou Segnette Pumping Station project, which is in the design phase. Prior to this project, MCA has not worked as a prime or subconsultant to the parish for many years. We have, however, been involved with many projects within Jefferson Parish, including current projects

TEC Professional Services Questionnaire

- 5. Location of the principal office.** Marrero, Couvillon & Associates offers two locations to best meet our client needs. Our Metairie office located at 3525 Hessmer Ave. will serve as our headquarters for this project.
- 6. Adversarial Legal proceedings between the Parish and the firm.** MCA has never encountered an adversarial situation with Jefferson Parish and plans to keep it that way.
- 7. References for successful completion of projects.** MCA is pleased to provide references for projects of similar nature. Please refer to Section 8, Work by Firm, Project owner names and contact information.

Marrero, Couvillon & Associates is excited to participate on this team in preparation of this statement of our qualifications, and we look forward to collaborating with them if awarded the opportunity to undertake any projects assigned by Jefferson Parish.

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



Signature: _____ **Print Name:** Greg DeCoursey, AIA