



Client Focused. Technology Driven.

March 25, 2022

Parish of Jefferson Government

Via Electronic Submission
Central Bidding

RE: Jefferson Parish Government – Statement of Qualifications (TEC)
Routine Engineering Services for Sewer Projects
SOQ No. 22-010 – Resolution No. 138812

Dear Sir or Madam:

C. H. Fenstermaker & Associates, L.L.C. is pleased to submit our Statement of Qualifications / TEC Professional Services Questionnaire to provide Routine Engineering Services for Sewer Projects relative to any upcoming projects located in the Parish of Jefferson. Fenstermaker has provided engineering services within the State of Louisiana for over 70 years. Today, the firm has nearly 300 full-time employees and continues to be a firm of choice for many of our clients across the State and region.

Joining the Fenstermaker Team are the highly respected firms of Terracon, who will provide expertise and services in geotechnical engineering, and M&E Consulting, Inc., who will provide expertise and services in mechanical and electrical engineering.

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

✓ *Trusted leadership*
✓ *Local knowledge*

✓ *Successful completion of past sewer projects*
✓ *Office Location in New Orleans*

A diligent review of SOQ No. 22-010 has been performed. Know that our Fenstermaker personnel, who are a part of the local community and are familiar with the Jefferson Parish area, clearly understand the scope of services which may be required for any sewer projects in the Parish. Jefferson Parish Government will have our firm commitment to provide professional services on-time and on-budget.

Thank you for the opportunity to present our credentials and we look forward to hearing from you. Should you have any questions regarding our submittal or qualifications, please do not hesitate to contact Professional in Charge, Stefan Bourgeois, or Angelle Guilbeau, who is authorized to contractually obligate the firm.

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

Stefan Bourgeois

Stefan Bourgeois, P.E.
Professional in Charge
stefan@fenstermaker.com
(504) 582-2201

Angelle Guilbeau

Angelle Guilbeau
Director of Risk Management and Compliance
angelleg@fenstermaker.com
(337) 237-2200

Attachment

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

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

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

Technical Evaluation Committee (TEC) Questionnaire

Instructions

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

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Jefferson Parish Government
 SOQ No. 22-010 Routine Engineering Services for Sewer Projects
 Resolution No. 138812

B. Firm Name & Address:

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



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

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:

Stefan Bourgeois, P.E., Manager, Engineer
 1100 Poydras Street, Suite 1550
 New Orleans, LA 70163
 (504) 582-2201; stefan@fenstermaker.com

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

Stefan Bourgeois, P.E., Manager, Engineer
 1100 Poydras Street, Suite 1550
 New Orleans, LA 70163
 (504) 582-2201; stefan@fenstermaker.com

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

<u>39</u> Administrative	<u>0</u> Estimators	<u>0</u> Specification Writers
<u>0</u> Architects (Licensed)	<u>0</u> Geologists	<u>0</u> Structural Engineers
<u>0</u> Chemical Engineers	<u>2</u> Geotechnical Engineers	<u>0</u> Graduate Engineers
<u>24</u> Civil Engineers	<u>0</u> Interior Designers	<u>21</u> Project Managers
<u>8</u> Construction Inspectors	<u>0</u> Landscape Architects	<u>7</u> Clerical
<u>10</u> Ecologists	<u>48</u> Land Surveyor (field crew)	<u>2</u> Grant/Funding Specialist
<u>0</u> Electrical Engineers	<u>0</u> Mechanical Engineers	<u>0</u> Sanitary Engineers
<u>24</u> Engineer Intern	<u>1</u> Environmental Engineers	<u>13</u> Land Surveyors
<u>13</u> Professional Land Surveyors	<u>4</u> CADD Technicians	<u>53</u> Other Survey Staff
		<u>31</u> Other Staff
		<u>300</u> TOTAL

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

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

TEC Professional Services Questionnaire

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

1. N/A

2.

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

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

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. Terracon 524 Elmwood Park Boulevard Suite 170 New Orleans, LA 70123 	Geotechnical Engineering	Yes
2. M&E Consulting, Inc. 1304 Bertrand Drive Suite F7 Lafayette, LA 70506 	Mechanical and Electrical Engineering	Yes

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

9

TEC Professional Services Questionnaire

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

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Stefan Bourgeois, P.E. - Manager, Engineer

Project Assignment:

Professional In Charge of Project

Name of Firm with which associated:

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

Years' experience with this Firm:

12 years

Education: Degree(s)/Year/Specialization:

B.S. / 2009 / Civil Engineering

Active registration: Year first registered/discipline:

2014 / Louisiana PE #0038623

Other experience and qualifications relevant to the proposed Project:



Stefan Bourgeois, P.E. is a Senior Engineer with over 13 years of professional experience in design, planning, municipal code development and review, construction engineering, and project management. He is the Office Manager for Fenstermaker's New Orleans office. In addition to Mr. Bourgeois' experience in municipal engineering and management, he has been the engineer of record for the design of various project types such as hydrologic and hydraulic modeling and analysis, sewer lift station design, wastewater treatment design, and structural design.

Post Road Wastewater Treatment Plant (Lafayette Parish, LA): This project consists of the design of a proposed activated sludge wastewater treatment plant for the City of Carencro. The proposed treatment plant will be designed to accommodate future expansion up to 5.0 MGD and consists of a plant lift station, preliminary treatment in the headworks, complete mix aeration basins, clarifiers, sludge digesters, and sludge drying beds. Additionally, the aeration basins will be designed to activate the biomass with adequate return activated sludge from the clarifiers and diffused aeration from blowers; the activation of the biomass will treat the organic matter in the wastewater. The existing oxidation pond will be incorporated into the design of the plant as the equalization basin. This will allow temporary storage of surge flows from inflow and infiltration as well as other unforeseen peak flows. Mr. Bourgeois serves as project manager.

FEMA RR021 - Central City Group A, New Orleans, LA: The City of New Orleans Department of Public Works selected Fenstermaker to provide baseline and topographic survey, roadway and utility design, and construction administration for full street reconstruction in the Central City neighborhood. Replacement of waterlines were included on several streets and waterline designs were provided by the Sewerage and Water Board. Mr. Bourgeois is leading the project team in the construction administration phase.

TEC Professional Services Questionnaire

Continued - Other experience and qualifications relevant to the proposed Project:

Stefan Bourgeois, P.E.

FEMA RR045 – Filmore South Group D (FRC), New Orleans, LA: Fenstermaker was contracted to provide professional engineering design and construction administration services for FEMA-eligible street reconstruction in the Filmore South neighborhood. Mr. Bourgeois is the engineer of record and project manager. The provided services include topographic and right-of-way surveys, roadway and drainage design, final design (construction documents), bid & award services, construction administration, construction close out, inspection, reporting, and verification. The design is following FEMA guidelines as well as the guidelines set forth by City of New Orleans Department of Public Works.

Church Street Lift Station (Lafayette Parish, LA): Fenstermaker upgraded the Church Street lift station as part of wastewater master plan for the City of Carencro. The lift station is now Carencro's largest lift station and pumps up to 3.2 MGD for present-day demand and 9.5 MGD for the 20-year-planning period. Mr. Bourgeois served as the project engineer and directed all efforts related to the project such as design, survey, geotechnical coordination, right-of-way and servitude acquisitions, plans production, and utility coordination.

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

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

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

Lift Station No. 15 Upgrade (French Colony) (Lafayette Parish, LA): Project Manager & Lead Engineer: Fenstermaker prepared plans and specifications for the City of Carencro's Lift Station No. 15 Upgrade. The upgrades consisted of replacing the existing suction lift pumps with submersible pumps, relocating the control panel, and adding a SCADA System and valve pit. A breaker panel for emergency power and a by-pass pumping system were also added. Mr. Bourgeois served as Project Manager and Lead Engineer, coordinating with Louisiana Facility Planning & Control (FP&C), coordinated permitting and surveying tasks, and lead construction administration efforts.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	Luke Hebert, P.E., CFM – Director, Engineer
Project Assignment:	Engineer
Name of Firm with which associated:	C. H. Fenstermaker & Associates, L.L.C.
Years' experience with this Firm:	18 Year
Education: Degree(s)/Year/Specialization:	B.S. / 2003 / Civil Engineering
Active registration: Year first registered/discipline:	2009 / Louisiana PE #0034715 Certified Floodplain Manager No. US-17-09739
Other experience and qualifications relevant to the proposed Project:	
	<p>Luke Hebert is a Professional Engineer with over 19 years of experience in engineering design, planning, and project management. During his career, Mr. Hebert has been part of many different types of designs ranging from various roadway types (i.e., local, collector, arterial and freeway), surface and sub-surface drainage systems, water and sewer distribution system and water and sewer treatment. In 2013 Mr. Hebert was appointed by the Mayor of Carencro as the engineer for the City. One of his main focuses is working with developers on new commercial and residential developments. Since 2013 Mr. Hebert has been involved with over 20 new developments located within the City of Carencro and has managed them through planning, construction, and final acceptance. He has also provided Application Preparation, Program Management and Design Services to the City for Community Development Block Grants (CDBG), Facility Planning & Control (FP&C)–Capital Outlay, FEMA, USACE/DOTD, U.S. Dept. of Agriculture (USDA) Loan, Office of Community Development–Community Water Enrichment Fund, and Louisiana Dept. of Health. In total, Mr. Hebert has assisted the City with the acquisition and management of nearly \$18 Million in Federal and State project funding and lead the City to a FEMA Community Rating System Class 7.</p> <p>Post Road Wastewater Treatment Plant (Lafayette Parish, LA): Mr. Hebert serves as the project manager for the design of an activated sludge wastewater treatment plant for the City of Carencro. The plant will be capable of treating up to 2.0 MGD and will replace the existing plant, which currently treats 0.5 MGD. The proposed plant was designed to accommodate future expansion up to 5.0 MGD. The design consists of a plant lift station, preliminary treatment in the headworks, complete mix aeration basins, clarifiers, sludge digesters, and sludge drying beds. The existing oxidation pond will be incorporated into the design of the plant as the equalization basin. This will allow temporary storage of surge flows from inflow and infiltration as well as other unforeseen peak flows.</p>

TEC Professional Services Questionnaire

Continued - Other experience and qualifications relevant to the proposed Project:

Luke Hebert, P.E., CFM

Church Street Lift Station Upgrades Lafayette Parish, LA): Mr. Hebert was the lead design engineer on the design and construction administration of the Church Street Lift Station. This lift station was completely inundated during the March 2012 flood event. This caused the lift station to be down for 2 days and only returned to 75% capacity after it got back online. Another issue with this lift station was its location near the channel bank and the City was faced with possibly losing the lift station to erosion. It was decided to relocate the lift station to a nearby lot that the City owned. It was also upgraded to allow for future flow from a 250,000 gallon per day to 2,000,000 gallon per day lift station. This project was funded by FEMA through GOHSEP.

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

Francois Street Lift Station & Manola Drive Lift Station (Lafayette Parish, LA): The new Post Road wastewater treatment plant (WWTP) is being designed to treat all wastewater flow from the entire city and replace the existing Manola Drive and Post Road WWTPs. Currently, the Francois Street Lift Station pumps wastewater to the Manola Drive Lift Station. From there, the flow is pumped into the Manola Drive WWTP. To pump wastewater to the new Post Road WWTP, this process will be reversed and will require the Manola Drive WWTP Lift Station to be upgraded and pump to a new Francois Street Lift Station. Mr. Hebert was responsible for the design and layout of the lift station.

West Gloria Switch Lift Station Upgrades (Lafayette Parish, LA): Mr. Hebert served as the Project Manager on this project. Fenstermaker prepared plans and specifications for the City of Carencro's West Gloria Switch Lift Station Upgrade. This upgrade included the installation of new electrical and mechanical equipment such as PLCs, SCADA System, pumps, piping, and valves. The project also included elevating the existing wet well and control panel above the 100-year base flood elevation. The lift station can remain completely operational and accessible during the 100-year storm.

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

East Pont des Mouton, Phase II Roadway Widening (Lafayette Parish, LA): Mr. Hebert was the Lead Design Engineer for roadway widening improvements of East Pont des Mouton, Phase II commencing at the Interstate 49 for Lafayette Consolidated Government. This project entailed the widening of a 2-lane asphalt road into a 5-lane, concrete urban arterial road. Mr. Hebert was responsible for all horizontal and vertical alignments, typical sections, utility relocation, geometric detailing, intersection design, drainage design, sequencing of construction, quantity calculations, and the production of plans and specifications. Mr. Hebert also acted as the Lead Construction Engineer.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	Paul Zappi, M.S., P.E., Engineer
Project Assignment:	Engineer
Name of Firm with which associated:	C. H. Fenstermaker & Associates, L.L.C.
Years' experience with this Firm:	2 Years
Education: Degree(s)/Year/Specialization:	M.S. / 1992 / Civil/Environmental Engineering B.S. / 1988 / Civil Engineering
Active registration: Year first registered/discipline:	1996 / Louisiana Civil PE #27031
Other experience and qualifications relevant to the proposed Project:	
	<p>Paul Zappi, P.E., has over 31 years of experience working in environmental engineering. Mr. Zappi has worked in municipal/water engineering for over 22 years. He has experience in research, testing, computer modeling, planning, design, construction, operation, and maintenance related to a wide variety of W/W facilities and pipelines. Mr. Zappi has experience working with water, wastewater, sludge, chemical, and dredged material pumping systems including centrifugal, progressive cavity, air lift, diaphragm, and other types, in both dray and submersible settings and involving several manufacturers.</p> <p>Post Road Wastewater Treatment Plant and Sludge Dewatering Facility (Lafayette Parish, LA): This project consists of the design of a proposed activated sludge wastewater treatment plant for the City of Carencro. The plant will be capable of treating up to 2.0 MGD and will replace two existing plants that each treat 0.5 MGD. The design consists of a plant lift station, preliminary treatment unit, sequencing batch reactors, chlorine contact chambers, post aeration basins, chlorine gas disinfection, sludge holding tanks, and a centrifuge for sludge dewatering. Mr. Zappi was responsible for completing 90% of the design of the wastewater treatment plant.</p> <p>City of Lafayette - Lafayette Utilities System: Worked as project engineer for several wastewater treatment plant expansion, rehabilitation, and odor control projects; worked as project engineer for LUS' wastewater collection system rehabilitation program; pilot tested several odor control systems; prepared conceptual and preliminary design of a lift station odor control system; performed air and water quality evaluations of two WW collection systems; conducted jar and performance testing of several odor control chemical feed systems; prepared preliminary design for relocation and improvement of gravity mains and force mains; developed preliminary design of Computerized Maintenance Management System for four WWTPs (Datastream MP3); prepared odor control system O&M videos; prepared private sewer system database; participated in emergency response to Hurricanes Lili and Rita; designed various small projects at an electric generating station; and supervised consultants, contractors, and six employees.</p>

TEC Professional Services Questionnaire

Continued - Other experience and qualifications relevant to the proposed Project:

Paul Zappi, M.S., P.E.

City of Houston - Houston Water – Wastewater Operations Branch, Member of the Houston Water Innovation Hub Internal Working Group: Mr. Zappi has developed two initial calls for proposals and helped prepare and execute three MOUs for test projects (one dewatering and two bio-sludge reduction). He is also playing key role in the execution of these projects, as well as several related outreach efforts (e.g., AWWA YP site tour and Texas Water and AWWA/WEAT San Antonio Summer Seminar presentations). He is the Coordinator for Houston Water's National Biosolids Partnership's Environmental Management System, preparing revised EMS manual for City-wide implementation and Bronze-Level recognition and organizing initial Internal Audit efforts for Silver-Level Recognition. He is the Operation Division's lead for South Houston Region WWTPs (16 plants) projects under Houston Water's Capital Improvements Program (\$150M+ annual program).

City of Houston – Wastewater Operations Branch: Worked as Supervising Engineer of Wastewater Operations Branch's Residuals Management Group (5 employees with \$9M annual O&M and \$10M annual CIP budgets). Group responsible for Biosolids Management Program and Process Unit Cleaning & Evaluation Program. Responsibilities include planning, implementation, and improvement efforts relating to National Biosolids Partnership/ISO14001 EMS certification; technical representative for service contracts; technical representative for chemical supply contracts (polymer and quicklime); project manager for CIP/planning projects (long-term biosolids management plan and plant upgrades); alternate stabilization, disposal, end use, and energy production technology evaluation contact; lead for polymer selection and initial testing and continuing services tasks; annual TCEQ and EPA regulatory reporting; solids process unit evaluation efforts; and day-to-day technical support for plant operations. Assisted in updating the Branch's website, including development of wastewater utility history.

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

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	William Katzenmeyer, P.E., CFM - Engineer II
Project Assignment:	Engineer
Name of Firm with which associated:	C. H. Fenstermaker & Associates, L.L.C.
Years' experience with this Firm:	1 Year
Education: Degree(s)/Year/Specialization:	B.S. / 2008 / Civil Engineering
Active registration: Year first registered/discipline:	2011 / Louisiana PE #0036775 2021 / Certified Floodplain Manager No. US-21-11950
Other experience and qualifications relevant to the proposed Project:	
	<p>William Katzenmeyer, P.E., CFM is a Professional Engineer with over 13 years' experience working in South Louisiana and the New Orleans Metropolitan area. His areas of expertise include project management, design engineering, and FEMA PA disaster grant management. His design engineering experience includes roadway and drainage design, stormwater management including green infrastructure, hydrologic and hydraulic modeling, stormwater and sewer pumping stations, utility design, heavy construction, and site development.</p> <p>Plaquemines Parish Sewerage Capital Improvements Program (Plaquemines Parish) Mr. Katzenmeyer was the civil engineer responsible for design and drafting duties in relation to sewerage extension projects. This project included sewage collection system planning, hydraulic design, pipe sizing, pumping station design, force main design, coordinating major utility crossings, and incidental roadway repairs. He also participated in construction monitoring, coordinating with inspection personnel, and construction management duties during the construction phase.</p> <p>Cuddihy Drive and Woodvine Avenue Drainage Improvements, Jefferson Parish, LA: Mr. Katzenmeyer was the civil engineer responsible for the engineering design and preparing of plans and specifications, bidding, and construction management. The project consisted of upgrading the subsurface drainage system along the length of Cuddihy Drive and a part of Woodvine Avenue ad full reconstruction of roadway and drainage and utility infrastructure within the public right of way. The goal of the project was to mitigate frequent roadway flooding events which were being caused by long-term differential settlement of the subgrade materials and substandard drainage infrastructure.</p> <p>Dillard University Improvements, Orleans Parish, LA: Mr. Katzenmeyer was the civil engineer responsible for preparing plans and specifications for multiple utility and drainage projects. Dillard University selected LH&J to design multiple infrastructure projects including improvement of the campus-wide drainage facilities, roadways, parks, bioswales, and the construction of low-impact design pervious parking lots for LEED certification. Additional projects included multiple building utility site plans, lift station improvements, 12" waterline improvements for fire services to new buildings. Mr. Katzenmeyer provided a gamut of consulting, scoping, design, bidding, and construction</p>

TEC Professional Services Questionnaire

Continued - Other experience and qualifications relevant to the proposed Project:

William Katzenmeyer, P.E., CFM

City of Walker Sewer Mitigation Project Benefit Cost Analysis - Quality Engineering & Surveying, LLC (Livingston Parish, LA): Mr. Katzenmeyer provided technical assistance for preparation of Benefit Cost Analysis (BCA) for the City of Walker Sewer Mitigation Project (Phase I Application), including estimating anticipated damages for sewer pumping and conveyance systems throughout the City of Walker.

\$70 M Roadway, Water and Sewer Infrastructure Combined Improvement Project – Stuart Consulting Group (St. Tammany Parish, LA): Mr. Katzenmeyer served as the senior technical and program/project manager working alongside a team during project scoping, AE design phase management, preparation of Environmental and Historical Preservation submittals, forecasting and budgeting involving multiple discrete funding courses (PA, FHWA, and Local Bond), and design document review prior to construction.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	Patrick Shitabule, MBA, P.E., PMP - Engineer II
Project Assignment:	Engineer
Name of Firm with which associated:	C. H. Fenstermaker & Associates, L.L.C.
Years' experience with this Firm:	1 Year
Education: Degree(s)/Year/Specialization:	MBA / 2005 / Agri-Business Management B.S. / 2015 / Mechanical Engineering
Active registration: Year first registered/discipline:	Texas PE #134733
Other experience and qualifications relevant to the proposed Project:	
	<p>Patrick Shitabule, MBA, P.E., PMP has 10 years of consulting experience in the design of municipal WWTPs. Mr. Shitabule is a process/mechanical engineer for Fenstermaker's design of the new 2 Mgd Carencro WWTP, with onsite sludge processing (90% design completed). Mr. Shitabule is co-lead for Carencro's headworks/screening, bioreactor/SBR, chlor-gas-disinfection/de-chlor, and sludge dewatering/centrifuge process designs. He is currently co-lead for the conceptual design of the Scott WWTP's physical, mechanical, and biological process units. Mr. Shitabule lends a unique perspective to the Fenstermaker design team; by providing detailed plant O&M guidance from the perspective of the plant operators.</p> <p>Post Road Wastewater Treatment Plant and Sludge Dewatering Facility (Lafayette Parish, LA): Mr. Shitabule is a process/mechanical engineer for Fenstermaker's WWTP design for the City of Carencro.</p> <p>City of Scott Wastewater Treatment Plant (Lafayette Parish, LA): As the City Engineer for City of Scott, Fenstermaker is assisting the city with the expansion of the existing wastewater treatment plant. Mr. Shitabule is the co-lead for the conceptual design of the WWTP's physical, mechanical, and biological process units.</p> <p>City of Houston: Mr. Shitabule served as a Senior Plant Operator for a 26 MGD average daily flow activated sludge wastewater treatment facility. He was promoted to the position of Engineer and was involved with process control and optimization, Houston's technology demonstration and innovation hub, and capital improvement and replacement projects. He is currently working on the expansion of the Houston Intercontinental wastewater treatment plant.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Mustafa Afaneh, E.I. - Engineer Intern
Project Assignment:
Engineer Intern
Name of Firm with which associated:
C. H. Fenstermaker & Associates, L.L.C.
Years' experience with this Firm:
1 Year
Education: Degree(s)/Year/Specialization:
B.S. / 2018 / Civil Engineering
Active registration: Year first registered/discipline:
2019 / Louisiana EI #34198
Other experience and qualifications relevant to the proposed Project:
<div style="display: flex; align-items: flex-start;">  <div style="flex-grow: 1;"> <p>Mr. Afaneh is an Engineer Intern with over 2 years of professional experience in engineering design within the traffic, civil, and structural sectors. Mr. Afaneh has recently joined C.H. Fenstermaker after partaking a successful early career at a local engineering firm in New Orleans. Being early in his professional career, Mr. Afaneh demonstrates eagerness and aptitude for acquiring the necessary knowledge to complete any task and resolve any issue. Under supervision of a licensed engineer, Mr. Afaneh has performed structural and site design for numerous low and midrise structures locally. Mr. Afaneh's expertise extends into foundation, civil and structural engineering. In addition, Mr. Afaneh has successfully served as the lead project coordinator for multiple civil designs including storm water management plans to meet the City's requirements. He is currently assisting the project team with the design and construction phases for various full roadway reconstruction projects here for the City of New Orleans.</p> <p>FEMA RR045 – Filmore South Group D (FRC) (New Orleans, LA) Mr. Afaneh is serving as the Engineer Intern and will be responsible in assisting the project team with preparation of final design, construction documents, and specifications. Fenstermaker was contracted to provide professional engineering design and construction administration services for FEMA-eligible street repairs in the Filmore South neighborhood. Services being provided include topographic and right-of-way surveys (if requested by the City), roadway and drainage design (design development - 30%, 60%, 90%), environmental study (if requested), final design (construction documents), bid & award services, construction administration, construction close out, and inspection, reporting, and verification. The design is following FEMA guidelines, as well as the guidelines set forth by City of New Orleans Public Works.</p> <p>FEMA RR021 - Central City Group A (New Orleans, LA) The City of New Orleans Department of Public Works selected Fenstermaker to provide baseline and topographic survey, roadway design, and construction administration for streets in the Central City neighborhood. Replacement of waterlines were included on several streets and waterline designs provided by the Sewerage and Water Board was incorporated on others. Mr. Afaneh is assisting the project team in the construction administration phase.</p> </div> </div>

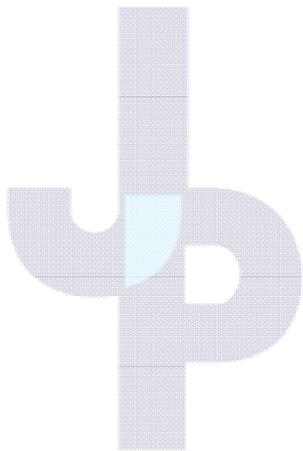
TEC Professional Services Questionnaire

Continued - Other experience and qualifications relevant to the proposed Project:

Mustafa Afaneh, E.I.

FEMA RR105 – Lower Ninth Ward Group C (FRC) (New Orleans, LA) Fenstermaker was contracted to provide professional engineering design and construction administration services for FEMA-eligible street repairs in the Lower Ninth Ward neighborhood. Services being provided include topographic and right-of-way surveying, roadway and drainage design, environmental study (if requested), construction bidding services, construction administration, construction close-out and construction inspection. The design is following FEMA guidelines, as well as the guidelines set forth by City of New Orleans Public Works. Mr. Afaneh is assisting the project team in the final coordination and construction administration phase.

City of Scott Wastewater Treatment Plant (Lafayette Parish, LA): As the City Engineer for City of Scott, Fenstermaker is assisting the city with the expansion of the existing wastewater treatment plant. Mr. Afaneh is assisting as an Engineer Intern, providing engineering services. He has attended the kickoff meeting with the City to evaluate the issues concerning the plant and is assisting the lead engineer with formulating a solution to meet the City's future population needs and to ensure that the plant is functioning at maximum efficiency.



Jefferson
Parish
State of Louisiana

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
O'Bryant Henderson – Inspector III
Project Assignment:
Construction Inspector
Name of Firm with which associated:
C. H. Fenstermaker & Associates, L.L.C.
Years' experience with this Firm:
2 Years
Education: Degree(s)/Year/Specialization:
High School Diploma
Active registration: Year first registered/discipline:
<ul style="list-style-type: none"> NHI Bridge Inspection Certificate USACE Construction Quality Management for Contractors Certification Density Gauge (Nuclear Troxler) and ACI Trained OSHA 30 LADOTD Structural Concrete Inspector/Technician
Other experience and qualifications relevant to the proposed Project:
<div style="display: flex; align-items: flex-start;">  <div style="flex-grow: 1;"> <p>Mr. Henderson has 21 years of construction inspection experience. His primary duties and experience are in inspecting, testing of materials and quality management of structural and reinforced steel, concrete, masonry, piles, and soils. He has years of experience assisting project managers with scheduling, budgeting, reviewing RFI's and submittals, pay apps, and managing inspectors. Before being employed at Fenstermaker, Mr. Henderson worked as a senior resident inspector for the North Terminal Airport, an inspector for LADOTD, and USACE.</p> <p>City of New Orleans Central City Group A (Orleans Parish, LA) Fenstermaker is providing baseline and topographic survey, roadway design, and construction administration for streets in the Central City neighborhood. Fenstermaker's scope includes assessment of existing street conditions including ADA compliance, accessibility and provision for pedestrians, and design of any needed repairs. Mr. Henderson inspected drain and sewer lines for this project.</p> <p>RR 105 Lower Ninth Ward Northeast Group C (Orleans Parish, LA) Fenstermaker was contracted to provide professional engineering design and construction administration services for FEMA-eligible street repairs in the Lower Ninth Ward neighborhood. Services being provided include topographic and right-of-way surveying, roadway and drainage design, environmental study, construction bidding services, construction administration, construction close-out and construction inspection. The design is following FEMA guidelines, as well as the guidelines set forth by City of New Orleans Public Works. Mr. Henderson performed constructability reviews for this project.</p> <p>LADOTD INSPECTOR (Jefferson Parish, LA): Mr. Henderson assisted with inspections of new and existing off-system bridges, identifying bridge conditions and defects. He prepared condition reports documenting deficiencies and alerting engineers of findings which impacted the structure or integrity of roadways. Mr. Henderson previewed bridge structure plans, previous instructions, repairs and maintenance and recorded findings into the state and federal bridge system programs.</p> </div> </div>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	Mark Dubroc, P.E. - Engineer III
Project Assignment:	Quality Assurance / Quality Control Lead
Name of Firm with which associated:	C. H. Fenstermaker & Associates, L.L.C.
Years' experience with this Firm:	2 Years
Education: Degree(s)/Year/Specialization:	B.S. / 1980 / Civil Engineering
Active registration: Year first registered/discipline:	1987 / Louisiana PE #22618
Other experience and qualifications relevant to the proposed Project:	
	<p>Mr. Dubroc is a Senior Engineer with over 39 years of professional civil engineering experience. As Principal of Dubroc Engineering, Inc. for 23 years, Mr. Dubroc gained extensive experience in civil engineering consulting, with a wide variety of clients and projects including urban and rural roadway and drainage designs, highway bridge design, solid waste transfer facilities, site planning, residential land developments, municipal water and sewer collection systems, and various other civil and structural design projects. His extensive and deeply embedded participation in every aspect of design and construction administration of such a variety of similar projects uniquely qualify him to provide the general oversight and quality assurance necessary for the project at hand. Most recently, Mr. Dubroc served as Public Works Director of Lafayette Consolidated Government, where he managed 335 Public Works employees, with an operating budget of \$58M, an annual Capital Improvement Program of \$50M, and a 5-Year Capital Plan budget of \$250M, which included 375 projects. He managed the Capital Improvements Division, that included the Design & Development Section, ROW Section, Project Control Section and the Estimates and Administration Section. He also managed the Operations Divisions, which included street, drainage and vehicle maintenance divisions, and the Traffic and Transportation Division responsible for traffic engineering, traffic maintenance (signs and markings), traffic signals maintenance transit operations, and parking.</p> <p>Post Road Wastewater Treatment Plant and Sludge Dewatering Facility (Lafayette Parish, LA): This project consists of the design of a proposed activated sludge wastewater treatment plant for the City of Carencro. The wastewater treatment plant is designed to treat an average daily flow of 2.0 MGD and a peak wet weather flow of 8.0 MGD with the ability to expand treatment capacity to an average daily flow of 4.0 MGD and a peak wet weather flow of 16 MGD. Mr. Dubroc reviewed all plans and specifications for the project.</p> <p>Ascension Episcopal School (Lafayette Parish, LA) Mr. Dubroc served as the Principal and Project Manager for this \$4 million site civil project, for the planning, design, and construction of a \$24 million private high school. Mr. Dubroc led the design team for topographic surveys, platting, preliminary and final plans and specifications and construction administration for sewer and water utility systems, curb and gutter parking and roadways, and subsurface drainage systems. The drainage systems included multiple integrated detention basins modelled and designed with XP_SWMM. Quality assurance was an integral part of the design and administration of the work.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	Travis Bodin, MBA, PLS, PMP Vice President, Survey
Project Assignment:	Survey Lead
Name of Firm with which associated:	C. H. Fenstermaker & Associates, L.L.C.
Years' experience with this Firm:	18 Years
Education: Degree(s)/Year/Specialization:	B.S. / 2004 / Industrial Technology MBA / 2021 / Business Administration
Active registration: Year first registered/discipline:	2011 / Louisiana PLS # 0005067 2018 / Project Management Professional PMI PMP No. 2269869
Other experience and qualifications relevant to the proposed Project:	
	<p>Travis Bodin, MBA, PLS, PMP currently serves as Vice President of Survey at Fenstermaker and has over 18 years of surveying, management, and coordination experience. He is currently responsible for directing and overseeing the daily activities within the Fenstermaker Survey Division which consist of both the Houston and Lafayette Offices and over 35 survey crews working across multiple states. He has served as the Lead Professional Land Surveyor for projects across Louisiana. His responsibilities have included the management of surveying/ROW services, utility relocation coordination, coordinating with parish, state, and federal agencies and sub-consultants, cost estimating, scoping, scheduling and planning, resource management, and construction management services. With his background in surveying and project management, Mr. Bodin has performed and participated in multi-million-dollar projects consisting of large scale topographic and bathymetric surveys, development of high accuracy GPS networks, landowner notification and documentation, the development of DTM, infrastructure documentation, GIS integration, process and procedure development. During his tenure at Fenstermaker Mr. Bodin has conducted management duties for both field and office activities on survey and engineering projects. Software & Training: With his wide range of managerial and technical experiences, Mr. Bodin was able to obtain his Project Management Professional (PMP) Certification which is acknowledged by agencies around the world as the leading certification for project managers. Mr. Bodin is experienced in the use of the newest versions of MicroStation, AutoCAD, and Trimble Business Center, Office 365, and Primavera 6.</p> <p>Church Street Lift Station (Lafayette Parish, LA) Fenstermaker upgraded the Church Street lift station as part of wastewater master plan for the City of Carencro. The lift station is now Carencro's largest lift station and pumps up to 3.2 MGD for present-day demand and 9.5 MGD for the 20-year-planning period. Mr. Bodin was responsible for processing survey data, working on boundary, researching servitude information, and directing survey crews on the staking of boring locations.</p>

TEC Professional Services Questionnaire

Continued - Other experience and qualifications relevant to the proposed Project:

Travis Bodin, PLS, PMP, MBA

Francois Street Lift Station & Manola Drive Lift Station (Lafayette Parish, LA) The City of Carencro is building a new Wastewater Treatment Plan (WWTP) near the existing WWTP along Post Road. This new WWTP is being designed to process the flow from the entire city to replace the existing Manola Drive and Post Road WWTPs. The new Francois Street Lift Station will be designed to handle the entire tributary area currently going to the Manola Drive WWTP. The Manola Drive Lift Station will also be upgraded to accommodate the additional headlosses associated with pumping wastewater a greater distance to the new Francois Street Lift Station. Mr. Bodin was responsible for reviewing all servitude plats, completing all boundaries, processing survey data in CAD, and coordinating needed property transfers.

East Pont des Mouton, Phase II – Water and Sewer Improvement and Roadway Widening (Lafayette Parish, LA) This project included the widening of Approximately 1.4 miles of urban roadway reconstruction resulting in utility relocation and design of potable water distribution system and sanitary sewer collection system (gravity and force main). The sanitary sewer portion of this project entailed the design and installation of over 8,000' cumulative feet of 15", 18", 21", and 24" gravity sewer main. Mr. Bodin was the Lead Surveyor on this project. He led a full survey that was conducted to capture elevations and dimensions.

Water Treatment Plant – Hector Connolly Rd. (Lafayette Parish, LA) Fenstermaker designed a new water treatment facility, which will reside adjacent to the existing water production facility near Hector Connolly Road and will replace the existing water production facilities. Mr. Bodin was responsible for right-of-way plats and utility coordination.

State of Louisiana

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:	
RR045 Filmore South Group D Orleans Parish, LA City of New Orleans Department of Public Works 1300 Perdido Street, #6W03 New Orleans, LA 70112 Ang Nguyen (504) 658-8685 Anh.Nguyen@nola.gov	The City of New Orleans Department of Public Works contracted Fenstermaker to provide professional engineering design and construction administration services for FEMA-eligible street repairs in the Filmore South neighborhood. Plans and specifications for the site may include the following design features: full roadway pavement sections including sidewalks and curb ramps; roadway pavement base material; subsurface drainage, water, and sanitary sewer installation ; modifications, adjustments, and repair as required; adjustments at driveways, intersection streets, and Project termini as required; green stormwater infrastructure such as permeable surfaces, street trees, detention/retention basins, street basins, and street-side bioswales; bicycle facilities such as bike lanes and shared lanes; and transit facilities such as bus boarding and alighting areas. Installation of ADA ramps will be included. The project includes water main point repairs on various streets within the neighborhood. These repairs include installing a new fire hydrant, valves, and waterlines.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
08/2023 (estimated)	\$13,624,000	\$565,858

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
RR105 Lower Ninth Ward Northeast Group C Orleans Parish, LA City of New Orleans Department of Public Works 1300 Perdido Street, #6W03 New Orleans, LA 70112 Mohanad Abdelfattah (504) 658-8037 mohanad.abdelfattah@nola.gov	Fenstermaker was contracted to provide professional engineering design and construction administration services for FEMA-eligible street repairs in the Lower Ninth Ward neighborhood. Plans and specifications for the site may include the following design features: full roadway pavement sections including sidewalks and curb ramps; roadway pavement base material; subsurface drainage, water, and sanitary sewer installation ; modifications, adjustments, and repair as required; adjustments at driveways, intersection streets, and Project termini as required; green stormwater infrastructure such as permeable surfaces, street trees, detention/retention basins, street basins, and street-side bioswales; bicycle facilities such as bike lanes and shared lanes; and transit facilities such as bus boarding and alighting areas. Installation of ADA ramps will be included.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
10/2023 (estimated)	\$14,500,000	\$560,994

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
RR021 City of New Orleans Central City Group A RR045 Filmore South Group D Orleans Parish, LA City of New Orleans Department of Public Works 1300 Perdido Street, #6W03 New Orleans, LA 70112 Ang Nguyen (504) 658-8685 Anh.Nguyen@nola.gov	The City of New Orleans Department of Public Works selected Fenstermaker to provide baseline and topographic survey, roadway design, and construction administration for streets in the Central City neighborhood. The project includes a 10 yr. design to replace the existing sub-surface drainage system and replacement of all sewer structures . Replacement of waterlines is included on several streets and waterline designs provided by the Sewerage & Water Board will be incorporated on others. Fenstermaker has completed the design.	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
07/2022 (estimated)	\$10,155,000	\$971,875

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Post Road Wastewater Treatment Plant and Sludge Dewatering Facility City of Carencro, Lafayette Parish, LA PO Drawer 10 210 East St. Peter Street Carencro, LA 70520 Don Chauvin, City Manager (337) 896-8481 citymanager@carencro.org	Fenstermaker is designing an activated sludge wastewater treatment plant and sludge handling facility for the City of Carencro. The plant will have a 2 MGD capacity with a peak capacity of 8 MGD and the ability to expand treatment capacity to an average daily flow of 4.0 MGD and a peak wet weather flow of 16 MGD. The scope of the project includes the construction of an onsite lift station, elevated headworks with a mechanical screen, a splitter box, four sequencing batch reactors, a chlorine contact chamber, a parshall flume, a post aeration basin, a potable water system, a testing laboratory, chlorine and sulfur dioxide storage buildings, a maintenance building, and an administrative building. The plant will have a Supervisory Control and Data Acquisition System (SCADA) motor control center that operates the plant and allows the plant operator to monitor and control the operations from remote locations via internet access. The sludge handling facility will include aerated sludge holding tanks, double disc sludge pumps, a polymer injection system, and a high-performance decanter centrifuge for dewatering. The wastewater treatment plant project will be funded by a loan through the U.S. Department of Agriculture.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
04/2026 (estimated)	\$25,000,000	\$2,192,213

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
West Gloria Switch Lift Station Upgrades City of Carencro, Lafayette Parish, LA PO Drawer 10 210 East St. Peter Street Carencro, LA 70520 Don Chauvin, City Manager (337) 896-8481 citymanager@carencro.org	The upgrade included retrofitting the existing wet well, new electrical and mechanical components, SCADA, and a new site. The wet well, control panel, and valves were elevated 1' above the 100-year base flood elevation. Unique planning and design techniques were utilized to raise the operating components well above the finished grade elevation for complete operability during major storm events. The existing valve pit was replaced with above ground valves and piping for ease of access. New submersible pumps were installed that increased the pumping capacity to 220 GPM. The design included variable frequency drives (VFD) for an operable pumping capacity. Oversight of construction activities was also provided by Fenstermaker.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
07/2018	\$285,000	\$73,000

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Church Street Lift Station (No. 4) Project City of Carencro, Lafayette Parish, LA PO Drawer 10 210 East St. Peter Street Carencro, LA 70520 Don Chauvin, City Manager (337) 896-8481 citymanager@carencro.org	The Church Street Lift Station is an integral component of the city's wastewater collection system. Improvements included relocating the lift station above the 500-year BFE and increasing the capacity to account for future flows. Repairs included new submersible pumps, wet well, valve pit, piping, a new force main, and a control panel raised above flood elevations. Tasks included: upgrading the lift station to allow for future flow from 0.25 MGD to 2 MGD; designing and installing 600 feet of 24" gravity sewer main and 5,000 feet of 24" force main; platting, negotiating, and acquiring all necessary utility servitudes; and providing bidding, contracting, construction administration and full-time inspection on the project.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020	\$4,630,000	\$755,000

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
East Pont des Mouton – Water and Sewer Improvement and Roadway Widening City of Lafayette, Lafayette Parish, LA Lafayette Consolidated Government 705 University Avenue Lafayette, LA 70506 Jared Veazey, P.E. (337) 291-8590	Engineering design services were provided for the construction of a 1.4-mile, 4-lane divided curb and gutter roadway with raised median, sidewalks, subsurface drainage, and street lighting. 14,300' of subsurface drainage was installed including 1,400' of 84" RCP, over 8,000' of water distribution, 7,000' of wastewater line, a wastewater lift station, and coordination of many utility companies. Water and sewer utilities were relocated, and an upgrade of an undersized wastewater lift station to a major lift station capable of flowing 2.0 MGD. The sanitary sewer portion of this project entailed the design and installation of over 8,000' cumulative feet of 15", 18", 21", and 24" gravity sewer main, 1,500' of 10" force main with the lift station.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018	\$16,500,000	\$1,620,000

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Francois Street Lift Station & Manola Drive Lift Station City of Carencro, Lafayette Parish, LA PO Drawer 10 210 East St. Peter Street Carencro, LA 70520 Don Chauvin, City Manager (337) 896-8481 citymanager@carencro.org	The new Francois Street and Manola Drive Lift Stations are being designed to handle additional flows due to known and anticipated developments in the City. The Manola Lift Station is upgraded with two, 60 hp pumps, and the Francois Lift Station is upgraded with three, 85 hp pumps. The Francois Lift Station is below the 100-yr base flood elevation (BFE) and the project will elevate the wet well and control panel. The project included major roadway crossing of the forcemains under Interstate-49 and LA Highway 182. The total long-term future average daily flow is approximately 2.0 MGD, which will be serviced by the new Francois Street Lift Station. The upgraded Manola Drive WWTP Lift Station will service approximately 1.0 MGD.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
04/2023 (estimated)	\$5,600,000	\$742,000

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Lift Station No. 13 (Evangeline Downs) City of Carencro, Lafayette Parish, LA PO Drawer 10 210 East St. Peter Street Carencro, LA 70520 Don Chauvin, City Manager (337) 896-8481 citymanager@carencro.org	The new Evangeline Downs Lift Station is being designed to handle the existing service area currently associated with it as well as additional flows due to known and predicted future developments within the service area. The existing lift station pumps wastewater through a 6" sewer force main 4,723' to the next sewer manhole, which eventually flows to the Manola Wastewater Treatment Plant. Calculations show that to handle additional future flows in the area, the 6" sewer force main would need to be replaced with a 10" force main. The newly designed lift station will be able to handle a fluctuation in flow from the current Average Daily Flow of 113,000 gpd to the future Average Daily Flow of 600,000 gpd.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
12/2021	\$1,200,000	\$248,622

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

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

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	

N/A

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



C. H. Fenstermaker & Associates, L.L.C. (Fenstermaker) has provided engineering, environmental consulting, and surveying services in south Louisiana for over 72 years, with office locations in New Orleans, Mandeville, Baton Rouge, Lafayette, Lake Charles, Jennings, and Shreveport, Louisiana. Fenstermaker maintains a diverse client base consisting of municipalities, state government, large, medium, and small companies in a variety of industries. Fenstermaker’s highly qualified professional staff is supported by a technologically robust management system and continuity of operations, as most senior staff members have been with the firm for decades.

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

Fenstermaker is well equipped to assist the Jefferson Parish with the design, bidding, and construction administration services associated with sewer projects. Fenstermaker stands behind our qualifications, the capabilities of our personnel, and the integrity of our work. Fenstermaker’s staff of highly qualified professionals can provide the Parish with the necessary knowledge and experience required to assist with this contract. Fenstermaker has a dedicated utilities team that specializes in lift station design, gravity sewer and force main design, and wastewater treatment design. The key personnel that will work on this project have extensive experience in the required services.

Stefan Bourgeois, P.E. will serve as the Professional in Charge. Mr. Bourgeois manages Fenstermaker’s New Orleans office and has over 12 years of verifiable experience in sanitary sewer lift station, gravity sewer and force main design, and wastewater design. Mr. Bourgeois has experience in design, planning, municipal code development and review, construction engineering, and project management. In addition to his experience in municipal engineering and management, he has been the engineer of record for the design of over 10 lift stations, thousands of linear feet of sewer mains, and various project types such as wastewater collection and pumping design, wastewater treatment design, water distribution and treatment design.

Luke Hebert, P.E., CFM has over 17 years of verifiable experience in sanitary sewer and lift station design and is Fenstermaker’s lead utilities engineer. Mr. Hebert has extensive experience designing the utilities on various lift station, wastewater treatment plant, and asset management projects. Mr. Hebert has experience obtaining funding through the United States Department of Agriculture and the Louisiana Department of Health for the completion of utility projects.

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

Joining the Fenstermaker team is **Terracon Consultants, Inc.**, providing geotechnical engineering and testing. Terracon is a national firm with more than 350 geotechnical engineers. Their New Orleans office, located in Jefferson Parish, will manage projects associated with this contract. They have successfully provided field exploration, laboratory testing, and engineering/project delivery services for list stations and wastewater treatment plant projects. Also joining Fenstermaker is **M & E Consulting, Inc.**, who has been providing mechanical and electrical engineering since 1997. M & E has successfully teamed with Fenstermaker on over 30 projects including wastewater treatment plants, recreation facilities, water storage tanks and pumping facilities, water treatment plants, lift stations, and roadway projects.

(2) Capacity of timely completion of newly assigned work

Our New Orleans office, with staff from our Mandeville, Baton Rouge and Lafayette offices, is available to complete this project. Fenstermaker will make available any of its qualified and knowledgeable staff to complete the project on time and to Parish requirements. The Team is available and fully capable of performing the requirements for this contract on time and within budget. Fenstermaker has a long history of successful project management and understands the importance of timely project completion and cost control on municipal projects. Our project managers and engineers perform quality work in a timely and professional manner.

(3) Location of the Principal business office

Fenstermaker's Principal business office is in Orleans Parish, LA at 1100 Poydras, Suite 1550, New Orleans, LA 70163.

(4) Adversarial legal proceedings between the Parish and the person or firm performing professional services

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

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

As shown in our project examples within this proposal, Fenstermaker has experience on a multitude of public contracts for municipal clients. Our engineers have designed thousands of linear feet of gravity sewer and force main, lift stations and wastewater treatment plants. In March of 2012, after the City of Carencro was devastated with a 500-year storm event, much of the City's wastewater infrastructure was damaged or destroyed. Fenstermaker led a 4-year collaboration with FEMA and GOHSEP to identify and secure funding through HMGP for multiple projects that would repair and protect the City's infrastructure. These projects included the rehab and upgrade of the City's largest lift station and associated sewer force mains. Fenstermaker also designed the City's new wastewater treatment plant and sludge handling facility. The best measure of quality of work performed by Fenstermaker is observed in the number of repeat clients over the past seven decades. Over the past 20 years Fenstermaker has grown from 60 employees to over 300 personnel. Below is a list of client references:

- **City of New Orleans**, 1300 Perdido Street, #6W03, New Orleans, LA 70112
Anh Nguyen, Project Manager, (504) 658-8685, anh.nguyen@nola.gov
Mohanad Abdelfattah, Project Manager, (504) 658-8037
- **City of Carencro**, 210 East St. Peter Street, Carencro, LA 70520
Don Chauvin, City Manager, (337) 896-8481, citymanager@carencro.org
- **Lafayette Consolidated Government**, 705 University Avenue, Lafayette, LA 70506
Jared Veazey, P.E., (337) 291-8590

(6) Size of firm

Across our six south Louisiana offices (New Orleans, Mandeville, Lafayette, Baton Rouge, Lake Charles, and Jennings) we currently have 26 licensed Professional Engineers on staff supported by a strong team of 24 licensed Engineering Interns (E.I.), Subject Matter Experts, CADD technicians and Construction Inspectors. Fenstermaker has focused on improving current conditions and developing new infrastructure to provide innovative, long-term solutions for over 35 years.

(7) Past performance by a person or firm on Parish contracts

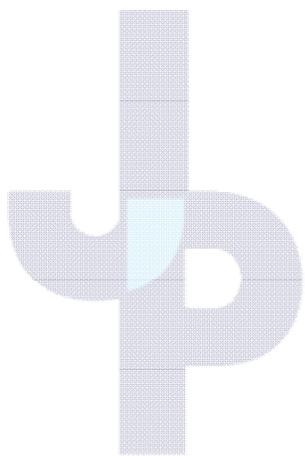
Fenstermaker has over 72 years of experience in South Louisiana and has performed services on projects for local governments for over 35 years, including engineering design, permitting, and agency coordination. We have provided services to the following public sector clients:

- City of New Orleans
- Lafayette Consolidated Government
- Calcasieu Parish Police Jury
- Cameron Parish Police Jury
- Acadia Parish
- Iberia Parish Government
- City of Scott
- Livingston Parish
- St. John the Baptist Parish
- Ascension Parish

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

Signature: Angelle Guilbeau Print Name: Angelle Guilbeau

Title: Director of Risk Management and Compliance Date: March 25, 2022



Jefferson
Parish
State of Louisiana

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 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:

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

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:

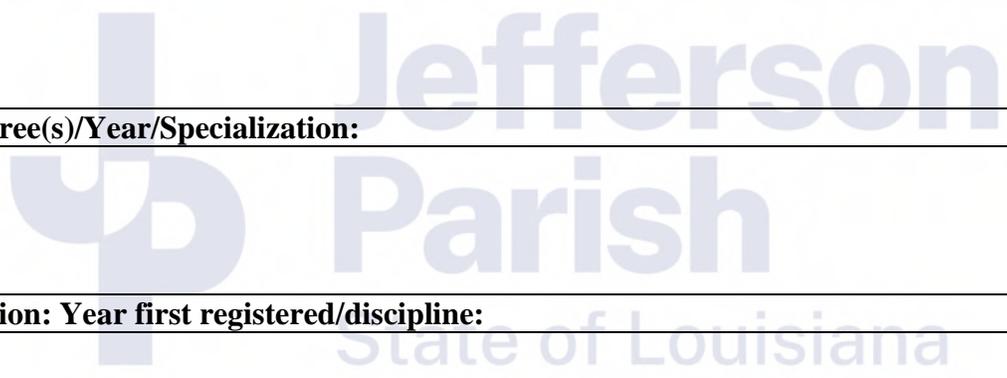
Education: Degree(s)/Year/Specialization:

Active registration: Year first registered/discipline:

Other experience and qualifications relevant to the proposed Project:

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:



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:

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:

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:

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:
	\$2,246,350.00	

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.

Jefferson Parish
State of Louisiana

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

Signature:  Digitally signed by Scotty Baudoin
DN: cn=Scotty Baudoin, o=M & E Consulting Inc.
ou, email=scotty@meconsulting.com, c=US
Date: 2022.03.08 16:04:23 -06'00' **Print Name:** _____

Title: _____ **Date:** _____

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name: Public Address:
M & E Consulting, Inc. 1304 Bertrand Drive, Suite F7
Lafayette, Louisiana 70506

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0002118	Active	01/07/1997	09/30/2023	Mr. Scotty James Baudoin # PE.0024710 - Active



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 3/23/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Scotty James Baudoin
102 Wildoak Circle
Lafayette, Louisiana 70503

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
Mr. Scotty James Baudoin		
License/Certificate Type - Number	Expiration Date	
PE.0024710	03/31/2023	
Status: Active		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

Fold Here

Cut Here

Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

Disclaimer

All information provided by LAPELS on this web page, and on its other web pages and internet sites, is made available to provide immediate access for the convenience of interested persons. While LAPELS believes the information to be reliable, human or mechanical error remains a possibility, as does delay in the posting or updating of information. Therefore, LAPELS makes no guarantee as to the accuracy, completeness, timeliness, currency, or correct sequencing of the information. Neither LAPELS, nor any of the sources of the information, shall be responsible for any errors or omissions, or for the use or results obtained from the use of this information. Other specific cautionary notices may be included on other web pages maintained by LAPELS.

If you need to make changes to your contact information, please choose one of the following options below:

Contact update for [Individuals and Firms](#)

License/Certificate Types:

EF = Engineering Firm

VF = Land Surveying Firm

CPD = Continuing Professional Development Sponsor/Provider

*PE = Professional Engineer

*PLS = Professional Land Surveyor

*EI = Engineer Intern

*LSI = Land Surveyor Intern

*PE Discipline Codes

AG	Agricultural	ME	Mechanical
AR	Architectural	MI	Mining or Mineral
CH	Chemical	MT	Metallurgical
CE	Civil	MU	Manufacturing
CS	Control Systems	NV	Naval Architecture & Marine
EE	Electrical & Computer	NU	Nuclear
EV	Environmental	ST	Structural *
FP	Fire Protection	PT	Petroleum
IE	Industrial		
* An engineer that has passed the Structural I exam is listed as a Civil Engineer. An engineer that has passed both the Structural I and II exams is listed as Structural (ST) and a Civil (CE) Engineer.			



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 3/23/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. David Patrick Carroll
102 Passage Drive
Lafayette, Louisiana 70506

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com
Mr. David Patrick Carroll	
License/Certificate Type - Number	Expiration Date
PE.0041691	09/30/2023
Status: Active	
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>	

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*PE = Professional Engineer

*PLS = Professional Land Surveyor

*EI = Engineer Intern

*LSI = Land Surveyor Intern

*PE Discipline Codes

AG	Agricultural	ME	Mechanical
AR	Architectural	MI	Mining or Mineral
CH	Chemical	MT	Metallurgical
CE	Civil	MU	Manufacturing
CS	Control Systems	NV	Naval Architecture & Marine
EE	Electrical & Computer	NU	Nuclear
EV	Environmental	ST	Structural *
FP	Fire Protection	PT	Petroleum
IE	Industrial		
* An engineer that has passed the Structural I exam is listed as a Civil Engineer. An engineer that has passed both the Structural I and II exams is listed as Structural (ST) and a Civil (CE) Engineer.			



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 3/23/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Connor E. Goss
200 Galaxy Street
Lafayette, Louisiana 70506

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
Mr. Connor E. Goss		
License/Certificate Type - Number	Expiration Date	
EI.0034689	03/31/2023	
Status: Active		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

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License/Certificate Types:

EF = Engineering Firm

VF = Land Surveying Firm

CPD = Continuing Professional Development Sponsor/Provider

*PE = Professional Engineer

*PLS = Professional Land Surveyor

*EI = Engineer Intern

*LSI = Land Surveyor Intern

*PE Discipline Codes

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AR	Architectural	MI	Mining or Mineral
CH	Chemical	MT	Metallurgical
CE	Civil	MU	Manufacturing
CS	Control Systems	NV	Naval Architecture & Marine
EE	Electrical & Computer	NU	Nuclear
EV	Environmental	ST	Structural *
FP	Fire Protection	PT	Petroleum
IE	Industrial		
* An engineer that has passed the Structural I exam is listed as a Civil Engineer. An engineer that has passed both the Structural I and II exams is listed as Structural (ST) and a Civil (CE) Engineer.			

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 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:
 SOQ 22-010 - Routine Engineering Services for Sewer Projects
 Resolution No. 138812

B. Firm Name & Address:
 Terracon Consultants, Inc.
 524 Elmwood Park Blvd., Suite 170
 New Orleans, LA 70123

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:
 Zack "Lem" Dial, P.E., Principal | Office Manager
 Terracon Consultants, Inc.
 524 Elmwood Park Blvd., Suite 170
 New Orleans, LA 70123
 Lem.Dial@terracon.com
 504.818.3638

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.
 Lizzy Stark, P.E., Professional Engineer, LA No. 44481
 Senior Staff Engineer
 Terracon Consultants, Inc.
 524 Elmwood Park Blvd, Suite 170
 New Orleans, Louisiana 70123
 P: 504-818-3638
 E: lizzy.stark@terracon.com

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

5 Administrative	___ Estimators	___ Specification Writers
___ Architects (Licensed)	___ Geologists	___ Structural Engineers
___ Chemical Engineers	2 Geotechnical Engineers	___ Graduate Engineers
___ Civil Engineers	___ Interior Designers	4 Project Managers
___ Construction Inspectors	___ Landscape Architects	___ Clerical
___ Ecologists	___ Land Surveyor	___ Grant/Funding Specialist
___ Electrical Engineers	___ Mechanical Engineers	___ Sanitary Engineers
1 Engineer Intern	3 Environmental Engineers	
___ Professional Land Surveyors		28 TOTAL

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

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

TEC Professional Services Questionnaire

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

1.
N/A

2.

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

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

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

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

28 _____

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:

Lynne Roussel, PE
Principal and Geotechnical Department Manager

Project Assignment:

Principal | Authorized Project Reviewer (APR)/Senior Technical Oversight

Name of Firm with which associated:

Terracon Consultants, Inc.

Years' experience with this Firm:

16.5 years

Education: Degree(s)/Year/Specialization:

Master of Science / 2005 / Geotechnical
Bachelor of Science / 2003 / Civil Engineering

Active registration: Year first registered/discipline:

2009 / Professional Engineer: LA (35152)

Other experience and qualifications relevant to the proposed Project:

Ms. Roussel has experience in a wide variety of field and engineering design projects during her time with Terracon. She has extensive experience with roadway, bridge, drainage and water projects. She has managed drilling operations for the Baton Rouge, Lake Charles, and New Orleans offices for several years and has served as Engineering Supervisor over the laboratory. She has also assisted in the monitoring of pile installation activities, settlement plate installation and monitoring, deep foundation load tests, piezometer installation, and vibrating wire piezometer installation and data recording. Her software experience includes the following software: PCSTABL6, GEOSLOPE, LPILE, DRIVEN, SHAFT, Shoring Suite, WINPAS and Darwin.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title: Lizzy Stark, PE Senior Staff Engineer
Project Assignment: Professional In Charge of the Project/Project Manager
Name of Firm with which associated: Terracon Consultants, Inc.
Years' experience with this Firm: 6
Education: Degree(s)/Year/Specialization: Bachelor of Science / 2015 / Civil and Environmental Engineering
Active registration: Year first registered/discipline: 2020 / Professional Engineer: LA (44481)
Other experience and qualifications relevant to the proposed Project: <p>Ms. Stark is a Senior Staff Engineer in Terracon's New Orleans, Louisiana Office. In this role, she has prepared reports with geotechnical recommendations, assigned laboratory testing, performed engineering calculations, and utilized various design software (APile, gINT, etc.). She also manages geotechnical and materials testing projects and monitors various aspects of construction quality control (QC) and quality assurance (QA). These projects have included retail developments, levee improvements and airport expansions.</p> <p>She has also acquired construction monitoring experience which includes soil testing, pile foundation installation logging, pile foundation load testing, pile integrity testing, foundation excavation inspection, field density testing, concrete testing, pervious pavement infiltration testing, pavement evaluation using PCI/PASER scoring, DCP and SCP testing of subgrade material, and seismic monitoring.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title: Angelica Moran, EI Staff Engineer
Project Assignment: Staff Engineer
Name of Firm with which associated: Terracon Consultants, Inc.
Years' experience with this Firm: 1 year (5 years total)
Education: Degree(s)/Year/Specialization: Bachelor of Science / 2015 / Civil Engineering
Active registration: Year first registered/discipline: 2017 - Engineering Intern - LA (33229)
Other experience and qualifications relevant to the proposed Project: Ms. Moran assists geotechnical engineers with performing subsurface explorations which includes performing in-place density tests, setting up and running static pile load tests, logging piling, and monitoring vibrations. She has worked on various types of geotechnical projects, which have varied from residential to heavy industrial. She has also prepared geotechnical reports containing recommendations for soil bearing capacity, settlement, pile capacities, rigid and flexible pavement design, material requirements, and site preparation. In the laboratory, she also performed aggregate and soil testing such as grain size analysis, soil classification, specific gravity, unconfined compression tests, compaction tests, Atterberg limits, hydrometer analyses, triaxial compression tests, etc. She has planned testing methodology and performed tests to determine engineering criteria to be used in analyses for determining settlement, shallow foundations and deep foundations.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title: Eric B. Bellard Laboratory Supervisor
Project Assignment: Laboratory Supervisor
Name of Firm with which associated: Terracon Consultants, Inc.
Years' experience with this Firm: 11 years
Education: Degree(s)/Year/Specialization: N/A
Active registration: Year first registered/discipline: N/A
Other experience and qualifications relevant to the proposed Project: <p>Eric has over 11 years of experience in the construction materials field as an American Concrete Institute (ACI) certified Construction Materials Technician. In this role, he monitors various aspects of construction quality control (QC) and quality assurance (QA). Projects have included retail developments, hospital and medical office building developments, levee improvements and school additions.</p> <p>The construction monitoring experience Eric has acquired includes earthwork observations, soil moisture content and density testing, driven pile foundation installation logging, auger-cast pile installation monitoring, grout field testing, concrete compressive strength field testing, concrete observations, sample testing and seismic monitoring.</p> <p>Mr. Bellard has over seven years of soil laboratory experience. He currently serves as Lab Supervisor where he performs testing which includes proctors, Atterberg limits, specific gravities, soil and aggregate gradations, organic contents, and moisture contents. He also performs compressive strength testing on all concrete cylinders, grout prisms, and mortar cubes.</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:	
Patti Road Lift Station Hammond, LA Spangler Engineering 214 SW Railroad Ave. Hammond, LA 70403 Webb Anderson webb@spanglerengineering.com ph: (985) 542-8681	Terracon provided field exploration, laboratory testing, and engineering/project delivery services for the lift station on Patti Road in Hammond, LA.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
02/2020 (A)	N/A	\$2,600

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Bedico Lift Stations Hammond, LA Spangler Engineering 214 SW Railroad Ave. Hammond, LA 70403 Webb Anderson webb@spanglerengineering.com ph: (985) 542-8681	Terracon provided field exploration, laboratory testing, and engineering/project delivery services for the Bedico lift station in Hammond, LA.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
08/2019(A)	N/A	\$6,700

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
Monroe WWTP Monroe, LA Burns & McDonnell Engineering 9400 Ward Parkway Kansas City, MO 64114 Michael DeStigter mdestigter@burnsmcd.com ph: (816) 823-7828	Terracon provided field exploration, laboratory testing, and engineering/project delivery services for a wastewater treatment plant in Monroe, LA.	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
10/2019 (A)	N/A	\$28,600

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Hammond Wastewater Treatment Plant Hammond, LA Spangler Engineering 214 SW Railroad Ave. Hammond, LA 70403 Webb Anderson webb@spanglerengineering.com ph: (985) 542-8681	Terracon provided field exploration, laboratory testing, and engineering/project delivery services for a wastewater treatment plant in Hammond, LA.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
05/2019 (A)	N/A	\$6,200

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
W. 11th Ave. Bridge Replacement City of Covington Sub to: T. Baker Smith, LLC 1100 South Acadia Road Thibodaux, LA 70301 Paul Olivier Paul.Olivier@tbsmith.com ph (985) 446.7970	Terracon provided field exploration, laboratory testing, and engineering/project delivery services for the bridge replacement project over Mile Branch in Covington, LA.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
12/2018 (A)	N/A	\$7,400

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
YCI Hwy. 3127 and Sidney Road Turnlane Additions St. James, LA WSP USA, Inc. 13530 Dulles Technology Dr. Herndon, VA 20171 Christi Fragale christi.fragale@wsp.com	Terracon provided field exploration, laboratory testing, and engineering/project delivery services for the project that consists of the addition of turn lanes along the northbound and southbound lanes of LA-3127 at its intersection with Sidney Road. The turn lanes will be accommodated by widening the existing roadway along the shoulder and green areas. The length of the proposed widening alignment is 1,820 feet.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
01/2018 (A)	N/A	\$7,750

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
JPRD Saints Dr. Girls Complex Metairie, LA Meyer Engineers Ltd. 4937 Hearst St Ste 1B Metairie, LA 70001-1174 Terri Dupre tdupre@meyer-e-l.com ph: (504) 885-9892	Terracon provided geotechnical engineering services including subsurface exploration and geotechnical engineering for improvements to two existing softball fields.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2021	N/A	\$2,500

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Bucktown Marina Boardwalk Jefferson Parish, LA Jefferson Parish 834 S. Clearview Parkway Harahan, LA 70121 Lauren Avrill LAavrill@jeffparish.net (504) 731-4625	Terracon provided geotechnical services for a new 900-foot linear alignment of a pedestrian boardwalk at the Bucktown Marina. The boardwalk is located at the edge of the marina over open water. Terracon performed geotechnical soil borings utilizing a marsh-buggy mounted drill rig. We also performed laboratory testing and provided geotechnical recommendations for driven timber piles including uplift and lateral capacity. Terracon also provided deep foundation installation observation services during construction.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018	N/A	\$20,000

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Bucktown Outdoor Classroom Bucktown Marina Jefferson Parish, LA</p> <p>Jefferson Parish 1221 Elmwood Park Blvd., Suite 310 Jefferson, LA 70123</p> <p>Michelle Gonzales mgonzales@jeffparish.net (504) 736-6653</p>	<p>Terracon conducted field exploration, laboratory testing and provided engineering/project delivery for the proposed outdoor classroom with a footprint of about 28,000 square feet. The classroom included elevated platforms, access ramps, and embankment located at an undeveloped recreational area at a man-made marina.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2021	N/A	\$9,950

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Vineyard Road Bridge</p> <p>Spangler Engineering 214 SW Railroad Ave. Hammond, LA 70403</p> <p>Webb Anderson webb@spanglerengineering.com ph: (985) 542-8681</p>	<p>Terracon conducted field exploration, laboratory testing and provided engineering/project delivery for the replacement of an existing timber bridge with a three (3) span, precast concrete bridge supported on precast prestressed concrete (PPC) piles at Vineyard Road Bridge over Skulls Creek in Hammond, LA.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
10/2017	N/A	\$9,000

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		
2.		
3.		
4.		

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

See attached.

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

Signature: *Zack "Lem" Dial* Print Name: Zack "Lem" Dial, P.E.
 Title: Principal | Office Manager Date: 3/11/2022

7. Brief Resume of Key Persons, Specialist, and Individual Consultants anticipated for this project.

a. Name and Title	
Lynne Roussel, PE Principal and Geotechnical Department Manager	
b. Project Assignment:	
Principal In Charge Senior Technical Oversight	
c. Name of Firm with which associated	
Terracon Consultants, Inc.	
d. Years experience:	
With This Firm	16.5
With Other Firms	0.0
e. Education: Degree(s)/Year/ Specialization	
Master of Science / 2005 / Geotechnical Bachelor of Science / 2003 / Civil Engineering	
f. Active Registration: Year First Registered/Discipline	
Year First Registered:	2009
Branch:	Professional Engineer, Civil - LA (35152)
g. Other Experience and Qualifications relevant to the proposed project:	
<p>Bucktown Outdoor Classroom, Jefferson Parish, LA Ms. Roussel served as senior technical reviewer for the geotechnical project that included field exploration, laboratory testing and engineering.</p> <p>I-10 to LA-1 Connector 30% Design, Port Allen, LA Ms. Roussel served as the Project Manager for 30% design plans for a proposed new connector between I-10 and LA-1 in West Baton Rouge Parish. The extension included two bridges and two miles of new roadway. Bridges over an existing railroad and the Intracoastal Canal were included. An evaluation of a possible retained earth embankment was included.</p> <p>LA Department of Transportation Geotechnical Retainer Contract, LA Ms. Roussel serves as the contract manager and Project Reviewer for the retainer contract for services. The contract value is \$4 Million.</p> <p>Interstate 12 Widening, East Baton Rouge and Livingston Parishes, LA Ms. Roussel provided engineering services for this major Interstate highway improvement. The project consists of the widening of Interstate 12 to six lanes from O'Neal Lane eastward in both East Baton Rouge and Livingston Parishes. DOTD.</p> <p>Cyprien Pump Station - Raceland, LA Ms. Roussel served as project manager for this project. Terracon was retained to conduct a geotechnical investigation for a new pump station in the city of Raceland. Terracon developed nominal capacity and established resistance factors for foundations for the design and construction of the structures.</p>	

LA DOTD Off-System Bridge Program, Throughout Louisiana Ms. Roussel served as the project manager for these projects. Terracon has enjoyed the opportunity to provide geotechnical drilling, laboratory testing, and engineering support for several bridges designated for replacement under the Louisiana Department of Transportation and Development Off-System Bridge Program. For each bridge, Terracon has served as a sub-consultant for a civil engineering firm selected by Louisiana DOTD to design the new bridge. In each case, the project civil engineer has provided all additional engineering and land surveying required to perform topographic surveys and hydraulic studies and prepared the preliminary and final roadway and bridge plans. Terracon has completed geotechnical investigations for bridges throughout Louisiana and in a variety of geologic settings. For each project, Terracon developed a scope of work according to the Louisiana DOTD Bridge Manual. In most cases, the scope of work included two soil borings to 100 feet per bridge, with one boring being completed at each end of the existing bridge. For longer bridges, additional borings were added at proposed abutment locations. Following DOTD specifications, continuous samples were collected in the upper 10', and on maximum 5' intervals thereafter, unless a potential non-cohesive bearing stratum was identified at depth, in which case the sequence was reduced to maximum 3' intervals. For each project, Terracon developed pile capacity charts from the data using the FHWA Driven™ computer routine. These projects serve as evidence of Terracon's experience with implementing projects using DOTD protocols and continued excellence on transportation projects for a variety of clients and in a variety of regions.

Pump Station 42 Force Main - Baton Rouge, LA
Ms. Roussel served as project manager for this project. Terracon was retained to conduct a geotechnical investigation for a new force main to be constructed in East Baton Rouge Parish, Louisiana. The project included the design of a new force main route from Pump Station 42 near the Central Wastewater Treatment Plant to the South Wastewater Treatment Plant.

South Vacherie Wetlands Assimilation Project - Vacherie, LA
Ms. Roussel served as Project Manager for St. James Parish's proposed project to install an oxidation pond South of LA 20 near Bayou Cheuvril Road in Vacherie, Louisiana. The project included four aeration and equalization basins along with associated equipment pads. The basins will be lined with an HDPE liner system.

Colyell Creek Drainage Improvements - Livingston Parish, LA - Ms. Roussel served as the project manager on this project. Terracon was retained to provide recommendations for site preparation and slope stability analysis for widening and realignment of approximately 2.2 miles of Colyell Creek from Florida Boulevard to Buddy Ellis Road. The scope included several borings along the alignment and preparation of slope stability models to validate the planned new creek bank geometry.

Maringouin Outfall Drainage Improvements - Grosse Tete, La Ms. Roussel served as project manager on this project. Terracon was retained to provide recommendations for installation of a 72-inch culvert and catch basins within an existing open channel along Winstock lane in Bayou Grosse Tete. Project included recommendations for installation of a flexible concrete revetment system along portions of the channel.

7. Brief Resume of Key Persons, Specialist, and Individual Consultants anticipated for this project.

a. Name and Title	
Lizzy Stark, PE Senior Staff Engineer	
b. Project Assignment:	
Project Manager Professional in Charge of Project	
c. Name of Firm with which associated	
Terracon Consultants, Inc.	
d. Years experience:	
With This Firm	6
With Other Firms	0.0
e. Education: Degree(s)/Year/ Specialization	
Bachelor of Science / 2015 / Civil and Environmental Engineering	
f. Active Registration: Year First Registered/Discipline	
Year First Registered:	2020
Branch:	Professional Engineer, Civil – LA (44481)
g. Other Experience and Qualifications relevant to the proposed project:	
<p>Ms. Stark is a Senior Staff Engineer in Terracon’s New Orleans, Louisiana Office. In this role, she has prepared reports with geotechnical recommendations, assigned laboratory testing, performed engineering calculations, and utilized various design software (APile, gINT, etc.). She also manages geotechnical, and materials testing projects and monitors various aspects of construction quality control (QC) and quality assurance (QA). These projects have included retail developments, levee improvements and airport expansions.</p> <p>She has also acquired construction monitoring experience which includes soil testing, pile foundation installation logging, pile foundation load testing, pile integrity testing, foundation excavation inspection, field density testing, concrete testing, pervious pavement infiltration testing, pavement evaluation using PCI/PASER scoring, DCP and SCP testing of subgrade material, and seismic monitoring.</p> <p>JPRD Saints Dr. Girls Complex, Jefferson Parish, LA (2021) Ms. Stark served as senior staff engineer for the subsurface exploration and geotechnical engineering for improvements to two existing softball fields.</p>	

Jefferson Parish - Various Locations | Jefferson Parish, Louisiana (2019-current) For Jefferson Parish, Terracon provides construction materials observation and testing services of various roadway and public infrastructure projects. Ms. Stark is the Project Manager for these projects which include laboratory testing of pavement subbase and base course materials, compaction testing of pavement subbase and base courses at the site, concrete testing, and sampling during placement of pavement, curbs and sidewalks, laboratory testing of concrete test cylinders for compressive strength, and testing and pile logging during installation of deep foundations.

Bucktown Outdoor Classroom, Jefferson Parish, LA (2021)
Ms. Stark served as project manager for the geotechnical project that included field exploration, laboratory testing and engineering. She provided project management/supervision and attended client meetings.

Black River Drive Bridge, Madisonville, LA (2021)
Ms. Stark served as the project manager for this bridge replacement project which involved installation of PCC piles. Terracon provided consulting and construction monitoring for this project, including Pile Dynamic Analysis (PDA). The services provided included WEAP analysis, initial and restrrike PDA during driving of monitor piles, and observation of pile installation.

Canal Street Development, New Orleans, LA (2021)
This project consisted of the proposed construction of a new 12-story building. Ms. Stark developed a subsurface profile and provided recommendations for deep foundation options including pile settlement, drag load, downdrag and group effect considerations. She also developed site preparation, excavation, and fill material recommendations.

City of New Orleans - Various Locations, New Orleans, LA (2017-current) For the City of New Orleans’ Department of Public Works, Terracon provides construction materials observation and testing services of various roadway rehabilitation projects. Ms. Stark is the Project Manager for these projects which include laboratory testing of trench backfill and pavement subbase and base course materials, compaction testing of trench backfill and pavement subbase and base courses at the site, observation of subgrade soils during proof rolling operations, concrete testing and sampling during placement of pavement, curbs and sidewalks, laboratory testing of concrete test cylinders for compressive strength, and testing and observation of asphalt material properties on site and at the batch plant.

Montz Area Pump Stations – Montz, LA, 2021-2022
This project consisted of construction of two new pump stations including excavation of detention basins, pile-supported structural slab sumps with cast in place walls and equipment structures, and discharge pipes crossing under the state highway and then over the USACE’s Bonnet Carre’ Spillway (BCS) Upper Guide Levee and finally onto a concrete discharge apron. Terracon’s scope of work included deep foundation recommendations (including pile capacity curves and PY, TZ and QZ curves) pipe support foundation bearing capacities, slope stability analysis of sides of proposed embankments and excavations, global stability analysis of proposed retaining walls and excavations utilizing slope and method of planes, and seepage analysis. Ms. Stark served as project manager for these services and provided analysis and recommendations.

7. Brief Resume of Key Persons, Specialist, and Individual Consultants anticipated for this project.

a. Name and Title	
Anjelica Moran, EI Staff Engineer	
b. Project Assignment:	
Staff Engineer	
c. Name of Firm with which associated	
Terracon Consultants, Inc.	
d. Years experience:	
With This Firm	<1
With Other Firms	5
e. Education: Degree(s)/Year/ Specialization	
Bachelor of Science / 2015 / Civil Engineering	
f. Active Registration: Year First Registered/Discipline	
Year First Registered:	2017
Branch:	Engineering Intern - LA (33229)
g. Other Experience and Qualifications relevant to the proposed project:	
<p>Bucktown Outdoor Classroom, Jefferson Parish, LA (2021) Ms. Moran served as staff engineer for the geotechnical project that included field exploration, laboratory testing and engineering. She reviewed logs, samples and data and assisted with analysis and design.</p> <p><i>***All projects below were performed with a previous employer***</i></p> <p>Carmelite Pump Station & Drainage Improvements, Jones Point, LA (03/21 – 06/21) Geotechnical Engineer. The project will consist of constructing a new Carmelite Pump Station at the west end of Carmelite St., in Jones Point, LA. This project will also include the installation of new subsurface drainage and will extend approximately 2,000 linear feet. Relevant Soils Laboratory Testing included: Atterberg Limits, Unconfined Compression Tests, Unit Weight Determination, Natural Moisture Content, Percent Passing the No. 200 Sieve. Geotechnical Engineering Analysis included: Estimates of Settlement, Sheet Pile Wall Analysis, Bedding and Backfill Recommendations and General Construction Procedures and Recommendations.</p>	

PROJECT EXPERIENCE
<p>Woodmere Playground Expansion (Phase 1), Harvey, LA (01/21 – 03/21) Geotechnical Engineer. The project will consist of the expansion of the existing Woodmere Playground to include a (2) two-story Concession Stand and Press Box, two (2) Picnic Pavilions, and an Airnasium. A new Parking Lot will be constructed to have 58 parking spaces. The Parking Lot will be constructed with flexible (asphalt) pavement.</p> <p>The geotechnical investigation consisted of seven (7) undisturbed soil test borings. Three (3) undisturbed soil test borings were performed to the 75 ft depth below the existing ground surface in the general area of the proposed Expansion. Four (4) undisturbed soil boring were performed to the 6 ft depth below the existing ground surface in the area of the proposed Parking Lot.</p> <p>Gloria Dr. Pump Station, Generator Facility and Bulkhead, Lafitte, LA (02/21 – 06/21) Geotechnical Engineer. The project will consist of constructing a new Pump Station and elevated Generator Facility located between the east end of Gloria Dr. and Treasure St., in Lafitte, LA. The project will also consist of repairing or replacing the existing timber Bulkhead. The geotechnical investigation consisted of one (1) undisturbed soil boring performed to the 100 ft depth below the existing ground surface in the general area of the proposed Gloria Drive Pump Station, Generator Facility and Bulkhead. Relevant Soils Laboratory Testing included: Atterberg Limits, Unconfined Compression Tests, Unit Weight Determination and Natural Moisture Content. Geotechnical Engineering Analysis included: Deep Foundation Analysis, Allowable Pile Load Capacities, Estimates of Settlement, Flexible Pavement Recommendations and General Construction Procedures and Recommendations.</p> <p>Lower Harvey Canal Crossing - Harvey, LA (03/19 – 07/20) Geotechnical Engineer. The project will consist of constructing dual bridge structures that will include three (3) lanes of traffic in each direction. The project will have design elements to include a fixed bridge, a bascule bridge, a roadway, various canal crossings and bridge lighting. The geotechnical investigation included forty-seven (47) undisturbed soil test borings. Four (4) undisturbed soil borings were drilled to the 165 ft. depth, twenty-four (24) undisturbed soil borings were drilled to the 150 ft. depth, two (2) undisturbed soil borings were drilled to the 120 ft. depth, two (2) undisturbed soil borings were drilled to the 100 ft. depth, one (1) undisturbed soil boring was drilled to the 70 ft. depth, and fifteen (15) undisturbed soil borings were drilled to the 6 ft. depth. All soil borings were drilled below the existing ground surface in the general area of the proposed alignment of the Lower Harvey Canal Crossing. Relevant Soils Laboratory Testing included: Atterberg Limits, Unconfined Compression Tests, Natural Moisture Content, Unit Weights. Geotechnical Engineering Analysis included: Characterize Subsurface Conditions, Highlight Constructability Issues, Pavement Recommendations, Pavement Thickness, Slope Stability Analysis, Fill Construction Near Bridge Approaches, Recommendation for Embankment Construction and General Construction Procedures and Recommendations.</p>

7. Brief Resume of Key Persons, Specialist, and Individual Consultants anticipated for this project.

a. Name and Title		<p>Bucktown Marina Boardwalk, Jefferson Parish, LA (2018) Mr. Bellard served as laboratory supervisor/technician for the laboratory testing and provided geotechnical recommendations for driven timber piles for the proposed new 900-foot pedestrian boardwalk.</p> <p>JPRD Saints Dr. Girls Complex, Jefferson Parish, LA (2021) Mr. Bellard served as laboratory supervisor for the subsurface exploration and geotechnical engineering for improvements to two existing softball fields.</p> <p>City of New Orleans Gravier Street Project, New Orleans, LA For the City of New Orleans' Department of Public Works, Terracon provided construction materials observation and testing services of Gravier Street from S. Galvez to S. Broad Street. This project includes laboratory testing of trench backfill and pavement base course materials, compaction testing of trench backfill and pavement base course at the site, observation of subgrade soils during proof rolling operations, concrete testing and sampling during placement of curbs and sidewalks, laboratory testing of concrete test cylinders for compressive strength, and testing of asphalt material properties at the batch plant.</p> <p>Lakefront Airport T-Walls, New Orleans, LA: For the \$12.5MM LPV 105.01 Lakefront Airport T-Walls contract, Terracon provided vibration monitoring, soil density testing, and concrete testing. The project was designed to upgrade hurricane protection and storm proofing for the Lakefront Airport. Approximately 1,900 feet of T-wall, plus a vehicle gate at Downman Road was included. While the technical aspects of the Lakefront project were considered routine for our experienced staff and USACE-Certified laboratory operation, the project did present certain logistical challenges. Mr. Bellard performed concrete observation and testing, earthwork observations, soil density and moisture content testing. Also performed laboratory testing including Atterbergs, organic contents, proctors, and gradations. Four technicians were performing vibration monitoring as four cranes and pile driving rigs were operating at the same time. Another technician was required for monitoring soil compaction and concrete placement.</p> <p>SELA 10 Maronne Canal Improvements, Destrehan, LA: Mr. Bellard performed concrete observation and testing, earthwork observations, soil density and moisture content testing on this USACE project. He also provided laboratory testing which included Atterbergs, organic contents, proctors, and gradations. Terracon worked for the contractor, Fleming Construction, performing QC duties.</p> <p>Sewerage & Water Board of New Orleans, Contract 3695, New Orleans, LA: This project consisted of the re-construction of city streets for the city of New Orleans. Mr. Bellard Performed on-going earthwork observations, soil density and moisture content testing.</p>
Eric B. Bellard Laboratory Supervisor Construction Materials Technician		
b. Project Assignment:		
Laboratory Supervisor Construction Materials Technician		
c. Name of Firm with which associated		
Terracon Consultants, Inc.		
d. Years experience:		
With This Firm 11	With Other Firms 0	
e. Education: Degree(s)/Year/ Specialization		
N/A		
f. Active Registration: Year First Registered/Discipline		
Year First Registered:	N/A	
Branch:	N/A	
g. Other Experience and Qualifications relevant to the proposed project:		
<p>Mr. Bellard is a Construction Materials Technician in Terracon's New Orleans, Louisiana Office. He has over 11 years of experience in the construction materials field as an American Concrete Institute (ACI) certified Construction Materials Technician. In this role, he monitored various aspects of construction quality control (QC) and quality assurance (QA). These projects have included retail developments, hospital and medical office building developments, levee improvements and school additions.</p> <p>Mr. Bellard has over 8 years of soil laboratory experience. He currently serves as Lab Supervisor where he performs testing which includes proctors, Atterberg limits, specific gravities, soil and aggregate gradations, organic contents, and moisture contents. He also performs compressive strength testing on all concrete cylinders, grout prisms, and mortar cubes.</p> <p>Bucktown Outdoor Classroom, Jefferson Parish, LA (2021) Mr. Bellard served as laboratory supervisor/technician for the laboratory testing. He performed laboratory soil tests.</p>		

10. Use this space to provide any additional information or description of resources (including any computer design capabilities) supporting your firm's qualifications for the proposed project:

1. Professional training and experience in relation to the type of work required for soils investigation services

Geotechnical Engineering Overview



Design and construction of functional, cost-effective structures require a thorough understanding of local soil, rock, and groundwater conditions. Terracon provides a wide range of services to support all phases of a project, from preliminary design through completion of the building process.

Each local Terracon office, with access to the extensive geotechnical experience and expertise of engineers, geologists, and soils technicians throughout our company, can help to assess the risks associated with subsurface conditions. We participate as a vital member of the project team, focusing on project objectives and using innovative technologies to provide practical design recommendations. Our culture, systems, and structure enable us to excel at both small and large projects.



Our geotechnical projects have included:

- Subsurface drilling and testing
- Foundation analysis and design
- In-situ testing and performance monitoring
- Earth structures, slopes, and retention systems
- Dynamic analysis and evaluation
- Soil stabilization and ground improvement
- Groundwater control
- Pavement design and subgrade evaluation

With more than 350 geotechnical engineers and one of the largest drilling fleets in the country, Terracon is well positioned to deliver quality, responsive, and cost-effective geotechnical engineering services, regardless of project size.

Key Project Staff

With more than 350 geotechnical engineers and one of the largest drilling fleets in the country, Terracon is well positioned to deliver quality, responsive, and cost-effective geotechnical engineering services, regardless of project size. We have assembled a local team that understands how to be responsive, reliable, and resourceful, while effectively meeting the demands of the project scope and work schedule. Our Team offers sound technical skills, a significant amount of project experience, and in addition, has successfully provided these services on similar projects with aggressive and demanding schedules. Detailed resumes for all Terracon personnel are provided in Section K of the TEC Form. Our key personnel on this proposal are listed below.



Lynne Roussel, PE will serve as the **Principal-In-Charge** and provide **Technical Oversight** for this contract. Lynne is an experienced geotechnical engineer with 16.5 years of experience in all aspects of geotechnical projects including field investigations, managing drilling operations, and serving as engineering supervisor over the geotechnical laboratory. Lynne is the Geotechnical Department Manager.



Pavement costs represent a significant portion of the total construction and maintenance budget for many public and private projects. If delayed, relatively low-cost maintenance efforts will result in more expensive future rehabilitation.

10. Use this space to provide any additional information or description of resources (including any computer design capabilities) supporting your firm's qualifications for the proposed project:



Lizzy Stark, PE will serve as the **Project Manager and Professional In Charge** for work done on this contract. With over six years of soil investigative services and geotechnical experience, Lizzy has managed various roadway and public infrastructure projects for Jefferson Parish. She has also managed other bridge and roadway projects for the City of New Orleans. She is familiar with local soils and experienced with developing subsurface profiles and providing recommendations for deep foundation options including pile settlement, drag load, downdrag and group effect considerations if the project requires it. She has also developed site preparation, excavation, and fill material recommendations. She will represent Terracon at progress meetings, oversee the coordinate drilling activities, assign laboratory testing, review and approve field reports, and coordinate field personnel for this project. She is a highly dedicated Project Manager and will ensure that Terracon exceeds the expectations of Jefferson Parish.



Eric Bellard is **Laboratory Supervisor** and engineering technician with more than 11 years of experience in materials testing and Special Inspections. He currently serves as Lab Supervisor where he performs testing which includes proctors, Atterberg limits, specific gravities, soil and aggregate gradations, organic contents, and moisture contents. He also performs compressive strength testing on all concrete cylinders, grout prisms, and mortar cubes. He will oversee all laboratory testing under this contract.

Pavement Engineering

Terracon's pavement evaluation, design, preservation management, and construction management experience provides needed expertise to meet pavement lifespan challenges. From site selection, through environmental challenges, site design, and construction phases, Terracon is here to guide you each step of the way. Pavement projects typically include the following tasks:

Evaluation

Terracon uses technologies in field drilling and evaluation, laboratory testing, and both visual and geophysical surface condition assessments to provide accurate results. We can provide the most cost-effective recommendations intended to support decision making during the design process and long-term planning for many types of pavement projects.

- **Subsurface Soil Evaluation:** Soil properties are fundamental to pavement, foundation, and drainage design. Terracon offers a full range of drilling, sampling, and coring equipment.
- **Material Evaluation:** Dynamic Cone Penetration testing for subgrade support characterization and a suite of laboratory tests for determining material properties.
- **Existing Surface Evaluation:** Paving surfaces may consist of concrete, asphalt, or both. Evaluation of the existing pavement and distresses are performed using ASTM methods.

Design

Geotechnical design requires knowledge of the soil conditions and how they vary across the project site. We do not drill soil borings to evaluate the soil properties, but rather to assess their impact on the design of the overall project. We make the Owner, designer, and Contractor aware of the risks associated with the subsurface conditions and recommend cost efficient designs to manage those risks.

Preservation Management

Performing pavement condition surveys to forecast future pavement condition and lifespan are critical to reducing the impact on future budgets and reducing the need to perform disruptive re-construction. We prepare work plans to extend pavement life, optimize pavement expenditures, and manage pavement maintenance programs. The client can then make informed decisions and remove the guessing game associated with short- and long-term pavement management.

10. Use this space to provide any additional information or description of resources (including any computer design capabilities) supporting your firm's qualifications for the proposed project:

Construction Management

Once the path forward has been determined, proper pavement management plan execution is paramount. Terracon provides the owner the peace of mind the construction/maintenance of their pavement investments will be done correctly and efficiently. From construction administration to materials testing, Terracon provides construction management services from project start to finish.

Drilling Operations

Terracon maintains a fleet of approximately 120 drill rigs that can be mobilized from many locations throughout the United States. All drilling supervisors and drill crew members are trained in drill rig operation, safe operating procedures, and basic first aid. Drill crew members who participate in hazardous waste site operations projects are also trained in accordance with the OSHA Hazardous Waste Site Operations and Emergency Response standard (OSHA 29 CFR 1910.120) which requires an initial 40-hour safety training course and annual safety refresher training. Baseline and annual medical surveillance examinations are also required for such personnel.

Drill rigs mounted on trucks and all-terrain vehicles are available to perform subsurface exploration borings and sampling. Terracon offers many methods of subsurface sampling and data acquisition to meet client needs. Our engineers and field crews have experience with many types of specialized field testing, including pressure meter, borehole shear, and packer testing.

In-situ Testing

The geotechnical properties of soil and rock have conventionally been determined by drilling, sampling, and performing laboratory testing on the samples retrieved. However, advanced "in-situ" testing methods are now available. These measure various properties of subsurface materials directly in their natural "undisturbed" environment, avoiding the effects of sample disturbance, therefore providing more reliable and significantly improved soil design parameters. The test methods are also cost-effective and provide a faster, more detailed subsurface characterization than can be achieved with conventional drilling and sampling alone.

Cone Penetration Test (CPT)

The cone penetration test device consists of a cylindrical, high-strength steel probe with a conical tip. The probe also has a porous filter and an isolated sleeve section immediately above the tip. Electronic sensors measure tip resistance, pore water pressure, and sleeve friction as the probe is pushed into the ground at a steady rate of about an inch per second. A computerized system tracks penetration rate and depth, automatically recording sensor data at set intervals usually every 1 to 2 centimeters. The measured CPT data can be used to evaluate soil types, detailed stratigraphy, ultimate and residual shear strength, friction angle, relative density, and permeability. The digital data can be readily analyzed to predict footing and pile capacities, settlement, and slope stability. The probe can also be equipped with geophones to periodically measure down-hole arrival time of seismic shear-waves induced at the ground surface. This produces a subsurface profile of soil shear-wave velocity useful for seismic analyses.

Menard Pressuremeter (PMT)

The Menard pressuremeter is a cylindrical down-hole hydraulic probe that measures volumetric radial expansion versus increasing outward lateral pressure. The instrument is used for determining in-place soil and rock characteristics, directly relating strength and compressibility to foundation bearing capacity and settlement. The pressuremeter can also be used to supplement conventional testing and sampling. It is particularly beneficial in testing soil and rock formations in which standard sampling and testing procedures have been marginally effective. Testing with the pressuremeter has commonly permitted the use of higher design bearing pressures than could have been considered by analysis of data obtained from conventional testing and sampling methods. Also, more realistic settlement predictions can be provided.

Applications in which pressuremeter testing can be used include:

- Foundation bearing capacity and settlement * Quality control tests

10. Use this space to provide any additional information or description of resources (including any computer design capabilities) supporting your firm's qualifications for the proposed project:

- Pile friction * Evaluation of soil and/or rock beneath existing foundations
- Lateral resistance of foundations * Testing in interbedded sand, silt, and clay soils
- Lateral earth pressure coefficient determinations * Testing in soft rock and residual soils
- Uncontrolled fill evaluation * Testing of waste as a bearing material

In-Situ Vane Shear Test (VST)

The vane shear test is performed by pushing a 4-bladed vane into the soil and applying torque until the soil shears cylindrically around the vane. The torque is increased at a controlled rate until the soil shears. The vane is then rotated ten times and the "re-molded" shear strength is also measured. This is one of the more representative and reliable means of evaluating the Undrained Shear Strength, S_u , of cohesive soils. The VST often shows that the true strength of the most sensitive soils is significantly higher than can be determined in the laboratory by even the best sampling methods possible. By performing the VST in combination with Cone Penetration Tests, reliable factors can determine the correlation of the continuous CPT data to shear strength.

Laboratory Services

Terracon owns, operates, and maintains more than 130 construction materials and geotechnical laboratories across the U.S. Our laboratories are equipped to perform a wide variety of tests while following strict internal guidelines to deliver the most thorough and reliable data possible. In addition to routine material property testing, we also provide advanced shear strength, swell/consolidation, petrographic, steel, wood, geosynthetics, and rock mechanics test data to meet testing needs for even the most complex structures. We continually apply new technologies to improve and expedite our services to solve your project challenges in a timely, reliable, and cost-effective manner. Our trained and certified staff of testing personnel are supported by fully supplied, technologically advanced laboratories that have been accredited and validated by third party agencies to include AASHTO, AMRL, CCRL, USACE, A2LA, CMEC & NVLAP. Each of our laboratories have implemented and operate under the strict guidelines set by Terracon's Quality Management System.

- **Soils:** Laboratory tests are performed to define soil properties and identify those soils that do not conform to project specifications. For moisture content, strength, and stability, the early identification of issues helps avoid future problems and allows for the correction of problems during construction. Tests include laboratory compaction characteristics of soil, plasticity index, gradation, organic content, classification, swell pressure unconfined compressive strength, and corrosion index testing.
- **Concrete and Masonry:** New criteria for concrete and masonry construction are evolving on a continual basis. Terracon routinely performs design mixes for concrete, mortar, and grout to satisfy the project specifications. Compression and flexural tests are typically performed on hardened concrete cylinders and beams, mortar and grout cubes, and masonry units. Petrographic analysis, drying shrinkage of Portland cement concrete mixes, chloride ion content, rapid chloride ion permeability, freeze-thaw durability, and efflorescence tests can also be performed.
- **Asphalt:** Modern construction practices involving asphalt require consideration of such factors as durability, adaptability to fast-track construction, and proper performance under specialized applications. Asphalt concrete mixes can be designed using local materials that best fit roadway and airport needs. The optimum mix design is determined through Superpave, Marshall, or Hveem test methods, as well as laboratory testing of aggregate properties, extraction, and gradation.
- **Aggregates:** Aggregate quality is established and monitored by performing such laboratory tests as gradation analysis, specific gravity, absorption, soundness, freeze-thaw, abrasion, deleterious substances, and acid solubility.

2. Capacity for timely completion of newly assigned work, considering the factors of current unfinished workload, and person or firm's available professional and support personnel

10. Use this space to provide any additional information or description of resources (including any computer design capabilities) supporting your firm's qualifications for the proposed project:

Currently, Terracon is operating at a capacity represented by approximately 60 percent chargeability on a company-wide basis. With our structure and company philosophy of sharing available resources, we can increase our capacity to approximately 80 percent chargeability. Terracon's ability to quickly expand our capacity relies on two practices that provide significant competitive advantages for the company.

- First, we have built-in systems to share work between all our offices. This is accomplished by rewarding both the office supporting projects and the office requesting help, creating a culture that supports a seamless sharing of employees. The team has enough professional resources to accomplish the work in the required time, including the ability to complete more than one delivery order at a time, and to react quickly and efficiently when working within an accelerated schedule. No individual office within Terracon receives a P&L statement, thus increasing the likelihood and willingness of offices to cooperate and share resources.
- Second, in short-term periods of heavy workload, our employees are willing to work overtime hours. Terracon pays our professional employees overtime based upon exceeding certain chargeable hours, making it possible to expand our capacity without the need to hire for short term increases in workload. While Terracon has a strong philosophy of providing a consistent team of professionals to ensure consistency and familiarity with the client and their projects in a geographic area, both systems allow us to provide experienced Terracon employees to the project manager on short notice to achieve the consistent quality deliverables in a timely manner when workloads and schedules require additional support
- Terracon has up to three drilling rigs available in the local region with the ability to access up to five drilling rigs within the Gulf Coast Region. This allows complete large soil investigative projects in a fast and efficient manner.

3. Location of the principal office where work will be performed

The local office of Terracon, which is in Jefferson Parish, will serve as the lead office for this contract, with additional offices available to provide support as necessary.

Terracon – New Orleans Office
524 Elmwood Park Boulevard, Suite 170, New Orleans, LA 70123 (Jefferson Parish)

4. Adversarial Legal Proceedings with the Parish

None

5. Prior successful completion of projects requiring soils investigation services for which firm has provided verifiable references

Terracon has performed soils investigation services on thousands of challenging sites throughout the United States. Local, federal, and state clients depend on Terracon to help them provide a better living and working environment for their local citizens. Terracon has provided soils investigation services for not only Jefferson Parish, but many parishes and cities throughout Louisiana including the parishes surrounding Jefferson. On all projects, we strive to live up to the mantra "We go where the client wants, when the client wants, and we don't go home until we're finished."

Past projects with available references can be viewed in Section L of the TEC Questionnaire.

6. Size of firm, considering the number of professional and support personnel required to perform soils investigation tasks, including drafting of reports, plans, and specifications

Terracon is a 100 percent employee-owned consulting engineering firm providing quality services to clients. Since 1965, Terracon has evolved into a successful multi-discipline firm specializing in:

10. Use this space to provide any additional information or description of resources (including any computer design capabilities) supporting your firm's qualifications for the proposed project:

- Facilities
- Environmental
- Soil Investigative Drilling/Geotechnical Engineering
- Materials

Over its history, Terracon has achieved significant expansion through both internal growth and acquisitions. **Terracon currently has more than 5,000 employees across more than 175 offices coast to coast.** Additionally, we partner with our U.S. clients to serve their international needs.

The firm's success is further evidenced by a current ranking of 24 in *Engineering News-Record's* 2021 listing of the Top 500 Design Firms, as compared to a ranking of 38 a decade ago. Terracon's growth is due to dedicated employees who are responsive to clients, provide quality services, and take advantage of opportunities in the marketplace.

Terracon has worked on geotechnical projects throughout Louisiana. Many of these have been completed under retainer contracts or on-call contracts. We have completed drilling and laboratory work for municipalities for projects including roadways, drainage, sewer/wastewater facilities, and various types of buildings. Terracon has been hired by the City of New Orleans and Jefferson parish Department of Public Works for multiple geotechnical and/or construction materials testing projects.

Terracon is prepared to provide soil investigative services, geotechnical engineering, inspection, and materials testing services necessary for the design, construction, rehabilitation and repair of streets, drainage, and utility improvement projects in Jefferson Parish.

We serve a diverse portfolio of private and public clients. By being responsive, resourceful, and reliable, we strive to exceed our clients' expectations for service, solutions, quality, and speed of delivery. Based on a deep understanding of our clients' needs, Terracon's commitment is centered around these key objectives.

Our Safety Culture

Terracon believes safety is one of the most critical aspects of a successful project. No project is worth impacting the life of any employee and their family through loss of life, limb, or livelihood. Therefore, we do not focus on safety as something separate from other critical aspects of the project: quality, schedule, and budget. Instead, we focus on weaving safety into all aspects of the project. Focusing on making sure employees go home safely every day to their family improves quality, helps the schedule, and ultimately saves costs by averting accidents, injuries and tragedies through proper planning, training, and execution of safety.

However, safety is not just about what we do with our safety program. It is about how we work with our clients and their Project Team when we become part of the project.



Our Team strives to build health and safety into all aspects of our business and into the thinking of our employees. As safety-oriented individuals, we all are dedicated to an Incident and Injury-Free (IIF) workplace. IIF is about care and concern for people; it is our personal and organizational commitment at all levels of our companies to everyone going home safe to their families every day. Working safely is an inseparable part of working correctly, just as much as other operational priorities, in particular quality, profitability, and schedule.

Our commitment to safety is demonstrated daily by project managers discussing and addressing site specific safety topics with our field representatives. Safety is a primary focus of our monthly department meetings where each meeting includes discussion of a safety topic. Safety is one of our core values and as a supplement to



10. Use this space to provide any additional information or description of resources (including any computer design capabilities) supporting your firm's qualifications for the proposed project:

our Team's safety culture, each employee receives safety training specific to the job function and/or project assigned through one-on-one instruction, continuing education classes or web-based training seminars. We are confident our adoption of the IIF® philosophy will have a positive impact on this project.

7. Past Performance by person or firm on Parish contracts.

Terracon has developed a strong history of providing soil investigation services within the State of Louisiana. Through various projects, we have worked with the numerous local and state agencies including the Louisiana Department of Transportation and Development, Facility Planning, as well as local municipalities including surrounding Parishes including Jefferson Parish.

Terracon has worked with various parishes throughout Louisiana providing all services including soil investigation services, geotechnical engineering and design, laboratory services for inspection of materials and equipment. Some of our project examples are listed in Section L.

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name: Terracon Consultants, Inc.
 Public Address: Ms. Barbara Boerner
 10841 South Ridgeview Road
 Olathe, Kansas 66061

**License/Certificate Information w/
 Supervision**

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0002749	Active	12/18/2001	03/31/2022	Mr. Stephen Eugene Greaber # PE.0026107 - Active ; Mr. Daren L. Thomas # PE.0036187 - Active ; Mr. Zack Lemual Dial III # PE.0034872 - Active ; Ms. Laura Jean Campa # PE.0040847 - Active



CERTIFICATE OF ACCREDITATION



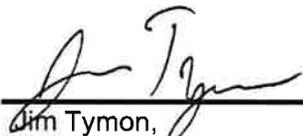
Terracon Consultants, Inc.

in

New Orleans, Louisiana, USA

has demonstrated proficiency for the testing of construction materials and has conformed to the requirements established in AASHTO R 18 and the AASHTO Accreditation policies established by the AASHTO Committee on Materials and Pavements.

The scope of accreditation can be viewed on the Directory of AASHTO Accredited Laboratories (aashtoresource.org).



Jim Tymon,
AASHTO Executive Director



Moe Jamshidi,
AASHTO COMP Chair

This certificate was generated on 03/08/2022 at 10:06 AM Eastern Time. Please confirm the current accreditation status of this laboratory at aashtoresource.org/aap/accreditation-directory



SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.
in New Orleans, Louisiana, USA

Quality Management System

Standard:	Accredited Since:
R18 Establishing and Implementing a Quality System for Construction Materials Testing Laboratories	01/03/2012
C1077 (Aggregate) Laboratories Testing Concrete and Concrete Aggregates	07/27/2012
C1077 (Concrete) Laboratories Testing Concrete and Concrete Aggregates	12/07/2012
D3740 (Soil) Minimum Requirements for Agencies Engaged in Testing and/or Inspection of Soil and Rock as Used in Engineering Design and Construction	02/02/2012
E329 (Aggregate) Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	07/27/2012
E329 (Concrete) Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	12/07/2012
E329 (Soil) Standard Specification for Agencies Engaged in the Testing and/or Inspection of Materials Used in Construction	06/03/2014



SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.

in New Orleans, Louisiana, USA

Asphalt Mixture

Standard:	Accredited Since:
T166 (Cores) Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens (Cores)	05/09/2016
D2726 (Cores) Bulk Specific Gravity of Compacted Hot Mix Asphalt Using Saturated Surface-Dry Specimens (Cores)	05/09/2016



SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.
in New Orleans, Louisiana, USA

Soil

Standard:	Accredited Since:
R58 Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	01/03/2012
T88 Particle Size Analysis of Soils by Hydrometer	01/03/2012
T89 Determining the Liquid Limit of Soils (Atterberg Limits)	01/03/2012
T90 Plastic Limit of Soils (Atterberg Limits)	01/03/2012
T99 The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	01/03/2012
T100 Specific Gravity of Soils	01/03/2012
T180 Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	01/03/2012
T208 Unconfined Compressive Strength of Cohesive Soil	12/30/2013
T216 One-Dimensional Consolidation Properties of Soils Using Incremental Loading	06/21/2021
T265 Laboratory Determination of Moisture Content of Soils	01/03/2012
T267 Determination of Organic Content in Soils by Loss on Ignition	01/03/2012
T296 Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	07/13/2018
T310 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	01/03/2012
D421 Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	01/03/2012
D422 Particle Size Analysis of Soils by Hydrometer	01/03/2012
D698 The Moisture-Density Relations of Soils Using a 5.5 lb [2.5 kg] Rammer and a 12 in. [305 mm] Drop	01/03/2012
D854 Specific Gravity of Soils	01/03/2012
D1140 Amount of Material in Soils Finer than the No. 200 (75- μ m) Sieve	01/03/2012
D1557 Moisture-Density Relations of Soils Using a 10 lb [4.54 kg] Rammer and an 18 in. [457 mm] Drop	01/03/2012
D2166 Unconfined Compressive Strength of Cohesive Soil	12/30/2013
D2216 Laboratory Determination of Moisture Content of Soils	01/03/2012
D2435 One-Dimensional Consolidation Properties of Soils Using Incremental Loading	06/21/2021
D2487 Classification of Soils for Engineering Purposes (Unified Soil Classification System)	01/03/2012



SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.
in New Orleans, Louisiana, USA

Soil (Continued)

Standard:	Accredited Since:
D2488 Description and Identification of Soils (Visual-Manual Procedure)	01/03/2012
D2850 Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	07/13/2018
D2974 Determination of Organic Content in Soils by Loss on Ignition	01/03/2012
D4318 Determining the Liquid Limit of Soils (Atterberg Limits)	01/03/2012
D4318 Plastic Limit of Soils (Atterberg Limits)	07/13/2018
D4546 One-Dimensional Swell or Settlement Potential of Cohesive Soils	06/21/2021
D4643 Determination of Water (Moisture) Content of Soil by Microwave Oven Heating	12/30/2013
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	01/03/2012



SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.
in New Orleans, Louisiana, USA

Aggregate

Standard:	Accredited Since:
R76 Reducing Samples of Aggregate to Testing Size	07/27/2012
R90 Sampling Aggregate	07/13/2018
T11 Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	07/27/2012
T19 Bulk Density ("Unit Weight") and Voids in Aggregate	07/27/2012
T21 Organic Impurities in Fine Aggregates for Concrete	07/27/2012
T27 Sieve Analysis of Fine and Coarse Aggregates	07/27/2012
T84 Specific Gravity (Relative Density) and Absorption of Fine Aggregate	07/27/2012
T85 Specific Gravity and Absorption of Coarse Aggregate	07/27/2012
T255 Total Moisture Content of Aggregate by Drying	07/27/2012
C29 Bulk Density ("Unit Weight") and Voids in Aggregate	07/27/2012
C40 Organic Impurities in Fine Aggregates for Concrete	07/27/2012
C117 Materials Finer Than 75- μ m (No. 200) Sieve in Mineral Aggregates by Washing	07/27/2012
C127 Specific Gravity and Absorption of Coarse Aggregate	07/27/2012
C128 Specific Gravity (Relative Density) and Absorption of Fine Aggregate	07/27/2012
C136 Sieve Analysis of Fine and Coarse Aggregates	07/27/2012
C566 Total Moisture Content of Aggregate by Drying	07/27/2012
C702 Reducing Samples of Aggregate to Testing Size	07/27/2012
D75 Sampling Aggregate	07/13/2018



SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.
in New Orleans, Louisiana, USA

Concrete

Standard:		Accredited Since:
M201	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	07/27/2012
R60	Sampling Freshly Mixed Concrete	07/27/2012
T22	Compressive Strength of Cylindrical Concrete Specimens	07/27/2012
T23	Making and Curing Concrete Test Specimens in the Field	08/15/2016
T24	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	01/02/2015
T97	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	08/15/2016
T119	Slump of Hydraulic Cement Concrete	07/27/2012
T121	Density (Unit Weight), Yield, and Air Content of Concrete	07/27/2012
T152	Air Content of Freshly Mixed Concrete by the Pressure Method	07/27/2012
T196	Air Content of Freshly Mixed Concrete by the Volumetric Method	07/27/2012
T231 (5000 psi and below)	Capping Cylindrical Concrete Specimens	12/17/2019
T309	Temperature of Freshly Mixed Portland Cement Concrete	07/27/2012
C31	Making and Curing Concrete Test Specimens in the Field	08/15/2016
C39	Compressive Strength of Cylindrical Concrete Specimens	07/27/2012
C42	Obtaining and Testing Drilled Cores and Sawed Beams of Concrete	01/02/2015
C78	Flexural Strength of Concrete (Using Simple Beam with Third-Point Loading)	08/15/2016
C138	Density (Unit Weight), Yield, and Air Content of Concrete	07/27/2012
C143	Slump of Hydraulic Cement Concrete	07/27/2012
C172	Sampling Freshly Mixed Concrete	07/27/2012
C173	Air Content of Freshly Mixed Concrete by the Volumetric Method	07/27/2012
C231	Air Content of Freshly Mixed Concrete by the Pressure Method	07/27/2012
C511	Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	07/27/2012
C617 (5000 psi and below)	Capping Cylindrical Concrete Specimens	12/17/2019



SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.
in New Orleans, Louisiana, USA

Concrete (Continued)

Standard:

Accredited Since:

C1064	Temperature of Freshly Mixed Portland Cement Concrete	07/27/2012
C1231 (7000 psi and below)	Use of Unbonded Caps in Determination of Compressive Strength of Hardened Concrete Cylinders	07/27/2012
C1542	Measuring Length of Concrete Cores	01/02/2015



SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.
in New Orleans, Louisiana, USA

Masonry

Standard:

Accredited Since:

M201 Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	07/27/2012
C511 Moist Cabinets, Moist Rooms, and Water Storage Tanks Used in the testing of Hydraulic Cements and Concretes	07/27/2012
C1019 Sampling and Testing Grout	07/27/2012



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 3/8/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Ms. Lynne Elizabeth Roussel
15421 Campanile Court
Baton Rouge, Louisiana 70810

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
Ms. Lynne Elizabeth Roussel		
License/Certificate Type - Number	Expiration Date	
PE.0035152	03/31/2022	
Status: Active		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

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Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

Disclaimer

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If you need to make changes to your contact information, please choose one of the following options below:

Contact update for [Individuals and Firms](#)

License/Certificate Types:

EF = Engineering Firm

VF = Land Surveying Firm

CPD = Continuing Professional Development Sponsor/Provider

*PE = Professional Engineer

*PLS = Professional Land Surveyor

*EI = Engineer Intern

*LSI = Land Surveyor Intern

*PE Discipline Codes

AG	Agricultural	ME	Mechanical
AR	Architectural	MI	Mining or Mineral
CH	Chemical	MT	Metallurgical
CE	Civil	MU	Manufacturing
CS	Control Systems	NV	Naval Architecture & Marine
EE	Electrical & Computer	NU	Nuclear
EV	Environmental	ST	Structural *
FP	Fire Protection	PT	Petroleum
IE	Industrial		
* An engineer that has passed the Structural I exam is listed as a Civil Engineer. An engineer that has passed both the Structural I and II exams is listed as Structural (ST) and a Civil (CE) Engineer.			



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 3/8/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Ms. Alice E. Stark
524 Elmwood Park Boulevard, Suite 170
New Orleans, Louisiana 70123

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com
Ms. Alice E. Stark	
License/Certificate Type - Number	Expiration Date
PE.0044481	09/30/2022
Status: Active	

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Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

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EE	Electrical & Computer	NU	Nuclear
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* An engineer that has passed the Structural I exam is listed as a Civil Engineer. An engineer that has passed both the Structural I and II exams is listed as Structural (ST) and a Civil (CE) Engineer.			



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 3/8/2022 the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Ms. Anjelica Maria Moran
2536 Somerset Drive
New Orleans, Louisiana 70131

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
Ms. Anjelica Maria Moran		
License/Certificate Type - Number	Expiration Date	
EI.0033229	09/30/2023	
Status: Active		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

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EV	Environmental	ST	Structural *
FP	Fire Protection	PT	Petroleum
IE	Industrial		
* An engineer that has passed the Structural I exam is listed as a Civil Engineer. An engineer that has passed both the Structural I and II exams is listed as Structural (ST) and a Civil (CE) Engineer.			