



STATEMENT OF QUALIFICATIONS FOR
REHABILITATION TO THE
NEYREY & VETERANS (F7-13) AND MARKET &
SAUVE (D4-7) LIFT STATIONS
RESOLUTION NO. 139102



ALL SOUTH CONSULTING ENGINEERS, LLC
652 PAPWORTH AVENUE, METAIRIE , LA 70005
OFFICE: (504) 322-2783 | FAX: (504) 322-2787

In Association with:
Terracon Consultants, Inc.

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

SOQ 22-028 Rehabilitation to the Neyrey & Veterans (F7-13) and Market & Sauve (D4-7) Lift Stations – Resolution No. 139102

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



652 Papworth Avenue,
Metairie, Louisiana 70005

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:

Timothy P. Bonura, P.E.
Managing Partner
504-322-2783
tim@ascellc.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.

Timothy P. Bonura, P.E.
Managing Partner
504-322-2783
tim@ascellc.com

John Teegarden, P.L.S.
Vice President, Survey Division Manager
504-322-2783
jteegarden@ascellc.com

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

<u>8</u> Administrative	<u>1</u> Estimators	<u>1</u> Specification Writers
<u>0</u> Architects (Licensed)	<u>0</u> Geologists	<u>3</u> Structural Engineers
<u>0</u> Chemical Engineers	<u>0</u> Geotechnical Engineers	<u>2</u> Graduate Engineers
<u>9</u> Civil Engineers	<u>0</u> Interior Designers	<u>4</u> Project Managers
<u>12</u> Construction Inspectors	<u>0</u> Landscape Architects	<u>3</u> Clerical
<u>0</u> Ecologists	<u>1</u> Land Surveyor	<u>10</u> Grant/Funding Specialist
<u>0</u> Electrical Engineers	<u>0</u> Mechanical Engineers	<u>0</u> Sanitary Engineers
<u>4</u> Engineer Intern	<u>0</u> Environmental Engineers	
<u>1</u> Professional Land Surveyor		<u>70</u> TOTAL

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

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

TEC Professional Services Questionnaire

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

1.

2.

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

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

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. Terracon Consultants, Inc. 524 Elmwood Park Blvd, Ste 170, New Orleans, Louisiana 70123	Geotechnical Engineering	Yes
2.		
3.		

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

All South Consulting Engineers, LLC will provide **10** key personnel to this project. With a total of **70** staff members, All South has ample additional resources to allocate as necessary.

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:

Timothy P. Bonura, P.E.
Partner/ Principal in Charge

Project Assignment:

Principal in Charge

Name of Firm with which associated:

All South Consulting Engineers, LLC

Years' experience with this Firm:

18

Education: Degree(s)/Year/Specialization:

Bachelor of Science, 1994, Civil Engineering

Active registration: Year first registered/discipline:

2001, Civil, Louisiana License No. 29351
2009, Civil, Mississippi License No. 18974
2009, Civil, Alabama License No. 30479
2010, Civil, Georgia License No. 34769

Other experience and qualifications relevant to the proposed Project:

Timothy Bonura, P.E. began his career in 1994 after receiving his Bachelor of Science in Civil Engineering from the University of New Orleans. Having worked in the Civil Engineering business for 10 years, establishing a strong and solid reputation in the metro New Orleans area, Mr. Bonura decided to start his own engineering firm.

In 2004, Mr. Bonura co-founded All South Consulting Engineers, LLC. As Principal, Mr. Bonura is involved in every aspect of the daily operations, which includes designs, project management, business development, client relations, and personally ensures all contractual obligations are fulfilled timely. He is the point of contact for the project owners and ensures that adequate resources are available to all team members.

Over the course of his career, Mr. Bonura has worked with many local, state and federal agencies and provided professional engineering and project management services on more than \$1 billion worth of projects throughout Southeast Louisiana. Mr. Bonura is providing guidance, direction and staffing for current projects. As point of contact between the owner and staff engineers, he ensures the project design and results are compatible with the owners' requested service.

TEC Professional Services Questionnaire

Bellemeade at Ginette Sewer Lift Station *Jefferson Parish, Louisiana*

This project consists of construction of a new wet well and valve pit, the construction of a new sewer force main and manhole and the demolition of the existing pump station. Mr. Bonura provided supervision and oversight for each phase of this project. His responsibilities include handling the bidding phase and assisting with oversight for the construction of this project.

Polk St. Lift Station Rehab *Houma, Louisiana*

Mr. Bonura led a team on the rehab of the Polk St. Lift Station in Terrebonne Parish. This lift station was over 20 years old and needed updating. This rehabilitation will include converting the existing lift station from a dry well lift station to a two (2) submersible pump lift station and all associated required removals, piping, pump, electrical and structural work required for the conversion. The replacement pumps will provide the same performance capacity as the existing pumps.

Install Permanent Sewer Connections Multiple State Parks *Multiple State Parks, Statewide, Louisiana*

This project consists of the analysis and design of permanent sewer connections to provide RV spots with sewer discharge capabilities at multiple state parks throughout Louisiana. Mr. Bonura provides leadership and oversight to personnel responsible for designing layouts for gravity and force main sewer throughout all RV parking areas including RV sewer hookups, cleanouts, manholes, gravity main lines and laterals, jack-and-boring of pipe, sewer lift stations, sewer force mains, and sidewalk and pavement restoration – all the while adhering to relevant plumbing codes and requirements for all design components; developing design quantities and cost estimates; developing project specifications catering to the regulations of the Facility Planning and Control guidelines; coordination with permitting agencies to ensure any and all permits were applied for and obtained. The project team has worked closely with members of the Louisiana Office of State Parks, members of the Louisiana Office of Facility Planning and Control, as well as staff members who work at each Louisiana State Park such as park managers and maintenance operators.

Bayou Country Sports Park *Houma, Louisiana*

Mr. Bonura led a team tasked with the development of the Bayou Country Sports Park, a 140-acre park site in Terrebonne Parish. This development included ball fields, soccer fields, concession stands, and other amenities. Improvements included in the infrastructure project included drainage, sewer, water, and roadway improvements. Drainage improvements consisted of several retention ponds located throughout the site, grading, and subsurface drainage. Three (3) lift stations for sewer were constructed due to low elevations throughout the site. Roadway improvements included the construction of roughly 4,000' of asphalt roadway along with a bike path. Installation of 12" PVC waterline was included to provide water to the various buildings that will be located throughout the site. This site was developed to be consistent with regional storm water and green space plans. This project utilized green infrastructure policies. The green features included fiber reinforced grass for parking, wetland simulation drainage retention ponds used for recreation.

Blimp Road Sewer Phase 1 *Houma, Louisiana*

Mr. Bonura led a team on the Blimp Road Sewer Improvements for the Houma Terrebonne Airport Commission. This project included the installation of approximately 2,540' of gravity sewer lines. These lines will be 8" in diameter, consistent with the Terrebonne Parish Consolidated Government standards for such improvements. The team conducted field data collection, prepared plans and specifications, and managed the construction of this work.

Blimp Road Sewer Phase 2 *Houma, Louisiana*

Mr. Bonura led a team on the Blimp Road Sewer Phase 2 Improvements for the Houma Terrebonne Airport Commission. This project included the installation of approximately 1,400' of gravity sewer lines. These lines will be 8" in diameter, consistent with the Terrebonne Parish Consolidated Government standards for such improvements. The team conducted field data collection, prepared plans and specifications, and managed the construction of this work.

CIS – Gray Campus Development *Gray, Louisiana*

Mr. Bonura led and provided project oversight to a team responsible for engineering services for the Cardiovascular Institute of the South, assisting in the master planning phase of a 24-acre tract medical campus. The scope included coordinating with multiple government agencies and utility providers to ensure compliance with sewer, water, drainage, gas, and concrete roadway regulations and zoning requirements.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Stephen Bourg, P.E. <i>Senior Vice President</i>
Project Assignment:
Senior Project Manager/ Senior Engineer
Name of Firm with which associated:
All South Consulting Engineers, LLC
Years' experience with this Firm:
16
Education: Degree(s)/Year/Specialization:
Bachelor of Science, Civil Engineering, 1994 Post-Graduate Studies – Structural Engineering, 1994-1996
Active registration: Year first registered/discipline:
1998, Civil, Louisiana License No. 28240
Other experience and qualifications relevant to the proposed Project:
<p>Stephen Bourg, P.E. joined All South Consulting Engineers in 2005, and is currently Senior Vice President managing both the design and disaster management divisions. His responsibilities include oversight of all design projects and grant programs. Mr. Bourg manages a staff of over 40 individuals including professional engineers, program/construction managers and other design/supporting professionals. Mr. Bourg has over 29 years of civil structural design experience and over 12 years of PA, HMGP, Debris & PDA experience on 7 federally declared disasters. He has overseen design, program and construction management of over 2 billion dollars of projects which include: schools, theme parks, roads, bridges, locks, drainage infrastructure, public utilities, pump stations, coastal restoration, levees, floodwalls, hotels, fire houses, high rise condos, community centers, and numerous commercial buildings.</p> <p>Bellemeade at Ginette Sewer Lift Station <i>Jefferson Parish, Louisiana</i> Mr. Bourg provided professional services for the design for the re-construction of an existing sewer pump station (P-12-7) at Bellemeade and Ginette to convert it from a self-priming station to a submersible pump station. This project consists of construction of a new wet well and valve pit, the construction of a new sewer force main and manhole and the demolition of the existing pump station. Mr. Bourg's responsibilities include handling the bidding phase and assisting with oversight for the construction of this project.</p> <p>Polk St. Lift Station Rehab <i>Houma, Louisiana</i> Mr. Bourg provided direction and oversight for the rehabilitation of the Polk St. Lift Station in Terrebonne Parish. This lift station was over 20 years old and needed updating. This rehabilitation will include converting the existing lift station</p>

TEC Professional Services Questionnaire

from a dry well lift station to a two (2) submersible pump lift station and all associated required removals, piping, pump, electrical and structural work required for the conversion. The replacement pumps will provide the same performance capacity as the existing pumps.

Install Permanent Sewer Connections Multiple State Parks *Multiple State Parks, Statewide, Louisiana*

This project consists of the analysis and design of permanent sewer connections to provide RV spots with sewer discharge capabilities at multiple state parks throughout Louisiana. Mr. Bourg provides leadership and oversight to personnel responsible for designing layouts for gravity and force main sewer throughout all RV parking areas including RV sewer hookups, cleanouts, manholes, gravity main lines and laterals, jack-and-boring of pipe, sewer lift stations, sewer force mains, and sidewalk and pavement restoration – all the while adhering to relevant plumbing codes and requirements for all design components; developing design quantities and cost estimates; developing project specifications catering to the regulations of the Facility Planning and Control guidelines; coordination with permitting agencies to ensure any and all permits were applied for and obtained. The project team has worked closely with members of the Louisiana Office of State Parks, members of the Louisiana Office of Facility Planning and Control, as well as staff members who work at each Louisiana State Park such as park managers and maintenance operators.

Sewer Lift Station Repairs/Upgrades *St. Bernard Parish, Louisiana*

Mr. Bourg provided professional services required to provide contract documents for public bid for the design and construction administration of repairs to over 20 flood damaged sewer lift stations throughout St. Bernard.

Blimp Road Sewer Phase 1 and 2 *Houma Terrebonne Airport Commission, Houma, Louisiana*

Mr. Bourg performed and supervised staff engineers for the design of the Blimp Road Sewer Improvements for the Houma Terrebonne Airport Commission. Phase 1 of this project included the installation of approximately 2,540' of gravity sewer lines. Phase 2 of this project included the installation of approximately 1,400' of gravity sewer lines. These lines are each 8" in diameter, consistent with the Terrebonne Parish Consolidated Government standards for such improvements.

Bayou Country Sports Park *Houma, Louisiana*

This project consists of developing a 150-acre site for a sports and recreational complex and includes roadways, parking areas, water, sewer, drainage and other recreational site improvements. This project included evaluating the existing site hydrology and developing a master drainage plan that limits the 25 year synthetic discharge to the pre-existing 10-year storm. Site specific difficulties include accounting for inundation from high tail water events, providing additional capacity for storm runoff from adjacent upstream sites and having to reduce pre-existing discharges into adjacent sites to no discharge. Specific tasks included hydrologic analysis of existing and developed conditions and preliminary hydraulic design.

Norco Sewer Improvements, *St. Charles Parish, Louisiana*

The Lake Pontchartrain Restoration Program was involved the rehabilitation of the existing Marino Pump Station. This facility pumped to an adjacent station in the sewerage treatment system of St. Charles Parish. The original facilities contained 4, above-ground pumps. These pumps were removed and the system was converted to a submersible system in order to provide greater storage capacity at this station. Mr. Bourg provided engineering oversight and management for this project

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Jarret Bauer, P.E. <i>Civil Engineer</i>
Project Assignment:
Project Engineer
Name of Firm with which associated:
All South Consulting Engineers, LLC
Years' experience with this Firm:
15
Education: Degree(s)/Year/Specialization:
Master of Science, Ongoing, Coastal and Ecological Engineering Bachelor of Science, 2007, Civil Engineering Bachelor of Science, 2005, Business Management
Active registration: Year first registered/discipline:
2011, Civil, Louisiana License No. 36720
Other experience and qualifications relevant to the proposed Project:
<p>Jarret Bauer is a graduate of Loyola University in New Orleans and Louisiana State University, achieving a B.S. in Civil Engineering and a B.A. in Business Administration from Loyola University in May 2005. Mr. Bauer has a distinguished career that spans over sixteen years of infrastructure design, construction administration, and project management experience primarily in the fields of transportation and facilities (residential and commercial). A majority of his experience has been hands-on management of large-scale construction projects for government municipalities along with a vast experience in disaster management assistance. His current expertise includes hazard mitigation projects involving hydraulic modeling using the latest software, Benefit-Cost Analysis using FEMA approved methodologies and tools to demonstrate the cost effectiveness of projects. His current and previous projects include:</p> <p>Sorrento Sewer Expansion <i>Sorrento, LA</i> This project consisted of a sewer layout design including several lift stations for roughly 5 miles in the Town of Sorrento. The purpose of this project was to incorporated the entire town into the existing sewer system. Mr. Bauer was responsible for designing and coordinating the design of gravity sewer lift stations, and oxidation pond improvements.</p> <p>Sorrento Oxidation Pond <i>Sorrento, Louisiana</i> Mr. Bauer designed repairs to the existing oxidation pond to increase flows throughout the pond. The existing oxidation pond had several blockages and points of reduced flow due to excess solids build up. Mr. Bauer designed a repair to the existing rock-reed filter, as well as repair of perforated headers and subsurface aeration to increase flows.</p> <p>Albany Sewer Treatment Plant – Hazard Mitigation BCA <i>Albany, Louisiana</i></p>

TEC Professional Services Questionnaire

Mr. Bauer developed a viable hazard mitigation project to install a sheet pile wall around the perimeter of an existing sewer treatment plant as a flood proofing measure. The Albany sewer treatment plant repeatedly flooded due to rising waters from the adjacent Little Natalbany River during significant rain events. A vinyl sheet pile wall was proposed around the perimeter of the site, and the existing treatment plant features were retrofit with more flood proofing measures. Treatment ponds were lined with concrete in lieu of natural earth, and final treatment processes damaged during high water events were replaced with flood-proof systems. Mr. Bauer performed a cost estimate for the project and all Benefit-Cost Analysis requirement using the current BCA toolkit to create a favorable benefit-cost ratio for grant funding.

Norco Sewer Improvements *St. Charles Parish, Louisiana*

The Lake Pontchartrain Restoration Program was involved the rehabilitation of the existing Marino Pump Station. This facility pumped to an adjacent station in the sewerage treatment system of St. Charles Parish. The original facilities contained 4, above-ground pumps. These pumps were removed, and the system was converted to a submersible system in order to provide greater storage capacity at this station.

Miscellaneous Sewer Lift Station Repairs *Plaquemines Parish/St. Bernard Parish, Louisiana*

Mr. Bauer worked on the evaluation of over 80 sewer lift stations damaged during Hurricane Katrina and prepared construction documents for many of the repairs. The repairs included new motors, pumps, wet well coatings and electrical panels.

Town of Springfield Sewer Lift Stations Project Hazard Mitigation Evaluation *Springfield, Louisiana*

Mr. Bauer completed the hazard mitigation grant application on behalf of Livingston Parish that was subsequently approved and is being used to fund design and construction of the project. The project involves constructing a concrete floodwall around the perimeter of the site, elevating electrical, creating access stairs into the project area, and construction an overhead rail crane to facilitate pump maintenance.

Town of Sorrento Sewer System Evaluation and Grants Management *Sorrento, Louisiana*

Mr. Bauer leads a team of professionals reviewing the Town of Sorrento existing sewer system and lift station performance in connection with grant opportunities to expand the system. Mr. Bauer oversaw operation to dredge material and clean the existing sewer treatment pond.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Jack Hingle, P.E. <i>Senior Civil Engineer</i>
Project Assignment:
Senior Engineer
Name of Firm with which associated:
All South Consulting Engineers, LLC
Years' experience with this Firm:
7
Education: Degree(s)/Year/Specialization:
Bachelor of Science, Civil Engineering, 1979, Louisiana State University
Active registration: Year first registered/discipline:
1987/ Civil PE Louisiana License No. 22622
Other experience and qualifications relevant to the proposed Project:
<p>Jack Hingle joined All South Consulting Engineers in 2014, bringing over 30 years of engineering experience. Mr. Hingle has extensive drainage, sewage, water, and roadway experience performing such design for local parishes and the LA DOTD.</p> <p>Polk St. Sewer Lift Station Rehabilitation <i>Houma, Terrebonne Parish, Louisiana</i> This project scope included performing the area topographic survey by in house personnel under my direction of an existing sewer lift station with 2 overhead pumps in a concrete wet well and above ground equipment housing; then developed design/engineering plans and details, specifications and costing for the demolition of existing pumps, replacing with 2 submersible more efficient pumps with all associated piping, structural, wet well coating and electrical details necessary to convert to SCADA system. All coordinated with and under guidance/approval of the Terrebonne Parish Consolidated Government engineering office to bidding, award and construction administration phase.</p> <p>CIS – Gray Campus Development <i>Gray, Louisiana</i> Mr. Hingle provided engineering services for the Cardiovascular Institute of the South, assisting in the master planning phase of a 24-acre tract medical campus. The scope included coordinating with multiple government agencies and utility providers to ensure compliance with sewer, water, drainage, gas, & concrete roadway regulations and zoning requirements.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Emily Newell, P.E. Civil Engineer
Project Assignment:
Project Engineer
Name of Firm with which associated:
All South Consulting Engineers, LLC
Years' experience with this Firm:
.5
Education: Degree(s)/Year/Specialization:
Bachelor of Science, Civil and Environmental Engineering, 2012
Active registration: Year first registered/discipline:
2015, Civil, Louisiana License No. 43646
Other experience and qualifications relevant to the proposed Project:
<p>Ms. Newell has been providing consulting engineering services for clients in Southeast Louisiana since 2007. Throughout her career, Ms. Newell has gained a broad range of experience in a variety of fields including land development; hydraulics; hydraulic modeling; wastewater collection and treatment; lift stations; water distribution systems; roadways; drainage collection systems; pumping stations; bulkheads; marsh creation; permitting; environmental assessments; construction administration; forensic engineering; grant assistance and other general engineering services.</p> <p>Since joining All South Consulting Engineers, Ms. Newell has been tasked with managing over \$16M in infrastructure improvements for clients in Lafourche and Jefferson Parishes. Ms. Newell understands the importance of being readily available and responsive to clients, permitting agencies, team members and other involved personnel and strives to answer calls and return messages promptly.</p> <p>Patriot & Longbridge Lift Station Rehabilitation, Jefferson Parish, Louisiana The Patriot & Longbridge Lift Station (M12-2) is an existing 345 gmp self-priming lift station located on the West Bank of Jefferson Parish. The aging pump and wet well are in poor condition and in-need of rehabilitation. Ms. Newell provided engineering and surveying services for lift station rehabilitation including topographic survey services, replacement of the pumps, piping, valves and concrete top along with wet well rehabilitation, new SCADA and ancillary drainage. The project is planned for construction this Summer.</p>

TEC Professional Services Questionnaire

Belle Chasse Sewage Collection System/Belle Chasse Ave. List Station Rehabilitation, Belle Chasse, Louisiana

The Belle Chasse Sewage Collection system is comprised of 135 sewer lift stations with 260 pumps and 104 miles of gravity sewer pipelines. Belle Chasse was aware some lift stations were not sufficient to pump against system head. The City authorized a hydraulic study to identify system weaknesses in about a third of the system and to identify potential improvements. Ms. Newell used as-built maps and lift station specifications to develop a hydraulic model of the system using Excel. Numerous lift stations were identified as insufficient. The model was then used to assess improvement alternatives. Findings were documented in a report. One project identified included the Belle Chasse Ave. A Lift Station Rehabilitation Project. This work included replacement of existing pumps and construction of approximately 1,900 linear feet of new force main under an existing roadway. Ms. Newell developed plans, profiles, and details for this work. The project was successfully completed in 2014.

Mark Twain Apartment Complex Lift Station Assessment Jefferson Parish, Louisiana

The Mark Twain II Apartment Complex is a 515 unit complex in River Ridge, Louisiana. Apartments on the first floor had been subject to sewage backups. The Complex sewage collection system is comprised of gravity sewer piping which discharges directly to a lift station about 275' north of the site. The Parish authorized a study to assess the cause of backflows. Ms. Newell estimated inflow to the station from the Complex and neighboring communities, assessed existing lift station capacities and hydraulic profile using elevation datum. It was found the existing lift station was insufficient to convey inflow. This, in conjunction with low variance in elevations between apartment finished floor and lift station water surface elevations, were found to be the likely cause of these backflows. Ms. Newell prepared a report documenting assessment, findings and proposed lift station improvements, which included new pumps and changes to pump cycling.

Kenner WWTP No. 3 Improvements Kenner, Louisiana

The Kenner WWTP No. 3 is the only wastewater treatment plant servicing the citizens of Kenner. The average daily flow to the plant is about 15 MGD. During wet weather events, inflow and infiltration subject the plant to upwards of 65 MGD. Numerous structures at the plant were subject to overflows during these events including the plant headworks and aeration basins. Due to this, the plants was facing significant fines from the EPA. Ms. Newell was tasked with providing design improvements which included a new elevated headworks with grit classifiers, screw press driven bar screens, new conveyance piping, 2 new clarifiers and ancillary structures to improve hydraulic profiles, reduce the risk of overflows and improve operator control for flow spitting and isolation. She provided hydraulic assessment of existing conditions and proposed improvements which were documented in a report. She was also in charge of DHH permitting. The \$16M project was bid within 3% of estimated costs and completed in 2017.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Steven Schorr, P.E. Civil Engineer
Project Assignment:
Project Engineer
Name of Firm with which associated:
All South Consulting Engineers, LLC
Years' experience with this Firm:
8
Education: Degree(s)/Year/Specialization:
Bachelor of Science, Civil Engineering, 2009 Minor in Structures, 2009
Active registration: Year first registered/discipline:
2015, Civil, Louisiana License No. 39515
Other experience and qualifications relevant to the proposed Project:
<p>Steven Schorr, PE joined All South as a licensed Engineering Intern in 2013. Mr. Schorr is providing engineering design, and construction administration on several roadway and drainage projects including Slidell FEMA Roads program and previously the Jefferson Parish FEMA Roads program. He has worked closely with the contractors and residents to making sure all complaints are addressed. Mr. Schorr's relevant experience includes:</p> <p>Install Permanent Sewer Connections to Multiple State Parks: <i>Multiple State Parks, Statewide, Louisiana</i> This project consists of the analysis and design of permanent sewer connections to provide RV Spots with sewer discharge capabilities at multiple state parks throughout Louisiana. From the beginning of these projects, Mr. Schorr has taken part in project meetings with state agencies such as Facility Planning and Control; designed layouts for gravity and force main sewer throughout all RV parking areas including RV sewer hookups, cleanouts, manholes, gravity main lines and laterals, jack-and -boring of pipe, sewer lift stations, sewer force mains, and sidewalk and pavement restoration – all the while adhering to relevant plumbing coeds and requirements for all design components; developed design quantities and cost estimates; developed project specifications catering to the regulations of the Facility Planning and Control guidelines; contacted and worked with permitting agencies to ensure any and all permits were applied for and obtained. Mr. Wetzel has worked closely with members of the Louisiana Office of State Parks, members of the Louisiana Office of Facility Planning and Control, as well as staff members who work at each Louisiana State Park such as park managers and maintenance operators.</p>

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Houma Terrebonne Airport Commission

Mr. Schorr is providing engineering support to lead engineer for the Improvements that include the construction of approximately 2500' gravity sewer line that will connect with the existing sewer system on the HTAC property. All South will also be coordinating these plans and improvements with the Terrebonne Parish Consolidated Government to ensure compliance with applicable Parish guidelines.

Tolmas Drive Sewer Force Main *Metairie, Louisiana*

Mr. Schorr was provided professional engineering services for the Tolmas Drive Sewer Force Main sewer improvements in Metairie which consisted of directional boring roughly 5,000 feet of force main pipe and gravity lines and installing manholes with air release valves. Mr. Schorr was responsible for the design layout of sewer force main beneath concrete streets and coordinating with utilities to avoid any conflicts. He compiled materials quantities, cost estimate and other contract documents including technical specifications, and developed the traffic control plan layout for this project. This project had a very short timeline to meet the commitments made to the developer by the Parish. From selection by the council to signed construction contract was performed in 6 months.

Schneider Canal Drainage Basin Infrastructure Repairs *Slidell, Louisiana*

Mr. Schorr was the primary project manager for the rehabilitation of about 65,569 SY of concrete road panels and over 37,902 SY of asphalt roadway in Slidell, Louisiana. This project also included 42,259 LF of Sewer Repairs and 10,464 LF of Drainage Repairs. These streets were damaged in Hurricane Katrina, and Mr. Schorr provided day to day management of the design and construction management for this project. This project consisted of reviewing and including eligible FEMA roadway, drainage and sewer repairs in a set of project documents. Mr. Schorr's duties included overseeing all design and assuring that all eligible work was included in the project plans. He also created details and roadway sections to illustrate how to the work should be constructed.

W-14 Drainage Basin Infrastructure Repairs *Slidell, Louisiana*

Mr. Schorr was the primary project manager for the rehabilitation of about 40,500 SY of concrete road panels and over 12,300 SY of asphalt roadway in Slidell, Louisiana. This project included 2,151 LF of Drainage Repairs and 21,404 LF of Sewer Repairs. These streets were damaged in Hurricane Katrina, and Mr. Schorr provided day to day management of the design and construction management for this project.

Bayou Vincent Drainage Basin Infrastructure Repairs *Slidell, Louisiana*

Mr. Schorr was the primary project manager for the rehabilitation of about 2,885 SY concrete road panels and over 47,920 SY of asphalt roadway in Slidell, Louisiana. This project also included 23,333 LF of Sewer Repairs and 5,654 LF of Drainage Repairs. These streets were damaged in Hurricane Katrina, and Mr. Schorr provided day to day management of the design and construction management for this project. This project consisted of reviewing and including eligible FEMA roadway, drainage and sewer repairs in a set of project documents. Mr. Schorr's duties included overseeing all design and assuring that all eligible work was included in the project plans. He also created details and roadway sections to illustrate how to the work should be constructed.

Bayou Bonfouca Canal Drainage Basin Infrastructure Repairs *Slidell, Louisiana*

Mr. Schorr was the primary project manager for the rehabilitation of about 46,000 SY concrete road panels and over 48,887 SY of asphalt roadway in Slidell, Louisiana. This project also included 21,000 LF of Sewer Repairs and 13,000 LF of Drainage Repairs. These streets were damaged in Hurricane Katrina, and Mr. Schorr provided day to day management of the design and construction management for this project. During construction of the project, scope was added to repair over 700 LF of 4'x6' box culverts. Mr. Schorr performed all aspects of design and construction admin for the projects which included precast boxes, cast in place box culverts, and cured in place pipe (CIPP) repairs for areas that were inaccessible from above ground. Construction admin for the project included coordinating construction phases with the contractor, resident inspector and Owner, and working with the contractor to resolve unforeseen construction conditions.

TEC Professional Services Questionnaire

PROFESSIONAL IN CHARGE OF PROJECT:
Name & Title:
Scott Wetzel, E.I. <i>Engineering Intern</i>
Project Assignment:
Engineer Intern
Name of Firm with which associated:
All South Consulting Engineers, LLC
Years' experience with this Firm:
3
Education: Degree(s)/Year/Specialization:
Bachelor of Science, Civil Engineering, 2019
Active registration: Year first registered/discipline:
2020, Civil Engineer Intern, Louisiana License No. 34471
Other experience and qualifications relevant to the proposed Project:
<p>Scott Wetzel joined All South in July of 2019 after graduating from LSU in May of 2019. He recently received his license as an Engineering Intern. During his time with All South, Mr. Wetzel has assisted different Engineers with a variety of projects performing various tasks. He has assisted in roadway and drainage projects providing help with design and construction administration for multiple Slidell FEMA projects. Mr. Wetzel has worked closely with contractors, inspectors, and residents to ensure all complaints and issues are addressed. His experience includes the following:</p> <p>Install Permanent Sewer Connections to Multiple State Parks: <i>Multiple State Parks, Statewide, Louisiana</i> This project consists of the analysis and design of permanent sewer connections to provide RV Spots with sewer discharge capabilities at multiple state parks throughout Louisiana. From the beginning of these projects, Mr. Wetzel has taken part in project meetings with state agencies such as Facility Planning and Control; designed layouts for gravity and force main sewer throughout all RV parking areas including RV sewer hookups, cleanouts, manholes, gravity main lines and laterals, jack-and -boring of pipe, sewer lift stations, sewer force mains, and sidewalk and pavement restoration – all the while adhering to relevant plumbing coeds and requirements for all design components; developed design quantities and cost estimates; developed project specifications catering to the regulations of the Facility Planning and Control guidelines; contacted and worked with permitting agencies to ensure any and all permits were applied for and obtained. Mr. Wetzel has worked closely with members of the Louisiana Office of State Parks, members of the Louisiana Office of Facility Planning and Control, as well as staff members who work at each Louisiana State Park such as park managers and maintenance operators.</p>

TEC Professional Services Questionnaire

PROFESSIONAL IN CHARGE OF PROJECT:
Name & Title:
John Teegarden, P.L.S. <i>Vice President/ Survey Division Manager</i>
Project Assignment:
Senior Professional Land Surveyor/ Survey Project Manager
Name of Firm with which associated:
All South Consulting Engineers, LLC
Years' experience with this Firm:
7
Education: Degree(s)/Year/Specialization:
International Correspondence School, Surveying and Mapping Course (2-year course completed)
Active registration: Year first registered/discipline:
1990/ Professional Land Surveyor/ Louisiana License No. 4635 1999/ Professional Land Surveyor/ Mississippi License No. 2782
Other experience and qualifications relevant to the proposed Project:
<p>John S. Teegarden, PLS joined All South Consulting Engineers, LLC in 2014 as Vice President and Survey Division Manager. Mr. Teegarden has extensive experience in all aspects of land surveying including boundary, elevation, topographic, hydrographic, industrial, and construction projects. Over his 38-year career, he has participated in or directed surveys for a wide variety of clientele including local municipal and governmental agencies, state agencies, and federal agencies (including the U.S. Army Corps of Engineers). In his career, he has served as a Field Party Chief, Field Supervisor, CAD Technician, Project Manager, and Division Manager.</p> <p>Mr. Teegarden's varied project experience includes high precision survey control, single and multibeam hydrographic surveys, large boundary surveys, surveys for public right-of-way taking, topographic route surveys, mapping of subsurface utilities based on the markings provided by a subsurface utility engineering firm, coastal restoration projects, laser scanning surveys and GPS project surveys, to name just a few. This experience includes over 20 years' experience in directing and performing hydrographic surveys. He has executed and/or supervised numerous hydrographic surveying projects throughout Coastal Louisiana.</p> <p>Install Permanent Sewer Connections, Multiple State Parks Statewide, Louisiana Mr. Teegarden provided topographic surveying services to determine existing topographic features and conditions to aid in the design of permanent sewer connections for the Recreations Vehicle Parks located withing 9 Louisiana State Parks. There are approximately 570 recreational vehicle Campground sites that will receive the permanent sewer connections.</p>

TEC Professional Services Questionnaire

Blimp Road Sewer Phases 1 & 2 *Houma Terrebonne Airport Commission, Houma, Louisiana*

Mr. Teegarden conducted a topographic survey of the route for a new gravity sewer line using GPS and robotic total station. He processed files for import into AutoCAD Civil 3D and used the data to create a topographic survey map.

Bayou Country Sports Park *Houma, Louisiana*

Mr. Teegarden provided topographic survey services for several aspects of the Bayou Country Sport Park Development in Terrebonne Parish. This 140-acre development includes baseball, softball, soccer, and other amenities. Mr. Teegarden provided survey services to support the development of the drainage, water, sewer, and roadway improvements, and performed significant construction layout services.

DPW Capital Improvements Program – Pines Village *New Orleans, Louisiana*

Mr. Teegarden supervised multiple field crews providing topographic surveys for street, water, sewer, and drainage system repairs from damage caused by Hurricane Katrina. This project included +/- 75,600 ft of streets.

DPW Capital Improvements Program – Viavant–Lake Catherine *New Orleans, Louisiana*

Mr. Teegarden supervised and provided instructions to survey crews performing topographic surveys for road, water, and drainage system repairs as a result of Hurricane Katrina.

Breakwater Drive Improvements *New Orleans, Louisiana*

Mr. Teegarden and his crew conducted a topographic survey for Breakwater Drive in New Orleans. He was tasked with identifying the scope of damaged elements inside the footprint of Breakwater Drive, while highlighting the facility's history and cultural significance, as well as its pre-storm conditions and full description. From this survey, All South identified additional facilities not directly within the footprint of the breakwater but that depend on it for protection (includes marinas, restaurants/vendors, housing, yacht clubs, a lighthouse, fishing piers, and more) and were able to provide cost estimates for the demolition and repairs of the damaged elements in the area.

Reynes Street Topographic Survey, *New Orleans, Louisiana*

Mr. Teegarden and his staff provided a topographic survey of Reynes Street from South Claiborne Avenue to Florida Avenue in the City of New Orleans. This survey extended from right of way to right of way and was delivered on plan and profile sheets showing drainage and sewer and existing roadway conditions.

Canal No. 10 Underground Utility Locations *Jefferson Parish, Louisiana*

Mr. Teegarden provided topographic survey services for the West Esplanade at Canal 10 Drainage Improvements project. His responsibilities included a topographic survey of canal crossing, location of underground utilities located by subsurface utility engineering contractor and added to an existing topographic survey.

Lake Cataouatche Pump Station Topographic Survey *Jefferson Parish, Louisiana*

Mr. Teegarden and his team prepared a topographic survey at the site of the current Lake Cataouatche pump station located on Churchill Farms. The survey area adjacent to the existing pump station will be the site for a new pump station under design. The survey included cross sections of the site and the adjacent canal along with the location of improvements in the project area.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Taylor Casteigne, LSI Land Surveyor Intern, Survey Supervisor
Project Assignment:
Land Surveyor Intern
Name of Firm with which associated:
All South Consulting Engineers, LLC
Years' experience with this Firm:
2
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 2019 / Geomatics
Active registration: Year first registered/discipline:
2021/ Land Surveyor Intern/ Louisiana License No. 0000714
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Casteigne is a graduate from Nicholls State University with a degree in Geomatics. After graduation, he served as party chief and AutoCAD draftsman doing a variety of surveys for both roadways and pump stations in the state of Louisiana. He is well versed in the latest in surveying equipment technology to ensure a fast and accurate project survey.</p> <p>Riverbend Oxidation Pond <i>Jefferson Parish, Louisiana</i> Mr. Casteigne performed full topographic survey and CAD services, including locating all subsurface utilities in accordance with department standards for the design and construction of improvements for the Riverbend Oxidation Pond Pump Station and the installation of a new sewer force main. This included performing the necessary field work for the survey, then processing the data into a useable format. Once the data was in a useable format it is imported into Auto CAD, where the data is used to build a TIN surface. With this surface cross sections are generated over the required areas based on the scope. Contours are then generated showing lines of constant elevation. The budget for the project was tracked daily ensuring that the survey was completed on time and under budget. This included placing LA One Call tickets, giving field crews the list of tasks needed to complete the project, and ensuring the project was completed in an orderly fashion.</p> <p>Jefferson Parish Juvenile Services Survey <i>Metairie, Louisiana</i> Mr. Casteigne performed full topographic survey and CAD services, including locating all subsurface utilities in accordance with department standards for the design and construction of facility improvements. This included performing the necessary field work for the survey, then processing the data into a useable format. Once the data was</p>

TEC Professional Services Questionnaire

in a useable format it is imported into Auto CAD, where the data is used to build a TIN surface. With this surface cross sections are generated over the required areas based on the scope. Contours are then generated showing lines of constant elevation. The budget for the project was tracked daily ensuring that the survey was completed on time and under budget. This included placing LA One Call tickets, giving field crews the list of tasks needed to complete the project, and ensuring the project was completed in an orderly fashion.

Savanne Rd Drainage Improvements *Houma, Louisiana*

Mr. Casteigne performed full boundary surveying services for the acquisition of a servitude by Terrebonne Parish for drainage Improvements. This included performing the necessary field work for the survey, then processing the data into a useable format. Once the data was in a useable format it is imported into Auto CAD where a boundary map could be prepared.

St. Louis Canal Rd *Houma, Louisiana*

Mr. Casteigne performed full boundary surveying services for the acquisition of a servitude by Terrebonne Parish for drainage Improvements. This included performing the necessary field work for the survey, then processing the data into a useable format. Once the data was in a useable format it is imported into Auto CAD and have a boundary map prepared.

Bayou Barataria Waterline Crossing *Lafitte, Louisiana*

Mr. Casteigne performed full topographic and hydrographic survey services including data collection, data processing, data management, CAD, and project budget oversight. This includes performing the necessary field work for the survey, then processing the data into a fieldbook file. Once the data was in a fieldbook it is imported into Auto CAD, where the data is used to build a TIN surface. With this surface, Plan and Profile sheets could be generated along with cross sections across Bayou Barataria. This project was done at the request of Jefferson Parish for the installation of a new waterline running along Rosethourne Rd then crossing Bayou Barataria.

Avoca Island Topographic Survey *St. Mary Parish, Louisiana*

Mr. Casteigne performed full survey services including data collection, data processing, data management, CAD, and project budget oversight. This includes performing the necessary field work for the survey, then processing the data into a fieldbook file. Once the data was in a fieldbook it is imported into Auto CAD, where the data is used to build a TIN surface. With this surface cross sections are generated over the required areas based on the scope. This project was done at the request of Avoca Island for drainage improvements to be made on the island.

Lisa Park Development *Houma, Louisiana*

Mr. Casteigne performed full survey services including data collection, data processing, data management, CAD, and project budget oversight for improvements to be made in the open space at Lisa Park Elementary School. This included performing the necessary field work for the survey, then processing the data into a useable format. Once the data was in a useable format it is imported into Auto CAD, where the data is used to build a TIN surface. With this surface cross sections are generated over the required areas based on the scope. Contours are then generated showing lines of constant elevation. The budget for the project was tracked daily ensuring that the survey was completed on time and under budget. This included placing LA One Call tickets, giving field crews the list of tasks needed to complete the project, and ensuring the project was completed in an orderly fashion. This included placing LA One Call tickets, giving field crews the list of tasks needed to complete the project, and ensuring the project was completed in an orderly fashion.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Jackson Sorrells Senior CADD Technician
Project Assignment:
CADD Technician III/ Draftsman
Name of Firm with which associated:
All South Consulting Engineers, LLC
Years' experience with this Firm:
5
Education: Degree(s)/Year/Specialization:
Bachelor of Science, Organizational Leadership, Land Surveying Studies, Ongoing Associate of Applied Science / 2017/ Civil Construction and Engineering Technology Associate of Applied Science / 2011/ Drafting and Design
Active registration: Year first registered/discipline:
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Sorrells joined the All South team after 8 years in the Land Surveying industry. His experience includes AutoCAD C3D which he utilizes in survey and design projects that include topographic, boundary, route corridor surveys, hydrographic surveys, ALTAs, field data input, plan and profile sheets, import/export of survey points, proposed design corridors, and volume calculations. Mr. Sorrells coordinates with field crews, drafters, engineers, and clients to generate AutoCAD C3D drawings and plan sheet sets from the beginning of a project to final stamped plans. His current and previous projects include, but not limited to:</p> <p>Install Permanent Sewer Connections to Multiple State Parks <i>Statewide, Louisiana</i> This project consists of topography surveys and design of permanent sewer connections to provide RV Spots with sewer discharge capabilities at multiple state parks throughout Louisiana. Mr. Sorrells developed topographic survey drawings and design layouts for gravity and force main sewer throughout all RV parking areas including RV sewer hookups, cleanouts, manholes, gravity main lines and laterals, jack-and -boring of pipe, sewer lift stations, sewer force mains, and sidewalk and pavement restoration. Mr. Sorrells coordinated with several engineers/project managers to complete this project to their specifications since each site was unique.</p> <p>Sorrento Sewer Expansion <i>Town of Sorrento, Louisiana</i> Mr. Sorrells prepared the topographic survey and design plans for the installation of sewerlines, manholes and lift stations for the town of Sorrento. This project consisted of plan and profiles for multiple streets in the town of Sorrento. This project is in the design process and Mr. Sorrells is coordinating with multiple project engineers to complete this project.</p>

TEC Professional Services Questionnaire

Riverbend Oxidation Pond Improvements *St. Bernard, LA*

Mr. Sorrells prepared the topography survey and design plans for the improvement of the Riverbend oxidation pond. The project also included the design of a larger wet well, relocation of power supply, new aerators located around the oxidation pond, as well as upgrading the UV treatment system to a chlorination treatment system. Plan and profile drawings were created for the installation of a new sewer force main down E. Judge Perez Drive to the Mississippi river for discharge. Mr. Sorrells coordinating with the project engineer to complete this project in a timely manner.

Munster Wastewater Treatment Plant *St. Bernard, LA*

Mr. Sorrells prepared the topography survey and design layout for process blower replacement at the Munster wastewater treatment plant located in St. Bernard, Louisiana. Details and plan for a new support skid were drawn by Mr. Sorrells as well. A new canopy was needed for covering the new blowers, Mr. Sorrells developed these plans while coordinating with the project engineer.

CIS – Gray Campus Development *Gray, Louisiana*

Mr. Sorrells prepared the design plans for the construction of a Cardiovascular Institute of the South. The plans included new site plan, pavement plan, drainage and grading plan, sewer and water plans and utility plan. Also included in the plans were the topographic survey and a new retention pond design. Mr. Sorrells coordinated with the project engineer and sub-contractors to conform and finalize the plans

Bayou Country Sports Park *Terrebonne Parish, Louisiana*

All South's role in this project was to develop new roadway, drainage, and utility plans for the development of a major sports park in Terrebonne Parish. Mr. Sorrells developed the site plan, roadway plan/profiles, drainage, water, and sewer drawings. He also prepared exhibits and alternate drawings for the drainage study associated with the project.

DPW Capital Improvements Program – Lake Vista *New Orleans, Louisiana*

Mr. Sorrells prepared survey baseline drawings, topographic plan sheets and profiles depicting the existing underground utilities for the streets in the Lake Vista project. These surveys depicted the elevations of the streets to show centerline and gutter line profiles, the surface created showed the many imperfections and potholing in the streets. Utility information was researched and observed to show the areas in need of repair or replacement of major drainage, sewer and water lines. Right-of-way lines, apparent lot lines, 3D surface, and cross sections were also included. Mr. Sorrells was also involved in the design phase of this project, coordinating with engineers and subconsultants to prepare drawings depicting the proposed new roadway, elevations, cross sections, new subsurface drainage, sewerage and water for approximately 4900' of roadway and sidewalks. This project also conformed to Orleans Parish DPW standards.

DPW Capital Improvements Program – Audubon, Black Pearl, East Carrollton, Uptown, West Riverside, Pines Village *New Orleans, Louisiana*

Mr. Sorrells prepared survey baseline drawings, plan sheets and profiles depicting the underground utilities for the streets in the Uptown project. These surveys depicted the elevations of the streets to show centerline and gutter line profiles, the surface created showed the many imperfections and potholing in the streets. Utility information was researched and observed to show the areas in need of repair or replacement of major drainage, sewer and water lines. Also included were right-of-way lines, apparent lot lines, 3D surface, and cross sections.

DPW Capital Improvements Program – Uptown Streets, Lakeview East/West, Lakeshore, Viavant, Fairgrounds, Navarre, Lakewood, Mid City East/West, West End, Broadmoor, St. Claude *New Orleans, LA*

Mr. Sorrells has been heavily involved in the entire Orleans Parish Street Rehabilitation Projects. From Lakeview to Venetian Isles. Mr. Sorrells prepared baseline maps, project work aerials and coordinated with approximately 12 field crews. These projects included topographic surveys, subsurface drainage, sewerage and water profiles. Providing up to date field information was key in completing these jobs in a timely manner. Mr. Sorrells met with clients and engineers to obtain information vital to completing these projects.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Peter Giovingo Resident Inspector
Project Assignment:
Resident Inspector
Name of Firm with which associated:
All South Consulting Engineers, LLC
Years' experience with this Firm:
16
Education: Degree(s)/Year/Specialization:
University of New Orleans – Business Management
Active registration: Year first registered/discipline:
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Giovingo has over 16 years of experience in construction operations and inspection. In his capacity as a construction inspector, Mr. Giovingo monitors all aspects of construction execution to ensure conformance to plans, specifications, and regulatory measures. He also monitors, maintains logs, and produces daily reports with photographic evidence to document and provide proof of work scope performed. He is expertly skilled in electrical inspection and process, is a DOTD Certified Asphalt inspector and has a vast variety of experience in the construction of lift stations, Portland Cement Road Construction, Asphalt Road Construction, Earthen and sheet pile levees, and exterior electrical utilities.</p> <p>Mr. Giovingo holds the following certifications:</p> <ul style="list-style-type: none">• ATSSA Traffic Control Supervisor• ATSSA Traffic Control Technician• ATSSA Flagger• LaDOTD Introduction to Hazmat <p>Ellington Pump Station St. Charles Parish, Louisiana All South Consulting Engineers provided resident inspection services for the construction of new drainage pump station. As resident inspector, Mr. Giovingo reviews specifications and plans for assigned project to ensure project is constructed as specified and drawn, inspects and monitors all work in progress, verifies that materials on site conform to specifications and drawings, monitors truckload deliveries, monitors concrete truck deliveries, photographs pertinent activities on jobsites showing construction details, witnesses tests performed by testing agency, logs notes on daily</p>

TEC Professional Services Questionnaire

reporting forms, attends any required project meetings on site, lists any jobsite visitors, documents all health, safety or environmental incidents, documents work stoppage or delays, reviews daily notes for accuracy, and develops lists of outstanding information required to complete projects.

East St. John High School Hazard Mitigation Flood Protection and Pump Station *St. John the Baptist Parish, Louisiana*

Mr. Giovingo was a resident inspector for the installation of new sub surface drainage system and on-site pump station, including sheet piles, catch basins, sluice gate, 3 pumps, and gas generator. Permanent Flood control systems: Construction of over 4,600 LF of earthen and sheet pile levee, new underground drainage lines establishment of a new pump station. Inspection duties included verification of survey data, contractor alignments and layout for construction, drainage invert elevations, materials testing and overall safety for construction activities. He monitored testing and preconditioning of soil and levee structures, soil density testing in lifts, concrete base and material sampling and sheet pile wall construction. Inspection duties also included daily traffic control of 29 buses and over 2,000 students, construction and testing of drainage structures and damaged utilities cut or hindered during construction. Assisted in verification of pay apps and required documentation for repairs and warranty information.

Alidore Pump Station Drainage Improvements *Lafourche Parish, Louisiana*

Mr. Giovingo was the primary inspector for this project which included a new pumping station and site work infrastructure, including improved ditch cross-sections, platform and piping configurations, steel sheeting for sump area, rip rap and all utility adjustments to support the new system for 183 cfs capacity. The project included 3-36" vertical lift pumps with discharge piping between BNSF Railroad crossings via jack and bore operations for 3-42" x 82' steel casings and 36" steel discharge pipes to outfall into the marsh. Mr. Giovingo reviewed plans and specifications, ensured contractor followed plans according, completed daily reports documenting tasks completed each day and take photos for log.

Fire Station 12 *Jefferson Parish, Louisiana*

Mr. Giovingo is providing resident inspection services for this project in Jefferson Parish. The structure was comprised of 3,700 SF of a two-story living quarters adjacent to an 840 SF single engine bay. The unique aspect of this project was minimal available space to situate all features; property was only 60' wide by 100' in depth and had existing roadways at both front and rear of the lot. The building had sleeping quarters for five (5) persons, required 5 parking spaces, and a van accessible handicap space. Building was equipped with a backup generator situated at grade meeting NFPA distance requirements.

TEC Professional Services Questionnaire

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

PROJECT NO. 1

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Bellemeade at Ginette Lift Station <i>Gretna, Louisiana</i></p> <p>Jefferson Parish Government Neil Schneider, Capital Projects 1221 Elmwood Park Blvd. Jefferson, Louisiana 70123 (504) 736-6500</p> 	<p>All South Consulting Engineers provided professional design services for the re-construction of an existing sewer pump station (P-12-7) at Bellemeade and Ginette to convert it from a self-priming station to a submersible pump station. The existing lift station was below grade therefore updates were needed to increase the flow rate to provide additional capacity to the community.</p> <p>Service included the preparation of construction plans and specifications for public bid, Construction Management and resident project representative for the following:</p> <ul style="list-style-type: none"> • Replaced the existing lift station (750 GPM) with a new submersible duplex lift station (800-900 GPM). • New submersible lift station was located within Ginette St. to minimize by-pass pumping. • Provided new pile supported 8' diameter fiberglass wet well. • Provided two new submersible pumps. • Tied into existing 8" SFM and maximized pump capacity at 7u fps of velocity through force main (approx. 900 GPM). • Valve pit located within Ginette St. and should be of sufficient size to house valves, EPO with room for maintenance of valves. • Both the wet well and valve pit have hatched capable of H-20 traffic load. • Existing road (Ginette St.) was removed and replaced per Jefferson Parish standards. • Existing lift station was demolished below grade and backfilled after completion of new pump station. <p>Construction Administration Duties included preparation of construction documents including plans and specifications, assisting Jefferson Parish with bidding and oversight of construction activities.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
05/2017	\$785,205	\$186,565

TEC Professional Services Questionnaire

PROJECT NO. 2		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Polk Street Sewer Lift Station Rehabilitation <i>Houma, Louisiana</i></p> <p>Terrebonne Parish Consolidated Government Pollution Control P.O. Box 2768 Houma, La 70361 (985) 850-4626</p>	<p>The Terrebonne Parish Consolidated Government (TPCG) selected All South Consulting Engineers to rehabilitate the Polk St. Sewer Lift Station. This rehabilitation included converting the existing lift station from a dry well lift station to a two (2) submersible pump lift station and all associated required removals, piping, pump, electrical and structural work required for the conversion. The replacement pumps provide the same performance capacity as the existing pumps. The work also included the clean out and coating of the wet well and upgrades necessary to connect the lift station with the SCADA control system.</p> <p>All South provided engineering, design, survey, construction administration, and resident inspection services for this project on behalf of the Terrebonne Parish Consolidated Government. The work was performed sufficiently to allow for the advertisement, bidding, and construction of this project in conformance with the La. Public Bid Law, and related rules and regulations. Our firm provided the necessary plans and specifications and supported the TPCG during advertisement and bidding of the project. Additionally, All South provided a recommendation for award based on the bids received and assisted in construction administration of the project.</p>	
		
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
03/2019	\$365,150	\$49,500

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Tolmas Tract Force Mains <i>Jefferson Parish, Louisiana</i></p> <p>Jefferson Parish Government Brett Todd Director of Sewerage 1221 Elmwood Park Blvd. Jefferson, Louisiana 70123 (504) 736-6661</p>	<p>All South Consulting Engineers was selected to provide professional engineering and supplemental services for the installation of Tolmas Tract Force Mains.</p> <p>The Jefferson Parish Sewerage Department determined a need for installation of new Tolmas Tract Force Mains to relocate and extend the existing force mains from lift stations G7-3, G7-5 and G8-2 directly to lift station G7-6 out of the Tolmas Tract development area.</p> <p>All South has conducted a preliminary assessment of the area and developed preliminary solutions. The scope of the project was to eliminate the overflows by upgrading the force mains & modifying the Lift Stations if needed for adequate flow rates. The Scope includes evaluating 2 (two) proposed force main extensions and abandoning 1,500' of existing 8" sewer force main.</p> <p>The first proposed 12" force main extension was approximately 2,100' beginning from sewage lift station G7-3 at the southern apparent R/W of 20th St. at Tolmas Drive and proceed south along Tolmas Dr. to the southern apparent R/W of 22nd St. then east along 22nd St. to 50 ft. past Clifford Drive. From 22nd Street south along Clifford Drive to the north edge of Veterans Blvd. and along Veterans Blvd. to the western apparent R/W of Metairie Heights Avenue.</p> <p>The second proposed 12 force main was approximately 2,900' beginning at the southern apparent R/W of 17th St. at Tolmas Drive and proceeded east along 17th St. to the eastern apparent R/W of Metairie Heights then north along Metairie Heights to 17th St. from Metairie Heights east along 17th St. to the east edge of Beverly Gardens and south along Beverly Gardens to Lift Station LS G7-1 on the southern apparent R/W of Beverly Gardens.</p> <p>Abandoned in-place approximately 1,500' of the existing 8" sewer force main between 17th Street and 22nd Street along Tolmas Drive.</p>	
	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
01/2016	\$917,212	\$126,112

TEC Professional Services Questionnaire

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p style="text-align: center;">North Peters Pump Station <i>St. Bernard Parish, Louisiana</i></p> <p>St. Bernard Parish Government Matt Falati, Public Works Director 1125 E St Bernard Highway Chalmette, LA 70043 (504) 278-4200</p>	<p>All South was contracted by St. Bernard Parish to provide professional engineering services for the North Peters Pumping Station. Specifically, our firm prepared construction documents to the renovation of an existing sewer lift station and wet well damaged as a result of Hurricane Katrina.</p> <p><u>Design</u> All South prepared the construction plans and specifications for public bid. The previously existing lift station consisted of two 5 hp pumps capable of producing 35 gpm flow rates. Improvements included two new 5 hp submersible pumps capable of producing 230 gpm flow rates, new valves, control panel, SCADA system, and wet well. New wet well is concrete reinforced approximately 8' in diameter and 8' deep and capable of containing 3,000 gallons of sewer. Project also consisted of demolition plans of existing structure. All South also performed all construction management and resident inspection services.</p> <p><u>Hazard Mitigation</u> An inspection of the site indicated the entire pump station, including the electrical components sustained flood damage. To mitigate future flood damage, the control panel was replaced with a modified control panel containing a standardized quick release sub panel. This will allow removal of critical pump station controls to a storm hardened location in advance of an approaching storm, protecting the critical lift station components. A 3-phase transfer switch was installed to facilitate the application of temporary power to allow removal of the panel components.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2012	\$217,126	\$43,591



TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>New Sewer Lift Station Rehab No. 8 (V1-05, V1-17, V1-18) <i>St. Bernard Parish, Louisiana</i></p> <p>St. Bernard Parish Government Matt Falati, Public Works Director 1125 E St Bernard Highway Chalmette, LA 70043 (504) 278-4200</p>	<p>All South was contracted to redesign Lift Stations; V1-05 Highland Rd and St. Bernard Highway, V1-17 Third Street and Repose Street, V1-18 Canal Street and Fourth Street from a flooded suction to a submersible type station. This included design of a new wet well to accommodate the new equipment.</p> <p>General Design</p> <p>The design phase consisted of the following responsibilities:</p> <ul style="list-style-type: none"> • Prepared detailed construction plans, specifications and contract documents. These plans included location of all utilities affected, ownership, and taking lines of rights-of-way where required. • Prepared necessary applications for permits for submission and approval of local, state and federal authorities. • Coordinated with utility companies regarding the adjustment, relocation or removal of existing utility lines and structures within the project that was in conflict with the proposed improvements. • Prepared a detailed Final Cost Estimate <p>General Project Management/Construction Admin Component</p> <p>The preliminary phase included the following responsibilities:</p> <ul style="list-style-type: none"> • Identifying all locations to be cleaned and prepared maps and work orders for each • Reviewed all project work sheets to ensure scope of work matched work orders • Attended preconstruction meetings and prepared all necessary documentation • Provided the parish with a resident project representative that reviewed all work performed and debris removed • Reviewed contractor pay requests to confirm quantities • Prepared project closeout documentation 	
		
		
		
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
12/2010	\$433,755	\$81,755

TEC Professional Services Questionnaire

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Install Permanent Sewer Connections Multiple State Parks Statewide, Louisiana</p> <p>Louisiana Office of State Parks Leigh LaFargue, Facility Project Planner 1051 N. Third Street Baton Rouge, LA 70802 (225) 342-8101</p>	<p>All South is performing the design, survey, bidding, and construction administration for the Install of Permanent Sewer Connections project. This project consists of design and construction of permanent sewer connections in the RV Campgrounds at the following 9 Louisiana State Parks:</p> <ul style="list-style-type: none"> • Bayou Segnette State Park • Chicot State Park • Fontainebleau State Park • Jimmie Davis State Park • Lake Bistineau State Park • North Toledo Bend State Park • Palmetto Island State Park • Sam Houston Jones State Park • Tickfaw State Park <p>There are approximately 570 recreational vehicle Campground sites that will receive the permanent sewer connections. The scope also includes but is not limited to installation of sewer lift stations, piping, trenching, clearing/grubbing, etc. as necessary. This project is funded by a Federal Grant Award from the US Department of Commerce Economic Development Administration (EDA) and will require Davis-Bacon Act wage determinations and other reporting requirements. All State Parks involved will remain operational during design and construction.</p> <p>Options for installation of sewage lines includes clearing trees to create a utility servitude, jack and bore under existing obstacles, traditional open cutting, and directionally drill forced sewer mains. It has been determined that the existing park sewer lift stations and treatment plants have sufficient capacity to handle the increased sewer flow from the added sewer improvements to all recreational vehicle spots. Sewer laterals will be 4" minimum in diameter and sewer mains will be 8" minimum in diameter. Laterals will be tied into main sewer lines via wye couplings in most cases, however the use of sewer manholes will be required avoiding obstacles in some of the State Parks.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Ongoing (2022 est.)	\$3,964,600 (est.)	\$490,000



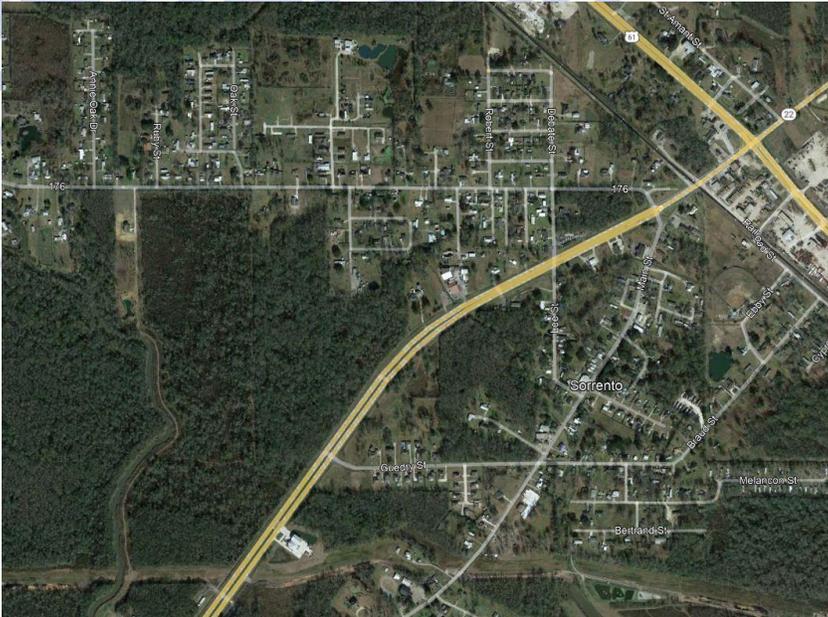
TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Sewerage & Water Board (7) Lift Stations <i>New Orleans, Louisiana</i></p> <p>Sewerage and Water Board of New Orleans 625 Saint Joseph St New Orleans, LA 70165 (504) 529-2837</p>       	<p>All South provided engineering services for the design and reconstruction of (7) pump stations that sustained hurricane related damage for the Sewerage and Water Board of New Orleans Wastewater Rehabilitation Program. The project included the evaluation and the preparation of construction documents to bring stations to pre-Katrina levels.</p> <p>City Park SPS is a walk-in suction-lift station; flow discharges the station via an 8" force main and connects to a force main through a 36" force main. Station collects wastewater from the surrounding gravity fed sewer system into a 21.5' deep reinforced concrete wet well.</p> <p>Alcee Fortier SPS is an underground suction-lift station. Wastewater discharges the station via a 10" diameter force main for approx. 2000' where it begins gravity flow and is re-pumped. The station collects wastewater from the surrounding gravity sewer system into a 23.5' deep concrete wet well.</p> <p>Castle Manor SPS is a bi-level suction lift station. This equipment is housed in a 10' x 10.3' brick dry well structure, which is partially below grade.</p> <p>SPS 20 is a bi-level suction lift station and discharges to a 16" force main via a 12" force main. Equipment is housed in a 12.3' by 11'. brick dry well structure which is partially below grade. The depth of the pump room section of the dry well is 7'.3'. The station collects wastewater from the surrounding gravity sewer system into a 15.9' deep brick wet well.</p> <p>Cerise Pump SPS is a bi-level suction lift station that discharges to a 30" force main via approx. 30' of 6" diameter force main. The station contains two 6" by 6" Fairbanks Morse horizontally aligned pumps. The depth below grade of the pump room section of the dry well is 7.1' and collects wastewater from the surrounding gravity sewer system into a 14.5' deep brick wet well.</p> <p>Gentilly Oaks SPS is a bi-level suction lift station; flow discharges the station and connects to the 24" portion of a force main. This station contains two 6" by 6" Nash horizontally aligned pumps powered by a 60 horsepower Atlas Electric motor operating at a speed of 1770 rpm.</p> <p>Lakeland Terrace SPS is a bi-level suction lift station; flow discharges the station and connects to a 24" force main. This station contains two 6" by 6" Nash horizontally aligned pumps. This station collects wastewater from the surrounding gravity sewer system into a 14' deep cement lined brick wet well.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
08/2010	\$400,000	\$61,351

TEC Professional Services Questionnaire

PROJECT NO. 8					
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:				
<p>Blimp Road Sewer Improvements <i>Houma, Louisiana</i></p> <p>Houma Terrebonne Airport Commission Joe Wheeler, Executive Director 10264 East Main Street Houma, LA 70363 (985) 872-4646</p>	<p>The Houma Terrebonne Airport Commission asked All South to assist in the implementation of a sewer improvement program at the HTAC Industrial Park. This project was divided into two phases:</p> <ul style="list-style-type: none"> • Blimp Road Phase 1 included the planning, design, and construction management of approximately 2,540' of gravity sewer lines along Blimp Road, and along an existing Right of Way reserved by the HTAC for future improvements • Blimp Road Phase 2 included the planning, design, and construction management of approximately 1,400' of gravity sewer lines along Blimp Road <p>All South provided the topographic survey work and supervised the geotechnical work for both phases. The project site included many existing utilities and obstructions, which All South accounted for in the plans and specifications.</p> <p>These lines will be 8" in diameter, consistent with the Terrebonne Parish Consolidated Government standards for such improvements. The plan calls for manholes installed on a regular basis, again consistent with TPCG standards.</p>				
	<p style="font-size: 2em; opacity: 0.3; text-align: center;">All South Parish State of Louisiana</p>				
Completion Date (Actual or estimated):	Estimated Cost:				
	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%;">Entire Project:</th> <th>Work for which Firm was Responsible:</th> </tr> <tr> <td style="text-align: center;">\$626,106</td> <td style="text-align: center;">\$78,940</td> </tr> </table>	Entire Project:	Work for which Firm was Responsible:	\$626,106	\$78,940
Entire Project:	Work for which Firm was Responsible:				
\$626,106	\$78,940				
06/2014					

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Sorrento Sewer Expansion <i>Town of Sorrento, Louisiana</i></p> <p style="margin-left: 40px;">Town of Sorrento Chris Guidry, Mayor 8173 Main Street Sorrento, LA 70778 (225) 675-5337</p>	<p>Much of the Town of Sorrento did not have access to the towns sewer system. As a result, the Town of Sorrento proposed a project to incorporate the rest of the town into the existing sewer system. All South was tasked with designing a layout that would provide the most efficient service to maximum number of customers ultimately tying into the existing sewer line. This design ran adjacent to roughly five miles consisting of local streets and an arterial road.</p> <p>All South proposed a gravity sewer line to incorporate all new connections to the existing system. Due to the large area this sewer line had to serve, many lift stations were needed for the design.</p> <p>After consultation with Town of Sorrento's oxidation pond testing agency, All South determined the existing oxidation ponds had sufficient capacity to serve new customers provided by the expansion. However, the increase in effluent did require modifications to be made to the oxidation pond. Proposed modifications included: increased aeration in two of the three cells, a bar screen for solids removal in cell one, and erosion control measures for pond banks.</p> <div style="text-align: center;">  </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Ongoing (2022 est.)	TBD	\$270,000

TEC Professional Services Questionnaire

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p style="text-align: center;">CIS – Gray Campus Sewer <i>Houma, Louisiana</i></p> <p>Cardiovascular Institute of the South Joey Fontenot Chief Operating Officer 225 Dunn Street Houma, Louisiana 70360 (985) 876-0300</p>	<p>This project consisted of master planning, engineering, design, and construction management of a proposed commercial development for a medical complex on a 25-acre undeveloped tract in Terrebonne Parish. This development was constructed for the Cardiovascular Institute of the South (CIS), a major health care provider in Louisiana. The development included concrete roadways, potable water distribution system, sanitary sewer collection system, storm water management system, sidewalks, parking lots, and building construction. The project was designed in a way to utilize a 2-acre area at the rear of the property as a retention pond in order to manage rainfall runoff, reducing the impacts of the local drainage system and enhancing the aesthetic of the complex using green infrastructure practices.</p> <p>All South initially provided topographic survey services, in support of a master plan for the development of the site. Once complete, the survey was used to develop this master plan in coordination with CIS and an architectural firm. This master plan included multiple buildings on the site, along with the basic infrastructure improvements. After approval of the master plan, CIS authorized All South to proceed with the design for the development. We coordinated further survey work and the geotechnical analysis necessary for the development.</p> <p>Using the data developed by these additional services, we prepared the construction and bidding documents for the following features:</p> <ul style="list-style-type: none"> 1500' of concrete roadway Subsurface and surface drainage improvements along this roadway A two acre retention pond at the rear of the property to manage rainfall runoff 2500' of gravity sewer line, a sewer lift station, and 1500' of 2" PVC sewer force main to manage wastewater on the site connection to existing 14" municipal force main 1,460 LF of 8" PVC gravity main and associated concrete manholes and 6" services 2500' of waterline to service the site <div style="text-align: center; margin-top: 20px;">  </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
01/2021	\$3,060,000	\$492,732

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. IMC Construction	Jefferson Parish	Jefferson Parish filed 3 rd party demand to All South Consulting Engineers, LLC. Status is pending
2.		
3.		
4.		

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



All South Consulting Engineers, LLC is a Limited Liability Company owned by Timothy Bonura, Jens J. Nielsen Jr., and Stephen Smith. Established in May 2004, All South is a multi-disciplinary firm that provides Civil and Structural Engineering, Land and Hydrographic Surveying, Program and Grant Management, Construction Administration and Inspection, and Disaster Management to federal, state, and municipal agencies, as well as, private clients throughout the Gulf Coast.

» PROFESSIONAL TRAINING AND EXPERIENCE «

All South has substantial experience in the Civil Engineering, Project Management, Land Surveying, and Resident Inspection services pertinent to the scope of work outlined in the request for this proposal. All South has completed various public utility projects in South Louisiana since 2004, including many years of experience in the design and construction management of Jefferson Parish Sewer Projects. In designing these projects, our professionals keep in mind the future maintenance and additional needs that may be required. Having proper alignment and clearances ensures that when emergency maintenance is needed, there is minimal impact on traffic flow or disruption to the functionality of the community. In addition to our technical ability, these projects were successfully completed in a timely manner and within budget. Additional experience can be found in the above resumes and project descriptions.

All South licensed engineers have a total of 267 combined years of experience performing civil works projects in South Louisiana. Our licensed professionals all obtain over 15 hours annually of continuing education along with several in house seminars. These courses are all designed to make sure our staff is up to date with all the latest construction materials and methods. All South maintains annual agreements with AutoCAD and Civil 3D to keep us up to date with the latest computer software’s. Each design professional researches the proper continuing education courses to help further their experience in the proper fields.

TEC Professional Services Questionnaire

Our staff performs a wide variety of design and administrative services for our clients. These services span multiple design specialties, and we rely on this versatility to offer a more complete service. All South's specialties span from design, to construction and project management, to onsite resident inspection, to a variety of surveying applications. More specifically, a list of our applicable specialties for this proposal is included below.

ENGINEERING DESIGN		
<p>Water</p> <ul style="list-style-type: none"> • Water Modeling • Water Treatment • Water Distribution Systems <p>Drainage</p> <ul style="list-style-type: none"> • Hydraulic/Hydrologic Studies • Collection Systems • Open Channels (Structural/Earthen) • Retention Ponds • Detention Ponds • Pump Stations <p>Sewer</p> <ul style="list-style-type: none"> • Computer Modeling • Treatment Plants • Collection Systems • Lift Stations • Force Mains 	<p>Coastal</p> <ul style="list-style-type: none"> • Land Development • Levees • Wetland Development • Marsh Re-creation • Mitigation • Dredging <p>Flood Control</p> <ul style="list-style-type: none"> • Locks • Flood Gates • T-Walls • I-Walls • Earthen Levees • Structural Levees • Sheet Pile Structures <p>Land Development</p> <ul style="list-style-type: none"> • Civil Site Services 	<p>Transportation</p> <ul style="list-style-type: none"> • Traffic Counts • Traffic Impact Analysis • 3D Modeling • Concrete Roadway • Asphalt Roadway • Bridge Design <p>Recreational</p> <ul style="list-style-type: none"> • Recreational Fields • Bicycle/ Pedestrian Paths • Master Plans <p>Public Utilities Structural</p> <ul style="list-style-type: none"> • Buildings • Retaining Walls • Shallow and Deep Foundations • Existing Facility Structural Analysis
SURVEYING	PROGRAM/ GRANT MANAGEMENT	CONSTRUCTION MANAGEMENT
<ul style="list-style-type: none"> • Boundary/ALTA-NSPS Survey • Construction Survey • Control Survey • Data Processing • Elevation Survey • GIS Data Acquisition • HDS (High Definition) Laser Scanning • Hydrographic Survey • Pipeline Survey • Topographic Survey • Right of Way 	<ul style="list-style-type: none"> • Grant Writing and Management • Public Assistance • Application Development • Planning • Cost Estimating • Reimbursements • Scheduling • Plan Review • Document Control • Program Database Development • Problem Solving 	<ul style="list-style-type: none"> • Bidding and Advertising • Resident Project Representative • Document Control • Cost Control • Safety Review • Field Engineering • Close Out Documentation • As Built Drawing Development

Our survey crews use the latest of field equipment to deliver for our clients, including:

• Leica GS-14 GPS Receivers	• G-882 Magnetometer
• AutoCAD Stations Civil 3D, Microstation, InRoads, CadConform	• Four wheel off road vehicles / marsh buggies
• 26' Scully Aluminum Boat with Dual 150 h.p. motors	• 14' Aluminum Flat Boat
• DJI Inspire 2 Aircraft with Zenmuse X4S Payload	• DJI Phantom 4 Advanced Aircraft
• 6' Z-boat, remotely operated hydrographic survey boat	• DJI Mavic Pro Aircraft
• Odom Hydrographic CV100 dual frequency Echosounder	• Hypack – Hydrographic software

» SIZE OF FIRM «

The All South staff includes 70 professionals driven to excellence and focused on our clients' needs. We are made up of 12 Louisiana Licensed Professional Engineers, 4 Engineering Interns, 1 Professional Land Surveyor, 1 Land Surveyor Intern. Our staff also includes program managers, CADD technicians/draftsmen, grant specialist, field monitors and administrative support staff, all of which provide years of experience to help ensure that our work is exceptional.

TEC Professional Services Questionnaire

» CAPACITY FOR TIMELY COMPLETION «

With 70 employees and ample resources, All South has more than enough capacity to meet any deadlines that the Parish requests. Our team is committed to and capable of meeting all schedules and deadlines that the Parish requests to ensure timely completion of all projects.

Additionally, we will utilize Team Gantt software for this project as a means of communication and accountability between consultants and Parish personnel. Team Gantt is an excellent project management tool designed to help create, manage, and finish projects on time and on budget. This software allows us to change start and end dates, reorder tasks, and adjust timelines seamlessly. It allows us to see every project update and document on a single page and quickly share them with both internal and external stakeholders. Team Gantt allows us to effectively manage resources, stay on budget, and ensure everyone is working but not overloaded. We can compare the original timeline projection with the actual timeline of the project with a baseline report. Parish personnel will be issued access to Team Gantt, so they can remain updated on the progress of the project at their own convenience.

» PAST PERFORMANCE «

Over the past 18 years, All South has developed an outstanding reputation as one of the Gulf South's leading Engineering and Surveying firms. Aside from our technical experience, All South stands out amongst competitors because of our unrivaled devotion to our clients and ability to meet their needs. Our past performance within Jefferson Parish has given us a keen and nuanced understanding of the inner working of the various Parish departments, as well as the likings and needs of the Parish as a whole.

Our background has bred a sense of commitment, comradery, and the willingness to fight for our clients through every phase of a project. The satisfaction expressed by our clients can be directly accredited to not only our ability to deliver exceptional work that meets all contractual, time, and budgetary obligations, but also the genuine and lasting relationships we build throughout the process. As a direct result, our clients continue to choose All South. We believe this trend speaks very highly to our staff, our commitment, and our results. The staff members included in this proposal will employ these same levels of client devotion and satisfaction to Jefferson Parish.

» LOCATION OF THE PRINCIPAL OFFICE «

All South's home office is located at 652 Papworth Avenue, Metairie, Louisiana 70005.

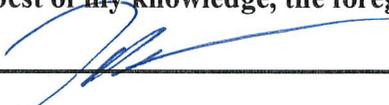
» ADVERSARIAL LEGAL PROCEEDINGS «

Please refer to section M of this TEC Questionnaire.

» PRIOR SUCCESSFUL COMPLETION «

Please refer to the project descriptions listed above to see All South's prior successful completion of similar projects, as well as their respective verifiable references. All South has maintained a strong and successful working relationship with Jefferson Parish since 2004 and has continuously received positive feedback from Parish officials and personnel. We have completed millions of dollars in construction of Jefferson Parish infrastructure and look forward to continuing this great relationship.

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

Signature:  _____

Print Name: Timothy P. Bonura, P.E.

Title: Managing Partner

Date: June 30, 2022

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

B. Firm Name & Address:

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

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

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

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

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

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

TEC Professional Services Questionnaire

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

1.

2.

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

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

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

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

TEC Professional Services Questionnaire

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

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Project Assignment:

Name of Firm with which associated:

Years' experience with this Firm:

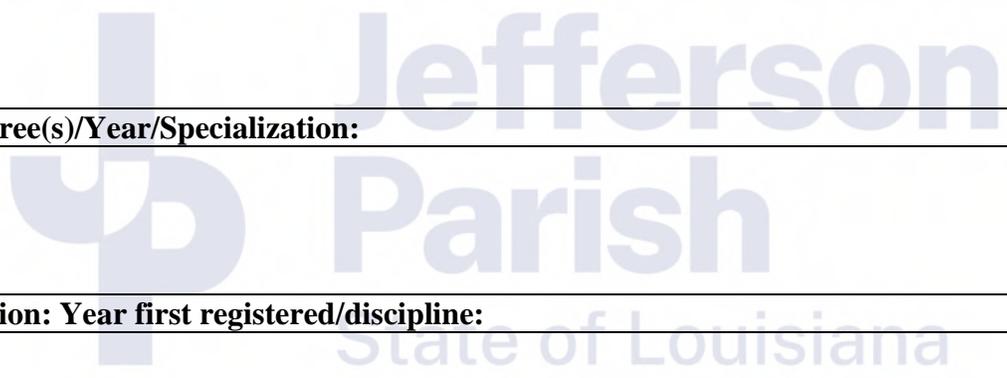
Education: Degree(s)/Year/Specialization:

Active registration: Year first registered/discipline:

Other experience and qualifications relevant to the proposed Project:

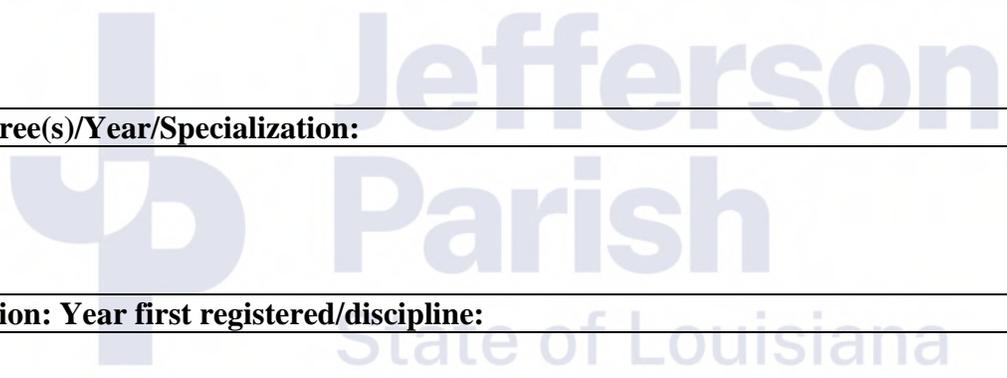
TEC Professional Services Questionnaire

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



TEC Professional Services Questionnaire

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



TEC Professional Services Questionnaire

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

TEC Professional Services Questionnaire

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

PROJECT NO. 1

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

PROJECT NO. 2

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

TEC Professional Services Questionnaire

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

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

TEC Professional Services Questionnaire

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

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

TEC Professional Services Questionnaire

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.

a. Name and Title	
Lynne Roussel, PE Principal and Regional Manager of Geotechnical Services	
b. Project Assignment:	
Principal In Charge Senior Technical Oversight	
c. Name of Firm with which associated	
Terracon Consultants, Inc.	
d. Years experience:	
With This Firm	17
With Other Firms	0.0
e. Education: Degree(s)/Year/ Specialization	
Master of Science / 2005 / Geotechnical Bachelor of Science / 2003 / Civil Engineering	
f. Active Registration: Year First Registered/Discipline	
Year First Registered:	2009
Branch:	Professional Engineer, Civil - LA (35152)
g. Other Experience and Qualifications relevant to the proposed project:	
<p>Bucktown Outdoor Classroom, Jefferson Parish, LA Ms. Roussel served as senior technical reviewer for the geotechnical project that included field exploration, laboratory testing and engineering.</p> <p>I-10 to LA-1 Connector 30% Design, Port Allen, LA Ms. Roussel served as the Project Manager for 30% design plans for a proposed new connector between I-10 and LA-1 in West Baton Rouge Parish. The extension included two bridges and two miles of new roadway. Bridges over an existing railroad and the Intracoastal Canal were included. An evaluation of a possible retained earth embankment was included.</p> <p>LA Department of Transportation Geotechnical Retainer Contract, LA Ms. Roussel serves as the contract manager and Project Reviewer for the retainer contract for services. The contract value is \$4 Million.</p> <p>Interstate 12 Widening, East Baton Rouge and Livingston Parishes, LA Ms. Roussel provided engineering services for this major Interstate highway improvement. The project consists of the widening of Interstate 12 to six lanes from O'Neal Lane eastward in both East Baton Rouge and Livingston Parishes. DOTD.</p> <p>Cyprien Pump Station - Raceland, LA Ms. Roussel served as project manager for this project. Terracon was retained to conduct a geotechnical investigation for a new pump station in the city of Raceland. Terracon developed nominal capacity and established resistance factors for foundations for the design and construction of the structures.</p>	

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

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

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

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

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

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

a. Name and Title	
Lizzy Stark, PE Senior Staff Engineer	
b. Project Assignment:	
Project Manager Senior Project Engineer	
c. Name of Firm with which associated	
Terracon Consultants, Inc.	
d. Years experience:	
With This Firm	7
With Other Firms	0.0
e. Education: Degree(s)/Year/ Specialization	
Bachelor of Science / 2015 / Civil and Environmental Engineering	
f. Active Registration: Year First Registered/Discipline	
Year First Registered:	2020
Branch:	Professional Engineer, Civil – LA (44481)
g. Other Experience and Qualifications relevant to the proposed project:	
<p>Ms. Stark is a Senior Staff Engineer in Terracon’s New Orleans, Louisiana Office. In this role, she has prepared reports with geotechnical recommendations, assigned laboratory testing, performed engineering calculations, and utilized various design software (APile, gINT, etc.). She also manages geotechnical, and materials testing projects and monitors various aspects of construction quality control (QC) and quality assurance (QA). These projects have included retail developments, levee improvements and airport expansions.</p> <p>She has also acquired construction monitoring experience which includes soil testing, pile foundation installation logging, pile foundation load testing, pile integrity testing, foundation excavation inspection, field density testing, concrete testing, pervious pavement infiltration testing, pavement evaluation using PCI/PASER scoring, DCP and SCP testing of subgrade material, and seismic monitoring.</p> <p>JPRD Saints Dr. Girls Complex, Jefferson Parish, LA (2021) Ms. Stark served as senior staff engineer for the subsurface exploration and geotechnical engineering for improvements to two existing softball fields.</p>	

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

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

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

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

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

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

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

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

PROJECT EXPERIENCE

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.

a. Name and Title

Eric B. Bellard
Laboratory Supervisor | Construction Materials Technician

b. Project Assignment:

Laboratory Supervisor | Construction Materials Technician

c. Name of Firm with which associated

Terracon Consultants, Inc.

d. Years experience:

With This Firm	11	With Other Firms	0
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e. Education: Degree(s)/Year/ Specialization

N/A

f. Active Registration: Year First Registered/Discipline

Year First Registered:	N/A
Branch:	N/A

g. Other Experience and Qualifications relevant to the proposed project:

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.

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.

Bucktown Outdoor Classroom, Jefferson Parish, LA (2021)

Mr. Bellard served as laboratory supervisor/technician for the laboratory testing. He performed laboratory soil tests.

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

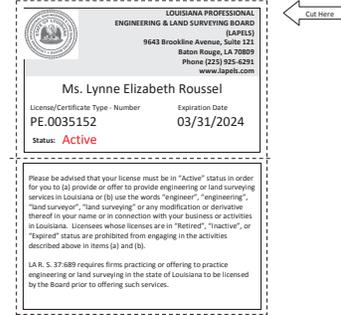
License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF:0002749	Active	12/18/2001	03/31/2024	Mr. Zack Lemuel 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



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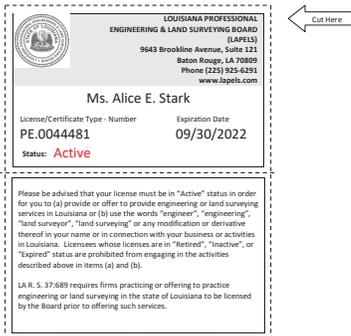
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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD
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 has the following information on file:

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



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LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD
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 has the following information on file:

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



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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

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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	12/07/2012
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

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

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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	12/30/2013
T216 One-Dimensional Consolidation Properties of Soils Using Incremental Loading	06/21/2021
T265 Laboratory Determination of Moisture Content of Soils	01/03/2012
T267 Determination of Organic Content in Soils by Loss on Ignition	01/03/2012
T296 Unconsolidated, Undrained Compressive Strength of Cohesive Soils in Triaxial Compression	07/13/2018
T310 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	01/03/2012
D421 Dry Preparation of Disturbed Soil and Soil Aggregate Samples for Test	01/03/2012
D422 Particle Size Analysis of Soils by Hydrometer	01/03/2012
D688 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
D684 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	12/30/2013
D2216 Laboratory Determination of Moisture Content of Soils	01/03/2012
D2435 One-Dimensional Consolidation Properties of Soils Using Incremental Loading	06/21/2021
D2487 Classification of Soils for Engineering Purposes (Unified Soil Classification System)	01/03/2012

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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
D4316 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	12/30/2013
D6938 In-Place Density and Moisture Content of Soil and Soil-Aggregate by Nuclear Methods (Shallow Depth)	01/03/2012

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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

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SCOPE OF AASHTO ACCREDITATION FOR:

Terracon Consultants, Inc.
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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

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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

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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

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