

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

SOQ 24-023, Resolution No. 144326
Laboratory Services as needed for Inspections of Materials and Equipment

B. Firm Name & Address:

Eustis Engineering L.L.C.
3011 28th 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	Estimators	Specification Writers
Architects (Licensed)	2 Geologists	Structural Engineers
Chemical Engineers	17 Geotechnical Engineers	3 Graduate Engineers
Civil Engineers	Interior Designers	Project Managers
Construction Inspectors	Landscape Architects	11 Clerical
Ecologists	Land Surveyor	Grant/Funding Specialist
Electrical Engineers	Mechanical Engineers	Sanitary Engineers
5 Engineer Intern	Environmental Engineers	47 Other
Professional Land Surveyors		92 TOTAL

F. Is this submittal is 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. Not applicable.

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. Not Applicable.		
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, clerical, and engineering staff. More employees can be added, as necessary, to complete any 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:

Travis R. Richards, P.E. / Senior Project Manager and Vice President (Testing)

Project Assignment:

Senior Project Manager / Limited Liability Corporation Member

Name of Firm with which Associated:

Eustis Engineering L.L.C.

Years' Experience with This Firm:

17

Education: Degree(s)/Year/Specialization:

Graduate Certificate / 2018 / Coastal Engineering

Master of Science / 2017 / Engineering

Master of Science / 2015 / Engineering Management

Bachelor of Science / 1998 / Geotechnical & Structural Engineering

Active Registration: Year First Registered/Discipline:

Louisiana: 2004 / Civil Engineering

Alabama: 2017 / Engineering

Florida: 2016 / Engineering

Texas: 2016 / Civil Engineering

Other Experience and Qualifications Relevant to the Proposed Project:

Mr. Richards' experience in the field of civil and geotechnical engineering includes responsibility for the technical and supervisory functions of planning, permitting, design, exploration, construction materials testing, and project management. He has been involved in a variety of project assignments including residential, commercial, and municipal clientele practicing in the fields of land development and geotechnical engineering. In addition, he is experienced in the geotechnical design and construction quality control of foundations for industrial, levee, and heavy civil construction projects.

Mr. Richards began with Eustis Engineering as Staff Engineer in 1999. Mr. Richards' experience includes all phases of geotechnical engineering practice with particular emphasis in planning field exploration programs, supervision of soil mechanics laboratory testing, engineering analyses, and report presentation. He is proficient with analyses that include allowable soil bearing values, pile load capacities, slope stability, settlement estimates, pavement designs, and other analyses pertinent to the preparation of geotechnical reports. An understanding of these analyses also assists with the review of plans, specifications, and contractor submittals associated with the construction of these features.

In addition to geotechnical engineering, Mr. Richards has experience with management of construction materials testing, and in-situ instrumentation while working for Universal Engineering Sciences, LLC, Louisiana Transportation Research Center, and Eustis Engineering. Mr. Richards has been the engineer in responsible charge of construction materials testing/construction quality control departments on projects such as 2,000-home residential developments, major FDOT transportation projects, and several large-scale projects for the Everglades Restoration Program in association with the U.S. Army Corps of Engineers. His current principal focus is the oversight and quality control of Eustis Engineering's construction materials testing services at the organizational level. This includes the day-to-day involvement with operational components in all branches, technical liaison to branch managers, management of internal quality control resources, and planning of construction materials testing capabilities and services.

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:

Travis R. Richards, P.E. / Senior Project Manager and Vice President (Testing)

Mr. Richards began his geotechnical engineering career installing and monitoring strain gauge instrumentation on various construction components including geotextiles, concrete, corrugated pipe, and carbon fiber reinforcements for various entities including the State of Louisiana Department of Transportation and Development. He continues to oversee the instrumentation services provided by Eustis Engineering which include the installation and monitoring of slope inclinometers, settlement plates, settlement gauges, piezometers, strain gauges, and SAA inclinometers. He has recently upgraded the delivery of data monitoring services through the use of data logger systems and near real-time remote sensing equipment.

Mr. Richards currently provides oversight of the in-house testing and development of instrumentation for marsh creation and coastal restoration projects. This includes the supervision of our settling column and self-weight consolidation testing.

Some of his experience relative to this submittal includes the following:

- **State of Louisiana** – Department of Transportation and Development, Ames Boulevard Between the West Bank Expressway and Happy Street, Jefferson Parish, Louisiana, Eustis Engineering Project No. 24631
- **Ochsner Health System** – New Medical Office Building and Ambulatory Surgery Center, 4436 Veterans Memorial Boulevard, Metairie, Louisiana, Eustis Engineering Project No. 24567.00, .01
- **Jefferson Parish Public School System** – Covered Playground Structures, Multiple School Sites, Jefferson Parish, Louisiana, Eustis Engineering Project Nos. 25268, 25269, 25270
- **Jefferson Parish** – Cleary Avenue Improvements, Veterans Boulevard to West Esplanade Avenue, Jefferson Parish, Louisiana, Eustis Engineering Project No. 24137

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Brian A. Deschamp, P.E. / Construction Phase Services Manager / Branch Manager	
Project Assignment:	
Construction Phase Services Manager / Supervisor – Engineer (P.E.)	
Name of Firm with which Associated:	
Eustis Engineering L.L.C.	
Years' Experience with This Firm:	
12	
Education: Degree(s)/Year/Specialization:	
Bachelor of Science / 2011 / Civil and Environmental Engineering Bachelor of Business Administration / 2006 / Real Estate and Mortgage Financing	
Active Registration: Year First Registered/Discipline:	
Louisiana: 2020 / Civil Engineering Mississippi: 2016 / Engineering	
Other Experience and Qualifications Relevant to the Proposed Project:	
<p>Mr. Deschamp began his career with Eustis Engineering L.L.C. as an Assistant Project Engineer in January 2012. He passed the P.E. exam in 2016 taking on the role of Project Engineer, Project Manager, and Gulfport Branch Manager. His duties as a project manager include the performance of various geotechnical engineering analyses and preparation of draft letters and reports. Analyses performed by Mr. Deschamp include allowable soil bearing values, allowable load capacity estimates for various types of piles, settlement analyses, pavement designs, seismic site response analyses, and liquefaction potential. As a branch manager, his duties also include coordination of field personnel, layout of boring and cone penetrometer locations, and performance of Louisiana/Mississippi One Calls. In addition to the engineering analyses previously mentioned, Mr. Deschamp is familiar with lateral pile load analyses (using LPILE® software by Ensoft, Inc.), effects of drag loads on settlement, and slope stability analyses using the Lower Mississippi Valley Division's Method of Planes and Spencer's Method of Slices.</p> <p>Mr. Deschamp's laboratory responsibilities have also grown to include the performance and supervision of laboratory testing of soils, concrete, and aggregate. He is certified by the American Concrete Institute (ACI) in Laboratory Testing, Aggregate Testing, and Concrete Field Testing.</p> <p>In the field, he performs inspection of soils, concrete, steel, masonry, and other materials as required of a Special Inspector in accordance with the International Building Code. He has also retrieved and tested samples during geotechnical explorations to provide classification.</p> <p>His field engineering capabilities have expanded to include surveying, reading crack monitors, performing/processing crosshole sonic logging, pile integrity testing, dynamic pile testing, dynamic cone penetration testing, and Thermal Integrity Profiler™ testing.</p> <p>Mr. Deschamp has provided geotechnical and materials testing services for the cities of Bay St. Louis, Biloxi, Waveland, Gulfport, and Slidell as well as the Mississippi State Port Authority. These municipal projects have involved drainage, streets, sidewalks, sewers, lighting, and a lighthouse. Mr. Deschamp was recently promoted to oversee Construction Phase Services for all Eustis Engineering offices. He routinely travels to our Metairie office in this capacity and to job sites across our service area as needed to coordinate these efforts.</p> <p>Mr. Deschamp has been directly involved with the following projects contained in this submittal.</p>	

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Brian A. Deschamp, P.E. / Construction Phase Services Manager / Branch Manager
<ul style="list-style-type: none">• Jefferson Parish – Power Boulevard Median Improvements, West Esplanade Avenue to Vintage Drive, Kenner, Louisiana, Eustis Engineering Project No. 25176• Jefferson Parish Public School System – Covered Playground Structures, Multiple School Sites, Jefferson Parish, Louisiana, Eustis Engineering Project Nos. 25268, 25269, 25270

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Bryan E. Byrne / Senior CMT Technician
Project Assignment:
Senior CMT Technician
Name of Firm with which Associated:
Eustis Engineering L.L.C.
Years' Experience with This Firm:
23
Education: Degree(s)/Year/Specialization:
Associate degree / 1999 / Electrical – Electronics Engineering Technology
Active Registration: Year First Registered/Discipline:
N/A
Other Experience and Qualifications Relevant to the Proposed Project:
<p>Mr. Byrne was originally hired by Eustis Engineering L.L.C. to assist with vibration monitoring on SELA drainage projects in Orleans and Jefferson Parishes. This required Mr. Byrne to monitor, record, and furnish a daily report to the U.S. Army Corps of Engineers' (USACE) representative. He then notified the USACE's representatives when vibration and/or acoustical levels exceeded certain levels. Since then, Mr. Byrne has developed skills to assist the various departments of Eustis Engineering. Mr. Byrne has worked with our drill crews as a helper/wrenchman. In the laboratory, he has learned how to visually classify subsoils. He also performs soil mechanics laboratory tests such as Atterberg limits determinations, unconfined compression shear, and direct simple shear tests.</p> <p>Mr. Byrne possesses the following accreditations and certifications: American Concrete Institute: Concrete Field Testing Technician, Grade I; American Concrete Institute: Concrete Construction Special Inspector; HAZMAT Certification, 49 CFR 172, Subpart H, Nuclear Gauges; Greater New Orleans Industrial Education Council; Transportation Worker Identification Credential (TWIC); Gulf Coast Safety Council; First Aid and CPR Training; and U.S. Department of Labor, Mine Safety and Health Administration.</p> <p>In the materials testing department, Mr. Byrne is well versed in providing services in the following areas.</p> <div style="display: flex; flex-wrap: wrap;"> <ul style="list-style-type: none"> Acoustical and vibration monitoring Asphalt field inspection Augercast pile inspection Concrete inspection both in the field and at the plant Concrete compression testing in the laboratory Coring of asphalt and concrete Concrete temperature and humidity tests Crack monitor monitoring Density testing, both nuclear and sand cone methods Drilled shaft inspection Wick drain installation observations Transportation Worker Identification Credential (TWIC) <ul style="list-style-type: none"> Floor flatness testing Helical pile inspection Masonry inspection Pile logging and pile load tests Pulverization testing Rebar inspection Reinforcing steel inspection Roofing inspection Schmidt Impact Hammer testing Shotcrete inspection Site inspection </div>

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Bryan E. Byrne / Senior CMT Technician
<p>Projects reflecting Mr. Byrne’s experience comparable to this request include the following projects:</p> <ul style="list-style-type: none">• Ochsner Health System – New Medical Office Building and Ambulatory Surgery Center, 4436 Veterans Memorial Boulevard, Metairie, Louisiana, Eustis Engineering Project No. 24567.00, .01• City of Kenner – Power Boulevard Median Improvements, West Esplanade to Vintage Drive, Kenner, Louisiana, Eustis Engineering Project No. 25176• East Jefferson Levee District – Foreshore Repair Pilot Project, Reaches 1 and 3, East Jefferson Parish, Louisiana, Eustis Engineering Project No. 24340• Jefferson Parish – Maplewood Drive and Paillet Street, Drainage Improvements, Jefferson Parish, Louisiana, Eustis Engineering Project No. 22942• Magnolia Community Services, Inc. – Test Pile Program, New School, 748 Jefferson Heights Avenue, Jefferson Parish, Louisiana, Eustis Engineering Project Nos. 24055.00-.02• Jefferson Parish – Cleary Avenue Improvements, Veterans Boulevard to West Esplanade Avenue, Jefferson Parish, Louisiana, Eustis Engineering Project No. 24137

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:																	
Name & Title:																	
Chad M. Ortolano / Senior CMT Technician																	
Project Assignment:																	
Senior CMT Technician																	
Name of Firm with which Associated:																	
Eustis Engineering L.L.C.																	
Years' Experience with This Firm:																	
10																	
Education: Degree(s)/Year/Specialization:																	
High School Equivalency / 2007 / General Education																	
Active Registration: Year First Registered/Discipline:																	
N/A																	
Other Experience and Qualifications Relevant to the Proposed Project:																	
<div style="color: #c00000; font-weight: bold; margin-bottom: 10px;">Accreditations / Affiliations / Certifications</div> <div style="margin-bottom: 10px;">Alliance Safety Council American Concrete Institute: Concrete Field Testing Technician, Grade I American Traffic Safety Service Association: Traffic Control Supervisor Gulf Coast Safety Council HAZMAT Certification, 49 CFR 172, Subpart H, Nuclear Gauges National Institute for Certification in Engineering Technologies (NICET) Certification No. 145364: Level II: Construction Materials Testing, Asphalt Level II: Construction Materials Testing, Soils Level II: Construction Materials Testing, Concrete Transportation Worker Identification Credential (TWIC)</div> <p>After working with other construction materials firms in the New Orleans area for over eight years, Mr. Ortolano joined Eustis Engineering's staff in 2013. Since that time, he has developed the expertise to provide a wide variety of CMT inspection services including the following:</p> <table style="width: 100%; border: none;"><tbody><tr><td style="width: 50%; vertical-align: top;">Acoustical and vibration monitoring</td><td style="width: 50%; vertical-align: top;">Concrete inspection at the plant and in the field</td></tr><tr><td style="vertical-align: top;">Asphalt inspection in the field</td><td style="vertical-align: top;">Asphalt and concrete coring operations</td></tr><tr><td style="vertical-align: top;">Augercast pile inspection</td><td style="vertical-align: top;">In-place density tests, both nuclear and sand cone methods</td></tr><tr><td style="vertical-align: top;">Drilled shaft inspection</td><td style="vertical-align: top;">Fireproofing inspection</td></tr><tr><td style="vertical-align: top;">Helical pile inspection</td><td style="vertical-align: top;">Pile logging and pile load tests</td></tr><tr><td style="vertical-align: top;">Precast/prestressed concrete inspection</td><td style="vertical-align: top;">Proofrolling inspection</td></tr><tr><td style="vertical-align: top;">Rebar inspection</td><td style="vertical-align: top;">Site inspection</td></tr><tr><td style="vertical-align: top;">Thermal Integrity Profiler (TIP) testing</td><td></td></tr></tbody></table> <p>Mr. Ortolano has become an asset to Eustis Engineering's staff developing additional skills beyond those required as part of his CMT duties. Those skills include Amoozemeter infiltration tests, dynamic cone penetrometer tests, and soil sample collection and identification.</p>		Acoustical and vibration monitoring	Concrete inspection at the plant and in the field	Asphalt inspection in the field	Asphalt and concrete coring operations	Augercast pile inspection	In-place density tests, both nuclear and sand cone methods	Drilled shaft inspection	Fireproofing inspection	Helical pile inspection	Pile logging and pile load tests	Precast/prestressed concrete inspection	Proofrolling inspection	Rebar inspection	Site inspection	Thermal Integrity Profiler (TIP) testing	
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Thermal Integrity Profiler (TIP) testing																	

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Chad M. Ortolano / Senior CMT Technician
Projects Mr. Ortolano has worked on in relation to this submittal include: <ul style="list-style-type: none">• Ochsner Health System – New Medical Office Building and Ambulatory Surgery Center, 4436 Veterans Memorial Boulevard, Metairie, Louisiana, Eustis Engineering Project No. 24567.00, .01• East Jefferson Levee District – Foreshore Repair Pilot Project, Reaches 1 and 3, East Jefferson Parish, Louisiana, Eustis Engineering Project No. 24340• Jefferson Parish – Maplewood Drive and Paillet Street, Drainage Improvements, Jefferson Parish, Louisiana, Eustis Engineering Project No. 22942• Southeast Louisiana Flood Protection Authority East – East Jefferson Levee District, Gabrielle Subdivision Runoff Control Piping Near the Duncan Canal Pump Station, Kenner, Louisiana, Eustis Engineering Project Nos. 22537, 23474, 24245• Jefferson Parish – Cleary Avenue Improvements, Veterans Boulevard to West Esplanade Avenue, Jefferson Parish, Louisiana, Eustis Engineering Project No. 24137

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Ryan A. Rodrigue / Laboratory Manager
Project Assignment:
Laboratory Manager Technician
Name of Firm with which Associated:
Eustis Engineering L.L.C.
Years' Experience with This Firm:
21
Education: Degree(s)/Year/Specialization:
High School Diploma / 1998 / General Studies
Active Registration: Year First Registered/Discipline:
N/A
Other Experience and Qualifications Relevant to the Proposed Project:
<p>Accreditations / Affiliations / Certifications</p> <p>American Concrete Institute (ACI) Concrete Strength Testing Technician Concrete Laboratory Testing Technician, Level 1 Aggregate Testing Technician, Level 1 Aggregate Base Testing Technician National Institute for Certification in Engineering Technologies (NICET), Certification No. 111500: Level II: Construction Materials Testing, Soils Level IV: Geotechnical Engineering Technology</p> <p>Professional Experience</p> <p>After working in our soils' laboratory for approximately 11 years, Mr. Rodrigue was promoted to the position of Assistant Laboratory Manager, and he became Laboratory Manager in 2018. In this role, Mr. Rodrigue ensures all samples coming into our laboratory are processed the moment they are received. He coordinates and organizes multiple ongoing projects to ensure the project and the client's deadlines are met. He also oversees the development and training of laboratory technicians.</p> <p>To accomplish the above tasks, Mr. Rodrigue assesses, oversees, and coordinates all current and upcoming workloads. He directs and provides support to the laboratory staff to ensure all tasks are completed in an efficient manner without compromising quality. He also ensures the quality of the finished product. He works with both the Engineering and Construction Materials Testing departments to deliver the final product to the client within the required timeframes. This includes checking and reporting laboratory data for these departments.</p> <p>Mr. Rodrigue is responsible for training and developing the laboratory staff's skills to meet the industrial demands and standards required by ASTM, AASHTO, the U.S. Army Corps of Engineers, the Louisiana Department of Transportation and Development, and other governing agencies who regulate quality control and assurance guidelines. As part of his duties, Mr. Rodrigue must interpret, implement, and ensure guidelines are met daily.</p>

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Ryan A. Rodrigue / Laboratory Manager

In addition to the above, Mr. Rodrigue implements and adheres to our corporation's quality system program. He controls expenditures within the limits of the laboratory budget. He identifies staffing requirements and coordinates that staffing with upper management and human resources. He assists with the selection of new equipment. He also reviews and approves employee and subcontractor timesheets.

Some of Mr. Rodrigue's experience relative to this submittal includes the following:

- **Ochsner Health System** – New Medical Office Building and Ambulatory Surgery Center, 4436 Veterans Memorial Boulevard, Metairie, Louisiana, Eustis Engineering Project No. 24567.00, .01
- **Jefferson Parish** – Maplewood Drive and Pallet Street, Drainage Improvements, Jefferson Parish, Louisiana, Eustis Engineering Project No. 22942
- **Magnolia Community Services, Inc.** – Test Pile Program, New School, 748 Jefferson Heights Avenue, Jefferson Parish, Louisiana, Eustis Engineering Project Nos. 24055.00-.02
- **U.S. Coast Guard** – Concrete Testing Services, Grand Isle Station Repair Boathouse and Waterfront, 453 Admiral Craik Drive, Grand Isle, Louisiana
- **Jefferson Parish** – Cleary Avenue Improvements, Veterans Boulevard to West Esplanade Avenue, Jefferson Parish, Louisiana

Testing Skills

- Atterberg limits determinations
- CBR of laboratory-compacted soil
- Column settling test
- Compaction test, standard and modified
- Consolidated undrained triaxial test
- Consolidated undrained triaxial test with pore pressure measurements
- Consolidation test
- Direct shear test
- Direct simple shear
- Direct simple shear (cyclic)
- Expansion index of soils
- Hydrometer
- Miniature vane shear test
- Moisture content of soil and rock
- One-dimensional swell
- Organic content
- Percent finer than No. 200 sieve
- Permeability, flexible and rigid wall
- pH of soils
- Pocket penetrometer
- Relative density
- Soil resistivity
- Specific gravity of soil, sand, and rock
- Torvane
- Turbidity
- Unconfined compression shear
- Unconsolidated undrained triaxial compression shear
- Unit weight
- Visual classification of soils
- Self-weight consolidation
- Lime stabilization
- Soil cement

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Bryan M. Connelly / Director of Welding Inspection and NDT
Project Assignment:
Director of Welding and Inspection / Supervisor - Other
Name of Firm with which Associated:
Eustis Engineering L.L.C.
Years' Experience with This Firm:
4
Education: Degree(s)/Year/Specialization:
Associate of Applied Science / 2009 / Welding Engineering Technology
Active Registration: Year First Registered/Discipline:
N/A
Other Experience and Qualifications Relevant to the Proposed Project:
<p>Accreditations / Affiliations / Certifications</p> <p>American Welding Society:</p> <ul style="list-style-type: none">• Chairman, AWS Subcommittee on Stainless Steel (2018 to Present)• Member, AWS D1.X Executive Committee• Member, AWS D1 Committee on Structural Steel• Certified Welding Inspector No. 09100661 <p>American Society for Nondestructive Testing, Training and Career Certifications:</p> <ul style="list-style-type: none">• Magnetic Particle Inspection, Level II• Dye Penetrate Testing, Level II• Industrial Radiation Safety (Louisiana), Level I• Ultrasonic Flaw Detection, Pending <p>Association of Reciprocal Safety Councils Training:</p> <ul style="list-style-type: none">• Basic Safety Training (Eight-Hour) OSHA Certification Course• Valero Site Specific Safety Training• Confined Space Safety Training and Certification• Murphy Oil (Valero) Site Orientation Safety Training• Cornerstone Chemical Company Site Specific Safety Training• Dow Chemical Basic Site Safety Training• Dow Chemical SCO Isolation of Energy Training• Valero – St. Charles Site Specific Safety Training• NASA – Stennis Site Specific Rocket Test Stand Safety Training <p>Transportation Worker Identification Credential</p> <p>DISA Global Solutions Member (National Program for Background Screens, Drug and Alcohol Testing)</p>

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Bryan M. Connelly / Director of Welding Inspection and NDT

Others:

- Certification in Advanced Pipefitting Specialization and Pipe Welding
- Certification in ASME IX, 6G Certified Pipe Welding Qualification (Fluor Daniels)
- Aerial Equipment Operation Safety Training
- Offshore Training and Safety (Shell Oil and Pipeline Services)
- Offshore Helicopter Crush Survival Training (Petrofac Training HSE 0039 Water Survival / HUET)
- Safe Gulf Training (Shell Offshore, Apache Offshore, Back Injury, Benzene Awareness, HAZCOM, Lockout/Tagout)

Professional Experience

After having worked for Eustis Engineering L.L.C. as a Subconsultant for numerous years, Mr. Connelly finally joined our staff when offered the position of Director of Welding Inspection and Non-Destructive Testing. In this unique role, Mr. Connelly is responsible for the management and implementation of welding and steel special inspections in accordance with the International Building Code. Thus far in this position, Mr. Connelly has performed quality assurance testing for the U.S. Army Corps of Engineers (USACE), bolt testing in accordance with AISC A360 RCSC; and anchor bolt-up structural steel inspection and related testing. This includes bolt testing using a Skidmoore-Wilhelm machine.

Prior to joining Eustis Engineering's team, Mr. Connelly worked as a Computerized Numerical Control Machine Operator and Welder for three years with a machine company; a Lead Structural Steel and Certified Welding Inspector for two years with another testing laboratory; and as a Senior Field Project Manager for a welding specialist company for eight years.

As the Lead Structural Steel and Certified Welding Inspector, Mr. Connelly was responsible for project management and scheduling all inspections directly with the client for the steel inspection division of the firm. He performed field inspection for the USACE, provided second party inspection for a local steel erection company (in the field and fabrication shop), and he did quarterly training and testing of welding students at a local college. While in this position, Mr. Connelly also underwent training for AISC inspection of high strength bolts and structural steel fireproofing.

While working as the Senior Field Project Manager, Mr. Connelly was responsible for project management of the nondestructive testing projects, adhering to project specifications and codes, and scheduling inspections and technicians. He became even more involved in the USACE's quality control practices, performed offshore welding inspection for the oil and gas industry, and performed vendor and fabrication shop inspection and audits. Mr. Connelly underwent training for AISC and RCSC bolt testing, performed ground up structural inspection and related testing, and conducted welder testing and procedural qualifications for various companies and organizations.

As a Certified Welding Inspector (providing both quality assurance and quality control), Mr. Connelly has worked on such projects the following project contained within this submittal:

- **Ochsner Health System** – New Medical Office Building and Ambulatory Surgery Center, 4436 Veterans Memorial Boulevard, Metairie, Louisiana, Eustis Engineering Project No. 24567.00, .01

PROJECT NO. 01		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>State of Louisiana Department of Transportation and Development Ames Boulevard between the West Bank Expressway and Happy Street Jefferson Parish, Louisiana Eustis Engineering Project No. 24631</p> <p>Contact Information: State of Louisiana Through Design Engineering, Inc. Suite 205 3330 West Esplanade Avenue Metairie, Louisiana 70002 Jeff Monfrey @ 504-836-2155</p>	<p>This project involved renovations and upgrades to a section of the roadway pavement along Ames Boulevard between the West Bank Expressway and Happy Street in Jefferson Parish.</p> <p>Eustis Engineering was brought in to provide construction materials testing and inspection services during the laying of asphalt and concrete for this project; specifically asphalt base course, asphalt binder course, asphalt wearing course, asphalt incidental mix, and Portland cement concrete types B and M.</p> <p>Eustis Engineering's specific duties included molding concrete cylinders, testing asphalt courses, performing inspections, and generally providing quality control oversight to ensure materials and processes conformed to manufacturer's specifications, the Job Mix Formula (JMF), and the LaDOTD's criteria.</p> <p>Our field inspectors logged over 50 hours on site for these services. Daily reports were reviewed for quality control by our engineering staff and issued through our online client portal in MetaField.</p>	
Completion Date (Actual or Estimated)	Estimated Cost:	
	Entire Project:	Work for Which Firm Was Responsible:
08/2021 (A)	Unknown	\$3,500

PROJECT NO. 02		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Ochsner Health System New Medical Office Building and Ambulatory Surgery Center 4436 Veterans Memorial Boulevard Metairie, Louisiana Eustis Engineering Project Nos. 24567 and 24567.01</p> <p>Contact Information: Ochsner Health Systems Through Grace Hebert Curtis Architects, APAC 650 Poydras Street Suite 1110 New Orleans, Louisiana 70130 Joe Crowley @ 504-588-2161</p>	<p>Ochsner Health Systems' proposed new medical office building and ambulatory surgery was a three-story structure of approximately 190,000 square feet.</p> <p>Existing structures were demolished before initiating the new construction, and Eustis Engineering provided vibration monitoring services during the demolition. We also provided an in-house Certified Welding Inspector to visit the fabrication shop to confirm welding processes were in compliance with AWS D1.1-2020 and ASME and the provided project documents.</p> <p>For the construction phase of the project, we provided a wide array of construction materials testing services. This included earthwork sampling, testing, and inspection, including inplace nuclear density testing as well as laboratory testing of samples comprising compaction of sand, wash on the No. 200 sieve, organic soils tests, and Atterberg liquid and plastic limits determinations.</p> <p>We visually inspected treated timber piling of various lengths to ensure they conform to project specifications in addition to measuring for treatment by the assay method. We also performed pile logging as well as associated vibration monitoring during these activities.</p> <p>We performed a review of the concrete design and our ACI certified technicians performed concrete inspection, sampling, and testing. This involved recording each mix design used at the project site as well as the amount of water or additives added to the mixes, performing slump tests, determining the air content for each sample, sampling the concrete at intervals stated in the plans, and performing compression testing on collected specimens at intervals of 7 and 28 days.</p> <p>Additional construction materials testing services Eustis Engineering is providing for this project include inspection and relative humidity testing of flooring; compressive strength testing of grout; inspection and density testing of sprayed fireproofing; and finally, special inspection services of welding, high strength bolts, and structural steel erections.</p>	
Completion Date (Actual or Estimated)	Estimated Cost:	
	Entire Project:	Work for Which Firm Was Responsible:
10/2022 (A)	Unknown	\$60,900

PROJECT NO. 03		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>City of Kenner Power Boulevard Median Improvements West Esplanade Avenue to Vintage Drive Kenner, Louisiana Eustis Engineering Project No. 25176</p> <p>Contact Information: City of Kenner Through Design Engineering, Inc. 3330 West Esplanade Avenue, Suite 205 Metairie, Louisiana 70002 Brett Liuzza, P.E. @ 504-836-2155</p>	<p>The City of Kenner planned for improvements to the Power Boulevard Median, located from its intersection with West Esplanade Avenue to the bridge at Vintage Drive. This improvement effort is set to include a multi-use pedestrian concrete path, subsurface drainage, and a pedestrian bridge. Design Engineering, Inc. (DEI), asked Eustis Engineering L.L.C. to perform material sampling, soil testing in the field, concrete inspection and cylinder pickup, and submittal reviews.</p> <p>In November 2023 through February 2024 and again in July 2024, Eustis Engineering performed in-place nuclear density testing of materials supplied by the contractor to be utilized for utility pipe bedding, bikepath and roadway base course, and backfill. Relative density tests were performed in our Metairie laboratory to assess the gravel bedding. For the sand fills, the contractor supplied density test results that were performed in accordance with DOTD TR 418, Methods A and G per the project specifications.</p> <p>In April 2024, Eustis Engineering performed dynamic pile tests (DPTs) on two monitor piles for the subject project at the request of DEI. The scope of service included the performance of DPTs during initial installation (end-of drive, EOD) and restrike DPTs on Pile Nos. 1A and 2H, as well as signal matching CAPWAP® analyses on a select blow from each DPT. Each DPT was performed using Eustis Engineering's Pile Driving Analyzer®(PDA).</p> <p>The tested piles included two 55-ft long, 14-in. square, precast concrete piles, installed vertically with an ICE® I-19 hammer. The DPTs were performed to evaluate each pile's ultimate compressive capacity at the time of testing. The piles were monitored while being driven between 6 and 10 inches for the restrikes.</p> <p>For the DPTs performed on the piles, two sets of PDA instruments were attached to opposite sides of each pile, approximately 2.5 to 3.0 feet below the pile butts. Each set of gauges consists of a strain transducer and an accelerometer. The PDA can monitor a wide variety of quantities during pile driving. Evaluations derived from these DPTs include installation efficiency, pile integrity, driving stresses, static load capacity, and ultimate capacity.</p> <p>Eustis Engineering has also begun concrete inspection and sampling. Vibration monitoring is also being performed as required for the project. Reporting is being controlled through the online MetaField portal for prompt distribution to all stakeholders.</p>	
Completion Date (Actual or Estimated)	Estimated Cost:	
	Entire Project:	Work for Which Firm Was Responsible:
09/2024 (E)	Unknown	\$30,700 (To date)

PROJECT NO. 04		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>South Louisiana Flood Protection Authority - East East Jefferson Levee District Foreshore Repair Pilot Project Reaches 1 and 3 East Jefferson Parish, Louisiana Eustis Engineering Project No. 24340</p> <p>Contact Information: South Louisiana Flood Protection Authority - East 6521 Spanish Fort Boulevard New Orleans, Louisiana 70126 Donald Jerolleman Jr, P.E. @ 504-355-4100</p>	<p>Eustis Engineering was selected to provide the construction materials testing and inspection services for Reaches 1 and 3 of the East Jefferson Levee District's Foreshore Repair Pilot Project. These projects included installing different erosion control materials to evaluate the effectiveness of various erosion control mitigation schemes.</p> <p>A qualified technician (HAZMAT Certification, 49 CFR 172, Subpart H, Nuclear gauges) was provided by Eustis Engineering. This technician observed proofrolling operations, obtained representative samples of materials intended for use on the project, performed in place nuclear density tests on the same materials throughout the day, and determined if the materials in the field were properly compacted and in compliance with the project plans and specifications.</p> <p>Laboratory testing on collected samples consisted of standard Proctor compaction tests of clay fill, pH of soils, grain size sieve analysis, Atterberg liquid and plastic limits determinations, and organic content of the sampled fill materials.</p>	
Completion Date (Actual or Estimated)	Estimated Cost:	
	Entire Project:	Work for Which Firm Was Responsible:
05/2020 (A)	Unknown	\$2,400

PROJECT NO. 05		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Jefferson Parish Maplewood Drive and Paillet Street Drainage Improvements Jefferson Parish, Louisiana Eustis Engineering Project No. 22942</p> <p>Contact Information: Jefferson Parish Through Burk-Kleinpeter, Inc. 4176 Canal Street New Orleans, Louisiana 70119 Henry M. Picard, III, P.E. @ 504-486-5901</p>	<p>After completing the geotechnical exploration and design for the project in 2011, Eustis Engineering was asked to provide construction materials testing services associated with the Maplewood Drive and Paillet Street drainage improvements project in Harvey, Louisiana. The project's general scope included the installation of subsurface drainage and street resurfacing along Maplewood Drive and the surrounding area. Our services included:</p> <ul style="list-style-type: none"> the performance of soil mechanics laboratory tests on various materials to be used for bedding, backfill, and roadway base materials to confirm their classifications comply with project specifications and to develop moisture-density curves to be used as the basis of the field tests; in-place density tests on these same materials to determine their compaction complied with the project specifications; inspection of the placement of concrete for slope paving, junction boxes, roadway paving, and various foundations; more than 80 sets of concrete cylinders were subjected to compressive strength testing at 7 days and 28 days; the inspection of more than 1,300 tons of asphalt both at the plant and in the field along with asphalt coring after placement; and vibration monitoring services during construction. <p>Our technicians recorded more than 8,200 hours for the project. Our engineers reviewed daily reports for compliance with our quality control manual and program.</p>	
Completion Date (Actual or Estimated)	Estimated Cost:	
	Entire Project:	Work for Which Firm Was Responsible:
11/2017 (A)	Unknown	\$363,600

PROJECT NO. 06		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Southeast Louisiana Flood Protection Authority - East East Jefferson Levee District Gabrielle Subdivision Runoff Control Piping Near the Duncan Canal Pump Station Kenner, Louisiana Eustis Engineering Project Nos. 22537, 23474, and 24245</p> <p>Contact Information: Southeast Louisiana Flood Protection Authority – East 6001 Stars and Stripes Boulevard Suite 225 New Orleans, Louisiana 70126 Chris Humphreys @ 504-262-8922</p>	<p>This project began with proposed pipeline rerouting at Pump Station No. 4, near Duncan Canal Pump Station, in Kenner, Louisiana. Eustis Engineering L.L.C. used existing geotechnical data obtained from previous projects at the site to perform global stability analyses to evaluate the existing hurricane protection levee and floodwall during and after construction of the proposed pipeline. Slope stability analyses for the proposed trench/excavation for the installation of the pipe followed the criteria provided in the U.S. Army Corps of Engineers' (USACE) Hurricane and Storm Damage Risk Reduction System Design Guidelines and were performed using the Spencer's Method of Slices coded within SLOPE/W. Slope stability analyses were performed for the T-wall and proposed protected side excavation for pipeline installation. We also computed Lane's Weighted Creep Ratio to evaluate piping potential into the excavation as the result of seepage during a high-water event. These analyses were all necessary to establish that the construction could proceed without effecting the existing flood protection so that a construction permit could be issued.</p> <p>Using data obtained from these calculations, we provided construction recommendations for the contractor's use on the project to be implemented in submittals that would be reviewed by Eustis Engineering.</p> <p>Fleming Construction Company, L.L.C., was contracted to install a 40-in. PVC drainage pipe in the proposed excavation. They provided construction drawings delineating the configuration of a Temporary Retaining Structure (TRS). In order to ensure the contractor's TRS design met the requirements of the construction permit, including review by the USACE, Eustis Engineering was retained to evaluate these drawings and provide comments. Subsequently, we provided clarification, revised calculations to accommodate plan changes, and responded to further queries and comments as needed.</p> <p>When this review process was completed and construction commenced, Eustis Engineering provided additional geotechnical services on this project, sampling earthwork and subjecting the samples to laboratory testing including compaction, Atterberg liquid and plastic limits testing, and the percent passing the No. 200 sieve. We also evaluated the results of monitoring operations performed by the contractor to confirm the TRS was behaving as predicted and within permit requirements.</p>	
Completion Date (Actual or Estimated)	Estimated Cost:	
	Entire Project:	Work for Which Firm Was Responsible:
05/2020 (A)	Unknown	\$32,200

PROJECT NO. 07	
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:
<p>Magnolia Community Services, Inc. Subsurface Exploration, Test Pile Program and Construction Materials Testing for New School 748 Jefferson Heights Avenue Jefferson Parish, Louisiana Eustis Engineering Project Nos. 24055.00-.02</p> <p>Contact Information: Magnolia Community Services, Inc. 100 Central Avenue Jefferson, Louisiana 70121 Jennifer Hebert @ 504-733-2874</p>	<p>Magnolia School planned the construction of three lightly-loaded, one-story buildings, totaling approximately 14,000 square feet with proposed slab-on-grade foundations. They also planned to create two new parking lots.</p> <p>Eustis Engineering drilled three undisturbed sample type soil test borings to a depth of 40 feet each and two auger borings to depths of 8 feet. Soil mechanics laboratory tests performed on samples from the borings included natural water content, unit weight, unconfined compression shear, unconsolidated undrained triaxial compression shear, and Atterberg liquid and plastic limits determinations.</p> <p>Eustis Engineering provided a seismic Site Classification for the site, fill material and compaction recommendations, fill settlement estimates, and recommendations of site preparation and drainage.</p> <p>For shallow foundations, we calculated settlement estimates and allowable soil bearing values. These were used to inform our recommendations for foundation materials and footing depths.</p> <p>For deep foundations, we recommended timber piles and provided associated settlement estimates, pile load capacities, and hammer type and setting parameters.</p> <p>With regard to the parking lots, Eustis Engineering provided component and thickness recommendations for both rigid and flexible pavements in accordance with the <u>AASHTO Guide for Design of Pavement Structures</u>.</p> <p>Based on subsequent changes to proposed fill heights for the project, we later performed one cone penetration test to a depth of 80 feet in order to identify the Holocene/Pleistocene interface and provided a supplemental engineering report analyzing allowable load capacities for deeper pile embedments, estimates of lateral earthen coefficients for retaining walls, ground surface settlement due to fill placement, and evaluation of other potential impacts to shallow and deep foundations due to filling operations.</p> <p>Eustis Engineering later provided services during a test pile program for this project. This included pile inspection at the point of treatment, logging and installation reporting of two probe piles and one reaction pile, the performance of one static compression pile load test, and vibration monitoring during installation of probe and reaction piles.</p> <p>Based on the results of the pile testing, we furnished the client with a report providing driving recommendations as well as a detailed explanation of our methods and results.</p>

PROJECT NO. 07		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
	Construction materials testing services provided during construction comprised compaction tests in the laboratory to establish the moisture-density relationships of the planned fill materials ; development of grain size curve reports to classify the fill and confirm compliance with the specifications; and field sampling of earthwork, including nuclear inplace density testing as well as relative density of the fill. We also sampling of concrete, timber pile inspection, pile installation observation and logging, and vibration monitoring.	
Completion Date (Actual or Estimated)	Estimated Cost:	
	Entire Project:	Work for Which Firm Was Responsible:
11/2020 (A)	Unknown	\$18,600

PROJECT NO. 08		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>U.S. Coast Guard Concrete Testing Services Grand Isle Station Repair Boathouse and Waterfront 453 Admiral Craik Drive Grand Isle, Louisiana Eustis Engineering Project No. 24227</p> <p>Contact Information: U.S. Coast Guard Through V. Pavkov Contracting Co., Inc. 55 South Guignard Drive Sumter, South Carolina 29150 Lance Pavkov @ 803-775-4119</p>	<p>Eustis Engineering provided field and laboratory testing, and sampling concrete services for the U.S. Coast Guard, Grand Isle Station Boathouse and Waterfront Repair project. The project comprised a concrete boat ramp, fuel pier, three additional piers, a boathouse, floating dock, wharf, and bulkheads. Riprap was also placed along the eastern portion of the site.</p> <p>The construction materials testing services included:</p> <ul style="list-style-type: none"> concrete and masonry placement, inspection, and sampling in the field; cylinders and cubes molded during inspection, cured, and tested in compression. <p>ACI certified technicians were assigned to perform these tasks. Their qualifications include technician training, use of specialized equipment, calibration procedures, and adherence to the quality control plan to maintain compliance with applicable American Society of Testing and Materials standards.</p> <p>During the course of the concrete, mortar, and grout testing services, Eustis Engineering's technicians:</p> <ul style="list-style-type: none"> recorded each mix design used while at the project site; recorded the amount of water or additives added to the concrete, mortar, and/or grout mix; observed the placement of the material while performing testing; performed slump tests (either visual or actual) for each truckload witnessed; determined the air content for each sample tested, if required; sampled the material at intervals stated in the project plans and specifications; and performed compression testing on the specimens collected during our testing services (typically at 7 and 28 days). 	
Completion Date (Actual or Estimated)	Estimated Cost:	
	Entire Project:	Work for Which Firm Was Responsible:
12/2019 (A)	Unknown	\$4,000

PROJECT NO. 09		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Jefferson Parish Public School System Covered Playground Structures Multiple School Sites Jefferson Parish, Louisiana Eustis Engineering Project Nos. 25268, 25269, 25270</p> <p>Contact Information: Jefferson Parish Public School System 4600 River Road 1st Floor Marrero, Louisiana 70072 David Gilmore @ 504-349-8595</p>	<p>The Jefferson Parish Public School System is installing covered play structures at approximately 15 different elementary schools across Jefferson Parish, Louisiana.</p> <p>Eustis Engineering L.L.C. is providing construction materials testing services for these projects to include:</p> <ul style="list-style-type: none"> • compaction, laboratory testing, and sampling of earthwork; • field and laboratory testing and sampling of concrete; • concrete, grout, and mortar testing and inspection; • pile installation observation at the project sites; • inspection of timber piles at the plant and/or job sites; and • vibration monitoring. <p>In addition to construction materials testing, special inspection services are required for the project including inspection of welding, high strength bolts, and structural steel erection to be provided by our in-house Certified Welding Inspectors, as well as verification of reinforcing steel for the concrete slabs, footings, and pile caps/mat foundations.</p> <p>Our services also include the review of contractor submittals including:</p> <ul style="list-style-type: none"> • 02367 Wood Piles, and • 03300 Concrete Mix Designs. <p>The laboratory, testing and inspection services for these sites are currently ongoing.</p>	
Completion Date (Actual or Estimated)	Estimated Cost:	
	Entire Project:	Work for Which Firm Was Responsible:
09/2024 (E)	Unknown	\$10,000 (To date)

PROJECT NO. 10		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Jefferson Parish Cleary Avenue Improvements Veterans Boulevard to West Esplanade Avenue Jefferson Parish, Louisiana Eustis Engineering Project No. 24137</p> <p>Contact Information: Jefferson Parish Through Barowka & Bonura Engineers & Consultants, LLC 209 Canal Street Metairie, Louisiana 70005 Jeffrey Bonura, P.E. @ 504-828-0030</p>	<p>Eustis Engineering was selected to provide the construction materials testing services for approximately 2 miles of roadway improvements along the very busy Cleary Avenue in Metairie, Louisiana. This project corridor is located only 1.5 to 2 miles from Eustis Engineering's main office in Metairie.</p> <p>Our services on the project included:</p> <ul style="list-style-type: none"> • vibration monitoring during construction activities; • performance of soil mechanics laboratory tests (SMLTs) on sand (for embankments) as well crushed concrete and No. 57 limestone (as bedding material). These SMLTs included gradation analyses, Atterberg limits determinations, organic content, standard Proctor (ASTM D698), and relative density (ASTM D4253, D4254); • more than 100 inplace density tests were performed on these same materials to determine if they had been compacted to the minimum levels required by the project's specifications; • review of concrete mix designs intended for use on the project; • inspection of nearly 4,3000 cubic yards of concrete placed for street panels, curbs and gutters, driveways, and sidewalks; and • compressive testing of more than 600 concrete cylinders made in association with the above inspection. <p>Eustis Engineering's personnel worked nearly 1,500 hours on the project with minimal travel time due to the sites close proximity to our office. Quality control of our technician's reports was completed prior to issuing daily inspection reports digitally through the MetaField system.</p>	
Completion Date (Actual or Estimated)	Estimated Cost:	
	Entire Project:	Work for Which Firm Was Responsible:
03/2021 (A)	Unknown	\$69,000

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.		

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

When Eustis Engineering L.L.C. opened its first office in Vicksburg, Mississippi, in 1946, it housed its entire operation in less than 500 square feet of space. *Seventy-eight 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 single two-man office to approximately 115 individuals in five offices, 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, in the heart of Jefferson Parish's East Bank. We also operate branch offices in Baton Rouge and Lafayette, Louisiana, Gulfport, Mississippi, and 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:

- subsurface exploration (drilling of soil borings, cone penetration testing, downhole vane, and Geoprobe®);
- soil mechanics laboratory tests;
- field instrumentation and monitoring;
- non-destructive testing of piles and shafts including dynamic pile testing, crosshole sonic logging, single-hole sonic logging, low strain pile integrity testing, and thermal integrity profiling;
- geotechnical engineering design;
- special inspections; and
- construction quality control and materials testing services.

Eustis Engineering L.L.C. Important Numbers	
Item	Number
Unique Entity Identifier (UEI)	R83MG9NLTMS4
CAGE Code	4MOP2
Firm License - Louisiana	EF.0003558
Firm License - Mississippi	2078
Firm Registration – Texas	13895

Eustis Engineering has worked on over 850 geotechnical and construction materials testing projects for Jefferson Parish Government entities either as a prime or subconsultant. Project types include water and wastewater pump stations, lift stations, roads and bridges, utilities, drainage structures and canals, coastal features and flood protection. We have also worked on over 4,000 projects of all types throughout the east

and west banks of Jefferson Parish alone, not considering similar projects in the surrounding parishes. This work history gives our drilling, laboratory, field technicians, and engineering staffs unparalleled familiarity with the subsurface and foundation conditions as well as construction practices in the Gulf Coast and the challenges that may arise for projects associated with this contract.

ENGINEERING SERVICES

Eustis Engineering has geotechnical engineering capabilities to fulfill the requirements of nearly any project throughout Jefferson Parish and the coastal areas of the United States. As evidenced by the included write-ups in this package, our experience with performing field exploration, laboratory testing, special inspections, construction materials testing, and geotechnical engineering during construction is varied and extensive.

In addition to our geotechnical engineering design capabilities, Eustis Engineering's staff of engineers, interns, and field technicians successfully provide services to support the construction phase of most projects. As an extension of our design and evaluation of shallow and deep foundations, our engineering staff can review and evaluate the results of test pile programs for projects of any size. We have evaluated static, statnamic, and dynamic pile load test results. We have evaluated the results of compression, tension, and lateral load tests. We also review contractor submittals regarding estimates of axial capacity for reaction systems as well as bearing capacity for cranes and crane mats.

We evaluate local and deep-seated global stability of canals, waterway slopes and embankments as well as excavation shoring and sheeting. We provide assessments of heave, seepage and erosion control measures. We evaluate floodwalls, including I-walls, L-walls, T-walls and gates.

We perform settlement studies including estimates of settlement and time-rate of settlement with and without wick drains to enhance consolidation. These settlement studies include estimates and recommendations for lift construction affecting a gain-in-strength of foundation soils associated with subsoil consolidation. Preload/surcharge operations are also a component of our settlement evaluations. We can also provide construction phase monitoring and evaluate hold periods for these features.

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 moments. Eustis Engineering is also utilizing a numerical model program, SIGMA/W, in association with the rigorous settlement program Settle3.

Engineering Staffing

Our engineering staff has 20 master's degrees in Civil Engineering, Engineering, Engineering Management, Geology, 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, is very important to Eustis Engineering. Our engineers also regularly present at 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	22	26
Brian A. Deschamp	B.A. / Business Administration	12	12
	M.S. / Civil Engineering – Geotechnical		
P. Tennant Duckworth	M.S. / Civil Engineering	3	3
James J. Hance	M.S. / Civil Engineering	20	24
	M.B.A. / Business Administration		
Chad L. Held	M.S. / Civil Engineering	33	33
Matthew K. Morales	B.S. / Civil Engineering	15	15
Tomas K. Morales	B.S. / Civil Engineering	10	10
Travis R. Richards	M.S. / Engineering	17	24
	M.S. / Engineering Management		
	Coastal Engineering Certificate		
Chad D. Roe	M.S. / Civil Engineering	1	11
Gwendolyn P. Sanders	M.S. / Engineering	31	31
Sanjay S. Shahji	M.S. / Civil Engineering	1	18
Shaun R. Simon	M.S. / Civil Engineering	24	24
Alice E. Stark	M.S. / Civil and Environmental Engineering	<1	8
Patrick A. Thurmond	M.S. / Engineering Management	9	9
	M.S. / Civil Engineering		
	Coastal Engineering Certificate		
Sean G. Walsh	M.S. / Civil Engineering	11	16
James M. Williams	M.S. / Civil Engineering	6	6
Henry C. Worley	M.S. / Engineering	6	7
	Coastal Engineering Certificate		
Engineering Interns (E.I.)			
Adam K. Abdulbagi	B.S. / Civil Engineering	1	1
Naba Almofraji	B.S. / Civil Engineering	<1	6
Alvaro E. Carvajal	B.S. / Civil Engineering	1	1
Joseph P. DiGiovanni	B.S. / Civil Engineering	1	1
Steven B. Tidwell	B.S. / Geological Engineering	<1	13
Engineering Graduates			
Alexander Soriano Doninelli	B.S. / Civil Engineering	<1	4
Lesley L. Reitmeyer	B.S. / Civil Engineering	15	15
Xia (Bruce) Xialong	PhD / Geotechnical Engineering	<1	10
	M.S. / Geotechnical Engineering		

Geologists			
Matthew J. Blasini, G.I.T.	B.S. / Geology	5	6
Nathan A. Quick, P.G.	M.S. / Geology	2	7
Total Years of Experience		246	341

Reviewing our table, the majority of Eustis Engineering's professional engineers have at least ten years of experience in geotechnical engineering.

Cone Penetration Testing Capabilities

Eustis Engineering owns two dedicated track-mounted cone penetration test (CPT) rigs and operates four other multi-purpose rigs capable of performing CPTs. Operators are either specifically trained engineering technicians or engineers who perform 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 rigs can be placed on a cargo buggy, shallow draft barge, or airboat to access coastal marsh or open water. We have sounded to depths of 180 feet and have the ability to perform dissipation and seismic testing. Field testing is performed according to ASTM D5778 and common industry practices. Eustis Engineering has been performing CPTs and using CPT technology since the early 2000s.

A CPT can be accomplished rapidly with four or five being performed in the same time frame as a standard geotechnical boring; therefore, CPTs are typically cost-effective in providing enhanced subsurface exploration and better delineation of subsurface conditions at a project site.

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-end and closed-end steel pipe piles; and steel H-piles.

We often upgrade our data collectors and operate four Pile Driving Analyzers® (PDAs): one PAX unit and three 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 use underwater gauges to monitor pile driving in marine environments when the pile head descends below the water surface. To support our four PDA units, Eustis Engineering maintains an extensive inventory of calibrated gauges and accessories. To provide quality assurance and rapid responses 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 Standard Penetration Test (SPT) hammers on our drill rigs.

Other Non-Destructive Testing Capabilities

Our engineering staff at Eustis Engineering 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 if 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 data 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/FIELD EXPLORATION

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. We also have portable units that can be used inside structures planned for retrofit/renovations.

Field Exploration Personnel

We can provide up to nine drillers and drill rigs capable of obtaining standard 3-in. diameter Shelby tube samples and 5-in. diameter fixed piston samples, sounding CPT, advancing Geoprobe samplers, and installing geotechnical instrumentation on land, in water, and in marsh environments as indicated in the following table.

Capabilities of Eustis Engineering's Field Exploration Staff	Blair Armant	Scott Bombard	James Cordes	Tevin Crawford	Rene Davidson	Eric Held	James Lubben	George Reitmeyer	Lawrence Rome
Hand Auger Borings	X	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
Location Information (Latitude, Longitude)	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

Field Exploration Equipment

Eustis Engineering owns and operates six wet rotary drill rigs, both truck-mounted 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 and downhole vanes 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.

Other Specialized Soil Sampling Equipment

In addition to our drill rigs, Eustis Engineering owns and operates an Acker Vane Shear to perform down hole in-situ testing. We also have hand augers to obtain samples at various depths for use in classification and stratification of soil deposits. This equipment can be used in association with handheld piston samplers to obtain small diameter samples. Finally, we operate a dynamic cone penetration tests (DCPTs) to assess the in-situ strength of undisturbed soils and compacted materials in accordance with ASTM D 6951.

Drone Capabilities

Eustis Engineering utilizes small Unmanned Aerial Systems (sUAS), more commonly known as “drones,” to enhance our services. We use drones to perform site inspections, field reconnaissance, pre/post-construction condition surveys, construction inspections, and other forms of visual monitoring. We currently operate a DJI Mavic Air 2S Drone piloted by a Part 107 Certified Remote Pilot.

LABORATORY SERVICES

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

Eustis Engineering has also 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 provides Eustis Engineering’s team members access to a data source via connected applications or a web portal, increasing both collaboration and efficiency. 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 the efficient development of customized worksheets and reports.

Technical testing common to our laboratories includes ASTM; American Concrete Institute (ACI); State of Louisiana, Department of Transportation and Development (LaDOTD); AASHTO; FAA; and the U.S. Army Corps of Engineers (USACE). Our laboratories hold accreditations from AASHTO, LaDOTD, and the USACE.

Laboratory Staffing

Eustis Engineering currently has qualified technicians to sample construction materials and perform soil mechanics laboratory testing. These technicians are versed in the latest standards from ASTM, LaDOTD, MDOT, AASHTO, FAA, and the USACE. 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 USACE, 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 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 located 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.

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

To further show quality is paramount to Eustis Engineering, we have two individuals in charge of maintaining quality in our testing. Travis R. Richards, P.E., is the Engineer-In-Charge. Timmy Holleman, dedicated Quality Control Manager, oversees the calibration of our equipment and maintenance of our quality system. The biggest reward of our quality system is knowing our clients are confident our testing laboratories produce the highest quality results and conform to state and national standards.

CONSTRUCTION MATERIALS TESTING

Eustis Engineering has been involved in construction materials testing (CMT) and inspection on a regular basis since the mid-1980s. Over the past 30+ years, Eustis Engineering has accumulated a wealth of experienced technicians in these areas. Whether 20 feet down in an excavation or 20 stories up in a high rise, our CMT technicians are there providing the inspection services needed on individual projects.

Staffing

Eustis Engineering currently has nearly 30 technicians on staff to provide construction inspection services on a daily basis. These services encompass the areas of soils, piling, asphalt, concrete, steel, and others.

Services

Soils testing in the field is performed by means of density tests, fill placement inspection, and depth checks. These services are performed by technicians who have attended courses by Troxler or Humboldt in the use of nuclear density devices.


Piling services include the inspection of various types of piles, logging these piles, and performance of pile load tests with calibrated equipment. Load test results are, in turn, interpreted and reported by a registered engineer on our staff.

Our realm of concrete inspection includes the formulation and review of mix designs, quality control at the plant and in the field, materials testing and sampling, precast piling inspection, post tension inspection, floor flatness, and mortar and grout inspection. These services are performed by our ACI and NICET certified technicians.

Steel inspection may include the visual inspection of structural steel at the site or in the shop, steel and pipe coating sampling, post tension and welder certification witnessing, and the performance of ultrasonic and x-ray testing. These services are performed by members of our staff currently certified with AWS, ASNT, and/or ASME.

Other CMT services provided by Eustis Engineering personnel include fireproofing inspection, vibration and acoustical monitoring, paint inspection, and more.

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

Signature: 
Title: President

Print Name: Gwendolyn P. Sanders, P.E.
Date: 11 July 2024