



June 30, 2022

Parish of Jefferson Government

**Via Electronic Submission**  
**Central Bidding**

RE: Jefferson Parish Government – Statement of Qualifications (TEC)  
Rehabilitation to the Neyrey & Veterans (F7-13)  
and Market & Sauve (D4-7) Lift Stations  
SOQ No. 22-028 – Resolution No. 139102

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 engineering services for rehabilitation to the Neyrey & Veterans (F7-13) and Market & Sauve (D4-7) Lift Stations. 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 lift stations and sewer projects*
- ✓ *Office Location in New Orleans*

A diligent review of SOQ No. 22-028 has been performed. Please 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 this rehabilitation project. 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](mailto:stefan@fenstermaker.com)  
(504) 582-2201

*Angelle Guilbeau*

Angelle Guilbeau  
Director of Risk Management and Compliance  
[angelleg@fenstermaker.com](mailto: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](http://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. 028 Rehabilitation to the Neyrey & Veterans (F7-13) and Market & Sauve (D4-7) Lift Stations  
 Resolution No. 139102

### 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](mailto: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](mailto: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
		<b><u>300</u> TOTAL</b>

### 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 plant will be capable of treating up to 2.0 MGD and will replace two existing plants that each treat 0.5 MGD. The design consists of a plant lift station, preliminary treatment unit, sequencing batch reactors, chlorine contact chambers, post aeration basins, chlorine gas disinfection, sludge holding tanks, and a centrifuge for sludge dewatering. Mr. Bourgeois serves as project 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

**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.**

### **KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

**Name & Title:**

Luke Hebert, P.E., CFM  
Director, Engineer

**Project Assignment:**

Senior Engineer

**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. / 2003 / Civil Engineering

**Active registration: Year first registered/discipline:**

20009 / Louisiana PE #0034715

**Other experience and qualifications relevant to the proposed Project:**



Luke Hebert, P.E., CFM is an Engineering Director with over 17 years of experience in engineering design, planning, and project management. During his career, he has designed numerous lift stations, wastewater treatment plants, water treatment plants, various roadway types (i.e. local, collector, arterial, and freeway), surface and sub-surface drainage systems, interchanges, roundabouts, standard intersections, utility relocations, and site developments.

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

**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.

## TEC Professional Services Questionnaire

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

**Luke Hebert, P.E., CFM**

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

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

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

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

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

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

## TEC Professional Services Questionnaire

**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.**

### **KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

**Name & Title:**

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

**Project Assignment:**

Senior Engineer

**Name of Firm with which associated:**

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

**Years' experience with this Firm:**

3 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 PE #0027031

**Other experience and qualifications relevant to the proposed Project:**



Paul Zappi, P.E., has over 34 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 dry and submersible settings and involving several manufacturers.

**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.

**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. 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).

## TEC Professional Services Questionnaire

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

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

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

**City of Houston – Wastewater Operations Branch** Mr. Zappi 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.

**City of Lafayette - Lafayette Utilities System** Mr. Zappi worked as project engineer for several wastewater treatment plant expansion, rehabilitation, and odor control projects; worked as project engineer for LUS' wastewater collection system rehabilitation program; pilot tested several odor control systems; prepared conceptual and preliminary design of a lift station odor control system; performed air and water quality evaluations of two WW collection systems; conducted jar and performance testing of several odor control chemical feed systems; prepared preliminary design for relocation and improvement of gravity mains and force mains; developed preliminary design of Computerized Maintenance Management System for four WWTPs (Datastream MP3); prepared odor control system O&M videos; prepared private sewer system database; participated in emergency response to Hurricanes Lili and Rita; designed various small projects at an electric generating station; and supervised consultants, contractors, and six employees.

## 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.**

### **KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

**Name & Title:**

William "Bill" Katzenmeyer, P.E., CFM  
Engineer II

**Project Assignment:**

Senior 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

**Other experience and qualifications relevant to the proposed Project:**



Mr. Katzenmeyer is a Professional Engineer with over 13 years of 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. Mr. Katzenmeyer also has extensive experience with FEMA Public Assistance and Hazard Mitigation grants, consolidated improved projects for roadway and utility reconstruction with multiple funding sources, grants management, procurement, design phase project management and FEMA benefit cost analysis.

**Plaquemines Parish Sewerage Capital Improvements Program – Linfield, Hunter, and Junius, Inc. (Plaquemines Parish, LA)** 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. Mr. Katzenmeyer also participated in construction monitoring, coordinating with inspection personnel, and construction management duties during the construction phase.

**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.

## TEC Professional Services Questionnaire

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

**William "Bill" Katzenmeyer, P.E., CFM**

**\$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.

**OSP-03 Perimeter Protection for Carrollton Water Treatment Plant-Power Complex (Orleans Parish, LA)** Civil Engineer responsible for report phase investigations and conceptual layout, report preparation, cost estimates, preliminary hydraulic investigations, and MicroStation CADD Drafting. Also responsible for preliminary hydraulic design of drainage system alternatives and stormwater/sewer pumping station sizing and siting. This project evaluated various levee (berm) and floodwall alignments for the mitigation of potential flood hazard to the facility's operation. This facility encountered significant flooding after Hurricane Katrina that impacted the availability of drinking water and fire protection across the entire east bank of Orleans Parish, as well as power generation facilities which were critical for the operation of drainage pump and sewage treatment infrastructure across the entire parish. Various alignments and project scopes were evaluated for protection of various power generation facilities as well as design alternatives which would also protect the integrity of the water treatment system and/or maintain pumping and fire protection abilities in a similar disaster.

**City Barn Pump Station Drainage Improvements (HMGP Project Number 1603-0321) (Stuart Consulting Group) (St. Tammany Parish, LA)** Mr. Katzenmeyer provided technical assistance to the Project Management team during the design of the City Barn Pump Station Project, including technical review of preliminary design submittals, and strategic planning for Environmental and Historic Preservation permitting, which resulted in a Finding of No Significant Impact for the proposed scope of work and design alternatives. The Project scope included the installation of larger pumps within the existing pumping station footprint, new discharge piping, and an additional 2,000-gallon elevated diesel storage tank.

## 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.**

### **KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

**Name & Title:**

Patrick Shitabule, MBA, P.E., PMP  
Engineer II

**Project Assignment:**

Senior 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 / 2018 / Business Administration  
B.S. / 2015 / Mechanical Engineering  
B.S. / 2005 / Agri-Business Management

**Active registration: Year first registered/discipline:**

2019 / Texas PE 134733

**Other experience and qualifications relevant to the proposed Project:**



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.

**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.

**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.

**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.

## 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.**

### KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

**Name & Title:**

Mustafa Afaneh, EI  
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. / 2019 / Civil Engineering

**Active registration: Year first registered/discipline:**

2019 / LA EI 34198

**Other experience and qualifications relevant to the proposed Project:**



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.

**FEMA RR021 - Central City Group A (Orleans Parish, LA)** Mr. Afaneh is serving as the Engineer Intern (E.I.). 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.

**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.

## 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.**

### KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

**Name & Title:**

O'Bryant Henderson  
Inspector III

**Project Assignment:**

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:**

Not applicable

**Other experience and qualifications relevant to the proposed Project:**



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.

**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.

**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.

## 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.**

### **KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

**Name & Title:**

Mark Dubroc, P.E.  
Engineer III

**Project Assignment:**

QA/QC

**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 / LA PE #0022618

**Other experience and qualifications relevant to the proposed Project:**



Mr. Dubroc is a Senior Engineer with over 41 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.

**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. Dubroc reviewed all plans and specifications for the project.

## TEC Professional Services Questionnaire

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

Mark Dubroc, P.E.

**Apollo Rd at LA93 (Dulles Dr) Roundabout (Lafayette Parish, LA)** Fenstermaker was selected to provide engineering services to the City of Scott to extend Apollo Road to Dulles drive. This fourteen-million-dollar construction project included two miles of a four-lane boulevard and eight-foot sidewalks to accommodate both bicyclist and pedestrians. The new roadway intersected LA 90 and LA 93, which were designed for a bow-tie intersection and roundabout, respectively. Mr. Dubroc performed the quality assurance review for the project plans.

**Upper West Fork Cypress Bayou EA (Bossier Parish, LA)** Fenstermaker will prepare an Environmental Assessment for three dam reservoirs for the Upper Fork Cypress Lake System needing rehabilitation for the Town of Plain Dealing, Bossier Parish. This assessment requires Fenstermaker's environmental and survey departments. Mr. Dubroc is responsible for reviewing all data, the survey proposal, the hydrology modeling of the watershed, and for performing quality assurance reviews.

**Whispering Pines Dam and Spillway Repair (Tangipahoa Parish, LA)** The location of the project is a manmade dam, spillway, and lake valve at Camp Whispering Pines. The scope included surveying, geotechnical exploration, engineering design, and project management. The purpose of the project was to design spillway stabilization, repair a drawdown structure, and repair spillway erosion. Mr. Dubroc provided quality control of plan preparation, including the H&H analyses, and analyzed design alternatives to provide cost options, and prepared the engineering report.

**Gerald Drive Coulee (Lafayette Parish, LA)** The purpose of this project was to prepare engineering plans to install box culverts in Gerald Drive Coulee and removing silt from the existing box culvert from Gerald Dr. to Robley Dr. Mr. Dubroc provided QA/QC of the drainage design.

**H.014274 Hanks Dr./Landis Dr. Pedestrian Improvements Phases 2 & 3 (East Baton Rouge Parish, LA)** Mr. Dubroc is providing Quality Control for Phase 2 in accordance with MoveBR and LADOTD Design Standards for a pedestrian facility and drainage system along Hanks Dr. and Landis Drive. Fenstermaker is converting the existing open ditch drainage system to subsurface. The project encompasses 91 acres of drainage area, and 8,365 feet of drainage culverts.

**S.P. No. H.013367 Elm Grove Garden Pedestrian Improvements (East Baton Rouge Parish, LA)** Mr. Dubroc provided Quality Control of this pedestrian improvement project which included a drainage analysis and design. Fenstermaker developed existing drainage maps and created proposed drainage maps depicting existing conditions and calculations to size the proposed drainage structures. The Monte Sano Bayou crossing, and existing drainage patterns were considered.

## 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.**

### **KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:**

**Name & Title:**

Travis Bodin, MBA, PLS, PMP  
Vice President, Survey & Mapping

**Project Assignment:**

Surveyor, Survey Services 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:**

MBA / 2021 / Business Administration  
B.S. / 2004 / Industrial Technology

**Active registration: Year first registered/discipline:**

2011 / LA PLS #0005067

**Other experience and qualifications relevant to the proposed Project:**



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.

**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.

**Evangeline Downs Lift Station (Lafayette Parish, LA)** Mr. Bodin was the Lead Surveyor and Surveyor of Record for the servitude plats required for the project. He also managed the production of the legal descriptions associated with the plats.

## TEC Professional Services Questionnaire

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

**Travis Bodin, MBA, PLS, PMP**

**Francois Street Lift Station & Manola Drive Lift Station [2015 Wastewater Force Main Improvements Phase II] (Lafayette Parish, LA)** The City of Carencro is building a new Wastewater Treatment Plant (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.

**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 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. Bodin served as the survey professional-in-charge and task lead.

**Water Treatment Plant – Hector Connolly Rd (Lafayette Parish, LA)** Survey Tech: 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.

**Coach Williams Boulevard Extension (Calcasieu Parish, LA)** Project Manager and Lead Surveyor - This project includes the design of a \$20 million, 3-mile roadway located in Calcasieu Parish. The new roadway includes a 2-lane open ditch typical section with a roundabout, railroad crossing, and a Sabine River Authority Canal crossing. The project will traverse through multiple wetland areas. Mr. Bodin has served as Project Manager and was also the Lead Surveyor responsible for coordinating abstracting, topographic survey, and generating all right of way and servitude plats.

**LADOTD Permit No. 153198, 153357, 153587: Sasol LCCP-Heavy Haul Road Engineering and Construction (LA378 & LA379) (Calcasieu Parish, LA)** Mr. Bodin served as the Lead Surveyor in providing topographic, boundary, and route surveying to aid in the coordination with public and state agencies for the construction of a 2.4-mile roadway. Services include mapping for the acquisition of agreements between Sasol and third-party utilities, platting for acquisition and dedication of property needed for various construction activities and state agencies, and Quality Control services of construction activities that were conducted which included monument review and location mapping. Mr. Bodin was responsible for field coordination, data processing, ROW generation, servitude and ROW mapping and topo surveys.

**LADOTD Permit No. 03030387: Kaliste Saloom Road Widening, Intersection Improvements, Bridge, and CE&I (LA 3073 to LA 733) (Amb. Caffery to E. Broussard Rd) (Lafayette Parish, LA)** Mr. Bodin served as the Surveyor Project Manager. Fenstermaker performed the topographic survey of all cross street and road tie-ins, cross sections for the purpose of an existing elevation DTM and parcel boundaries effected by the ROW. Mr. Bodin was responsible for field crew coordination, topo/boundary surveys, ROW plats, monuments, data processing, plats and legal descriptions.

## 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.**

<b>PROJECT NO. 1</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
Church Street Lift Station (No. 4)  Lafayette Parish, LA  City of Carencro 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.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2020	\$4,630,000 (Engineering, Planning and Construction Cost)	\$755,000 (Engineering and Planning Cost)

<b>PROJECT NO. 2</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
French Colony Lift Station (No. 15)  Lafayette Parish, LA  City of Carencro 210 East St. Peter Street Carencro, LA 70520 Don Chauvin, City Manager (337) 896-8481 citymanager@carencro.org	Fenstermaker prepared preliminary and final plans and specifications for the City of Carencro's Lift Station No. 15 Upgrade Project. The upgrades consisted of replacing the existing suction lift pumps with submersible pumps, relocating the control panel, and adding a Supervisory Control and Data Acquisition System (SCADA). The upgrades also included raising the wet well top and electrical system 1' above the water surface elevation for the 100-year storm event. Services included preliminary plans; final plans and specifications; and bidding and contracting.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2014	\$315,000 (Engineering, Planning and Construction Cost)	\$55,000 (Engineering and Planning Cost)

## TEC Professional Services Questionnaire

<b>PROJECT NO. 3</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility</b>	
Francois Street Lift Station & Manola Drive Lift Station  Lafayette Parish, LA  City of Carencro 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 force mains 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.	
<b>Completion Date (Actual or estimated)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2022 (Estimated)	\$5,600,000 (Engineering, Planning and Construction Cost)	\$742,000 (Engineering and Planning Cost)

<b>PROJECT NO. 4</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
RR021 City of New Orleans Central City Group A Street Repairs  Orleans Parish, LA  City of New Orleans Department of Public Works 1300 Poydras Street 6W03 New Orleans, LA 70112 Khalid Saleh (504) 231-8577 ksaleh@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-year 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. The hydrologic and hydraulic analyses were performed in accordance the LA DOTD Hydraulics Manual. LA DOTD's Inlet Spacing (HYDR6000) and Storm Sewer Design (HYDR6020) were utilized for the design. The project is currently under construction. Fenstermaker assessed roadway, sidewalk, and curb conditions for 27 miles of local streets in Central City and compared them to a FEMA project worksheet to relate disaster recovery activities, such as demolition and debris removal, to justify funding. Fenstermaker's scoping activities resulted in an additional 56% infrastructure improvements approved by FEMA for the Central City neighborhood.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2022 (estimated)	\$3,529,357 (Engineering, Planning and Construction Cost)	\$1,029,962 (Engineering and Planning Cost)

## TEC Professional Services Questionnaire

PROJECT NO. 5		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
West Gloria Switch Lift Station Upgrades City of Carencro, Parish of Lafayette, LA  Lafayette Parish, LA  City of Carencro 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 foot 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.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2018	\$285,000 (Engineering, Planning and Construction Cost)	\$73,000 (Engineering and Planning Cost)

PROJECT NO. 6		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
2014 Lift Station Upgrades  Lafayette Parish, LA  City of Carencro 210 East St. Peter Street Carencro, LA 70520 Don Chauvin, City Manager (337) 896-8481 citymanager@carencro.org	Plans and specifications were prepared for the City's 2014 Railroad St., Andre St., and St. Pierre Lift Station Upgrades. Fenstermaker provided oversight of construction activities which included increasing pump capacities for all stations, replacing pump controls and control panels, and raising elevations of pertinent components, such as wet well tops and control panels, 1 foot above the water surface elevation for the 100-year storm event. The lift station upgrades were funded through FEMA's Hazard Mitigation Grant Program (HMGP).	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2018	\$1,000,000 (Engineering, Planning and Construction Cost)	\$230,000 (Engineering and Planning Cost)

## TEC Professional Services Questionnaire

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

<b>PROJECT NO. 8</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
Lift Station No. 13 (Evangeline Downs)  Lafayette Parish, LA  City of Carencro 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-inch sewer force main 4,723 linear feet 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-inch sewer force main would need to be replaced with a 10-inch 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.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2021	\$1,200,000 (Engineering, Planning and Construction Cost)	\$158,000 (Engineering and Planning Cost)

## TEC Professional Services Questionnaire

<b>PROJECT NO. 9</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p>East Pont des Mouton – Water and Sewer Improvement and Roadway Widening</p> <p>Lafayette Parish, LA</p> <p>Lafayette Consolidated Government 705 University Avenue Lafayette, LA 70506 Jared Veazey, P.E. (337) 291-8590 jveazey@LafayetteLA.gov</p>	<p>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 linear feet of subsurface drainage was installed including 1,400 linear of 84-inch RCP, over 8,000 linear feet of water distribution, 7,000 linear feet 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 linear feet of 15-inch, 18-inch, 21-inch, and 24-inch gravity sewer main, and 1,500 linear feet of 10-inch force main with the lift station.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2019	\$16,500,000 (Engineering, Planning and Construction Cost)	\$1,620,000 (Engineering and Planning Cost)

<b>PROJECT NO. 10</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p>Apollo Road Extension Utilities</p> <p>Lafayette Parish, LA</p> <p>City of Carencro 210 East St. Peter Street Carencro, LA 70520 Don Chauvin, City Manager (337) 896-8481 citymanager@carencro.org</p>	<p>The City selected Fenstermaker to design and construct water and sewer main extensions. The sewer extension part of the project included the installation of 6,888' of 8" sewer main and 2,300' of 6" sewer main. A lift station with a wet well and a valve pit were also installed. The lift station has submersible pumps and a designed pumping capacity of 180 gallons per minute (gpm). Fenstermaker based the capacity of the sewer system on the services needed to accommodate the projected 25-year growth identified in the City of Scott's Comprehensive Plan for Improved Development. Services included: preliminary plans; final plans and specs; topographic &amp; boundary survey; construction administration; and construction inspection.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2017	\$1,600,000 (Engineering, Planning and Construction Cost)	\$143,000 (Engineering and Planning Cost)

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

Fenstermaker maintains a diverse client base consisting of municipalities, state government, large, medium, and small companies in a variety of industries. Fenstermaker’s highly qualified professional staff is supported by a technologically robust management system and continuity of operations, as most senior staff members have been with the firm for decades. Fenstermaker is well equipped to assist Jefferson Parish with the design, bidding, and construction administration of the rehabilitation of the Neyrey & Veterans (F7-13) and Market & Sauve (D4-7) Lift Stations. Fenstermaker stands behind our qualifications, the capabilities of our personnel, and the integrity of our work.

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

Fenstermaker’s staff of highly qualified professionals can provide Jefferson Parish with the necessary knowledge and experience required to assist with this contract. With 72 years of engineering, surveying, and environmental experience in south Louisiana, Fenstermaker maintains a unique understanding of these types of projects and their relation to the Parish’s current and future infrastructure needs.

**The Fenstermaker Advantage:**

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

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



**Stefan Bourgeois, P.E.** will serve as the Professional in Charge and Project Manager. A registered professional engineer in the state of Louisiana, he is the New Orleans Office Manager and has 12 years of experience in sanitary sewer lift station 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 and various project types such as hydraulic modeling and analysis, wastewater collection and pumping design, wastewater treatment design, water distribution and treatment design, roadway, and drainage design. Mr. Bourgeois meets all of the Minimum Requirements for Selection.



**Luke Hebert, P.E., CFM** is a registered professional civil engineer in the state of Louisiana with over 17 years of experience in sanitary sewer lift station design and is Fenstermaker’s lead utilities engineer on staff. Mr. Hebert has extensive experience designing the utilities on various lift station, wastewater treatment plant, and asset management projects. Mr. Hebert currently serves as the City Engineer for the City of Carencro and has experience obtaining funding through the United States Department of Agriculture and the Louisiana Department of Health for the completion of utility projects.



**Paul Zappi, P.E.**, will serve as Senior Engineer and provide engineering support. He has over 32 years of professional 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 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.



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



In addition, Terracon Consultants, Inc. will be joining the Fenstermaker team, 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 lift stations and wastewater treatment plant projects.

**(2) Capacity of timely completion of newly assigned work**

Our New Orleans office, with staff from our Lafayette and other 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 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 300 personnel. Below is a list of client references:

- **City of New Orleans**, 1300 Perdido Street, #6W03, New Orleans, LA 70112  
Khalid Saleh, Ph.D., Project Manager, (504) 658-8208, [khsaleh@nola.gov](mailto:khsaleh@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](mailto: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**

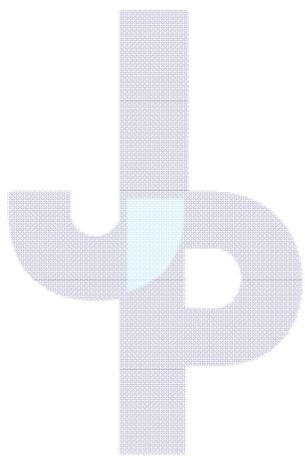
Fenstermaker has over 72 years of experience in South Louisiana and has performed services on projects for local governments for over 35 years, including engineering design, permitting, and agency coordination. We have provided services to the following public sector clients:

- |                                     |                               |
|-------------------------------------|-------------------------------|
| • City of New Orleans               | • Iberia Parish Government    |
| • Lafayette Consolidated Government | • City of Scott               |
| • Calcasieu Parish Police Jury      | • Livingston Parish           |
| • Cameron Parish Police Jury        | • 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: June 30, 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:**

Rehabilitation to Neyrey & Veterans and Market & Sauve Lift Stations - SOQ 22-028

**B. Firm Name & Address:**

M & E Consulting, Inc.  
1304 Bertrand Drive, Ste F7  
Lafayette, LA 70506

**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:**

Scotty J. Baudoin, P.E.  
President  
1304 Bertrand Drive, Ste F7  
Lafayette, LA 70506  
Phone: 337-234-7474 ext 124  
Email: scotty@meconsulting.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.**

David Carroll, P.E.  
1304 Bertrand Drive, Ste F7  
Lafayette, LA 70506  
Phone: 337-234-7474 ext 109  
Email: david@meconsulting.com

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

<u>5</u> Administrative	___ Estimators	___ Specification Writers
___ Architects (Licensed)	___ Geologists	___ Structural Engineers
___ Chemical Engineers	___ Geotechnical Engineers	___ Graduate Engineers
___ Civil Engineers	___ Interior Designers	___ Project Managers
___ Construction Inspectors	___ Landscape Architects	___ Clerical
___ Ecologists	___ Land Surveyor	___ Grant/Funding Specialist
<u>2</u> Electrical Engineers	<u>2</u> Mechanical Engineers	___ Sanitary Engineers
<u>12</u> Engineer Intern	___ Environmental Engineers	
___ Professional Land Surveyors		<u>21</u> <b>TOTAL</b>

**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. Not Applicable

2.

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

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

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

Scotty J. Baudoin, P.E. - President

**Project Assignment:**

Electrical Project Designer - Engineer

**Name of Firm with which associated:**

M & E Consulting, Inc.

**Years' experience with this Firm:**

25 years

**Education: Degree(s)/Year/Specialization:**

Bachelor of Science/1987/Electrical Engineering - Power Option

**Active registration: Year first registered/discipline:**

LA License #24710 - 1992 - Professional Engineer

**Other experience and qualifications relevant to the proposed Project:**

Mr. Baudoin coordinates all aspects of electrical design from project origination, through design, supervision and construction completion. He is familiar with the various systems related to water, waste water, lift stations, and street lighting. He has extensive experience in designing these systems for multiple municipalities and districts.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
David Carroll, P.E.
<b>Project Assignment:</b>
Electrical Project Designer - Engineer
<b>Name of Firm with which associated:</b>
M & E Consulting, Inc.
<b>Years' experience with this Firm:</b>
15 years
<b>Education: Degree(s)/Year/Specialization:</b>
Bachelor of Science/Electrical Engineering/2009
<b>Active registration: Year first registered/discipline:</b>
LA License #41691/2017/Professional Engineer
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>As Electrical Designer, David P. Carroll has designed electrical systems including lighting, power, emergency power, fire alarm, mass notification, surveillance, security, access control, data cabling, intercom, paging and video cabling. David has been employed with M &amp; E Consulting since 2007. Since graduation, in 2009, his duties have included electrical systems design for commercial and institutional construction in both new and retrofit applications.</p> <p>David's qualifications include experience in construction observation and shop drawing review to verify the work is conforming to contract documents. David is thorough in his coordination of design with architectural, mechanical and other systems. David has also been trained and received certification in AutoCAD Revit training. He is knowledgeable in record keeping from design, to specifications, through construction and with record documents.</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

<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
Approximately 20 Carencro Lift Stations, Carencro LA City of Carencro, 337-896-8481	Design electrical system for lift stations	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
Projects have been going on since 2008	Varies	Varies

### PROJECT NO. 2

<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
Carencro-Post Road WWTP Carencro LA City of Carencro, 337-896-8481	Design electrical power and controls. Design mechanical systems for buildings.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2023		\$134,000.00

**TEC Professional Services Questionnaire**

<b>PROJECT NO. 3</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility</b>	
Carencro-Manola WWTP Carencro LA City of Carencro, 337-896-8481	Design electrical power and controls	
<b>Completion Date (Actual or estimated)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2010		

<b>PROJECT NO. 4</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
Lafayette Consolidated Government Brown Park Lift Station Generator	Provide standby diesel generator for lift station	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2023 Estimated	This is the current project with Domingue and Szabo	\$150,000.00

**TEC Professional Services Questionnaire**

<b>PROJECT NO. 5</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
Town of Youngsville WWTP Upgrades, Town of Youngsville (337) 856-4181	Design electrical power and controls	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
This project was with Comeaux Engineering		\$350,000.00

<b>PROJECT NO. 6</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
Broussard Lift Stations South Eola Town of Broussard (337) 837-6681	Electrical design services for the upgrade of an existing lift station	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
This project was with Comeaux Engineering		\$1,800.00

## TEC Professional Services Questionnaire

<b>PROJECT NO. 7</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
St John the Baptist Ezekial Jackson Esperanza Lift Station	Design the electrical system for two lift stations	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2023 (estimated)		\$90,000.00

<b>PROJECT NO. 8</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
Tangipahoa Sewer District 1 Velma Lift Station Hammond, LA	Lift station installation and lift station upgrade.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
This project was with Spangler Engineering		\$80,000.00

**TEC Professional Services Questionnaire**

<b>PROJECT NO. 9</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
Hammond Lift Station Improvements FY 2020	Design Lift Station Improvements	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
This project was with Spangler Engineering		\$180,000.00

<b>PROJECT NO. 10</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
Hammond Lift Stations Mooney #24 Miss#MM	Design two new lift stations	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2022 Estimated This project is with Spangler Engineering	\$750,000.00	\$150,000.00

**TEC Professional Services Questionnaire**

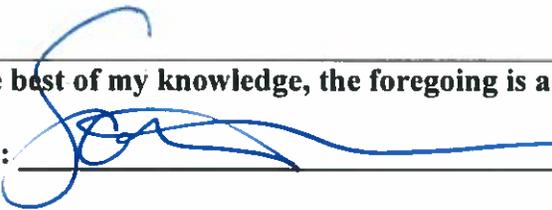
**M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.**

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1. Not applicable		
2.		
3.		
4.		

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

M & E Consulting has 25 years experience with Lift Stations and Waste Water Treatment Plants. We have done numerous projects throughout Louisiana.

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

Signature:  \_\_\_\_\_ Print Name: Scotty J. Baudoin

Title: President \_\_\_\_\_ Date: 6/20/2022

The Louisiana State Board of Registration  
for  
Professional Engineers and Land Surveyors

Hereby Certifies that  
M & E Consulting, Inc.

has complied with the regulations of this Board and is authorized to provide or to offer to  
provide Engineering services in the State of Louisiana contingent upon payment of the  
annual renewal fee.



Baton Rouge, La. January 7, 1997

*[Signature]*  
Chairman

*[Signature]*  
Secretary

Registration No. 2118



## LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 3/28/2022 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

	<b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LAPELS)</b>	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
<b>Mr. Scotty James Baudoin</b>		
License/Certificate Type - Number	Expiration Date	
<b>PE.0024710</b>	<b>03/31/2023</b>	
<b>Status: Active</b>		
<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>		

← Cut Here

Fold 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		
<p>* 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.</p>			



## LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 6/16/2022 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

	<b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LAPELS)</b> 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
	<b>Mr. David Patrick Carroll</b> License/Certificate Type - Number      Expiration Date <b>PE.0041691</b> <b>09/30/2023</b> <b>Status: Active</b>	
	<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>	

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		
<p>* 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.</p>			

## **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"/> <b>TOTAL</b>

**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:**

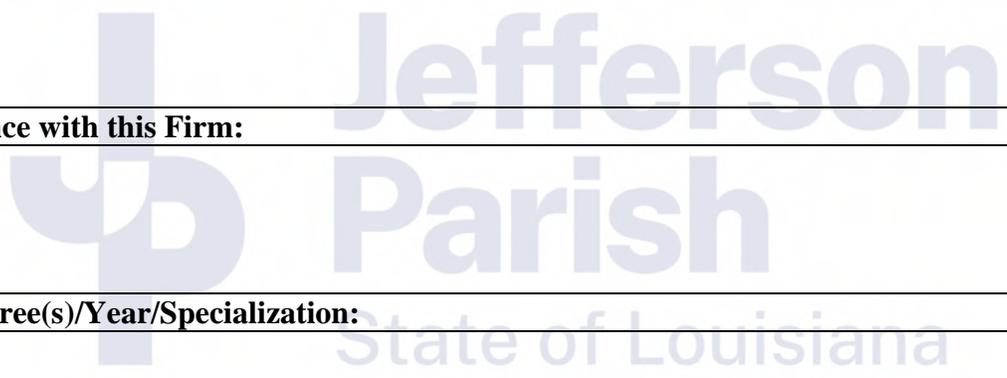
**Name of Firm with which associated:**

**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**

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

**TEC Professional Services Questionnaire**

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

**TEC Professional Services Questionnaire**

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

**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**

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

**PROJECT NO. 2**

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

**TEC Professional Services Questionnaire**

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

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

**TEC Professional Services Questionnaire**

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

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

**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: 6/16/2022

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

<b>a. Name and Title</b>	
Lynne Roussel, PE Principal and Regional Manager of Geotechnical Services	
<b>b. Project Assignment:</b>	
Principal In Charge   Senior Technical Oversight	
<b>c. Name of Firm with which associated</b>	
Terracon Consultants, Inc.	
<b>d. Years experience:</b>	
<b>With This Firm</b>	17
<b>With Other Firms</b>	0.0
<b>e. Education: Degree(s)/Year/ Specialization</b>	
Master of Science / 2005 / Geotechnical Bachelor of Science / 2003 / Civil Engineering	
<b>f. Active Registration: Year First Registered/Discipline</b>	
Year First Registered:	2009
Branch:	Professional Engineer, Civil - LA (35152)
<b>g. Other Experience and Qualifications relevant to the proposed project:</b>	
<p><b>Bucktown Outdoor Classroom, Jefferson Parish, LA</b> Ms. Roussel served as senior technical reviewer for the geotechnical project that included field exploration, laboratory testing and engineering.</p> <p><b>I-10 to LA-1 Connector 30% Design, Port Allen, LA</b> 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><b>LA Department of Transportation Geotechnical Retainer Contract, LA</b> Ms. Roussel serves as the contract manager and Project Reviewer for the retainer contract for services. The contract value is \$4 Million.</p> <p><b>Interstate 12 Widening, East Baton Rouge and Livingston Parishes, LA</b> 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><b>Cyprien Pump Station - Raceland, LA</b> 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.

<b>a. Name and Title</b>		<p><b>Jefferson Parish - Various Locations   Jefferson Parish, Louisiana (2019-current)</b> 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.</p> <p><b>Bucktown Outdoor Classroom, Jefferson Parish, LA (2021)</b> 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.</p> <p><b>Black River Drive Bridge, Madisonville, LA (2021)</b> 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 restrike PDA during driving of monitor piles, and observation of pile installation.</p> <p><b>Canal Street Development, New Orleans, LA (2021)</b> 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.</p> <p><b>City of New Orleans - Various Locations, New Orleans, LA (2017-current)</b> 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.</p> <p><b>Montz Area Pump Stations – Montz, LA, 2021-2022</b> 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.</p>		
Lizzy Stark, PE Senior Staff Engineer				
<b>b. Project Assignment:</b>				
Project Manager   Senior Project Engineer				
<b>c. Name of Firm with which associated</b>				
Terracon Consultants, Inc.				
<b>d. Years experience:</b>				
<b>With This Firm</b>	7		<b>With Other Firms</b>	0.0
<b>e. Education: Degree(s)/Year/ Specialization</b>				
Bachelor of Science / 2015 / Civil and Environmental Engineering				
<b>f. Active Registration: Year First Registered/Discipline</b>				
Year First Registered:	2020			
Branch:	Professional Engineer, Civil – LA (44481)			
<b>g. Other Experience and Qualifications relevant to the proposed project:</b>				
<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><b>JPRD Saints Dr. Girls Complex, Jefferson Parish, LA (2021)</b> Ms. Stark served as senior staff engineer for the subsurface exploration and geotechnical engineering for improvements to two existing softball fields.</p>				

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

<b>a. Name and Title</b>	
Anjelica Moran, EI Staff Engineer	
<b>b. Project Assignment:</b>	
Staff Engineer	
<b>c. Name of Firm with which associated</b>	
Terracon Consultants, Inc.	
<b>d. Years experience:</b>	
<b>With This Firm</b>	<b>With Other Firms</b>
1	5
<b>e. Education: Degree(s)/Year/ Specialization</b>	
Bachelor of Science / 2015 / Civil Engineering	
<b>f. Active Registration: Year First Registered/Discipline</b>	
Year First Registered:	2017
Branch:	Engineering Intern - LA (33229)
<b>g. Other Experience and Qualifications relevant to the proposed project:</b>	
<p><b>Bucktown Outdoor Classroom, Jefferson Parish, LA (2021)</b> 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><b>Carmelite Pump Station &amp; Drainage Improvements, Jones Point, LA (03/21 – 06/21)</b> <b>Geotechnical Engineer.</b> 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**

**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.

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.

**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.

**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.

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

<b>a. Name and Title</b>	
Eric B. Bellard Laboratory Supervisor   Construction Materials Technician	
<b>b. Project Assignment:</b>	
Laboratory Supervisor   Construction Materials Technician	
<b>c. Name of Firm with which associated</b>	
Terracon Consultants, Inc.	
<b>d. Years experience:</b>	
<b>With This Firm</b>	11
<b>With Other Firms</b>	0
<b>e. Education: Degree(s)/Year/ Specialization</b>	
N/A	
<b>f. Active Registration: Year First Registered/Discipline</b>	
Year First Registered:	N/A
Branch:	N/A
<b>g. Other Experience and Qualifications relevant to the proposed project:</b>	
<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><b>Bucktown Outdoor Classroom, Jefferson Parish, LA (2021)</b> Mr. Bellard served as laboratory supervisor/technician for the laboratory testing. He performed laboratory soil tests.</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.

**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.

**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.

**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.

**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.

**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.

**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 17 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 Regional Manager of Geotechnical Services.



*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/Senior Project Engineer** 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 consistently ranking in the top 25 of *Engineering News-Record's* Top 500 Design Firms. 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 lift station 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.

# Licenses

3/16/22, 9:46 AM

Print Lookup Details

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

Name: Public Address:  
 Terracon Ms. Barbara Boerner10841 South Ridgeview Road  
 Consultants, Inc. Olathe, Kansas 66061

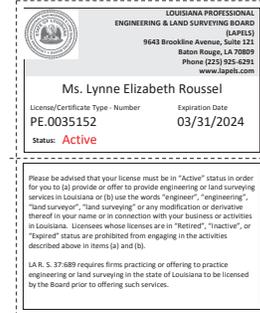
### License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF:0002749	Active	12/18/2001	03/31/2024	Mr. Zack Lemual Dial III # PE.0034872 - Active ; Ms. Laura Jean Campa # PE.0040847 - Active



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD  
 As of 3/16/2022 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



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.

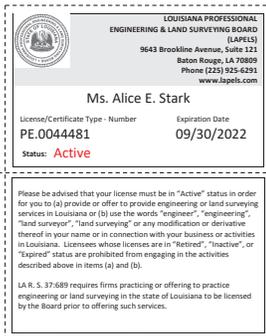
**Disclaimer**  
 All information provided by LAPELS on this web page, and on its other web pages and internet sites, is made available to provide immediate access for the convenience of interested persons. While LAPELS believes the information to be reliable, human or mechanical error remains a possibility, 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.

9643 Brookline Avenue, Suite 121 • Baton Rouge, Louisiana 70809-1433 • (225) 925-6291 • Fax (225) 925-6292 • www.lapels.com



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



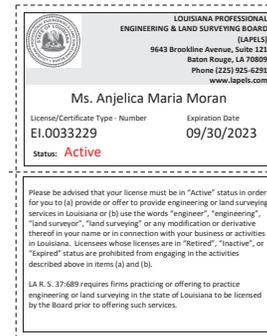
Print and keep the following information for your record or verification. The pocket card may also be printed on card stock or laminated to keep with you as license/certificate verification.

**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.



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



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.



# CERTIFICATE OF ACCREDITATION



## Terracon Consultants, Inc.

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 (aashresources.org).

*Ann Tymon*  
Ann Tymon,  
AASHTO Executive Director

*Moe Jamshidi*  
Moe Jamshidi,  
AASHTO COMP Chair

This certificate was generated on 05/05/2022 at 5:06 PM Eastern Time. Please confirm the current accreditation status of this laboratory at aashresources.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

Page 1 of 8

This certificate was generated on 05/05/2022 at 5:06 PM Eastern Time. Please confirm the current accreditation status of this laboratory at aashresources.org/aap/accreditation-directory



## 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

Page 2 of 8

This certificate was generated on 05/05/2022 at 5:06 PM Eastern Time. Please confirm the current accreditation status of this laboratory at aashresources.org/aap/accreditation-directory



## 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
T68 Particle Size Analysis of Soils by Hydrometer	01/03/2012
T69 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
T160 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	12/03/2013
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
D668 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
D654 Specific Gravity of Soils	01/03/2012
D1140 Amount of Material in Soils Finer than the No. 200 (75-µm) 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	12/03/2013
D2316 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

Page 3 of 8

This certificate was generated on 05/05/2022 at 5:06 PM Eastern Time. Please confirm the current accreditation status of this laboratory at aashresources.org/aap/accreditation-directory



## 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
D2550 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
D4543 Determination of Water (Moisture) Content of Soil by Microwave Oven Heating	12/03/2013
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	01/03/2012

Page 4 of 8

This certificate was generated on 05/05/2022 at 5:06 PM Eastern Time. Please confirm the current accreditation status of this laboratory at aashresources.org/aap/accreditation-directory



## 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-µm (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
T74 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-µm (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

Page 5 of 8

This certificate was generated on 05/05/2022 at 5:06 PM Eastern Time. Please confirm the current accreditation status of this laboratory at aashresources.org/aap/accreditation-directory





**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	01/02/2016
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
T162	Air Content of Freshly Mixed Concrete by the Pressure Method	07/27/2012
T166	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	01/02/2016
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

Page 6 of 8

This certificate was generated on 05/05/2022 at 5:06 PM Eastern Time. Please confirm the current accreditation status of this laboratory at [aashoresource.org/aap/accreditation-directory](http://aashoresource.org/aap/accreditation-directory)



**SCOPE OF AASHTO ACCREDITATION FOR:**

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

**Concrete (Continued)**

Standard:	Accredited Since:	
C1564	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	01/02/2016

Page 7 of 8

This certificate was generated on 05/05/2022 at 5:06 PM Eastern Time. Please confirm the current accreditation status of this laboratory at [aashoresource.org/aap/accreditation-directory](http://aashoresource.org/aap/accreditation-directory)



**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

Page 8 of 8

This certificate was generated on 05/05/2022 at 5:06 PM Eastern Time. Please confirm the current accreditation status of this laboratory at [aashoresource.org/aap/accreditation-directory](http://aashoresource.org/aap/accreditation-directory)