



Qualification Statement
for
Professional Engineering Services
for

May 26, 2021

**The Design of the Rehabilitation of the
Transcontinental & Belle Lift Station (E8-1)**
SOQ 21-008 - Resolution No. 137449



Lakefront Utility Crossing



Sewage Pumping Station No. 8



31ST and Jasper



Shelter No. 3

SUBMITTED BY:

Design Engineering, Inc.

Burk-Kleinpeter, Inc.

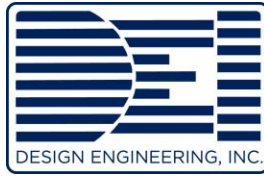
Bryant Hammett & Associates, LLC

Eustis Engineering, LLC



**BEST ENGINEERING FIRM
TOP WINNER 2020**





May 26, 2021

Jefferson Parish Council
c/o Eula A. Lopez
Parish Clerk
General Government Building
200 Derbigny Street, Suite 6700
Gretna, Louisiana 70053

Re: Qualification Statement
Provide Professional Engineering Services
to design the Rehabilitation of the Transcontinental
& Belle Lift Station (E8-1)
SOQ 21-008 - Resolution No. 137449

Dear Ms. Lopez:

In response to your Public Notice requesting qualification statements from engineering firms interested in providing routine engineering services for the Design of the Rehabilitation of the Transcontinental & Belle Lift Station (E8-1) SOQ 21-008 – Resolution No. 137449, Design Engineering, Inc. is pleased to submit the enclosed TEC Professional Services Questionnaire for your consideration.

The principals and technical staff members of Design Engineering, Inc. (DEI) have years of experience in the design of major sewer system projects for Jefferson and Orleans Parishes.

Design Engineering, Inc. is a local firm with its office in Jefferson Parish. Accordingly, all civil engineering work will be designed and supervised by a firm whose staff has years of experience designing projects for Jefferson Parish and is familiar with their procedures and criteria. We would appreciate the opportunity to demonstrate these capabilities on these projects.

Design Engineering, Inc. (DEI) has assembled the following design team to work on this project:

1. Burk Kleinpeter, Inc. will be responsible for the mechanical engineering work required for this project.

Design Engineering, Inc.
3330 West Esplanade, Suite 205, Metairie, Louisiana 70002
(504) 836-2155 • Fax (504) 836-2159 • E-mail: deiengr@dei-engr.com

2. Bryant Hammett & Associates, LLC will be responsible for the surveying work required for this project.
3. Eustis Engineering, LLC will be responsible for all geotechnical work required for this project.

As you will observe from the resumes, the staff members of the firm are experienced in local and state design procedures. Through many local engineering projects, this firm has established an excellent working relationship with the Jefferson Parish Department of Public Works and all private utility companies in the area and will coordinate all work with these agencies.

With respect to our current workload, our firm has the staff and capabilities presently available to complete this project in the most expeditious manner possible.

Design Engineering, Inc. is a Louisiana firm, domiciled in Jefferson Parish for over 36 years and is in close proximity to the project sites.

We look forward to being of service to Jefferson Parish and respectfully submit this qualification statement for your review and hope you will seriously consider our firm for this work.

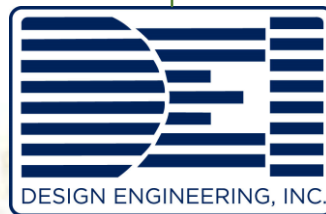
With best regards, I remain

Sincerely,
Design Engineering, Inc.



Jim Martin, Ph.D., P.E.
President

JM/dlh/S:\SUBMITTALS\JEFFERSON\2021 Submittals\Transcontinental - Belle Lift Station (E8-1)\Letter.doc



Project Management Team

James Martin, Ph.D., P.E., DEI
John Holtgreve, P.E., DEI

Civil/Structural Engineering

Ben Bartlett, P.E., P.T.O.E., DEI
Brett Liuzza, P.E., DEI
Brent French, P.E., DEI
John Karlin, SE P.E., DEI

Mechanical Engineering

Michael Chopin, P.E., BKI
Henry Picard, III, PE, PLS, BKI
Daniel Caluda, BKI
Robert Furlow, PE, BKI
J. Bart Mullis, III, PE, BKI

Surveying

Bryant Hammett, Jr., PE, PLS
Hugh "Bud" McCurdy, III, PLS

Geotechnical Engineering

Benjamin Cody, P.E., Eustis
Gwendolyn Sanders, P.E., Eustis

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Professional Engineering Services related to the **Design for the Rehabilitation of the Transcontinental & Belle Liff Station (E8-1)** SOQ 21-008 – Resolution No. 137449

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



Design Engineering, Inc.
3330 W. Esplanade Avenue, Suite 205
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:

Jim Martin, Ph.D., P.E., President
(504) 836-2155
jmartin@dei-engr.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.

Jim Martin, Ph.D., P.E., President
(504) 836-2155
jmartin@dei-engr.com

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

<u> 2 </u> Administrative	<u> </u> Estimators	<u> </u> Specification Writers
<u> </u> Architects (Licensed)	<u> </u> Geologists	<u> 2 </u> Structural Engineers
<u> </u> Chemical Engineers	<u> </u> Geotechnical Engineers	<u> </u> Graduate Engineers
<u> 4 </u> Civil Engineers	<u> </u> Interior Designers	<u> 1 </u> Project Managers
<u>12 </u> Construction Inspectors	<u> </u> Landscape Architects	<u> 2 </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> 2 </u> Engineer Interns	<u> </u> Environmental Engineers	
<u> </u> Professional Land Surveyors		<u>25 </u> TOTAL

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

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

TEC Professional Services Questionnaire

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

1. N/A

2. N/A

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

YES ☐ NO ☒

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. Burk-Kleinpeter, Inc. 4176 Canal Street New Orleans, LA 70119	Mechanical Engineering Services	Yes
2. Bryant Hammett & Associates, LLC 1104 Dealers Ave., Suite A Harahan, LA 70123	Surveying	Yes
3. Eustis Engineering, LLC 3011 28 th Street Metairie, LA 70002	Geotechnical Services	Yes

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

1 personnel not listed in Section E (drafter) will also work on the project.

TEC Professional Services Questionnaire

K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e. 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:

Jim Martin, Ph.D., P.E.
President

Project Assignment:

Principal

Name of Firm with which associated:

Design Engineering, Inc.

Years' experience with this Firm:

6

Education: Degree(s)/Year/Specialization:

Old Dominion University – Coastal Engineering Certificate, 2010
Tulane University – Doctor of Philosophy, 2003
Tulane University – Masters of Science in Environmental Engineering, 2000
University of Alabama – Bachelor of Science, Civil Engineering, 1998

Active registration: Year first registered/discipline:

2004, Civil Engineering, Louisiana License #31281

Other experience and qualifications relevant to the proposed Project:

31ST AND JASPER SEWER LIFT STATION, KENNER, LA: Dr. Martin was the Principal in Charge of the project. The work for the project included the **design and construction of a 100% new lift station** adjacent to the existing lift station while keeping the existing lift station operational nearly 100% of the time. The project was immediately adjacent to a traffic thoroughfare and also required innovative sequencing to limit the road closure to as short a period as possible.

LAKESHORE DRIVE SHELTER NO. 3 REPLACEMENT PROJECT: Dr. Martin was the Principal in Charge of this project which included the design of a 13,690 SF pile supported concrete slab and five (5) cast-in-place reinforced concrete canopy structures totaling 8,544 SF of covered area, separate men's and women's bathroom facilities, new 3" water line, 6" water line relocation, gas line relocation, 3" sewer force main to tie into the existing sewer system and the **installation of a sewer lift station with electrical control panel**.

SEWERAGE AND WATER BOARD OF NEW ORLEANS, REPLACEMENT OF 8 EXISTING SEWAGE PUMPING STATIONS: Dr. Martin was the Principal in Charge of this project included which included all work required for the complete replacement of 8 sewer lift stations that were damaged during Hurricane Katrina (Lawrence, Bullard, Lake Forest, Dodt, Plum Orchard, Victoria Sewage Pumping Stations, Sewage Pumping Station No. 6 and Sewage Pumping Station No. 8). Each of these stations was a separate design, bid, and construction and each one presented its own unique challenges.

TEC Professional Services Questionnaire

CHEVRON NORTHPARK - PHASES I AND II, COVINGTON, LOUISIANA: Dr. Martin was the Principal in Charge for this project which included the design of a 150 acre industrial subdivision, including the design of roadways and subsurface drainage, 5000 LF of 8" and 12", water distribution and fire protection system, a 150,000 gallon water storage tank, **sewerage lift stations, 5000 LF of 8" ø gravity sewer line**, and 1800 LF 8" diameter force mains and **sewerage treatment plant**.

WASTE WATER TREATMENT PLANT AT PARISH LINE (EFFLUENT PUMP STATION): Dr. Martin was the Principal in Charge for this project which included the design of a new intake structure at the parish line for the City of Kenner. Responsibilities for this project included engineering during construction which involved revisions to the intake structure, processing shop drawings and providing details due to construction problems.

SEWERAGE & WATER BOARD OF NEW ORLEANS, HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF EXISTING SEWAGE PUMPING STATIONS: Dr. Martin was the Principal in Charge for this project which was part of the Hurricane Katrina Related 404 Hazard Mitigation Grant Program. This project includes the design of an elevated bi-level sewage pumping station, including topographic survey of site, hydraulic analysis and design, geotechnical engineering report, Preliminary Design Report, preparation of detailed drawings, specifications, contract and bid documents, construction cost estimates and engineering during construction. DEI was also responsible for the design of 800 LF of 24" gravity sewer pipe installed 20 feet below grade. 650 LF of the gravity sewer pipe will be installed through Micro tunneling and the other 150 LF will be installed by open trench for the eight (8) sewer pump stations.

CITY OF KENNER SEWER IMPROVEMENT PROGRAM, \$37 MILLION PROGRAM COST: In order to address overflows throughout the City and at the Treatment Plant, the City constructed improvements to the gravity system, force main network, pumping stations, and treatment plant. As Program Manager, Dr. Martin was involved with project prioritization, consultant selection, contract negotiation, design completion, bidding, construction and closeout.

CITY OF SLIDELL SEWER MODEL: Dr. Martin assembled a computational Sewer Model for the City of Slidell to allow them to determine how to best employ their available resources. The model was developed completely within a GIS framework and was calibrated with data available from the City SCADA system as well as with rain data. This involved becoming involved with every aspect of the City sewer system, including water billing, facility operations, department of public works, engineering, and capital project.

REGIONAL PLANNING COMMITTEE JOINT USE STUDY: Dr. Martin developed a tabulation and mapped all available sewer and water facilities available within Orleans Parish, Plaquemines Parish, and Saint Bernard Parish. Calculations and analysis were performed in order to determine the feasibility of shared resources during times of crisis. The analysis included not only Sewer Treatment Plants and Water Purification Plants, but also all the associated network within proximity of the neighboring Parishes.



Certificate of Attendance

Local Public Agency Qualification Program
LPA Qualification Core Training Module

PRESENTED BY

Louisiana Department of Transportation and Development
Louisiana Local Technical Assistance Program
And
The Federal Highway Administration

TO CERTIFY THAT

Jim Martin

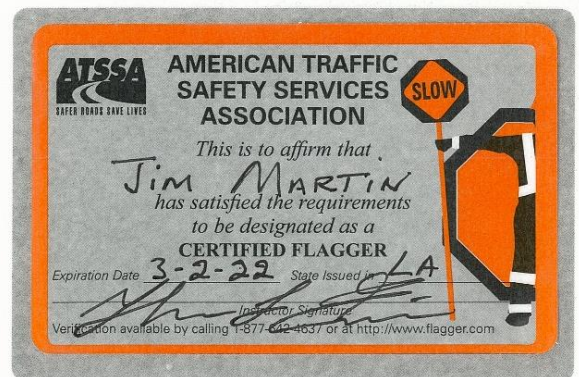
HAS SATISFACTORILY COMPLETED 6 HOURS OF TRAINING

Epiphany Ann Webb

Director of Local Public
Agency Program

October 23, 2012
Date

Baton Rouge, Louisiana
Location



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
John Holtgreve, P.E. Executive Vice President
Project Assignment:
Project Manager
Name of Firm with which associated:
Design Engineering, Inc.
Years' experience with this Firm:
35
Education: Degree(s)/Year/Specialization:
BS, 1970, Civil Engineering, Tulane University MCE, 1975, Civil Engineering, Tulane University
Active registration: Year first registered/discipline:
1976, Civil Engineering, Louisiana License #16383
Other experience and qualifications relevant to the proposed Project:
<p>31ST AND JASPER SEWER LIFT STATION, KENNER, LA: Mr. Holtgreve was the Project Manager for this project which included the design and construction of a 100% new lift station adjacent to the existing lift station while keeping the existing lift station operational nearly 100% of the time. The project was immediately adjacent to a traffic thoroughfare and also required innovative sequencing to limit the road closure to as short a period as possible.</p> <p>LAKEFRONT UTILITY COMPLETION PROJECT: Mr. Holtgreve was the Project Manager for this project which included the design, construction administration and resident inspection services for 14 utility services that provide water, sewer and electric to the shelter houses along Lakeshore Drive. Included in the Utility Completion Project is 1,900 linear feet of 8" HDPE water main, 1,000 linear feet of 3" DHPE sewer force main, 300 linear feet of 6" gravity sewer main and three (3) pump stations. Sewage from the shelter houses (floodside) are pumped by the lift stations over the levee to the Sewerage and Water Board system on the protected side. The lakefront levee is the primary flood protection system for New Orleans and is approximately 25 feet in height.</p> <p>LAKESHORE DRIVE SHELTER NO. 3 REPLACEMENT PROJECT: Mr. Holtgreve was the Project Manager for this project which included the design of a 13,690 SF pile supported concrete slab and five (5) cast-in-place reinforced concrete canopy structures totaling 8,544 SF of covered area, separate men's and women's bathroom facilities, new 3" water line, 6" water line relocation, gas line relocation, 3" sewer force main to tie into the existing sewer system and the installation of a sewer lift station with electrical control panel.</p> <p>SEWERAGE & WATER BOARD OF NEW ORLEANS, HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF EXISTING SEWAGE PUMPING STATIONS: Mr. Holtgreve was the Project Manager for this project which was part of the Hurricane Katrina Related 404 Hazard Mitigation Grant Program. This project includes the design of an elevated bi-level sewage pumping station, including topographic survey of site, hydraulic analysis and design, geotechnical engineering report, Preliminary Design Report, preparation of</p>

TEC Professional Services Questionnaire

detailed drawings, specifications, contract and bid documents, construction cost estimates and engineering during construction. DEI was also responsible for the design of 800 LF of 24" gravity sewer pipe installed 20 feet below grade. 650 LF of the gravity sewer pipe will be installed through Mirco tunneling and the other 150 LF will be installed by open trench for the eight (8) sewer pump stations.

WASTEWATER TREATMENT PLANT AT PARISH LINE (EFFLUENT PUMP STATION): Mr. Holtgreve was the Project Manager for this project which included the design of a new intake structure at the parish line for the City of Kenner. Responsibilities for this project included engineering during construction which involved revisions to the intake structure, processing shop drawings and providing details due to construction problems.

CHEVRON NORTHPARK - PHASES I AND II, COVINGTON, LOUISIANA: Mr. Holtgreve was the Project Manager for this project which included the design of a 150 acre industrial subdivision, including the design of roadways and subsurface drainage, 5000 LF of 8" and 12", water distribution and fire protection system, a 150,000 gallon water storage tank, **sewerage lift stations**, 5000 LF of 8" Ø gravity sewer line, and 1800 LF 8" diameter force mains and sewerage treatment plant.

AIRLINE DRIVE DRAINAGE CROSSING ST. PETER'S DITCH: Mr. Holtgreve was the Project Manager for this project which included preparation of plans and technical specifications for contract bid and construction process. This project consists of designing 365 feet of drainage improvements adjacent to and across Airline Dr. Included in the work is the design of large drainage junction boxes, micro-tunneling or hand tunneling large diameter drain line across Airline Dr., reinforced concrete box culverts and transition structures. DEI provided hydraulic analysis of the drainage system across Airline Dr.

AUDUBON BOULEVARD (CITY OF NEW ORLEANS): Mr. Holtgreve was the Project Manager for this project which included the design, construction administration and resident inspection for a 2,900 LF of new roadway. This project consisted of a divided roadway with raised median, a new concrete roadway with concrete or granite curb and gutter, 2,900 LF of subsurface drainage varying in size from 12" Ø to 60" Ø RCPA equivalent, 2900 LF of 8" water main and 3000 LF of 8" sewer line, gas line and electric line relocation, new water meter and new sewer and water house connections.



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Brett Liuzza, P.E., Engineer
Project Assignment:
Civil Engineer
Name of Firm with which associated:
Design Engineering, Inc.
Years' experience with this Firm:
7
Education: Degree(s)/Year/Specialization:
BS, 2008, Civil Engineering, Louisiana State University
Active registration: Year first registered/discipline:
2012/Civil Engineering, License #37753
Other experience and qualifications relevant to the proposed Project:
<p>31ST AND JASPER SEWER LIFT STATION, KENNER, LA: Mr. Liuzza was one of the Project Engineers for this project which included the design and construction of a 100% new lift station adjacent to the existing lift station while keeping the existing lift station operational nearly 100% of the time. The project was immediately adjacent to a traffic thoroughfare and also required innovative sequencing to limit the road closure to as short a period as possible.</p> <p>LAKESHORE DRIVE SHELTER NO. 3 REPLACEMENT PROJECT: Mr. Liuzza was the Project Engineer for this project which included the design of a 13,690 SF pile supported concrete slab and five (5) cast-in-place reinforced concrete canopy structures totaling 8,544 SF of covered area, separate men's and women's bathroom facilities, new 3" water line, 6" water line relocation, gas line relocation, 3" sewer force main to tie into the existing sewer system and the installation of a sewer lift station with electrical control panel.</p> <p>LAKEFRONT UTILITY COMPLETION PROJECT: Mr. Liuzza was the Project Engineer for this project which included the design, construction administration and resident inspection services for 14 utility services that provide water, sewer and electric to the shelter houses along Lakeshore Drive. Included in the Utility Completion Project is 1,900 linear feet of 8" HDPE water main, 1,000 linear feet of 3" DHPE sewer force main, 300 linear feet of 6" gravity sewer main and three (3) pump stations. Sewage from the shelter houses (floodside) are pumped by the lift stations over the levee to the Sewerage and Water Board system on the protected side. The lakefront levee is the primary flood protection system for New Orleans and is approximately 25 feet in height.</p> <p>CHEVRON NORTHPARK - PHASES I AND II, COVINGTON, LOUISIANA: Mr. Liuzza was the Project Engineer for this project which included the design of a 150 acre industrial subdivision, including the design of roadways and subsurface drainage, 5000 LF of 8" and 12", water distribution and fire protection system, a 150,000 gallon water storage tank, sewerage lift stations, 5000 LF of 8" ø gravity sewer line, and 1800 LF 8" diameter force mains and sewerage treatment plant.</p> <p>DUNCAN CANAL AT WEST ESPLANADE IMPROVEMENTS: Mr. Liuzza was one of the Project Engineers for this project which included conceptual, preliminary, and final plans to replace the Bridge at Duncan Canal over West Esplanade.</p>

TEC Professional Services Questionnaire

In addition, the project required permitting and hydraulic engineering. This project is one of the largest canals in Jefferson Parish and the existing bridges are in poor condition and an eye sore. In this project, DEI designed two massive concrete box culverts (38 x 18 each) as well as two smaller box culverts to receive Canal #2. Following the bridge replacement, newly design asphalt roadway will be placed on the approaches as well as over the boxes.

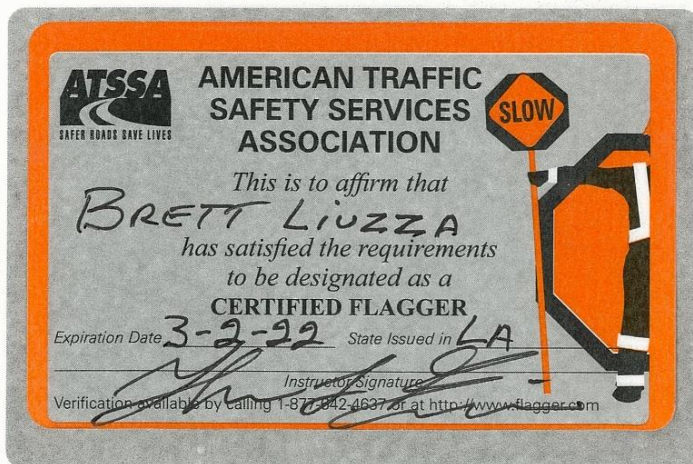
WEST ESPLANADE CANAL CROSSING: Mr. Liuzza was one of the Project Engineer for this project which included hydraulic engineering, conceptual, preliminary, and final plans for the improvements to the West Esplanade Boulevard which include installing a 550-foot Canal Crossing, 600 feet of roadway, additional sidewalk, and a new signalized interchange. Mr. Liuzza was one of the team members that is provided, conceptual, preliminary, and final plans for the improvements to West Esplanade Boulevard.

MACARTHUR DRIVE INTERCHANGE COMPLETION – PHASE 1A (AT-GRADE ROADWAY): Mr. Liuzza was the Project Engineer for this project which included the demolition of a portion of the existing service road and the **relocation of the service road** to accommodate the new ramps to be constructed under Phase 1B of this project. The work included the relocation of existing utilities, including drain line relocation up to 72" diameter, relocation of 10" sewer force main with 20" steel casing horizontally drilled underneath four (4) lane highway, water line relocation, project quantities estimation and preparation of plans, water mains and appurtenances, gas lines, as well as overhead and below ground power lines; the construction of storm drain performance, pipes and manholes; the extension of the existing reinforced concrete box culvert; and the **construction of the new relocated service road**, including the installation of a compacted sand sub-base course, crushed limestone base course, Superpave asphaltic concrete binder and wearing courses, as well as concrete curb and gutters and concrete sidewalks. **This project received Awards from ACI Louisiana: Overall Best Concrete Project and Award of Excellence in 2016.**

AIRLINE DRIVE DRAINAGE CROSSING (ST. PETER'S DITCH): Mr. Liuzza prepared plans and technical specifications for contract bid and construction process. This project consists of designing 365 feet of drainage improvements adjacent to and across Airline Drive. Included in the work is the design of large drainage junction boxes, micro-tunneling or hand tunneling large diameter drain line across Airline Drive, reinforced concrete box culverts and transition structures. DEI provided hydraulic analysis of the drainage system across Airline Drive. Mr. Liuzza's responsibilities on this project include responding to RFIs, performing periodic site visits, considering and negotiating change orders, performing substantial completion inspections, and quickly responding to limit the effect of often encountered unforeseen site conditions.

HOLDEN SEWER PRELIMINARY ENGINEERING REPORT, HOLDEN, LA: Mr. Liuzza was responsible for the design of a sewer system in Holden, LA north of Interstate 12. The design included **gravity sewer, sewer force main and lift stations** to connect to an existing sewer treatment plant.

DENHAM SPRINGS SEWER PROJECT, DENHAM SPRINGS, LA: Mr. Liuzza was responsible for the design of a sewer system along LA Highway 1032. The design included **gravity sewer, sewer force main and lift stations** to connect to an existing city gravity sewer system.



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Ben Bartlett, P.E., PTOE Engineer
Project Assignment:
Project Engineer
Name of Firm with which associated:
Design Engineering, Inc.
Years' experience with this Firm:
5
Education: Degree(s)/Year/Specialization:
Auburn University – Masters of Civil Engineering, 2010 The Citadel – Bachelor of Science, Civil and Environmental Engineering, 2008
Active registration: Year first registered/discipline:
2014, Civil Engineering, Louisiana License No. 38980 2016, Professional Traffics Operations Engineer Certification No. 4020
Other experience and qualifications relevant to the proposed Project:
<p>CITY OF KENNER SEWER LIFT STATION ASSESSMENT: Mr. Bartlett evaluated an existing sewer lift station and the area it serviced in the City of Kenner to determine the current capacity and future capacity requirements. The analysis provided suggested improvements to address existing lift stations deficiencies as well as provided suggestions to meet future service requirements. The report was utilized as the basis for implementing improvements to the lift station.</p> <p>LAKESHORE DRIVE SHELTER NO. 3 REPLACEMENT PROJECT: Mr. Bartlett was one of the Project Engineers for this project which included the design of a 13,690 SF pile supported concrete slab and five (5) cast-in-place reinforced concrete canopy structures totaling 8,544 SF of covered area, separate men's and women's bathroom facilities, new 3" water line, 6" water line relocation, gas line relocation, 3" sewer force main to tie into the existing sewer system and the installation of a sewer lift station with electrical control panel.</p> <p>CITY OF KENNER DUNCAN CANAL BRIDGE REPLACEMENT: Mr. Bartlett performed the hydraulic analysis and modeling of an existing bridge over the Duncan Canal at West Esplanade Avenue. The analysis investigated the effects on the Duncan Canal's ability to convey flow if the existing bridge were replaced with multiple bridge and box culvert options. The analysis provided recommendations for the replacement of the existing bridge as well as recommendations to improve the conveyance capacity of the Canal. The results were utilized as the basis for the design of the new canal crossing.</p> <p>CITY OF KENNER SEWER PROGRAM MANAGEMENT: Mr. Bartlett was involved in every aspect of the City of Kenner Sewer Capital Program, including budgeting, approving and selling bonds, prioritizing projects, issuing contracts to consultants, managing consultants during design, reviewing plans during design, advertising for competitive bids, issuing contracts for construction, and managing construction projects through completion and closeout.</p>

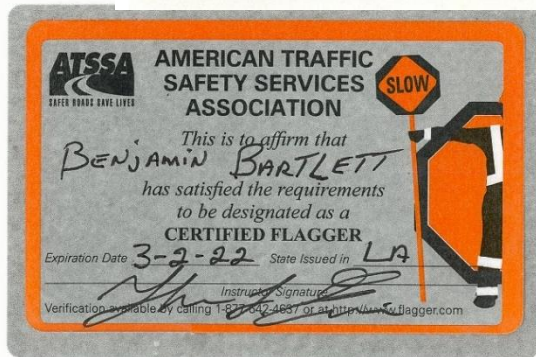
TEC Professional Services Questionnaire

OLD MANDEVILLE SHORELINE PROTECTION STUDY: In the aftermath of Hurricane Isaac, the City of Mandeville received a grant to assess how best to protect its low lying areas along the North shore of Lake Pontchartrain. The existing drainage system for the City as well as its interaction with the Lake were analyzed and modeled. The analysis encompassed aspects ranging from protection structures and pumping capabilities to drainage, power, and sewerage utilities. The information gained from the models was utilized to provide the City with a report which provided a comprehensive overview of the existing system as well as proposed modifications to assist in mitigating issues related to flooding along the Old Mandeville lakefront.

CAUSEWAY BOULEVARD OVERPASS OF AIRLINE DRIVE: Mr. Bartlett conducted a comprehensive structural inspection of all portions of the Causeway Boulevard Overpass of Airline Drive (all existing bridge components north of the southern right-of-way line of Airline Drive); perform a load capacity rating analysis of the AS-BUILT and AS-IS conditions of the structure; and submit a comprehensive repair/rehabilitation report prioritizing recommended repairs/corrective measures. Based on the findings of the report, DEI is responsible for the production of plans, specifications, and contract documents to repair/replace the Overpass's girders, bearings, deck, guardrails, and drainage system. Additionally, it is DEI's responsibility to provide full time resident inspection and testing services during construction.

RIVER FOREST PAVING AND DRAINAGE IMPROVEMENTS (WILLOW DRIVE): Mr. Bartlett was the Civil Engineer for this project responsible for performing topographic survey services, production of plans, and construction engineering for the roadway and subsurface drainage improvements in the City of Covington. This project includes removing and/or repairing existing drainage structures; installing subsurface drainage, removing and replacing reinforced concrete roadway panels and their underlying structural fills; and other work as required by the plans and specifications. Mr. Bartlett was also responsible for the production of preliminary plans, final plans, and project specifications and assisting the owner with the bid phase of the project.

WEST ESPLANADE CROSSING NEAR WILLIAMS: Mr. Bartlett was the Project Engineer for this project which included hydraulic engineering, conceptual, preliminary and final plans for the improvements to the West Esplanade Boulevard which also included installing a 550-foot Canal Crossing, 600 feet of roadway, additional sidewalk, and a new signalized interchange. Mr. Bartlett was part of the team to provide hydraulic engineering, conceptual, preliminary and final plans for the improvements to West Esplanade Boulevard.



Transportation Professional Certification Board, Inc.

certifies that

Benjamin M. Bartlett

has met all of the requirements established by the Certification Board
to use the title of

Professional Traffic Operations Engineer

unless withdrawn by the Certification Board and subject to the provisions for renewal.

Certificate number 4020 issued in Washington, DC, U.S.A

8/29/2016

[Signature]



[Signature]



Certificate of Attendance

Local Public Agency Qualification Core Training

PRESENTED BY

Louisiana Department of Transportation and Development
Louisiana Local Technical Assistance Program

And

The Federal Highway Administration

TO CERTIFY THAT

Benjamin Bartlett

HAS SATISFACTORILY COMPLETED 5 HOURS OF TRAINING

[Signature]
Director of Local Public
Agency Program

July 17, 2013
Date
Metairie, Louisiana
Location

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Brent French, P.E., Engineer
Project Assignment:
Civil Engineer
Name of Firm with which associated:
Design Engineering, Inc.
Years' experience with this Firm:
7
Education: Degree(s)/Year/Specialization:
BS, 2011, Civil Engineering, University of Mississippi MS, 2013, Engineering, University of Mississippi
Active registration: Year first registered/discipline:
2016, Civil Engineering, Louisiana License No. 41139
Other experience and qualifications relevant to the proposed Project:
<p>31ST AND JASPER SEWER LIFT STATION, KENNER, LA: Mr. French assisted with the work for this project which included the design and construction of a 100% new lift station adjacent to the existing lift station while keeping the existing lift station operational nearly 100% of the time. The project was immediately adjacent to a traffic thoroughfare and also required innovative sequencing to limit the road closure to as short a period as possible.</p> <p>LAKEFRONT UTILITY COMPLETION PROJECT: Mr. French assisted with this project which included the design, construction administration and resident inspection services for 14 utility services that provide water, sewer and electric to the shelter houses along Lakeshore Drive. Included in the Utility Completion Project is 1,900 linear feet of 8" HDPE water main, 1,000 linear feet of 3" DHPE sewer force main, 300 linear feet of 6" gravity sewer main and three (3) pump stations. Sewage from the shelter houses (floodside) are pumped by the lift stations over the levee to the Sewerage and Water Board system on the protected side. The lakefront levee is the primary flood protection system for New Orleans and is approximately 25 feet in height.</p> <p>SEWERAGE AND WATER BOARD OF NEW ORLEANS, REPLACEMENT OF 8 EXISTING SEWAGE PUMPING STATIONS: Mr. French was the Project Engineer for this project which included all work required for the complete replacement of 8 sewer lift stations that were damaged during Hurricane Katrina (Lawrence, Bullard, Lake Forest, Dodt, Plum Orchard, Victoria Sewage Pumping Stations, Sewage Pumping Station No. 6 and Sewage Pumping Station No. 8). Each of these stations was a separate design, bid, and construction and each one presented its own unique challenges.</p> <p>LAKESHORE DRIVE SHELTER NO. 3 REPLACEMENT PROJECT: Mr. French assisted the Project Engineer on this project which included a 13,690 SF pile supported concrete slab and five (5) cast-in-place reinforced concrete canopy structures totaling 8,544 SF of covered area, separate men's and women's bathroom facilities, new 3" water line, 6" water line relocation, gas line relocation, 3" sewer force main to tie into the existing sewer system and</p>

TEC Professional Services Questionnaire

the **installation of a sewer lift station** with electrical control panel.

MACARTHUR DRIVE INTERCHANGE COMPLETION – PHASE 1A (AT-GRADE ROADWAY): Mr. French was the Engineer Intern responsible for assisting with this massive highway and bridge demolition and reconstruction project in Jefferson Parish. The work includes the relocation of existing utilities, including water mains and appurtenances, gas lines, as well as overhead and below ground power lines; the construction of storm drain pipes and manholes; the extension of the existing reinforced concrete box culvert; and the construction of the new relocated service road, including the installation of a compacted sand sub-base course, crushed limestone base course, Superpave asphaltic concrete binder and wearing courses, as well as concrete curb and gutters, concrete driveways and concrete sidewalks. Mr. French was also responsible for logging in all communications and disseminating the appropriate construction documentation to the correct responding consultant. This was of course only one of the features of a much larger project. **This project received Awards from ACI Louisiana: Overall Best Concrete Project and Award of Excellence in 2016.**

AIRLINE DRIVE DRAINAGE CROSSING (ST. PETER'S DITCH): As an Engineer intern, Mr. French prepared plans and technical specifications for contract bid and construction process. This project consists of designing 365 feet of drainage improvements adjacent to and across Airline Drive. Included in the work is the design of large drainage junction boxes, micro-tunneling or hand tunneling large diameter drain line across Airline Drive, reinforced concrete box culverts and transition structures. DEI provided hydraulic analysis of the drainage system across Airline Drive. Mr. French's responsibilities on this project included responding to RFIs, performing periodic site visits, considering and negotiating change orders, performing substantial completion inspections, and quickly responding to limit the effect of often encountered unforeseen site conditions.

CAUSEWAY BOULEVARD OVERPASS OF AIRLINE DRIVE: Civil/Structural Engineer for this project, Mr. French assisted the project engineering with conducting a comprehensive structural inspection of all portions of the Causeway Boulevard Overpass of Airline Drive above railroad traffic (all existing bridge components north of the southern right-of-way line of Airline Drive); perform a load capacity rating analysis of the AS-BUILT and AS-IS conditions of the structure; and submit a comprehensive repair/rehabilitation report prioritizing recommended repairs/corrective measures. Based on the findings of the report, DEI is responsible for the production of plans, specifications, and contract documents to repair/replace the Overpass's girders, bearings, deck, guardrails, and drainage system. Additionally, it is DEI's responsibility to provide full time resident inspection and testing services during construction.



Certificate of Attendance

Local Public Agency Qualification Program
LPA Qualification Core Training Module

PRESENTED BY

Louisiana Department of Transportation and Development
Louisiana Local Technical Assistance Program
And
The Federal Highway Administration

TO CERTIFY THAT

Brent French

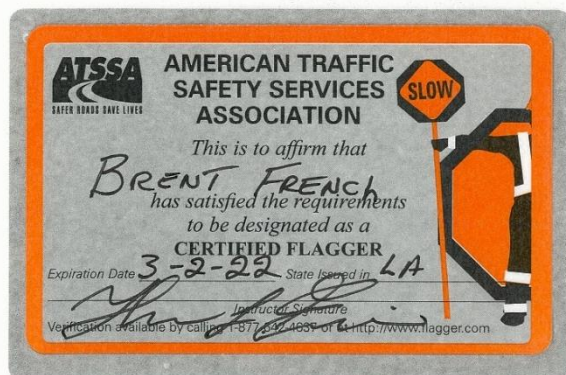
HAS SATISFACTORILY COMPLETED 6 HOURS OF TRAINING

Opelle Ann Wills

Director of Local Public
Agency Program

November 19, 2015
Date

New Orleans, Louisiana
Location



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
John Karlin, SE, P.E. Engineer
Project Assignment:
Structural Engineer
Name of Firm with which associated:
Design Engineering, Inc.
Years' experience with this Firm:
2
Education: Degree(s)/Year/Specialization:
MS, 2017, Civil (Structural) Engineering, University of Illinois at Urbana-Champaign BS, 2016, Civil Engineering, Worcester Polytechnic Institute
Active registration: Year first registered/discipline:
SE/2020, Structural Engineering, Illinois License No. 081-008511 PE/2020, Civil Engineering, Louisiana License No. 44795
Other experience and qualifications relevant to the proposed Project:
<p>CITY OF KENNER DUNCAN CANAL BRIDGE REPLACEMENT: (Role: Engineer Intern) Mr. Karlin assisted in the replacement of aging bridges spanning the Duncan Canal with a new, buried box culvert system that improves aesthetics while maintaining the conveyance of traffic across the canal. Responsibilities include: design of the top slab to resist vehicular loadings; design of the base slab to adequately distribute loads to the soil; design of the walls and wingwalls to resist lateral soil pressures and soil and vehicular surcharge loadings; and design of columns and beams to create a junction between Duncan Canal and Canal No. 2 and facilitate the flow of water between the two box culverts.</p> <p>WEST ESPLANADE U-TURN: (Role: Engineer Intern) Mr. Karlin assisted in the design of the apron slabs, headwalls, and wingwalls for this pipe culvert structure to meet AASHTO and LADOTD standards. Responsibilities include the design of apron slabs to facilitate water flow and resist uplift forces; design of headwalls to resist lateral soil pressures and vehicular surcharge loadings; and design of wingwalls to stabilize the canal slopes adjacent to the apron slabs.</p> <p>CAUSEWAY BLVD. & AIRLINE DR. INTERCHANGE BRIDGE REHABILITATION, JEFFERSON PARISH: (Role: Engineer Intern) Mr. Karlin assisted in the rehabilitation of bridge spans of this 1950s era structure to meet AASHTO and LADOTD standards. Responsibilities include: structural analysis of existing girders according to modern standards to determine adequacy in terms of safety and serviceability; design of cover plates for failing girders and their connections to strengthen spans at a lower cost than replacement; coordination of the removal and replacement of a corroded portion of girder to reduce costs in comparison to replacement of the entire girder; and design of flange and web splice plates and their connections to safely transfer loads between the existing and new portions of girder.</p> <p>SEAWALL AREA EROSION CONTROL PAVING PROJECT – REACH 3A: (Role: Engineer Intern) Mr. Karlin assisted with the erosion control project of the Lake Pontchartrain seawall. Responsibilities include: design of slab on grade to support pedestrian traffic and prevent cracking and damage during extreme events; layout of slab joints to allow expansion and contraction of the slab and seawall without cracking of the slab; layout of timber piles to ensure proper load transfer from the slab to the soil and minimize settling and damage due to soil erosion; and design of grade beams and retaining walls near existing trees to satisfy the project goals without removal of trees.</p>



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Max Shukla, P.E. Senior Engineer
Project Assignment:
Structural Engineer
Name of Firm with which associated:
Design Engineering, Inc.
Years' experience with this Firm:
34
Education: Degree(s)/Year/Specialization:
BS, 1960, Civil Engineering, M.S. University, Baroda, India MS, 1969, Civil Engineering, M.S. University, Baroda, India
Active registration: Year first registered/discipline:
1978, Civil Engineering, Louisiana License No. 17008
Other experience and qualifications relevant to the proposed Project:
<p>31ST AND JASPER SEWER LIFT STATION, KENNER: Mr. Shukla was a Structural Engineer for this project responsible for the design and construction of a 100% new lift station adjacent to the existing station while keeping the existing lift station operational nearly 100% of the time. The project was immediately adjacent to a traffic thoroughfare and also required innovative sequencing to limit the road closure to as short a period as possible.</p> <p>LAKEFRONT UTILITY COMPLETION PROJECT: Mr. Shukla was a Structural Engineer for this project which included the design, construction administration and resident inspection services for 14 utility services that provide water, sewer and electric to the shelter houses along Lakeshore Drive. Included in the Utility Completion Project is 1,900 linear feet of 8" HDPE water main, 1,000 linear feet of 3" DHPE sewer force main, 300 linear feet of 6" gravity sewer main and three (3) pump stations. Sewage from the shelter houses (floodside) are pumped by the lift stations over the levee to the Sewerage and Water Board system on the protected side. The lakefront levee is the primary flood protection system for New Orleans and is approximately 25 feet in height.</p> <p>SEWERAGE AND WATER BOARD OF NEW ORLEANS, HURRICANE KATRINA RELATED SEWER RESTORATION PROJECTS: Mr. Shukla was the Structural Engineer for this project which consisted of assessing the damage to eight (8) sewage pumping stations, prepared a Preliminary Design Report and Contract Documents detailing the repairs and assisted the Sewerage and Water Board during the construction of these repairs ranging in size from 500 gpm to 5000 gpm.</p> <p>WASTE WATER TREATMENT PLANT AT PARISH LINE (EFFLUENT PUMP STATION), KENNER, LA: Mr. Shukla was the Structural Engineer for the design of a new intake structure at the parish line for the City of Kenner. Mr. Shukla's responsibilities for this project included, engineering during construction which involved revisions to the intake structure, processing shop drawings and providing details due to construction problems</p> <p>CHEVRON NORTHPARK - PHASES I AND II, COVINGTON, LOUISIANA: Mr. Shukla was the Structural Engineer for this project which included the design of a 150 acre industrial subdivision, including the design of roadways and</p>

TEC Professional Services Questionnaire

subsurface drainage, 5000 LF of 8" and 12", water distribution and fire protection system, a 150,000 gallon water storage tank, **sewerage lift stations, 5000 LF of 8" Ø gravity sewer line**, and 1800 LF 8" diameter force mains and **sewerage treatment plant**.

SEWERAGE & WATER BOARD OF NEW ORLEANS, HURRICANE KATRINA RELATED 404 HAZARD MITIGATION GRANT PROGRAM REPLACEMENT OF EXISTING SEWAGE PUMPING STATIONS: Mr. Shukla was the Structural Engineer for this project which was part of the Hurricane Katrina Related 404 Hazard Mitigation Grant Program. This project included the design of an elevated bi-level sewage pumping station, including topographic survey of site, hydraulic analysis and design, geotechnical engineering report, Preliminary Design Report, preparation of detailed drawings, specifications, contract and bid documents, construction cost estimates and engineering during construction. DEI was also responsible for the design of 800 LF of 24" gravity sewer pipe installed 20 feet below grade. 650 LF of the gravity sewer pipe was installed through Mirco tunneling and the other 150 LF was installed by open trench for the eight (8) sewer pump stations.

NORTHPARK - PHASES I AND II, COVINGTON, LOUISIANA: Mr. Shukla was the Structural Engineer for this project which included a 150 acre industrial subdivision, including the design of roadways and subsurface drainage, 5000 LF of 8" and 12", water distribution and fire protection system, a 150,000 gallon water storage tank, sewerage lift stations, 5000 LF of 8" Ø gravity sewer line, and **1800 LF 8" diameter force mains and sewerage treatment plant**.

NORTHBOUND MANHATTAN BOULEVARD CONTINUOUS RIGHT TURN LANE: Mr. Shukla was the Structural Engineer for the construction of an additional asphaltic concrete northbound lane for Manhattan Boulevard (Gretna Boulevard to Westbank Expressway) with a concrete combination curb and gutter, subsurface drainage, replacement of existing gravity sewer line, relocation of existing 2000 LF of water line and **2000 LF of sewer force main**, and removal and replacement of existing concrete walks and drives under heavy traffic conditions and electrical services. The project also involved acquisition of substantial properties.

MACARTHUR DRIVE INTERCHANGE COMPLETION – PHASE 1A (AT-GRADE ROADWAY): Mr. Shukla was the Structural Engineer responsible for this massive highway and bridge demolition and reconstruction project in Jefferson Parish. The work includes the relocation of existing utilities, including the **relocation of a 10" sewer force main with 20" steel casing horizontally drilled underneath a four (4) lane highway**. This is of course only one of the features of a much larger project.

*The American Traffic Safety
Services Association*

Hereby recognizes that

Max Shukla
has attended
Traffic Control Supervisor-LA State Specific

8/25/16 to 8/26/16
Date

New Orleans, LA
Location

Training Course



SAFER ROADS SAVE LIVES

Doreen M. Clark
Training & Products Dept. Director

Ryan A. Wentz
President, CEO



LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LPELS)

9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Mahesh B. Shukla

License/Certificate Type - Number

PE.0017008

Expiration Date

03/31/2023

Status: **Active**

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Donald Grace Inspector
Project Assignment:
Resident Inspector
Name of Firm with which associated:
Design Engineering, Inc.
Years' experience with this Firm:
10
Education: Degree(s)/Year/Specialization:
Certified in LADOTD Portland Cement Concrete Pavement Inspector/Technician, LADOTD Asphaltic Concrete Paving Inspector/Technician, LADOTD Embankment and Base Course Inspector/Technician, Authorized Field Tester, Authorized Profilograph Operator, Authorized Profilograph Evaluator, ATSSA Traffic Control Technician, ATSSA Traffic Control Supervisor and Flagger Course Supervisor
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>LAKE FOREST BOULEVARD: Resident Inspector for approximately 638 LF of Portland Cement Concrete Pavement with barrier curb, barrier rails and retaining wall, including drainage pipes and structures and tie-in to the existing Westbound concrete pavement at Lake Forest Boulevard. The work also consisted of furnishing, installing, and cleaning pipe, pipearch, storm drains and sewers. Also, approximately 624 LF of the existing Eastbound asphaltic concrete pavement on Lake Forest Boulevard was removed by milling and overlaid with 2" asphaltic concrete wearing course, to develop a 2.5% cross slope. Pavement striping, sign and legends and symbols are included. Mr. Grace is responsible for making sure that the contractor lays the asphaltic concrete in accordance with the specifications for this project.</p> <p>NORTHBOUND MANHATTAN BOULEVARD CONTINUOUS RIGHT TURN LANE: Resident Inspector for the construction of an additional asphalt concrete northbound lane for Manhattan Boulevard (Gretna Boulevard to West Bank Expressway) with a concrete combination curb and gutter, subsurface drainage, replacement of existing gravity sewer line, relocate 2000 LF of water line and 2000 LF of sewer force main, and removals and replacement of existing concrete walks and drives under heavy traffic conditions and electrical services. The project also involved acquisition of substantial properties. The project was constructed using the designed plans by DEI and DEI personnel provided construction contract administration and construction engineering and resident inspection services. The project construction continued for 7 days a week for approximately 244 days. DEI also provided services to assist the contractor in working weekends and nights as necessary to accommodate up to six (6) crews working 24-hour schedules.</p> <p>AUDUBON BOULEVARD (CITY OF NEW ORLEANS): Resident Inspector for the a 2,900 LF of new roadway. This project consisted of a divided roadway with raised median, a new concrete roadway with concrete or granite curb and gutter, 2,900 LF of subsurface drainage varying in size from 12" ø to 60" ø RCPA equivalent, 2900 LF of 8" water main and 3000 LF of 8" sewer line, gas line and electric line relocation, new water meter and new sewer and water house connections. Mr. Grace prepared daily reports, attended project meetings, reviewed contractor's periodical estimates, inspected traffic control plan and inspected the progress of the work to ensure that the contractor complied with the requirements of the plans and specifications and the safety regulations and prepared documentation for the project closeout.</p> <p>ROBERT E. LEE BOULEVARD, PARIS AVE. TO PRATT DRIVE: Resident Inspector for the reconstruction of 4,500 LF of existing Robert E. Lee Blvd. including major subsurface drainage improvements from 15" ø to 60" ø of reinforced concrete pipe and utility relocations. Design Engineering, Inc. provided full construction management services for the LADOTD and the City of New Orleans. The entire construction contract administration and construction engineering and inspection for this project was managed through LADOTD Site Manager Program.</p>



ETRN5232
#M-2

LOUISIANA DEPT OF TRANSPORTATION & DEVELOPMENT
EDUCATION & TRAINING SYSTEM

06-01-2006
PAGE: 1

INDIVIDUAL'S NOTICE OF COMPLETED TRAINING

MEMORANDUM TO: GRACE, DONALD E.
ENGR TECHNICIAN 4
DIST 62, GANG 200

THE FOLLOWING INFORMATION HAS BEEN ADDED TO YOUR TRAINING FILE:

C 0301 A EXCAVATION AND EMBANKMENT INSPECTION
GRADE: 094 P 10-13-2003 COMPLETE: 05-16-2006 EXPIRES: INDEFINITE

C 0302 A BASE COURSE INSPECTION
GRADE: 096 P 05-16-2006 COMPLETE: 05-26-2006

X 0510 R ASPH.CONC. PAVING INSP WRITTEN EXAM FOR RECERTIFICATION
GRADE: 100 P 05-12-2006 COMPLETE: 05-12-2006

X 0518 C ASPH. CONC. PAVING INSP. CERTIFICATION
GRADE: NONE 05-12-2006 COMPLETE: 05-12-2006 EXPIRES: 05-12-2011

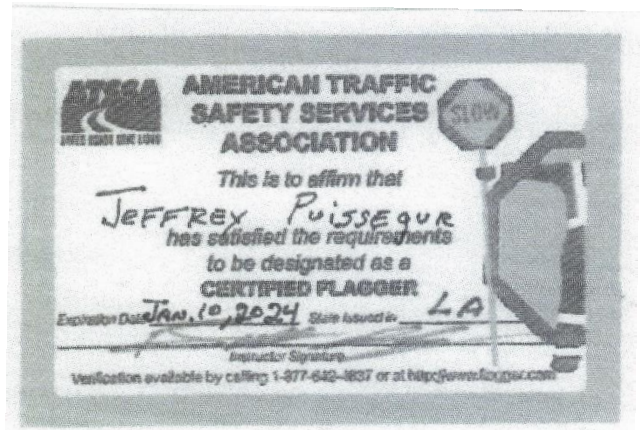
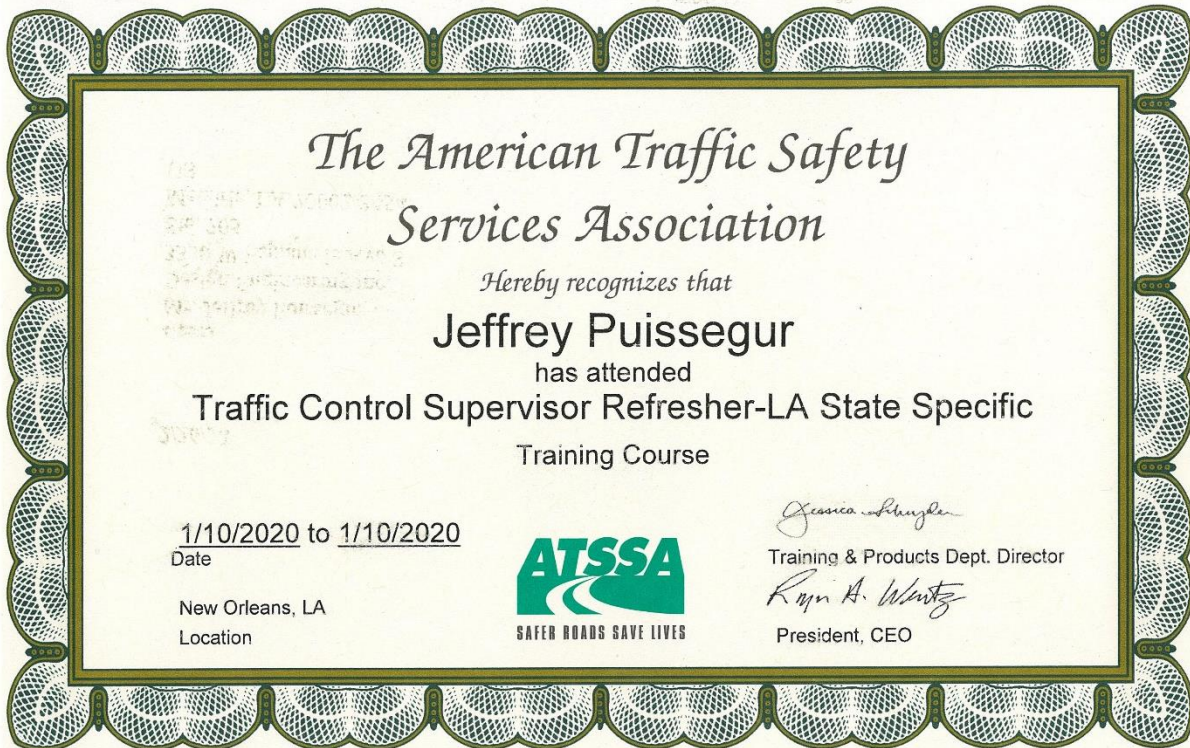
This is your official notification of completion of the above course(s). You should keep this copy for your records as your proof of completion of the course(s). It is your responsibility to take immediate action if there are any errors. If you have any questions, please see your supervisor.


TRAINING COORDINATOR



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Jeff Puissegur Inspector
Project Assignment:
Resident Inspector
Name of Firm with which associated:
Design Engineering, Inc.
Years' experience with this Firm:
9
Education: Degree(s)/Year/Specialization:
Associates of Arts, Business Management, Tulane University Bachelor of Arts, Major in Business Management, Minor in Arts & Business, Tulane University Completed ATSSA Work Zone Traffic Control Technician and ATSSA Traffic Control Supervisor and Flagger Course
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>AIRLINE PARK BOULEVARD (CAMPHOR TO WEST NAPOLEON): Mr. Puissegur is the Resident Inspector for the construction of 0.390 miles of roadway which includes grading, drainage structures, milling asphalt pavement, pavement patching, class II base course, scarifying and compacting roadbed, asphalt concrete pavement, Portland Cement Concrete Pavement, cofferdams, storm water pumping station, and related work on Airline Park Boulevard from north of its intersection with Camphor St. to its junction with W. Napoleon Ave. Mr. Puissegur prepares daily reports which are recorded through LADOTD Site Manager, inspect the progress of the work to ensure that the Contractor complies with the requirements of the plans and specifications and attends all the progress meetings. Further, Mr. Puissegur writes in his daily diary items of work performed for the day and the comparison of quantities installed with the Contractor.</p> <p>LAKE FOREST BOULEVARD: Resident Inspector for the construction of approximately 638 LF of Portland Cement Concrete Pavement with barrier curb, barrier rails and retaining wall, furnishing, installing, and cleaning pipe, pipe arch, storm drains and sewers, including drainage pipes and structures and tie-in to the existing Westbound concrete pavement at Lake Forest Boulevard. Also, approximately 624 LF of the existing Eastbound asphaltic concrete pavement on Lake Forest Boulevard was removed by milling and overlaid with 2" asphaltic concrete wearing course, to develop a 2.5% cross slope. Pavement striping, sign and legends and symbols are included. Mr. Puissegur prepares daily reports which are recorded through LADOTD Site Manager, inspect the progress of the work to ensure that the Contractor complies with the requirements of the plans and specifications and attends all the progress meetings. Further, Mr. Puissegur writes in his daily diary items of work performed for the day and the comparison of quantities installed with the Contractor.</p> <p>AIRLINE DRIVE DRAINAGE CROSSING ST. PETER'S DITCH: Resident Inspector responsible for the quality assurance in the construction of 365 feet of drainage improvements adjacent to and across Airline Drive, including the construction of large drainage junction boxes, micro-tunneling or hand tunneling large diameter drain line across Airline Drive, reinforced concrete box culverts and transition structures. Mr. Puissegur prepared daily reports through LADOTD Site Manager, inspected the progress of the work to ensure that the contractor complied with the requirements of the plans and specifications and attend all project meetings.</p> <p>JEFFERSON PARISH SUBMERGED ROADWAYS PROGRAM: Resident Inspector for damage evaluation due to Hurricane Katrina and roadway reconstruction of eighty-five (85) concrete streets and eight (8) miles of asphalt roadway repair within Council District 3. Design Engineering's responsibilities include Site Evaluations, Preliminary Plans, Final Plans, Construction Administration and Resident Inspection. During site evaluations DEI noted settlement, and surface condition and verified the degree and severity of damage described in FEMA Project Work Sheets. Considerations during the design phase was tree root impacts on the existing roadway, addition and/or repair of sidewalks, driveways and handicap ramps and adjustment of all drainage structures within the roadway limits. Mr. Puissegur prepared daily reports through LADOTD Site Manager, inspected the progress of the work to ensure that the contractor complied with the requirements of the plans and specifications and attend all project meetings.</p>



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
John Ehlers, P.E. Inspector
Project Assignment:
Resident Inspector
Name of Firm with which associated:
Design Engineering, Inc.
Years' experience with this Firm:
2
Education: Degree(s)/Year/Specialization:
Associates, 2015, Civil Engineering Technology/Project Management, Delgado Community College Associates, 1997, Science EMT/Paramedic, Delgado Community College Associates, 2017, CAD Certification, Delgado Community College
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p><u>WEST ESPLANADE CROSSING:</u> Mr. Ehlers is one of the Resident Inspectors on this project responsible for inspecting the improvements to the West Esplanade Boulevard which includes the installation of twin 96" diameter reinforced concrete arch pipes with headwalls to accommodate crossing of West Esplanade Avenue Median Canal; the installation of reinforced concrete u-shaped transitions structures from 96" diameter reinforced concrete arch pipe headwall to earthen canal; the West Esplanade Avenue Median Canal Crossing shall consist of the following: 1) 50 ft. taper to 100 ft. storage lane to east-to-west U-turn; 2) 4-lane crossing with traffic signal system; 3) 50 ft. taper to 200 ft. storage lane to west-to-east U-turn; and Crossover Median Landscaping and street lighting.</p> <p><u>LAKESHORE DRIVE SHELTER NO. 3 REPLACEMENT PROJECT:</u> Mr. Ehlers was the Resident Inspector on this project responsible for inspecting 13,690 square feet of pile supported concrete slab and five (5) cast-in-place reinforced concrete canopy structures totaling 8,544 SF of covered area. There are separate men's and women's bathroom facilities, concrete sidewalks, site area lighting, new 3" water line, 6" water line relocation, gas line relocation, and a 3" sewer force main to tie into the existing sewer system west of Franklin Avenue. The work also included grading site to drain to exiting drainage structures, and cleaning and flushing existing subsurface drainage lines and structures, the installation of a sewer lift station with electrical control panel, and relocation of light standards with new foundations,</p> <p><u>SEAWALL AREA EROSION CONTROL PAVING PROJECT – REACHES 2C, 2D & 3C, NEW ORLEANS, LA:</u> The project includes the removal of the existing drain lines and drainage structures, removal of seawall light standards, construction of a new pile supported concrete plaza slabs along the seawall with tree planters, benches, handrails, trash receptacles and non-lighted bollards; installation of decorative light fixtures, installation of vinyl sheet piling, new subsurface drainage lines and structures; landscaping, installation of temporary construction mats, permanent cellular confinement system, turf reinforcement mats, and hydromulching.. This was all undertaken to stabilize the Lake Pontchartrain seawall constructed in the 1930s. Mr. Ehlers is responsible for preparing daily reports, attending project meetings, reviewing contractor's periodical estimates, inspecting traffic control plan and inspecting the progress of the work to ensure that the contractor is complying with the requirements of the plans and specifications and the safety regulations.</p>



LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)

9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. John Manfred Ehlers

License/Certificate Type - Number

PE.0023702



Expiration Date

03/31/2022

Status: **Active**

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

PROJECT NO. 1

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>31st & Jasper Sewer Lift Station Kenner, LA</p> <p>Ms. Laney Rivera (504) 838-6009 3445 N Causeway Blvd., Suite 401 Metairie, LA 70002</p>	<p>Design Engineering, Inc. (DEI) was contracted by the City of Kenner Department of Public Works to provide engineering services during the design and bidding of 31st and Jasper Sewer Lift Station. Included in this project was the replacement of the existing 31st and Jasper (4220) sewer lift station with a new submersible pump type lift station and connection to the existing 8" diameter sewer force main. The work included demolition of the existing lift station and approximately 46 linear feet of 10" diameter gravity sewer pipe, construction of a pile supported wet well including new submersible pumps, construction of a pile supported collection sewer manhole and 47 linear feet of gravity sewer main, motors and pumps, the construction of a pile supported valve pit, and the installation of a new control panel, fence, and hatch covers. The sewer force main work included the construction of 38 linear feet of 8" ductile iron force main and provided an Emergency Pump Out manhole as called out in the plans. The gravity sewer work also included raising the invert in an existing sewer manhole approximately four (4) feet.</p> <p>DEI was responsible for the preparation of a memorandum to summarize the results of the following specific tasks:</p> <ul style="list-style-type: none"> ✓ Evaluate the existing lift station tributary area ✓ Review existing information and related projects. ✓ Establish a basis of design ✓ Estimate design flows ✓ Compare upgrading existing station with constructing new station ✓ Develop a conceptual design of the station and related piping ✓ Select a location for the station ✓ Develop preliminary design concept and drawings ✓ Develop a preliminary cost estimate ✓ Identify permitting and other constructability requirements <p>DEI prepared all the required plans and specifications for the project which completed construction in April of 2015.</p>	
 	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2015	\$1,100,000.00	\$1,100,000.00

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Sewerage and Water Board of New Orleans, Hurricane Katrina Related 404 Hazard Mitigation Grant Program Replacement of Eight (8) Existing Sewage Pumping Stations</p> <p>Chris Bergeron Sewerage and Water Board of New Orleans 625 St. Joseph Street New Orleans, LA (504) 865-0630</p>	<p>The Sewerage and Water Board of New Orleans contracted with Design Engineering, Inc. to provide professional engineering services to complete Phase 1 of the HMGP project, including site specific topographic surveys, coordinating with utility companies to field verify existing facilities, hydraulic analysis and design, geotechnical engineering reports, preparation of a Preliminary Design Report (PDR) to serve as the 30% schematic design for the project and serve as the basis for final design. Final design includes preparation of detailed drawings, specifications, including contract and bid documents, and a construction cost estimate. DEI was responsible for the design of 800 linear feet of 24 inch gravity sewer pipe installed 20 feet below grade. 650 linear feet of the gravity sewer pipe will be installed through Micro tunneling and the other 150 linear feet will be installed by open trench.</p> <p>The Phase I Preliminary Design Report (PDR) specifically addresses constructing new elevated facilities at the following sewage pumping stations located in the City of New Orleans:</p> <ol style="list-style-type: none"> 1) Lawrence Sewage Pumping Station, 7900 Morrison Road; 2) Bullard Sewage Pumping Station, 5501 Bullard Road; 3) Lake Forest Sewage Pumping Station, 10451 Lake Forest Boulevard; 4) Dodt Sewage Pumping Station, 8188 Chef Menteur Highway; 5) Plum Orchard Sewage Pumping Station, 7300 Chef Menteur Highway; 6) Victoria Sewage Pumping Station, 3620 Victoria Street; 7) Sewage Pumping Station No. 6, 242 South Solomon Street; 8) Sewage Pumping Station No. 8, Broad Street at Toulouse Street. <p>The new sewage pump station buildings were intended to be simply designed and durable. The above ground buildings will protect pump equipment, electrical and electronic equipment, piping, and valves; while providing safe maintenance access.</p>	
 	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2016	\$14,860,000.00	\$14,860,000.00

PROJECT NO. 3

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Lakeshore Drive Shelter No. 3 Replacement Project New Orleans, LA</p> <p>Orleans Levee District - Non-Flood Protection Asset Management Authority 6514 Spanish Fort Blvd. New Orleans, LA (504)</p> <div style="display: flex; flex-direction: column; align-items: center;">    </div>	<p>Design Engineering was responsible for the documentation of existing conditions and program development; site investigations, research plans of previous facility, code research, permit agencies, meeting with levee board personnel and others to define program; develop concept and plan, develop schematic plans, develop three (3) design concepts, develop site utilities (water electrical drainage & sewer), civil/site and access improvements (sidewalk, handicap ramps, parking, excavation and embankment), develop landscape plan, develop preliminary foundation plan, coordinate with architect, landscape architect and electrical engineer, and prepare preliminary construction cost estimate.</p> <p>The work included a 13,690 square foot pile supported concrete slab and five (5) cast-in-place reinforced concrete canopy structures totaling 8,544 SF of covered area. Project involved separate men's and women's bathroom facilities, concrete sidewalk, site area lighting, new 3" water line, 6" water line relocation, gas line relocation, and a 3" sewer force main to tie into the existing sewer system west of Franklin Avenue. The work also included the installation of a sewer lift station with electrical control panel, relocation of light standards with new foundations, grading site to drain to exiting drainage structures, and cleaning and flushing existing subsurface drainage lines and structures.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2016	\$1,400,000.00	\$1,400,000.00

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Uptown Area Sewer Rehabilitation Project New Orleans, Louisiana (Pumping Stations and Force Mains) Sewerage and Water Board of New Orleans 625 St. Joseph Street New Orleans, LA (504) 865-0630	<p>Design Engineering, Inc. provided professional services for over 700 line segments for the Sewerage and Water Board of New Orleans to determine the existing surface type and condition. This project included estimation of restoration qualities, and utility and servitude conflict, summation of quantities, preparation of a Preliminary Design Report. The work also contained point repairs, line replacement and repairs to approximately 700 line segments in the Uptown New Orleans Area.</p> <p>DEI was responsible for:</p> <ul style="list-style-type: none"> • Tabulating the Summary of Quantities Sheet and preparing cost estimate for the entire Uptown Basin. • Listing the line segments that will potentially require servitudes or easements. • The preparation of a summary of quantities for the surface items and pipe replacement and repair items. • Updating the unit prices that were approved by the Sewerage and Water Board of New Orleans. <p>And, Design Engineering, Inc. (DEI) provided services to the Sewerage and Water Board of New Orleans for plans and specifications for the following Sewer System Rehabilitation projects:</p> <ul style="list-style-type: none"> • Upgrade of Sewage Pumping Station No. 20. This project consisted of developing design criteria, design flows, total dynamic head, and wet well capacity for PS No. 20. Also, the firm designed pumps and motors to handle the computed flows and replace exiting pumping station piping. This project included hydraulic analysis for multiple pump stations using a common force main. 3,000 gpm minimum flow; 4,250 gpm maximum flow. • 18" Sewer Force Main from Sewage Pump Station No. 20 to Sewage Pump Station No. 21. This project included preparation of preliminary and final design for 5,150 L.F of 18-inch diameter sewer force main in a residential area (Lakeview) in the City of New Orleans. The project consisted of design as well as necessary permits to the state and agencies and the City of New Orleans. • Contract 3813 Phase 3 Capacity Projects: New Sewer Force Main from SPS 3 to South Carrollton Avenue; Carrollton Avenue to Audubon Street. This project consisted of preparation of preliminary design report and final construction documents for and 18-inch Sewer Force Main approximately 4,550 feet in length. The firm developed the size of Sewer Force Main from the hydraulic analysis, calculation flows, and the preparation of plans and specifications for construction. Also, included in this project was directional drill across 200 wide R-O-W of heavily traveled Carrollton Avenue. 	
 	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2003	\$10,000,000.00	\$2,500,000.00

PROJECT NO. 5

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Sewage Pumping Station No. 8 New Orleans, Louisiana</p> <p>Chris Bergeron Sewerage and Water Board of New Orleans 625 St. Joseph Street New Orleans, LA (504) 865-0630</p>	<p>The Sewerage and Water Board of New Orleans contracted As part of Phase 1 of the Hazard Mitigation Grant Program, the Sewerage and Water Board of New Orleans contracted with Design Engineering, Inc. to provide professional engineering services to prepare contract and bid documents necessary to construct a new elevated sewage pumping station on a parcel of land approximately 800 feet from the site of the existing below ground pumping station.</p> <p>The project included a site specific topographic survey, geotechnical engineering report, and the preparation of a preliminary design to serve as the 30% schematic design for the project and the basis for final design.</p> <p>Final design included:</p> <ul style="list-style-type: none"> • Providing hydraulic, structural, and electrical design • Preparing detailed drawings and specifications • Preparing contract and bid documents • Preparing construction cost estimates <p>DEI provided hydraulic design that included: calculation of flow rates; determination of static and dynamic head losses; selection of pump and motor sizes; sizing of intake and discharge piping; review of flow distribution to multiple intake pumps; sizing of air release valves and backflow preventer valves; and sizing of the wet well for required flow capacities. Structural design of the building encompassed pile foundation design, uplift design, reinforced concrete wall design, and roof design.</p> <p>The new bi-level sewage pump station building was designed to protect the pump equipment within a dry-proofed reinforced concrete vault, with the top of the vault set to the current 500-year flood elevation. The building was designed to withstand a 130-mph wind load.</p> <p>The control and electrical equipment can be found on the upper level of the station, with the floor elevation of this level also set to the current 500-year flood elevation. The pumping capacity for this station is 5,000 GPM. The contract includes the design of 800 linear feet of 24-inch diameter gravity sewer pipe installed 20 feet below grade. Due to the physical constraints and depth of the pipe, a majority of this pipe will be installed using trenchless technology that can control the location of the tunneling to within one (1) inch vertically and horizontally of its intended elevation.</p> <p>The construction cost for this project is \$4,032,176.00</p> <p>DEI was awarded the ACI Louisiana Award of Excellence in 2019 for its work on Sewage Pumping Station No. 8</p>	
		
		
		
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2019	\$4,032,176.00	\$4,032,176.00



PROJECT NO. 6

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Northbound Manhattan Blvd. Continuous Right Turn Lane Jefferson Parish, LA</p> <p>Juan Gutierrez Jefferson Parish Engineering 1221 Elmwood Park Blvd. Jefferson, LA (504) 736-6505</p>	<p>DEI was responsible for the Feasibility Study, Preliminary Plans, Final Plans, Construction Engineering, and Resident Inspection for this project which included construction of an additional asphalt concrete northbound lane for Manhattan Boulevard (Gretna Boulevard to West Bank Expressway) with a concrete combination curb and gutter, subsurface drainage, replacement of existing gravity sewer line, relocate 2000 LF of water line and 2000 LF of sewer force main, and removals and replacement of existing concrete walks and drives under heavy traffic conditions and electrical services. The project also involved acquisition of substantial properties.</p>	
 	<p><u>Design Phase:</u></p> <p>The design phase included the design of an additional lane of vehicular traffic to the Northbound Manhattan Boulevard from Gretna Boulevard to US Highway 90 Business (South Side). This lane (roughly 1 mile long) was added to the property side of the existing roadway. The added lane begins at Gretna Boulevard and ends as a right turn lane at US Hwy 90 B Eastbound (West Bank Expressway). The project has dramatically reduced congestion on Manhattan Boulevard.</p> <p><u>Construction Phase:</u></p> <p>During this phase, DEI performed construction contract administration, construction engineering and resident inspection services. Work included the replacement and/or relocation of underground utilities beneath the additional lane, while having the existing two (2) traffic lanes open at all times (other than night work between 10:00pm to 6:00am).</p> <p>Construction continued 7 days a week for approximately 8 months. Also included in this project was the placement of new 12" sub-base, 12" base course and 12" asphaltic concrete and new driveways. DEI coordinated with the contractor to minimize interruptions while working on driveways, traffic signalization, asphalt placement (at night) and pavement striping (at night).</p> <p>Manhattan is a heavy traffic main corridor for the West Bank of Jefferson Parish. We provided services to assist the contractor in working weekends, nights and as necessary to accommodate up to six (6) crews working 24 hour schedules. We understood the need to be flexible with the work schedule at locations like these.</p> <p>The project was completed over 1 month ahead of the substantial completion date and it was on budget.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2012	\$3,783,450.00	\$3,783,450.00

PROJECT NO. 7

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Plum Orchard Sewage Pumping Station New Orleans, LA</p> <p>Chris Bergeron Sewerage and Water Board of New Orleans 625 St. Joseph Street New Orleans, LA (504) 865-0630</p>	<p>Design Engineering, Inc. was responsible for the preparation of contract and bid documents essential to build a new elevated pumping station at the site of the existing below ground pumping station.</p> <p>The project included a site specific topographic survey, geotechnical engineering report, and the preparation of a preliminary design to serve as the 30% schematic design for the project and the basis for final design.</p> <p>Final design included:</p> <ul style="list-style-type: none">• Providing hydraulic, structural , and electrical design• Preparing detailed drawings and specifications• Preparing contract and bid documents• Preparing construction cost estimates <p>DEI also provided the hydraulic design that included the calculation of flow rates, determination of static and dynamic head losses, selection of pump and motor sizes, sizing of intake and discharge piping, review of flow distribution to multiple intake pumps, sizing of air release valves and backflow preventer valves, and sizing of the wet well for required flow capacities. Structural design of the building encompassed pile foundation design, uplift design, reinforced concrete wall design, and roof design.</p> <p>The new bi-level sewage pump station building was designed to protect the pump equipment within a dry-proofed reinforced concrete vault, with the top of the vault set to the current 500-year flood elevation. The building was designed to withstand a 130 mph wind load.</p> <p>The control and electrical equipment is located on the upper level of the station, with the floor elevation of this level also set to the current 500-year flood elevation. The pumping capacity for this Pumping Station was 500 GPM.</p> <p>This project is currently under construction and the construction cost is \$1,126,180.00.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2016	\$1,126,180.00	\$1,126,180.00

PROJECT NO. 8

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Lakefront Utility Completion Project New Orleans, LA</p> <p>Orleans Levee District – Non Flood Asset Management Authority 6514 Spanish Fort Blvd. New Orleans, LA</p>	<p>This project included the design, construction administration and resident inspection services for 14 utility services that provide water, sewer and electric to the shelter houses along Lakeshore Drive. Included in the Utility Completion Project is 1,900 linear feet of 8" HDPE water main, 1,000 linear feet of 3" DHPE sewer force main, 300 linear feet of 6" gravity sewer main and three (3) pump stations. Sewage from the shelter houses (floodside) are pumped by the lift stations over the levee to the Sewerage and Water Board system on the protected side. The lakefront levee is the primary flood protection system for New Orleans and is approximately 25 feet in height.</p> <p>The levee crossings were installed in accordance with the requirements of the US Army Corps of Engineer. All buried utilities crossing the levee were installed above the design levee elevations.</p>	
 		
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2014	\$1,459,000.00	\$1,459,000.00

PROJECT NO. 9

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Sewage Pumping Station No. 6 New Orleans, LA</p> <p>Chris Bergeron Sewerage and Water Board of New Orleans 625 St. Joseph Street New Orleans, LA (504) 865-0630</p>	<p>The Sewerage and Water Board of New Orleans contracted with Design Engineering, Inc. to provide professional engineering services to prepare contract and bid documents necessary to construct a new elevated pumping station at the site of the existing below ground pumping station, as part of Phase I of the Hazard Mitigation Grant Program.</p>	
 	<p>Preparation of these documents included a site specific topographic survey, geotechnical engineering report, and the preparation of a preliminary design to serve as the 30% schematic design for the project and the basis for final design. Final design included hydraulic design, structural design, electrical design, preparation of detailed drawings, specifications, contract and bid documents and a construction cost estimate. Hydraulic design included calculation of flow rates, determination of static and dynamic head losses, selection of pump and motor sizes, sizing of intake and discharge piping, review of flow distribution to multiple intake pumps, sizing of air release valves and backflow preventer valves, and sizing of the wet well for required flow capacities. Structural design of the building included pile foundation design, uplift design, reinforced concrete wall design, and roof design.</p> <p>The building was designed to withstand a 130 mph wind load. The new bi-level sewage pump station building was designed to protect the pump equipment within a dry-proofed reinforced concrete vault, with the top of the vault set to the current 500-year flood elevation.</p> <p>The control and electrical equipment is located on the upper level of the station, with the floor elevation of this level also set to the current 500-year flood elevation. The pumping capacity for this station was 5,200 GPM.</p> <p>The construction cost for this project was \$2,900,900.00.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2016	\$2,900,900.00	\$2,900,900.00

PROJECT NO. 10

Project Name, Location and Owner's contact information:		Nature of Firm's Responsibility:	
<p>Lawrence Sewage Pumping Station New Orleans, LA</p> <p>Chris Bergeron Sewerage and Water Board of New Orleans 625 St. Joseph Street New Orleans, LA (504) 865-0630</p>		<p>As part of Phase 1 of the Hazard Mitigation Grant Program, the Sewerage and Water Board of New Orleans contracted with Design Engineering, Inc. to provide professional engineering services to prepare contract and bid documents necessary to construct a new elevated pumping station at the site of the existing below ground pumping station.</p> <p>The project included a site specific topographic survey, geotechnical engineering report, and the preparation of a preliminary design to serve as the 30% schematic design for the project and the basis for final design. Final design included hydraulic design, structural design, electrical design, preparation of detailed drawings, specifications, contract and bid documents and a construction cost estimate. Hydraulic design comprised the calculation of flow rates, determination of static and dynamic head losses, selection of pump and motor sizes, sizing of intake and discharge piping, review of flow distribution to multiple intake pumps, sizing of air release valves and backflow preventer valves, and sizing of the wet well for required flow capacities. Structural design of the building encompassed pile foundation design, uplift design, reinforced concrete wall design, and roof design.</p> <p>The new bi-level sewage pump station building was designed to protect the pump equipment within a dry-proofed reinforced concrete vault, with the top of the vault set to the current 500-year flood elevation. The building was designed to withstand a 130 mph wind load.</p> <p>The control and electrical equipment is located on the upper level of the station, with the floor elevation of this level also set to the current 500-year flood elevation. The pumping capacity for this station was 2,700 GPM.</p> <p>The constructon cost for this project was \$1,396,500.00.</p>	
 			
Completion Date (Actual or estimated):	Estimated Cost:		
	Entire Project:	Work for which Firm was Responsible:	
2016	\$1,396,500.00	\$1,396,500.00	

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		
2.		
3.		
4.		

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



Design Engineering, Inc. (DEI) has been engaged in the engineering business in Jefferson Parish for over 37 years. During these 37 years, DEI has focused much of its efforts in designing and constructing numerous large and complex sewer projects. DEI has worked successfully with Jefferson Parish and other local agencies on a variety of sewer projects. DEI is well-versed in the challenges and complications of the project and has the technical expertise to produce successfully for Jefferson Parish.

MINIMUM REQUIREMENTS FOR SELECTION

- 1) The persons or firms under consideration shall have at least one (1) principal who is a registered professional engineer in the State of Louisiana.

Design Engineering, Inc. has several personnel that meet this requirement. For the sake of brevity, we have included only Dr. Martin. **Jim Martin, Ph.D., P.E.** has over 13 years of design and management experience with Civil Engineering **Sewer** projects and is a Registered Professional Engineer in the State of Louisiana with a doctorate degree in hydraulics (specifically researching open channel flows).

- 2) The persons or firms under consideration shall have a professional in charge of the Project who is a registered professional engineer in the State of Louisiana with a minimum of five (5) years' experience.

Design Engineering, Inc. has several personnel that meet this requirement. For the sake of brevity, we have included only Mr. Holtgreve. **John Holtgreve, P.E.** has over 38 years of design and management experience with Jefferson Parish Sewer projects and is a Registered Professional Engineer in the State of Louisiana with vast experience in roadway design, highway design, drainage improvements, water and **sewer systems**, flood control projects, underground utilities, and bridge design projects.

- 3)** The persons or firms under consideration shall have one (1) employee who is a registered professional engineer in the State of Louisiana in the applicable discipline involved. A subcontractor may meet this requirement only if the advertised Project involves more than one discipline

Design Engineering, Inc. (DEI) has six (6) full-time professional engineers registered in the State of Louisiana with over 135 years combined experience in sewer design, lift stations design and pump station design. DEI will make available as many as all six (6) professional engineers for this project.

EVALUATION CRITERIA

1) PROFESSIONAL TRAINING AND EXPERIENCE:

Design Engineering, Inc. (DEI) has extensive local project experience and specialized engineering and design experience for **sewer** projects. DEI presently has on staff the technical, supervisory and administrative personnel to provide professional engineering services related to sewer projects and can assure the expeditious handling of the work.

For many years the DEI staff has executed design and construction administration of key projects throughout Jefferson Parish with success. DEI personnel are prepared to address the challenging issues of cost and time that face the Jefferson Parish Department of Public Works specific to this project.

We have pointed out some of our significant key projects for which we have provided important design. Our engineering and management staff has designed and constructed all of the projects presented. We list some of the personnel below who have been significantly involved in the process.

Jim Martin, Ph.D., P.E., is President of Design Engineering, Inc. and has over 13 years of experience in Design and Construction of Civil Engineering projects throughout the State of Louisiana. From the very beginning of his career, sewer projects have been an emphasis. (Please note the projects in his resume contained herein.) Dr. Martin holds an undergraduate degree in Civil Engineering from the University of Alabama, a Masters from Tulane University in Environmental Engineering, and a Doctorate from Tulane (primarily based on fluids research). Dr. Martin is a registered Professional Engineer in Louisiana, Alabama, and Georgia and is President of the New Orleans Chapter of American Consulting Engineers Council/Louisiana and Past President of the New Orleans Chapter of ASCE. He has served as a sewer design engineer, sewer project manager, and was the Program Manager for a \$60M sewer capital improvement program in 2014.

John W. Holtgreve, P.E. is Executive Vice President of Design Engineering, Inc. and will serve as *Project Manager* for DEI and as a *Civil Engineer* for this project. Mr. Holtgreve has over 38 years of professional consulting engineering experience and has worked as Project Manager and Principal-in-Charge for numerous civil and structural engineering projects including drainage improvements, water and **sewer systems**, flood control projects, roadway design, highway design, underground utilities and bridge design projects. (Please note the projects in his resume contained herein.) Mr. Holtgreve holds a BS and a MS in

Civil Engineering from Tulane University and is a Registered Professional Engineer in the State of Louisiana. Mr. Holtgreve's past professional experience include: American Society of Civil Engineering (Past State Board Member), American Consulting Engineers Council/Louisiana (Past President and Board Member), American Consulting Engineers Council (National Director), Society of American Military Engineers, American Concrete Institute, American Public Works Association. Mr. Holtgreve has been designing lift stations and force mains in the Greater New Orleans Area for over 3 decades.

Ben Bartlett, P.E., PTOE, has over 7 years' experience with the Design and Construction of Civil and Environmental Engineering projects throughout Southeast Louisiana. He has worked on numerous Jefferson Parish projects including water and **sewer system rehabilitation and improvements**, various hydraulic studies, drainage improvements, canal crossings, roadway improvements, as well as bridge rehabilitation and design. Additionally, Mr. Bartlett has worked on various projects in the surrounding area including roadway design and rehabilitation, sewer system improvements, drainage improvements, hydraulic studies, and erosion protection. Mr. Bartlett holds a BS in Civil and Environmental Engineering from The Citadel and a Masters in Civil Engineering from Auburn University and is a registered Professional Engineer in the state of Louisiana.

Brett Liuzza, P.E., has over 5 years' experience on a variety of infrastructure improvement projects including roadway, drainage, **sewer**, and water system improvements. He has recently designed a sewer collection system for a multimillion dollar private site development as well as a collection system and lift station for a new Shelter currently under construction on the Lakefront. Mr. Liuzza holds a BS in Civil Engineering from Louisiana State University and is a registered professional engineer in the states of Louisiana.

Brent French, P.E., has over 5 years of experience in design and construction administration of a variety of infrastructure improvement projects in the Greater New Orleans area. He was instrumental in the construction of the award-winning MacArthur Road and Bridge Project, the **award-winning Sewage Pumping Station No. 8**, as well as the Jefferson Parish District 3 Submerged Roads Program. Mr. French holds a BS and MS in Civil Engineering from the University of Mississippi and is a registered professional engineer in the state of Louisiana.

John Karlin, SE, P.E., has been involved with numerous design and construction projects with Design Engineering, Inc. for several years. Mr. Karlin has authored the General Design Memorandum (GDM) for the LADOTD, Jefferson Parish and the Regional Planning Commission for a new bridge to be constructed between River Road north to the elevated Causeway at Jefferson Highway/Causeway Bridge. The project involves 10 alternatives that range from \$11,500,000.00 to \$25,000,000.00 and can be constructed in two (2) phases. This complex project involves major traffic efforts that will improve the traffic flow on River Road at Ochsner Hospital to Causeway Blvd. and Jefferson Highway. He holds a BS in Civil Engineering from Worcester Polytechnic Institute and a Masters in Civil Engineering from University of Illinois at Urbana-Champaign. Mr. Karlin is a registered professional engineer in the State of Louisiana and a registered professional structural engineer in the State of Illinois. He is certified in the ATSSA Traffic Control Technician, and ATSSA Traffic Control Supervisor and Flagger Course as required by the LADOTD.

2) SIZE OF FIRM:

Unlike at larger firms, DEI utilizes its most senior professionals and executives as actual engineers, rather than exclusively as executives or "rainmakers." Engineers with 40 years' experience simply do not perform the engineering work on a hands-on basis at other firms. All of DEI's engineers in this submittal will participate in the intimate details of the engineering required for this project. Conversely, smaller

firms simply do not have the depth and breadth of experience, nor the technical resources, that DEI has. Simply put, **DEI combines the experience and technical resources of a large firm with the attention to detail and customer service of a small firm.** DEI presently has on staff sufficient technical, supervisory, and administrative personnel to provide the required services and can assure the successful completion of this project.

3) CAPACITY FOR TIMELY COMPLETION OF THE WORK:

The design of several sewer projects have been recently completed or are near completion. Therefore, we have a large engineering team available to jump on this project. This project can be easily absorbed by the firm, as we have substantial reserve production capacity to meet any reasonable project scheduling.

Our current and projected firm capacity shown below indicates a 40% capacity shortfall by September 2021. The 15% capacity anticipated for this project would be very welcome and needed to maintain our current staff levels.

4) PAST PERFORMANCE ON PUBLIC CONTRACTS:

Design Engineering, Inc. has successfully designed and performed construction administration for various types of drainage, roadways, flood control, water and **sewer projects** for Jefferson Parish. In the past several months we received an Award of Merit for our Sewer Lift Station work in New Orleans at Sewer Pump Station Number 8.

The Wilker Neal at Airline Drive construction project was completed on time and without a single change order. The Veterans Boulevard Widening, Roosevelt to Williams project was completed on time as well in a difficult traffic situation and with no complaints from adjacent property owners during or after construction.

The Manhattan Blvd. Widening was successfully completed amid some of the highest levels of traffic anywhere in the Parish.

Design Engineering, Inc. has designed and administered the construction contracts for award winning projects. DEI received a Certificate of Exceptional Performance from the USACE for work that included, among others, pump station design. The Lakefront Airport Bridge (East Approach) has won several awards including Best Project of the Year in the State of Louisiana by the ACI Louisiana Chapter. The project also received awards from the Precast/Prestressed Concrete Institute including Best Project of the Year in Louisiana and second overall for the Southern Region.

DEI was awarded the ACI Louisiana Award for Best Project of 2012, Best Public Works Project of 2012, and the Award for Sustainability for its work on the Planters Pumping Station Frontal Protection Project (located in Jefferson Parish). Most recently, DEI won the ACI Louisiana Award of Excellence for its work on the City of New Orleans Sewage Pumping Station No. 8 in 2019.

Other successful projects that DEI has designed and performed construction administration include the Lakefront Airport Bridge (West Approach), the Lakeshore Drive Bridge at London Avenue Canal, the Lakeshore Drive at Orleans Avenue Canal and the ACI Louisiana Award of Excellence and Best Public Improvement Project for its work on the Lakefront Seawall Area Erosion Control Project in 2014.

- Our firm has completed each task assigned in a timely manner.
- We have remained within budget.

- We have been singled out on numerous occasions for local and regional awards.

5) LOCATION OF OFFICE:

Design Engineering, Inc. maintains its office in Jefferson Parish at 3330 West Esplanade Avenue, Suite 205, Metairie, Louisiana and has done so for 36 years.

Our Firm "knows the territory."

- We are headquartered in Jefferson Parish and have outstanding geographic proximity to serve Jefferson Parish under this assignment.
- We have worked with all facets of Federal, state and local governments as well as local communities and private industry in excess of 45 years as individuals and in excess of 36 years as a firm.
- All of our proposed project personnel work in Jefferson Parish (and most of them live here as well).
- We can and will provide responsive services to Jefferson Parish as demanded for this project.

6) ADVERSARIAL LEGAL PROCEEDINGS:

Design Engineering, Inc. is not now, nor has it ever been, involved in any adversarial legal proceedings between the Parish and any related parties.

7) PRIOR SUCCESSFUL COMPLETION OF PROJECTS OF THE TYPE AND NATURE OF THE ENGINEERING SERVICES:

Design Engineering, Inc. has completed a number of successful projects in Greater New Orleans requiring new sewer structure and roadway reconstruction and utilities relocation work.

- Sewage Pumping Station No. 8 (Award Winning)
- 31st. and Jasper Sewer Lift Station (City of Kenner)
- Bullard Sewage Pumping Station.
- Dodt Sewage Pumping Station.
- Lake Forest Sewage Pumping Station.
- Plum Orchard Sewage Pumping Station.
- Victoria Sewage Pumping Station.
- Sewage Pumping Station No. 6.
- Lawrence Sewage Pumping Station.
- Lakeshore Drive Shelter No. 3 Replacement Project.
- Uptown Area Sewer Rehabilitation Project (Pumping Station and Force Mains)
- Northbound Manhattan Blvd. Continuous



31st & Jasper Sewer Lift Station



S&WB of N.O. Replacement of Existing Sewage Pumping Stations

PAST AND CURRENT PROFESSIONAL ACCOMPLISHMENTS:

Design Engineering, Inc. has over 36 years of experience providing engineering design and analysis and construction management of **sewer systems**, water systems, drainage systems and pumping stations, roadways, site facilities, marinas, levees, floodwalls, and floodgates. DEI has served as project coordinator on many complex projects including a major hurricane and flood

protection project that involved more than 80 projects totaling over \$400 million. DEI maintains the highest quality projects in its portfolio of any firm in the region. Over the years DEI has received many awards and accolades for the professional services it has provided. Below is a list of some of these awards, several of which are for work that was performed in Jefferson Parish.

Considering our current workload, DEI has the manpower and equipment to execute the volume of work anticipated in this solicitation. We are confident that we have the right people and required resources, when and where they are needed, to meet the needs of this project. DEI has established management procedures for coordinating and executing work among in-house staff and subcontractors to ensure the work is performed on schedule and without budgeting overruns.

Closing Statement:

We are extremely interested in this solicitation.

Design Engineering, Inc. has extensive experience in the design of sewer projects in Jefferson Parish and throughout the New Orleans Metropolitan Area.

Design Engineering, Inc. has the capacity to easily absorb this project assignment.

Please give us your serious consideration.

REFERENCES

- | | | |
|---|--|---|
| 1) Dr. Shawn Wilson
Secretary
LADOTD
Baton Rouge, LA
(225) 379-1200 | (2) Wilma Heaton
Chair
NFPAMA
New Orleans, LA
(504) 355-5990 | (3) Carlton Dufrechou
General Manager
GNOEC
Metairie, LA
(504) 835-3118 |
|---|--|---|

AWARDS

- Award for the Top Engineering Firm from the City Business (2020)
- **Award of Excellence from ACI Louisiana Chapter for Replacement of Sewage Pumping Station No. 8 (2019)**
- **Award of Merit** from ACI, Louisiana Chapter for West Esplanade Avenue Crossing Project (2019)
- **Award of Excellence in Historic Preservation** from The La Landmarks Society for 419 Carondelet Project (2019)
- **Award of Excellence in Historic Preservation** from The La Landmarks Society for 822 Howard Project (2017)
- **Overall Best Concrete Project** from ACI Louisiana Chapter for MacArthur Interchange Completion Project –Phase 1B (2016)
- Award of **Excellence** from ACI Louisiana Chapter for MacArthur Interchange Completion Project – Phase 1B (2016)
- Award of **Excellence** from the ACI, Louisiana Chapter for Seawall Erosion Control Paving Project – Reach 1B (2014)
- **Most Improvement to the Public Award** from the ACI, Louisiana Chapter for Seawall Erosion Control Paving Project – Reach 1B (2014)
- **Overall Best Project** from the ACI, Louisiana Chapter for Planter's Pump Station Frontal Protection (2012)
- Award for **Concrete Sustainability** from the ACI, Louisiana Chapter for Planter's Pump Station Frontal Protection (2012)
- Award of **Excellence** from the ACI, Louisiana Chapter for Planter's Pump Station Frontal Protection (2012)
- **USACE – New Orleans District Certificate of Appreciation**, for Exceptional Achievement in support of the Mississippi Valley Division's New Orleans District and the Execution of the Hurricane and Storm Damage Risk Reduction System (2012)
- **Exceptional Project Rate**, for LPV 106, US Army Corps of Engineers Hurricane Protection Office (2012)
- Award of **Merit** from ACI for the Plaza Area Paving at Stepped Seawall on Lakeshore Drive (2005-2006)
- Award of **Excellence** from ACI for the Lakeshore Drive – London Avenue Canal Bridge Replacement (2003)
- Award of **Merit** from ACI for the Retaining Wall Restoration at the New Orleans Lakefront Airport (2001)
- **Creative Design Utilizing Precast and Prestressed Concrete** from PCI for the East Approach to Stars and Stripes Boulevard (1999)
- Concrete Project Award from G.S.P.C.A. for **Best Project** for Stars and Stripes Boulevard East and West Approach (1997 – 1998)
- **Best Project of the Year** award from ACI, Louisiana Chapter for East Approach to Stars and Stripes Boulevard (1997)
- Award of **Excellence** from the ACI, Louisiana Chapter for East Approach to Stars and Stripes Boulevard (1997)



BEST OVERALL CONCRETE PROJECT & AWARD OF EXCELLENCE
MacArthur Interchange Completion Project – Phase 1B



OVERALL BEST PROJECT, AWARD OF CONCRETE SUSTAINABILITY & AWARD OF EXCELLENCE
Planter's Pump Station Frontal Protection



AWARD OF EXCELLENCE & MOST IMPROVEMENT TO THE PUBLIC
Lakeshore Dr. Seawall Area Erosion Control Paving

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

Signature: _____ **Print Name:** Jim Martin, Ph.D., P.E.

Title: _____ **Date:** May 26, 2021

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 should be completely filled out. Complete and attach 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. Failure to sign the questionnaire shall result in disqualification of proposer pursuant to J.P. Code of Ordinances Sec. 2-928.
- All subcontractors must be listed in the appropriate section of the Questionnaire. Each subcontractor must provide a complete copy of the TEC Questionnaire, applicable licenses, and any other information required by the advertisement. Failure to provide the subcontractors' complete questionnaire(s), applicable licenses, and any other information required by the advertisement shall result in disqualification of proposer pursuant to J.P. Code of Ordinances Sec. 2-928.
- If additional pages are needed, attach them to the questionnaire and include all applicable information that is required by the questionnaire.

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

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

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

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

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

<input type="checkbox"/> Administrative	<input type="checkbox"/> Estimators	<input type="checkbox"/> Specification Writers
<input type="checkbox"/> Architects (Licensed)	<input type="checkbox"/> Geologists	<input type="checkbox"/> Structural Engineers
<input type="checkbox"/> Chemical Engineers	<input type="checkbox"/> Geotechnical Engineers	<input type="checkbox"/> Graduate Engineers
<input type="checkbox"/> Civil Engineers	<input type="checkbox"/> Interior Designers	<input type="checkbox"/> Project Managers
<input type="checkbox"/> Construction Inspectors	<input type="checkbox"/> Landscape Architects	<input type="checkbox"/> Clerical
<input type="checkbox"/> Ecologists	<input type="checkbox"/> Land Surveyor	<input type="checkbox"/> Grant/Funding Specialist
<input type="checkbox"/> Electrical Engineers	<input type="checkbox"/> Mechanical Engineers	<input type="checkbox"/> Sanitary Engineers
<input type="checkbox"/> Engineer Intern	<input type="checkbox"/> Environmental Engineers	
<input type="checkbox"/> Professional Land Surveyors		<input type="checkbox"/> 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.		
2.		
3.		

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

TEC Professional Services Questionnaire

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

Mr. Chopin has worked on the following applicable projects:

Violet Sewer Improvements - Violet, LA - Principal provided QA/QC for design services to reduce the effects of rain induced system constrictions in a sanitary sewer system. The design included the construction of four new sanitary sewer pump stations and increased capacity in gravity sewers and new force mains to allow for more efficient collection and transport of sewage during rain events.

JCUA Gautier WWTP Improvements - Gautier, MS - Provided QA/QC for repair and modification design to two 60-in. diameter clarifiers and the non-potable system's revamp. Mechanical equipment, the scum pump, and the RAS/WAS pumps were removed and replaced. The RAS/WAS pump piping was simplified. Clarifier mechanism control panels, RAS/WAS pumps, and scum pump were installed.

Weyer Street Drainage - Gretna, LA - Project Manager for the design and preparation of plans and specifications for approximately 700 feet of subsurface drainage improvements.

St. Bernard Water Purification Plant Upgrade - Chalmette, LA - Principal provided QA/QC for the engineering calculations and mechanical design, product and material selection, and working document production for upgrades to a 12 million gallon per day water purification plant.

Willowridge Drainage Pumping Station - Luling, LA - Provided design oversight for a new 300 CFS drainage pump station that included bar screens, pump station structure, three 100 CFS vertical pumps with electric motors, backup generator, and discharge pipes located in the Willowridge Subdivision on the west bank of St. Charles Parish. The electrical design consisted of a 1600 amp, 3 phase, 480V normal utility power service in combination with an 800 kW standby generator to serve the (3) 250 hp electric pump motors.

St. James Parish Master Drainage Plan - St. James Parish, LA - Provided project oversight for the preparation of a Master Drainage Plan to alleviate flooding in the existing subdivisions and agricultural lands through development of upgraded outfalls. This phase of the study determined existing drainage conditions, created an existing conditions model and identified drainage and flooding problem areas. The Master Drainage Plan resulted in BKI's participation in an Eastbank-wide culvert analysis and design program partly funded by GOHSEP grants.

New Orleans Sewerage and Water Board Sewer Repairs Program Management - New Orleans, LA - Provided program management services to oversee major repairs and replacements at 85 sewer pumping stations in the City of New Orleans damaged by Hurricane Katrina.

Marvin Braud Master Drainage Plan and Drainage Pump Station - Ascension Parish, LA - Performed QA/QC and project oversight for pump station improvements and additions, which included a new station with 2,000-cubic feet per second (CFS) of pumping capacity. The new pumping station had a pile-supported intake basin and concrete discharge tubes, a steel-framed superstructure, and two 1,000 CFS pumps with diesel drives and gear reducers. BKI also designed reinforced concrete floodwalls along the banks of the station discharge channel downstream from the facility.

TEC Professional Services Questionnaire

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

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

--

Project Assignment:

--

Name of Firm with which associated:

--

Years' experience with this Firm:

--

Education: Degree(s)/Year/Specialization:

--

Active registration: Year first registered/discipline:

--

Other experience and qualifications relevant to the proposed Project:

--

Mr. Picard has worked on the following applicable projects:

Anna Street Sewer Lift Station - Slidell, LA - Principal on project to demolish and replace an existing pump station with a new station in the City's right-of-way along Anna Street. BKI provided the plans and specifications for the design of the station slab, vault slab, and control panel support. Provisions will be in place for connecting an emergency generator.

New Cardinal Sewer Lift Station - Slidell, LA -Principal on project to demolish and replace the existing pump station with a below grade pump station. BKI's services included the design of the station slab, vault slab, and control panel support. The Cardinal Street Lift Station was above grade in a residential neighborhood. Provisions will be in place for connecting an emergency generator.

Sewer Lift Station Improvements at Ole Miss Drive/35th Street - Kenner, LA - Principal provided QA/QC for a new sewer lift station quadplex control panel with controls and power feed for a system to operate one 30 HP and three 125 HP pump motors. BKI's scope included: design of new power and controls circuits, new 600 amp service entrance rated automatic transfer switch (ATS), new electric utility service routed to the new ATS, new emergency power service, design of new service to lift station control panel, new electrical distribution equipment and quadplex control panel.

Cheniere Water Storage Tank - Grand Isle, LA - As Principal, provided design oversight and project management for a new 750,000 gallon potable water storage tank and variable frequency drive pumps. Project included phased construction and demolition of existing tanks on a very tight footprint at the site.

City of Shreveport NPDES / MS4 Permits - Shreveport, LA - Project Manager for a project involving the preparation of discharge permits for the City of Shreveport's wastewater treatment plants in conformance with the NPDES permit process.

E. Baton Rouge Sewer Improvements - Baton Rouge, LA - Preparation of a preliminary design report for design of a 72 MGD deep tunnel pump station, including the deep wet well with trash screens, four Sewage Pumps, and a discharge force main system from the Tunnel PS to the Central WWTP, a distance of over 3 miles.

Rosethorne Sewage Treatment Plant - Jefferson Parish, LA - Principal provided design oversight for a new 0.5 MGD average daily flow treatment facility to take the place of an existing Rosethorne WWTP in Lafitte, LA. BKI's design included all process equipment and controls, pumps, piping, and other items to construct a complete and functional WWTP.

Marrero WWTP Headworks - Marrero, LA - Principal provided QA/QC for the project to modify the WWTP's existing headworks. This project consisted of upgrades to several process areas within the existing headworks, including replacement of trash screens, modification to the grit chamber pumping and grit processing equipment, repair of the conveyor belt for the sludge filter presses new elevated control room and repairs of equipment for loading of processed sludge and trash screen debris into trucks. In addition, the existing electrical room that houses the electrical power and control equipment for the headworks was relocated from the current room on the first floor to a new standalone building.

Marvin Braud Master Drainage Plan and Drainage Pump Station - Ascension Parish, LA - Responsible for overseeing the development of preliminary and final plans for adding 2,000 CFS capacity to the existing Marvin Braud Drainage Pump Station near Gonzales. The project included new metal station housing and relocation of the fuel tanks and silencers. Mr. Picard also supervised the analysis of open channel drainage network in Ascension Parish using HEC-HMS and HEC-RAS unsteady model to evaluate hydraulic effects of dredging drainage channels in the Marvin Braud Pump Station Basin.

Maplewood Area Drainage Improvements - Harvey, LA - Principal provided project supervision and subconsultant coordination for the development of construction drawings and specifications for the installation of 9,100 linear feet of stormwater culverts, 33 junction boxes, 80 catch basins, and 3,500 square yards of paving. FEMA Hazard Mitigation Grant Program funds were awarded to Jefferson Parish after Hurricane Gustav, and the project would improve drainage in the Maplewood subdivision, which had historically flooded during intense rainfall events.

TEC Professional Services Questionnaire

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

Mr. Caluda has worked on the following applicable projects:

New Cardinal Street Sewer Lift Station - Slidell, LA - Mechanical Designer selected pumps, valves, piping, and accessories for the replacement of an existing above grade pump station with a submersible, low profile pump station. He also created the demolition plan. Isolation valves and an emergency pump out will be located above grade for maintenance. Controls and power wiring will be routed to a main control panel above the base flood elevation.

New Anna Street Sewer Lift Station - Slidell, LA - Mechanical Designer selected pumps, valves, piping, and accessories for the replacement of an aging, inaccessible pump station. He also created the demolition plan. The new station will feature submersible pumps with variable frequency drives that can be pulled to grade through an access hatch in the top slab.

Central Wastewater Treatment Plant Tunnel Pump Station – Baton Rouge, LA - Preparation of a preliminary design report for design of a 72 MGD deep tunnel pump station, including the deep wet well with trash screens, four 16" and four 30" VTSH Sewage Pumps, and a 54" discharge force main system from the Tunnel PS to the Central WWTP, a distance of over 3 miles.

Rosethorne Sewage Treatment Plant - Jefferson Parish, LA - Mechanical Designer for a new 0.5 MGD average daily flow treatment facility to take the place of an existing Rosethorne WWTP in Lafitte, LA. BKI's design included all process equipment and controls, pumps, piping, and other items to construct a complete and functional WWTP including rehabilitation of the existing sewer lift station and a new effluent pump station.

Taft Park Drainage Pumping Station - Metairie, LA - Provided mechanical design for the drainage pump station, including distribution, controls, and a standby generator. This was a Hazard Mitigation Grant Program funded project.

S&WB SSERP Package 2 Phase 3 - New Orleans, LA - Design of Phase 3 projects Corrective Action Plan for the East Bank Waste Water Collection System upgrades to sewer pump station 17 (8 MGD), P S 23 (5 MGD) and Michoud Boulevard 12" Sewer Force Main System (8,000 LF) for the New Orleans S&WB.

Harvey Wastewater Treatment Plant Odor Control - Harvey, LA - Produced design drawings for improvements to the Harvey Wastewater Treatment Plant.

Jeff Parish Sewer Lift Station D-8-2 Upgrade - Waggaman, LA - Mechanical Designer for the replacement of a sewer lift station to resolve a continuing problem with sewer overflows. Design included a new fiberglass wet well with two new submersible sewer pumps manifolded into a single 12" sewer force main. Design work also included a new section of 12" directionally drilled and open cut sewer force main.

TEC Professional Services Questionnaire

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

Mr. Furlow has worked on the following applicable projects:

Cheniere Water Storage Tank - Jefferson Parish, LA – Mechanical engineer for a 750,000 gallon ground storage tank and duplex pump station at the water department's Cheniere facility in Grand Isle.

25th Street Canal Drainage Improvements Project (Resiliency District) - Ascension Parish, LA -Mechanical engineering and design for new pump station with capacity of 350 cfs to provide drainage of residential area in Jefferson Parish.



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:

J. Bart Mullis, III PE

Project Assignment:

Electrical Engineer

Name of Firm with which associated:

Burk-Kleinpeter, Inc.

Years' experience with this Firm:

12

Education: Degree(s)/Year/Specialization:

Associates Degree/1974/Electrical Engineering

Active registration: Year first registered/discipline:

Mississippi10933/1990/Professional Engineer

Other experience and qualifications relevant to the proposed Project:

Mr. Mullis, an Associate - Electrical Engineer, joined BKL in 2008 and has over 40 years of experience in engineering management, project management, engineering, design, servicing, and construction projects including commercial, institutional, industrial, and power generation with six years in nuclear power generation. He has worked as a technician, field and design engineer, and construction supervisor, and has prepared specifications and procedures. Mr. Mullis also has experience with computer-aided design and engineering tasks such as load calculation, systems analysis, spreadsheets, word processors, and CAD systems. He has worked on a broad range of project types and sizes including primary distribution, secondary distribution, medium voltage systems, communications, security systems, data, and fire detection and alarm systems. Mr. Mullis also coordinates and supervises electrical, mechanical, plumbing, civil, fire protection design, and contractors.

Mr. Mullis has worked on the following applicable projects:

Kenner Lift Station Vintage at Medoc - Kenner, LA - Responsible for the electrical design for the preparation of plans, specifications, and cost estimates for a new sewer lift station. The new configuration included three new 1,500 GPM dry pit submersible sewer pumps, odor control system, elevated control panel, and isolated valves.

New Anna Street Sewer Lift Station - Slidell, LA - Lead electrical engineer provided design of the power plan, site lighting, and controls for the replacement of an aging, inaccessible pump station. The controls and power wiring will be routed to a main control panel located on a steel platform above the base flood elevation.

Sewer Lift Station Improvements at Ole Miss Dr./35th St. - Kenner, LA - Provided electrical design for a new sewer lift station quadplex control panel with controls and power feed for a system to operate one 30 HP and three 125 HP pump motors. BKI's scope included: design of new power and controls circuits, new 600 amp service entrance rated automatic transfer switch (ATS), new electric utility service routed to the new ATS, new emergency power service, design of new service to lift station control panel, new electrical distribution equipment and quadplex control panel.

St. John Parish Wastewater Lift Station Telemetry System - St. John the Baptist Parish, LA - Provided electrical design for a telemetry system for 50 existing sewerage lift stations. At each lift station, a new pump station controller, wireless radio, and antenna were installed. BKI also designed structural support stands and all associated conduit, wiring, supports, and all other incidental work required to complete this project.

Upgrades to Cardinal Dr. Sewer Lift Station - Slidell, LA - Lead electrical engineer provided design of the power plan, site lighting, and controls for the replacement of an existing above grade pump station with a submersible, low profile pump station. Isolation valves and an emergency pump out will be located above grade for maintenance. Controls and power wiring will be routed to a main control panel above the base flood elevation.

City of Ponchatoula Lift Station Generators - Ponchatoula, LA - Project electrical engineer responsible for project coordination, field site visits, and detailed electrical design to support the installation of 10 emergency generators for the CDBG funded project.

Gretna Emergency Sewer Lift Station #7 Generator - Gretna, LA - Lead electrical engineer and project coordinator for the permanent installation of a 250 kW generator and 600 amp automatic transfer switch to operate the existing pumping station. Due to the close proximity to residential homes and a community park, the generator was specified with a sound attenuated enclosure to reduce noise pollution. The project was funded through the State of Louisiana's Office of Community Development Disaster Recovery Unit.

Gretna Sewer Lift Station #1 Generator - Gretna, LA - Lead project electrical engineer and project coordinator for a new 350 kW permanently installed generator and 800 amp automatic transfer switch to operate the recently upgraded pumping station. The project was funded through the State of Louisiana's Office of Community Development Disaster Recovery Unit.

Gretna Wastewater Treatment Plant Generator - Gretna, LA - Lead project electrical engineer and project coordinator of a new 800 kW generator and fuel tank. The new generator is sized to operate all of the emergency operation loads.

Jeff Parish Rosethorne Sewage Treatment Plant - Jefferson Parish, LA - Lead electrical engineer provided design of the power plan, site lighting, and controls for a new 0.5 MGD average daily flow treatment facility to take the place of an existing Rosethorne WWTP in Lafitte, LA. BKI's design included all process equipment and controls, pumps, piping, and other items to construct a complete and functional WWTP including rehabilitation of the existing sewer lift station and a new effluent pump station.

TEC Professional Services Questionnaire

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

Mr. Vega has worked on the following applicable projects:

New Anna Street Sewer Lift Station - Slidell, LA - Area lighting design for lift station area. Power design per NFPA 820 standards to provide power to lift station pumps and control panel. Design provision for portable generator connection. Grounding design to lift station area, equipment, and support.

Upgrades to Cardinal Dr. Sewer Lift Station - Slidell, LA - Area lighting design for lift station area. Power design per NFPA 820 standards to provide power to lift station pumps and control panel. Design provision for portable generator connection. Grounding design to lift station area, equipment, and support.

St. Bernard Parish Violet Sewer System Improvements - St. Bernard Parish, LA - Electrical design and drafting for a new pump station and 5000' of various force mains with the purpose of eliminating gravity sewer system overflows occurring in the Violet area.

St. John the Baptist Parish Wastewater Lift Station Telemetry System - St. John the Baptist Parish, LA- Provided design detailing and drafting support for bid documents, construction services, and resident inspection for the installation of a telemetry system for 50 of the Parish Wastewater Lift Stations.

Willowridge Drainage Pumping Station -St Charles Parish, LA- Provided electrical design for a new 300 CFS drainage pump station including bar screens, pump station structure, three 100 CFS vertical pumps with electric motors, backup generator and discharge pipes located in the Willowridge Subdivision on the west bank of St. Charles Parish.

Ellington Pump Station - New Orleans, LA– Provided electrical design and construction administration services for the construction of a 500 cfs drainage pump station. The station was equipped with four 125 cfs vertical pumps driven by high efficiency electric motors.

Taft Park Drainage Pumping Station – Jefferson Parish, LA - Electrical design for the new 63 CFS pumping station, new gravity collection drains on Taft Park, Belmont and North Turnbull Drive between West Napoleon and the I-10 South Service Road and a new effluent force main from the new pump station routed south to the West Napoleon Canal.

St. Bernard Water Purification Plant - St. Bernard Parish, LA - Responsible for performing design calculations and electrical design, product and material selection, and working document production for upgrades to a 12 million gallon per day water purification plant.

Gretna Blvd. Water Tower Replacement - Gretna, LA - Electrical improvements to a new water tank site including a wireless transmitter to transmit water pressure readings to operations personnel and area lighting of the finished site.

Scarsdale Pump Station Engine Replacement - Plaquemines Parish, LA - Responsible for the electrical design for the replacement of four new diesel pump drive engines, right angle gears and cooling equipment at the Scarsdale Drainage Pumping Station in Plaquemines Parish.

TEC Professional Services Questionnaire

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

PROJECT NO. 1

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

PROJECT NO. 2

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

TEC Professional Services Questionnaire

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

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

TEC Professional Services Questionnaire

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

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

TEC Professional Services Questionnaire

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

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

TEC Professional Services Questionnaire

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

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

TEC Professional Services Questionnaire

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

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

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

The seal of the State of Louisiana, Jefferson Parish, is centered at the top of the page. It features a green circular border with the text "State of Louisiana" at the top and "Jefferson Parish" at the bottom. In the center of the seal is a yellow map of Louisiana.

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

Signature: WDL Print Name: _____

Title: _____ **Date:** _____

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Professional Engineering Services related to the design or the Rehabilitation of the Transcontinental) and Belle Lift Station (E8-1); Resolution 137449

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

Bryant Hammett & Associates, LLC
1104 Dealers Avenue; Suite A
Harahan, LA 70132

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:

Bryant O. Hammett, Jr. PE/PLS
Owner/Manager
504-733-8004
bhammett@bha-engineers.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.

Hugh 'Bud' McCurdy, III
PLS
504-391-2835
hmccurdy@bha-engineers.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> </u> Architects (Licensed)	<u>1</u> Geologists	<u> </u> Structural Engineers
<u> </u> Chemical Engineers	<u> </u> Geotechnical Engineers	<u> </u> Graduate Engineers
<u>1</u> Civil Engineers	<u> </u> Interior Designers	<u>2</u> Project Managers
<u>4</u> Construction Inspectors	<u> </u> Landscape Architects	<u>2</u> Clerical
<u> </u> Ecologists	<u>6</u> Land Surveyor	<u> </u> Grant/Funding Specialist
<u> </u> Electrical Engineers	<u> </u> Mechanical Engineers	<u> </u> Sanitary Engineers
<u> </u> Engineer Intern	<u> </u> Environmental Engineers	<u>7</u> Other
<u>2</u> Professional Land Surveyors		28 TOTAL

F. Is this submitta 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. NA		
2. NA		
H. Has this JOINT-VENTURE previously worked together? Please check: YES <input type="checkbox"/> NO <input type="checkbox"/>		
I. List all subcontractors anticipated for this Project. Please note that <u>all subcontractors must submit a fully completed copy of this questionnaire</u>, applicable licenses, and any other information required by the advertisement. See Jefferson Parish Code of Ordinances, Sec. 2-928(a)(3). Please attach additional pages if necessary.		
Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. NA		
2.		
3.		
J. Please specify the total number of support personnel that may assist in the completion of this Project: <div style="font-size: 1.5em; margin-top: 10px;">12</div>		

TEC Professional Services Questionnaire

K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e. 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:
Bryant O. Hammett, Jr. PE/PLS Owner/Manager
Project Assignment:
Principal of firm. Project Administrator who is a registered professional engineer/surveyor in LA
Name of Firm with which associated:
Bryant Hammett & Associates, LLC
Years' experience with this Firm:
37
Education: Degree(s)/Year/Specialization:
BSCE/1978/Civil Engineering
Active registration: Year first registered/discipline:
1983/Civil Engineering, LA 1985/Surveyor, LA 1985/Civil Engineering, MS 1996/Environmental Engineering, LA
Other experience and qualifications relevant to the proposed Project:
<p>Bryant Hammett, Jr., PE/PLS, has been the sole proprietor of Bryant Hammett & Associates, L.L.C., since 1984. He is a registered Civil and Environmental Engineer and Professional Land Surveyor in Louisiana and is also registered to practice Civil Engineering in the State of Mississippi.</p> <p>Hammett has been the engineer and surveyor of record for numerous types of projects including: wastewater collection and treatment; water treatment, transmission and distribution; natural gas distribution and transmission; electrical transmission; oil transmission; off-system bridges; levee systems; construction servitudes; and roadway and drainage.</p> <p>As infrastructure manager for the Louisiana Office of Community Development's Disaster Recovery Unit, Hammett performed and oversaw professional civil, structural and/or transportation engineering work related to the planning, design, development, construction and maintenance of projects funded under the Louisiana Community Development Block Grant/Disaster Recovery Programs. Such projects included capital improvements, storm water and drainage systems, wastewater systems, potable water systems, natural gas systems, fire protection systems, roads, bridges and utility systems. He managed complex engineering programs; provided professional assistance and technical advice to state and local officials; coordinated project development and implementation with contractors, other departments and other agencies; administered professional services contracts; evaluated requests for changes and/or additional work; directed the work of subordinate professional staff; and performed related work as required. Hammett oversaw the development of programs to rebuild schools damaged by Hurricane Katrina ineligible for FEMA assistance. He oversaw disbursements of more than \$178 million for infrastructure projects in the state related to Hurricanes Katrina and Rita.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Hugh 'Bud' McCurdy, III, PLS Professional Land Surveyor
Project Assignment:
Project Surveyor
Name of Firm with which associated:
Bryant Hammett & Associates, LLC
Years' experience with this Firm:
5
Education: Degree(s)/Year/Specialization:
non-degreed
Active registration: Year first registered/discipline:
1991/Professional Land Surveyor, LA
Other experience and qualifications relevant to the proposed Project:
<p>Hugh 'Bud' McCurdy, III is a registered land surveyor in Louisiana with over 40 years' experience in land surveying, beginning his career as a rodman in 1973. McCurdy has worked with numerous engineering firms throughout Louisiana as a Professional Land Surveyor.</p> <p>He is involved in all aspects of boundary/property surveys for real estate transfer and the surveying required for engineering, rights-of-way acquisition, and construction projects, and is responsible for courthouse research and coordination of work. McCurdy has provided surveying services for oyster leases; pre- and post-dredging; construction projects, pipelines, accident sites, and boundary establishment. He is responsible for supervision of all field crew activities, drafting, property descriptions, plats, and all surveying-related operations.</p> <p>Mr. McCurdy has extensive experience in all aspects of surveying, including but not limited to property boundary surveys for real estate transfer; subdivision and re-subdivision of properties; topographic and hydrographic survey for engineering and construction; subdivision development including drainage, sewer, and roadway surveying, and preparation of legal descriptions for attorneys. He is registered with the Courts in Orleans, Jefferson, St. Tammany and Plaquemines Parishes.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Jeff Carey Survey Technician	
Project Assignment:	
Survey Technician, Crew Chief	
Name of Firm with which associated:	
Bryant Hammett & Associates, LLC	
Years' experience with this Firm:	
9	
Education: Degree(s)/Year/Specialization:	
BS/2009/Disaster Management	
Active registration: Year first registered/discipline:	
2010/ASFPM Certified Floodplain Manager US-10-05305 2012/Contractors License: Residential Construction 2010/ EMI-273 Managing Floodplain Development through NFIP 2012/ FEMA Substantial Damage Estimator (SDE) 1.1 2012/Certified Construction Inspector, National Stormwater Center 2019/Floodplains and FEMA/NFIP Workshop 2018/ATSSA Traffic Control Supervisor, Technician, Flagger	
Other experience and qualifications relevant to the proposed Project:	
<p>As a land surveyor for BHA, Mr. Carey manages all field work for the South Louisiana survey crews, including scheduling, budgeting, overseeing field procedures and final checking of data. He oversees the activities of multiple survey crews; conducts courthouse research and performs field calculations.</p> <p>Mr. Carey manages field work, collects data in the field and performs field-checking duties at project completion. He manages boundary and topographic surveys and all surveying activity required for civil infrastructure engineering, right-of-way and construction projects. He is involved in all aspects of land surveying projects, including legal descriptions and elevation certificates.</p> <p>Carey aids in the plot plan production for HMA programs, serves as liaison with clients, and performs elevation certificates in south LA.</p>	

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Paul Schiele CADD Technician
Project Assignment:
Draftsman
Name of Firm with which associated:
Bryant Hammett & Associates, LLC
Years' experience with this Firm:
13
Education: Degree(s)/Year/Specialization:
B. Arch/2008/Architecture
Active registration: Year first registered/discipline:
NA
Other experience and qualifications relevant to the proposed Project:
<p>Paul Shiele provides computer-aided drafting and design for all survey projects, including: drainage projects; state highway, road, and bridge projects; levee surveys; hydrographic and topographic surveys; rights-of-ways maps; accident investigation layouts; crime scene layouts; and survey plats.</p> <p>Schiele is trained in use of AutoCAD, Intellicad, Civil 3D, and Carlson computer drafting software. Mr. Schiele has served as a civil draftsman and CADD technician at BHA since graduating college in 2008. He prepares topographic drawings and maps used in major construction projects such as highways, buildings, bridges, pipelines, flood control structures, roadways, and water and sewerage systems. He provides right-of-way plats, topographic drawings (including horizontal and vertical control) and design services. Has been involved in the computer drafting of several subdivisions, sanitary sewer systems and street and drainage projects for the private sector.</p> <p>Mr. Schiele has significant experience in drafting required for drainage and flood control projects, as well as experience in drafting required for coastal restoration and creation projects</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Matthew Schirling Crew Chief
Project Assignment:
Field Crew Chief
Name of Firm with which associated:
Bryant Hammett & Associates, LLC
Years' experience with this Firm:
6
Education: Degree(s)/Year/Specialization:
non-degreed
Active registration: Year first registered/discipline:
2018/ATSSA Certified Technician Supervisor, Technician, Flagger 2014/Delgado Community College AutoCAD certification
Other experience and qualifications relevant to the proposed Project:
<p>Matt Schirling is a Field Survey Crew with 14 years of experience in land surveying. He has field experience in all aspects of land surveying, including boundary, topographic, and right-of-way, as well as an extensive background in CADD techniques. Mr. Schirling has substantial experience in boundary, utility, heavy civil, and residential contraction surveying.</p> <p>Mr. Schirling is responsible for the day-to-day operations of the field crews, the collection and delivery of accurate field data, the interpretation of data using AutoCAD, and field calculations. He maintains and calibrates all survey instruments, and reviews field notes for accuracy.</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:	
Jonathan Davis Consolidation Force Main Project Jefferson Parish, LA Brett Todd 1221 Elmwood Blvd. Ste 803 Jefferson, LA 70123	BHA performed a hydrographic, magnetometer, boundary, and utility survey for the rehabilitation and extension of a force main in Jefferson Parish, as well as all professional services required to obtain all permits required for the Jonathan Davis Force Main construction, as well as determining ownership of parcels where force main will cross Bayou Barataria and obtaining all permits required for the project (coastal use, DOTD, Sections 10, 408, 404, and pipeline crossing permits). BHA is currently providing resident inspection during the construction phase.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Dec 2021 (e)	unknown	\$225,000

PROJECT NO. 2		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Lift Station F8-5 Cleary and West Esplanade Replacement Jefferson Parish, LA Brett Todd 1221 Elmwood Blvd. Ste 803 Jefferson, LA 70123	BHA performed a topographic, utility, and cross section survey for the replacement of a lift station site located along West Esplanade Ave. between Cleary Ave. and Richland Ave. in Metairie, Louisiana. Cross sections were taken across the roadways, extending to the centerline of the adjacent drainage canal. The apparent right-of-way of the roadways were established, and all topographic features were collected.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
April 2019	unknown	\$7,460

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
5th and 9th Street Lift Station Upgrades (M-11-1) Jefferson Parish Sewer Department/Capital Projects Reda Youssef 1221 Elmwood Park Blvd, Suite 906 Jefferson, LA 70123	BHA provided engineering and construction inspection services for the design of an upgrade to a sewer lift station in Jefferson Parish, including locating all utilities, final design, preparing necessary permits, final cost estimates, coordination with utility owners.	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
June 2020	\$1MM	~\$60,000

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Ridgelake Drive Drainage Improvements Jefferson Parish Jefferson Parish Capital Projects Department 1221 Elmwood Park Blvd Harahan, LA 70123	BHA performed a topographic survey of Ridgelake Drive in Jefferson Parish to aid in future drainage improvements to the area. BHA established control points and TBMs; collected topographic features such as roadway centerline, roadway edges, fences, light standards, traffic control devices, signage, structures, curbs, inlets, vegetation, driveways, utility poles, water's edge, canal top of bank, bridges and manhole tops; collected cross section data; and collected elevation invert data for utilities.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
May 2019	unknown	\$19,700

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Marrero Wastewater Treatment Plant Headworks Building Jefferson Parish Jefferson Parish Dept. of Engineering Mark Drewes 1221 Elmwood Park Blvd Harahan, LA 70123	BHA performed a complete topographic, utility, and cross section survey for the Marrero Wastewater Treatment Plant, including locating all existing paving, structures, trees, shrubs, limits of grassed areas, fencing and all other surface features within the limits of the survey; locating all buried pipelines and connections for Gas, Sanitary Sewer, Water, Drainage, Telephone, Electrical etc. based on the information provided and as located by plant personnel; locating all sewer manholes and provide top of casting elevation, bottom of manhole elevation, and the size, direction and invert elevation of all piping connected to each sewer manhole.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
December 2017	unknown	\$11,575

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Wright Avenue Force Main Replacement Jefferson Parish Reda Youssef 1221 Elmwood Park Blvd, Suite 906 Jefferson, LA 70123	BHA performed a topographic survey in support of a force main replacement project. For approximately 2.5 miles, BHA established control points; collected topographic features such as culverts, pavements, inlets, trees, water's edge, fences, driveways, etc; collected cross section data every 100 feet and random ground shots to identify ground slopes; collected visible utility features and invert/pipe data. More detail was needed at eight areas involving canals, existing utilities, force mains, roadways, apparent encroachment, and elevation data was collected on a 20-foot grid	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
March 2018	unknown	\$75,016

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Grafton Dr. (PS 312), Breckenridge (PS 252), LaQuinta Inn/Cracker Barrel (PS 202) Sewer Lift Station Upgrades St. Tammany Parish, LA City of Slidell Engineer Blaine Clancy (985) 646-4270	BHA performed a topographic and boundary survey for the upgrade of three sewer pump station sites in Slidell, LA. The surveys obtained topographic, utility and elevation data for each site, as well as property corner information, parcel and boundary data	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
April 2019	unknown	\$23,850

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Roadway Drainage Improvements Ascension Parish Ascension Parish Government, Ron Savoy 615 E. Worthey St. Gonzales, LA 70737 (225) 450-1200	BHA provided the engineering design, including construction drawings, technical specifications, and contract documents, as well as the survey of existing conditions and the construction observation for drainage improvements along Savoy Road, Penny Street, She Lee Drive, and Riverside Estates in Ascension Parish.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
June 2019	\$120,000	\$69,500

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Belair Pumping Station Project Plaquemines Parish, LA Ken Dugas, City Engineer Plaquemines Parish Gov't Belle Chasse, LA	Plaquemines Parish requires a survey of the newly constructed pumping station in order to determine the location of existing servitudes and any encroachments onto adjacent property owners. BHA re-staked the property lines; located all topographic and utility features of the new pumping station; and prepared a boundary survey showing existing servitudes, property lines and the footprint of the old pumping station.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
September 2017	unknown	\$3500

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Jefferson Parish 2015, 2016, 2017, 2018, 2019 Hazard Mitigation Assistance Grant Funding Construction Supervision Services Jefferson Parish Floodplain Department 1221 Elmwood Park; Ste 801 Jefferson, LA 70123	Supervision and documentation for each home in the elevation or reconstruction grant; management of elevation or reconstruction on each site; audit functions; and oversight and administration of properties	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
April 2023 (e)	\$74.3MM	\$4.0MM (e)

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.	NA, BHA has no prior or on-going litigation with Jefferson Parish
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2.	
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3.	
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4.	
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N. Use this space to provide any additional information or description of resources supporting Firm's qualifications for the proposed project.

Bryant Hammett & Associates, LLC (BHA) is a Louisiana-based Limited Liability Corporation multi-disciplinary consulting land surveying, civil engineer, and disaster response consulting firm that provides services for various governmental and private concerns. BHA has been in business for over thirty years, since August 1, 1984. We have grown from a small four-member firm to operate offices in Plaquemines, Jefferson, East Baton Rouge, and Concordia parishes. All of our technical personnel have experience in the engineering and land surveying fields.

BHA is comprised of highly qualified, experienced and licensed engineers, surveyors, technicians, cost estimators, GIS managers, certified floodplain managers, administrators, disaster recovery subject matter experts, inspectors, CADD operators and clerical support. Our central locations allow us to work easily throughout Louisiana and in neighboring states.

HISTORY Bryant Hammett, PE/PLS, founded BHA in 1984. The firm began by primarily serving small, local municipalities. The team at BHA worked, and continues to work, with these clients in coordinating, permitting, identifying and addressing problems, assisting with rate structures and securing funding sources through grants and bonds. Our executive management team has been working together since 1984 and has achieved a wealth of knowledge of engineering, surveying and the governmental permitting and funding processes.

BHA is a HUBZone business certified by the U.S. Small Business Administration and is certified under the Small Entrepreneurship Program as a Hudson Initiative Certified Firm by the Louisiana Department of Economic Development.

SURVEYING

Bryant Hammett & Associates has been providing land surveying services in Louisiana for over 35 years. BHA surveyors have over 40 years of professional experience in the field. BHA offers a wide range of surveying services:

TEC Professional Services Questionnaire

The firm is a full-service land surveying firm offering a wide range of surveying services, including:
boundary and control surveys • ALTA surveys • hydrographic surveys • topographic surveys • right-of-way determination • control for photogrammetric surveys and aerial photography • establishing benchmarks • accident site surveys • wetlands delineation • construction surveys/construction layout • utility layout • pipeline surveys • elevation certificates • subdivision design and layout

Our CADD technicians have over 30 years of combined experience in producing 3D planimetric drawings, topographic and contour maps, right-of-way maps, boundary plats, cross section diagrams and field data points; BHA utilizes AutoCAD, Civil 3D, and Intellicad drafting software and DeLorme mapping software to meet the deliverable format required by any client.

Other Professional Services Provided

Civil Engineering

Construction

Management Cost

Estimating

Construction Supervision for Hazard Mitigation Grant Programs Disaster Management

CDBG Experience

Memberships:

National Society of Professional Surveyors (NSPS)

National Society of Professional Engineers (NSPE)

Louisiana Society of Professional Surveyors (LSPS)

Association of State Floodplain Managers (ASFPM)

Center for GeoInformatics,

Louisiana State University American Council of Engineering Companies (ACEC)

American Society of Civil Engineers (ASCE)

Associated General Contractors (AGC)

Council of Professional Surveyors (COPS)

Locations:

1104 Dealers Ave., Suite A Harahan, LA 70123

830 North Street, Suite B Baton Rouge, LA 70802

6885 Highway 84 West Ferriday, LA 71334

8637 Hwy 23; Suite C Belle Chasse, LA 70037

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

Signature:  **Print Name:** Bryant O. Hammett, Jr.

Title: Owner/Manager **Date:** 05/13/2021

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:		
7 Administrative _____ Architects (Licensed) _____ Chemical Engineers _____ Civil Engineers _____ Construction Inspectors _____ Ecologists _____ Electrical Engineers 4 Engineer Intern _____ Professional Land Surveyors	_____ Estimators 1 Geologists 13 Geotechnical Engineers _____ Interior Designers _____ Landscape Architects _____ Land Surveyor _____ Mechanical Engineers _____ Environmental Engineers	_____ Specification Writers _____ Structural Engineers 1 Graduate Engineers _____ Project Managers 7 Clerical _____ Grant/Funding Specialist _____ Sanitary Engineers 48 Other 81 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>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. 	
Completion Date (Actual or Estimated)	Estimated Cost:	
	Entire Project:	Work for Which Firm Was Responsible:
June 2018 (Actual)	Unknown	\$4,900

PROJECT NO. 2	
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:
<p>Cheval Point Subdivision Lift Station LA Highway 327 Baton Rouge, Louisiana Eustis Engineering Project Nos. 22953 and 23692</p> <p>Cheval Point Development, LLC Suite 3B 9191 Siegen Lane Baton Rouge, Louisiana 70810 Wesley Daniel @ 225-279-5410</p>	<p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p>

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>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>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>	
Completion Date (Actual or Estimated)	Estimated Cost:	
	Entire Project:	Work for Which Firm Was Responsible:
March 2017 (Actual)	Unknown	\$9,000

PROJECT NO. 4		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Jefferson Parish Lift Station G8-2 Tolmas Drive and West Esplanade Avenue Metairie, Louisiana Eustis Engineering Project No. 22583</p> <p>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. 	
Completion Date (Actual or Estimated)	Estimated Cost:	
	Entire Project:	Work for Which Firm Was Responsible:
August 2014 (Actual)	Unknown	\$4,100

PROJECT NO. 5		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p> City of Kenner Lift Station No. 4102 Airline Highway and Minden Avenue Jefferson Parish, Louisiana Eustis Engineering Project No. 22317 </p> <p> 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. 	
Completion Date (Actual or Estimated)	Estimated Cost:	
	Entire Project:	Work for Which Firm Was Responsible:
October 2013 (Actual)	Unknown	\$3,200

PROJECT NO. 6

Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:
<p data-bbox="142 846 633 1087">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</p> <p data-bbox="167 1125 610 1367">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</p>	<p data-bbox="695 279 1516 520">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.</p> <p data-bbox="695 562 1516 762">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.</p> <p data-bbox="695 804 1516 909">Soil mechanics laboratory tests, performed on samples obtained from the boring, were used to evaluate the physical properties of the various substrata.</p> <p data-bbox="695 951 1516 1192">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.</p> <p data-bbox="695 1234 1516 1297">Eustis Engineering also provided construction materials testing services for this project. Those services included:</p> <ul data-bbox="743 1339 1516 1875" style="list-style-type: none">• 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>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>	
Completion Date (Actual or Estimated)	Estimated Cost:	
	Entire Project:	Work for Which Firm Was Responsible:
August 2016 (Actual)	Unknown	\$7,200

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>	
Completion Date (Actual or Estimated)	Estimated Cost:	
	Entire Project:	Work for Which Firm Was Responsible:
November 2015 (Actual)	Unknown	\$62,800

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>Sewerage & Water Board of New Orleans</p> <p>Modifications to East Bank Wastewater Treatment Plant</p> <p>Construction of Monoliths 118-120</p> <p>Orleans Parish, Louisiana</p> <p>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>	
Completion Date (Actual or Estimated)	Estimated Cost:	
	Entire Project:	Work for Which Firm Was Responsible:
August 2014 (Actual)	Unknown	\$6,000

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.

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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.

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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.

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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.

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

