



STATEMENT OF QUALIFICATIONS FOR
SURVEYING SERVICES
RESOLUTION NO. 139554



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

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

SOQ 22-042 to Provide Professional **Surveying Services** – Resolution No. 139554

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:

John Teegarden, P.L.S.
Vice President, Survey Division Manager
504-322-2783
jteegarden@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>7</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>3</u> | Graduate Engineers |
| <u>11</u> | Civil Engineers | <u>0</u> | Interior Designers | <u>5</u> | Project Managers |
| <u>12</u> | Construction Inspectors | <u>0</u> | Landscape Architects | <u>4</u> | Clerical |
| <u>0</u> | Ecologists | <u>0</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>11</u> | Other |
| <u>2</u> | Professional Land Surveyor | <u> </u> | | <u>74</u> | TOTAL |

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

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

TEC Professional Services Questionnaire

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

1. N/A

2.

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

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

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

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

7 _____

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:

John Teegarden, PLS
Vice President, Survey Division Manager

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:

8

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:

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.

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.

Silt and Debris Measurement in Jefferson Parish Canals *Jefferson Parish, Louisiana*

Mr. Teegarden is providing topographic and bathymetric survey services for the Jefferson Parish Drainage Department. We are surveying canals to determine the amount of silt build up utilizing All South's Z-Boat, a six-foot-long remotely controlled vessel equipped with GPS, a dual-frequency echosounder and a laptop to record the data.

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Geisenheimer Canal Topographic Survey *Jefferson Parish, Louisiana*

Mr. Teegarden led our survey teams in the preparation of a topographic survey that included the location of the Geisenheimer Canal Box Canal and the adjoining surface features from the north curb line of Airline Highway into the fairway of Metairie Country Club adjacent to Airline Highway.

Woodvine Ditch Topographic Survey *Jefferson Parish, Louisiana*

Mr. Teegarden is providing a topographic survey over the existing 54" RCP drain line followed the line from Nassau Drive south across the Metairie Country Club Golf course to its tie in point at Geisenheimer Canal. Improvements along that route were located along with trees, with size and species and topographic features on the golf course, which included ties, sand traps and the raised greens that fell in the route.

Loumor Outfall Ditch Topographic Survey *Jefferson Parish, Louisiana*

Mr. Teegarden and the All South survey staff provided a topographic survey of the route that follows the 78" X 122" RCAP along the western edge of Metairie Country Club Golf course, then southeasterly and finally south to Geisenheimer Canal just north of Airline Highway. Improvements along that route were located along with trees, with size and species and topographic features on the golf course, which included ties, sand traps and the raised greens that fell in the route.

Tudor and Tallulah Drainage Analysis *River Ridge, Jefferson Parish, Louisiana*

Mr. Teegarden provided topographic survey services and collected field data for the Tudor and Tallulah drainage project. This work included picking up horizontal and vertical data in the drainage area, including locating the multiple subsurface utilities that could affect the project. Cost \$60,000

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.

Upper LA 45 Basin Tidal Surge Protection *Lafitte, Louisiana*

Mr. Teegarden and his team conducted topographic, magnetometer and bathymetric surveys for the design of a tidal surge protection system for the Upper LA 45 basin in the Lafitte Levee District. The team surveyed three routes, one along Bayou Barataria for the design of a floodwall and two possible routes for a rear protection levee through swamp and marsh areas. RTK GPS, Robotic Total stations, remotely operated Z-Boat and a Marine Magnetics Sea-Spy magnetometer were used for this project. The survey deliverables included plan and profile sheets and plotted cross sections.

Rosethorne Path – LA 45 *Lafitte, Louisiana*

Mr. Teegarden and his team conducted a topographic survey along the route of a proposed walk and bike path along LA Hwy 45 in the Lafitte area. RTK GPS and robotic total stations were used to located improvements, utilities and take cross sections along the survey route.

40 Arpent Canal Levee Walk and Cycling Path and Pedestrian Bridge *St. Bernard Parish, Louisiana*

Mr. Teegarden and his team conducted a topographic survey along the 40 Arpent Levee in St. Bernard parish for the design of a walk and bike path. RTK GPS was used to locate improvement and take cross sections along the proposed survey route. The area surveyed began at the St. Bernard/Orleans parish line and continued southeasterly to Paris Road.

TEC Professional Services Questionnaire

| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: |
|--|
| Name & Title: |
| Taylor Casteigne, PLS Professional Land Surveyor, Survey Supervisor |
| Project Assignment: |
| Professional Land Surveyor |
| 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: |
| 2022/ Professional Land Surveyor / Louisiana License No. 5291 |
| Other experience and qualifications relevant to the proposed Project: |
| <p>Mr. Casteigne graduated from Nicholls State University with a B.S. in Geomatics and has served as party chief and draftsman on a variety of surveys. He is well versed in the latest surveying equipment technology to ensure fast and accurate surveys. For all projects, Mr. Casteigne performs/oversees the necessary field work for the survey, then processes the data into a field book file. He then imports the data into Auto CAD where it 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 budgets for each project are tracked daily, thus ensuring that the surveys are completed on time and under budget. This includes placing LA One Call tickets, giving field crews the list of tasks needed to complete the project, and ensuring the projects are completed in an orderly fashion.</p> <p>Grand Isle-Lafitte Waterline Survey <i>Jefferson Parish, Louisiana</i> Mr. Casteigne performed full topographic and hydrographic services including data collection, data processing, data management, research, CAD, and project budget oversight. This included managing field crews during the data collection process ensuring that everything within the project scope was captured during the fieldwork. Oversight over the drafting process was another key responsibility for this project. This project entailed locating approximately 32 miles of 16" waterline running from Lafitte, Louisiana to Grand Isle, Louisiana.</p> <p>Jefferson Parish Fire Training Center <i>Jefferson Parish, Louisiana</i> Mr. Casteigne performed full topographic services including data collection, data processing, data management, CAD, and project budget oversight. Also, performing the necessary field work for the survey, then processing the data into a fieldbook file. This includes a site visit prior to beginning the project to develop a cost estimate and developing a</p> |

TEC Professional Services Questionnaire

packet for field crews detailing what data will be required to complete the survey. This survey was for the purpose of improving the Jefferson Parish Fire Training Site.

Jefferson Parish Damage Assessment for the Department of Ecosystem and Coastal Management *Grand Isle, LA*

Mr. Casteigne performed and oversaw the completion a damage assessment of all the structures on Grand Isle after Hurricane Ida. This involved taking pictures of each structure and inputting relevant data into a Jefferson Parish GIS website to aid in the evaluation of the damage caused by Hurricane Ida.

Jefferson Parish Water Department Building Site *Jefferson Parish, Louisiana*

Mr. Casteigne performed full topographic and boundary services including data collection, data processing, data management, research, CAD, and project budget oversight. This included managing field crews during the data collection process ensuring that everything within the project scope was captured during the fieldwork. Oversight over the drafting process was another key responsibility for this project. This survey was to be used in the design of a new administrative building for the Jefferson Parish Water Department.

LaFreniere Park Meadow Drainage Improvements *Jefferson Parish, Louisiana*

Mr. Casteigne performed full topographic services including data collection, data processing, data management, CAD, and project budget oversight. Also, 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. This work was used to analyze the existing drainage conditions of the park meadow area.

Riverbend Oxidation Pond *Jefferson Parish, Louisiana*

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.

Jefferson Parish Juvenile Services Survey *Metairie, Louisiana*

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.

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 field book file. Once the data was in a field book 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 field book file. Once the data was in a field book 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.

TEC Professional Services Questionnaire

| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: |
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| Name & Title: |
| Lyle Langley Survey Party Chief |
| Project Assignment: |
| Survey Party Chief |
| Name of Firm with which associated: |
| All South Consulting Engineers, LLC |
| Years' experience with this Firm: |
| 8 |
| Education: Degree(s)/Year/Specialization: |
| SOWELA Technical Community College/ 2012 / Drafting |
| Active registration: Year first registered/discipline: |
| |
| Other experience and qualifications relevant to the proposed Project: |
| <p>Mr. Langley has worked on a wide variety of surveying projects and assisted in the integration of a robotic total station and our hydrographic software to track the hydrographic boat in areas where GPS was not feasible. He has the necessary training to use hydrographic equipment, HDS Laser Scanner and is familiar with Hypack hydrographic software. His work experience includes hydrographic surveys using a rod and tape, a total station, GPS and single beam echo sounders to record the data, using side scan sonar to identify underwater obstructions and using a magnetometer to sweep for pipelines and other ferrous metal debris. He has supervised field crews on many topographic and boundary surveys. His current and previous projects include, but not limited to:</p> <p>Silt and Debris Measurement in Jefferson Parish Canals, Jefferson Parish, Louisiana Mr. Langley has provided topographic and bathymetric survey services for the Jefferson Parish Drainage Department. His tasks on this project included providing cross sections, topography and bathymetric surveys.</p> <p>Canal No. 10 Underground Utility Locations, Jefferson Parish, Louisiana Mr. Langley located underground utilities as marked by a Subsurface Utility Engineer and added to an existing topographic survey.</p> <p>Lake Cataouatche Pump Station Topographic Survey, Jefferson Parish, Louisiana</p> |

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Mr. Langley 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.

Bayou Country Sports Complex Houma, Terrebonne Parish, Louisiana

Mr. Langley is providing construction layout services for the construction of baseball fields, softball fields, soccer fields and improvements for the sports complex.

Woodvine Ditch Topographic Survey Jefferson Parish, Louisiana

Mr. Langley and his crew provided a topographic survey over the existing 54" RCP drain line followed the line from Nassau Drive south across the Metairie Country Club Golf course to its tie in point at Geisenheimer Canal. Improvements along that route were located along with trees, with size and species and topographic features on the golf course, which included ties, sand traps and the raised greens that fell in the route.

Loumor Outfall Ditch Topographic Survey Jefferson Parish, Louisiana

Mr. Langley provided a topographic survey of the route that follows the 78" X 122" RCAP along the western edge of Metairie Country Club Golf course, then southeasterly and finally south to Geisenheimer Canal just north of Airline Highway. Improvements along that route were located along with trees, with size and species and topographic features on the golf course, which included ties, sand traps and the raised greens that fell in the route.

40 Arpent Canal Levee Walk and Cycling Path and Pedestrian Bridge St. Bernard Parish, Louisiana

Mr. Langley assisted with the topographic survey along the 40 Arpent Levee in St. Bernard parish for the design of a walk and bike path. RTK GPS was used to locate improvement and take cross sections along the proposed survey route. The area surveyed began at the St. Bernard/Orleans parish line and continued southeasterly to Paris Road.

Blimp Road Sewer Phases 1 & 2 Houma, Terrebonne Parish, Louisiana

Mr. Langley provided topographic survey services for the Blimp Road Sewer Phases 1 & 2 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 8" in diameter, consistent with the Terrebonne Parish Consolidated Government standards for such improvements.

Reach K and L Mitigation Lafourche Parish, Louisiana

Mr. Langley conducted both bathymetric and topographic survey of the Reach K Mitigation area. This 40-acre marsh creation area consists of a network of oilfield canals and shallow ponds. This survey also required the location of various underground utilities and pipelines. Equipment used on this project was RTK GPS, a remotely controlled hydrographic boat and a magnetometer.

Bayou Terre Aux Bouefs Ridge Restoration Armoring St. Bernard Parish, Louisiana

Mr. Langley and his team provided the topographic and hydrographic survey data. The survey also included sections of Bayou Lery and Bayou Gentilly. Overbank cross sections and a hydrographic survey were conducted to aid in the design of bank armoring to help stem the further erosion of the existing shoreline. Transects were also ran across approximately 10,000 acres of additional marshland. A magnetometer survey was also conducted to identify submerged pipelines.

Upper LA 45 Basin Tidal Surge Protection Lafitte, Jefferson Parish, Louisiana

Mr. Langley is currently working on a topographic survey of a proposed route for approximately three miles of new levee and floodwalls to provide protection against tidal surge in the upper area of Lafitte, Louisiana along LA Hwy. 45.

TEC Professional Services Questionnaire

| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: |
|---|
| Name & Title: |
| William Lambert Survey Party Chief |
| Project Assignment: |
| Survey Party Chief |
| Name of Firm with which associated: |
| All South Consulting Engineers, LLC |
| Years' experience with this Firm: |
| 1 |
| Education: Degree(s)/Year/Specialization: |
| High School Diploma |
| Active registration: Year first registered/discipline: |
| |
| Other experience and qualifications relevant to the proposed Project: |
| <p>Mr. Lambert joined All South Consulting Engineers, LLC in April of 2021. He has over 15 years of experience in land surveying and has served as an instrument man to a survey party chief. He has performed topographic surveys, right-of-way, ALTAs, as-builts, stakeouts, boundaries, and elevation certificates, using Leica robotic instrument and Trimble GPS. He has also performed construction layout using Trimble Robotics and GPS and served as a survey helper in industrial surveys.</p> <p>Grand Isle-Lafitte Waterline Survey <i>Jefferson Parish, Louisiana</i> Mr. Lambert performed full topographic including data collection and survey crew supervision. This included ensuring all crew members were safe while working on the deck barge, assist in probing for the buried waterline, and keeping notes of the progress made daily. This project entailed locating approximately 32 miles of 16" waterline running from Lafitte, Louisiana to Grand Isle, Louisiana.</p> <p>Jefferson Parish Water Department Building Site <i>Jefferson Parish, Louisiana</i> Mr. Lambert performed full topographic and boundary services including data collection and field crew supervision. This included ensuring all required fieldwork was done in an efficient manner and in accordance with the project scope of work. This survey was to be used in the design of a new administrative building for the Jefferson Parish Water Department.</p> <p>La State Parks Install Permanent Sewer Connections <i>Jefferson, St. Tammany, Livingston, Vermillion, Evangeline, Sabine, Webster, and Jackson Parish, Louisiana</i> Mr. Lambert performed full topographic services including data collection and field crew supervision. This included</p> |

TEC Professional Services Questionnaire

establishing project control, creating a sketch of the site, and surveying the camper sites in the park. This project was intended to assist in the design of permanent sewer connection at each camper site in the park.

LaFreniere Park Meadow Drainage Improvements *Jefferson Parish, Louisiana*

Mr. Lambert performed full topographic services including data collection and field crew supervision. This included establishing project control, creating a sketch of the site, and surveying the meadow area at the park. This work was used to analyze the existing drainage conditions of the park meadow area.

LALID Lower Lafitte Drainage Improvements *Jefferson Parish, Louisiana*

Mr. Lambert has completed a full topographic survey of approximately 5500ft of streets for the purpose of improving the existing drainage in the area. This included establishing project control and temporary benchmarks and supervising the survey crew ensuring that the project was completed based on the scope of work in an efficient manner.

Marrero St. Pump Station *Jefferson Parish, Louisiana*

Mr. Lambert has completed a full topographic survey of the Marrero St. Pump Station for the purpose of making improvements to the pump station. This included establishing project control and temporary benchmarks and supervising the survey crew ensuring that the project was completed based on the scope of work in an efficient manner.

Pines Village Road Reconstruction *New Orleans, Louisiana*

Mr. Lambert performed a full topographic survey of approximately 8800ft of roadway in New Orleans. This included overseeing the collection of all necessary field data within the right of way of the designated streets and keeping detailed field notes of the data being obtained. This project was done at the request of the city of New Orleans for the purpose of full depth reconstruction on these roadways.

Ascension Parish School Board Airline Highway Property Topographic Survey *Ascension Parish, Louisiana*

Mr. Lambert performed full topographic and boundary services including data collection, boundary services, and survey crew supervision. This included ensuring all required fieldwork was done in an efficient manner, establishing project control, creating a sketch of the site, and in accordance with the project scope of work. This survey was used in the design of a new building for the site, and to establish the western boundary to aid in tree clearing.

St. Bernard Parish Water Plant Drainage Improvements *St. Bernard Parish, Louisiana*

Mr. Lambert performed full topographic services including data collection and field crew supervision. This included establishing project control, creating a sketch of the site, and surveying the St. Bernard Parish Water Treatment Plant site. This work was used to analyze the existing drainage conditions of the St. Bernard Parish Water Treatment Plant.

Northshore Living Shoreline at Goose Point *St. Tammany Parish, Louisiana*

Mr. Lambert performed full topographic and hydrographic services including data collection and field crew supervision. This included ensuring all required fieldwork was done in an efficient manner and in accordance with the project scope of work. This included establishing project control, creating a sketch of the site, and surveying the bank of Lake Pontchartrain for the creation of a living shoreline.

Town of Sorrento Sewer Improvements *Ascension Parish, Louisiana*

Mr. Lambert performed full topographic and boundary services including data collection and field crew supervision. This included ensuring all required fieldwork was done in an efficient manner and in accordance with the project scope of work. This included establishing project control, creating a sketch of the site, and surveying the selected areas by the project manager. This survey was used in the design of a new sewer system along over 7.5 miles of streets in the Town of Sorrento.

St. Bernard Parish Canal Servitude Creation *St. Bernard Parish, Louisiana*

Mr. Lambert performed full boundary services including data collection and recovering boundary evidence along the selected canal in St. Bernard. This survey is intended to create servitudes over 9 different canals throughout St. Bernard Parish for the parish to go in and clean these canals of obstructions after a major storm event.

Old Arabi Drainage Improvements *St. Bernard Parish, Louisiana*

Mr. Lambert performed full topographic services including data collection and field crew supervision. This included ensuring all required fieldwork was done in an efficient manner and in accordance with the project scope of work. This included establishing project control, creating a sketch of the site, and surveying the selected areas by the project manager.

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| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: |
| Name & Title: |
| Austin Bowman Survey Technician |
| Project Assignment: |
| Survey Technician |
| Name of Firm with which associated: |
| All South Consulting Engineers, LLC |
| Years' experience with this Firm: |
| 1 |
| Education: Degree(s)/Year/Specialization: |
| A.A.S. HVAC NCCER Level Graduate/ 2020/ Nunez Community College |
| Active registration: Year first registered/discipline: |
| |
| Other experience and qualifications relevant to the proposed Project: |
| <p>Mr. Bowman joined All South Consulting Engineers, LLC in March of 2021 as a survey assistant. He received an Associate of Applied Science degree in HVAC NCCER Level from Nunez Community College in 2020. Since joining All-South, Mr. Bowman has assisted in full topographic and hydrographic surveys.</p> <p>Grand Isle-Lafitte Waterline Survey <i>Jefferson Parish, Louisiana (05-08/22)</i> Mr. Bowman performed full topographic and hydrographic services including assisting in data collection and maintenance of survey equipment. This included assisting in probing for the buried waterline and assisting in setting up hydrographic survey equipment needed to complete the survey. This project entailed locating approximately 32 miles of 16" waterline running from Lafitte, Louisiana to Grand Isle, Louisiana.</p> <p>Jefferson Parish Fire Training Center <i>Jefferson Parish, Louisiana</i> Mr. Bowman assisted in the completion of a topographic survey of the Jefferson Parish Fire Training Center for improvements to be made to the facility. This included establishing project control and collecting field data.</p> <p>LaFreniere Park Meadow Drainage Improvements <i>Jefferson Parish, Louisiana (09/21)</i> Mr. Bowman performed full topographic services including assisting in data collection and maintenance of survey equipment. This included assisting in establishing project control, collecting field data at the direction of the party chief, and assisting in collecting invert data on drainage structures throughout the project.</p> <p>La State Parks Install Permanent Sewer Connections <i>Jefferson, St. Tammany, Livingston, Vermillion, Evangeline, Sabine, Webster, and Jackson Parish, Louisiana</i></p> |

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Mr. Bowman performed full topographic services including assisting in data collection and maintenance of survey equipment. This included assisting in establishing project control, collecting field data at the direction of the party chief, and ensuring that fieldwork was done in an efficient manner.

Beaver Creek Topographic Survey *Livingston Parish, Louisiana*

Mr. Bowman performed full topographic and boundary services including assisting in data collection and maintenance of survey equipment. This included assisting the party chief in locating boundary evidence along the project site and collecting field data at the direction of the party chief. This survey was used in the design of a new bulkhead along Beaver Creek to stabilize the banks of the creek.

Slidell Pier and Breakwater Restoration *St. Tammany Parish, Louisiana*

Mr. Bowman performed full topographic and hydrographic services including assisting in data collection and maintenance of survey equipment. This included assisting establishing project control, collecting field data at the direction of the party chief, and assisting in setting up the hydrographic equipment needed to complete the survey. This work was used to aid in the design of a new boat launch and breakwater at the Slidell Fishing Pier site.

Hill Heights Eastern Canal Topographic Survey *St. Charles Parish, Louisiana*

Mr. Bowman performed full topographic and boundary services including assisting in data collection and maintenance of survey equipment. This included assisting the party chief in locating boundary evidence along the project site and collecting field data at the direction of the party chief. This work was used to analyze the existing conditions of the collapsed bulkhead along the canal.

Northshore Living Shoreline at Goose Point *St. Tammany Parish, Louisiana*

Mr. Bowman performed full topographic and hydrographic services including assisting in data collection and maintenance of survey equipment. This included assisting establishing project control, collecting field data at the direction of the party chief, and assisting in setting up the hydrographic equipment needed to complete the survey.

Town of Sorrento Sewer Improvements *Ascension Parish, Louisiana*

Mr. Bowman performed full topographic services including assisting in data collection and maintenance of survey equipment. This included assisting in establishing project control, collecting field data at the direction of the party chief, and assisting in surveying the streets along the proposed route of a new sewer system in Sorrento, Louisiana.

Old Arabi Drainage Improvements *St. Bernard Parish, Louisiana*

Mr. Bowman performed full topographic services including assisting in data collection and maintenance of survey equipment. This included assisting in establishing project control, collecting field data at the direction of the party chief, and assisting in surveying the streets and drainage structures along the specified routes.

Des Allemands Bulkhead Improvements *St. Charles Parish, Louisiana*

Mr. Bowman performed full topographic services including assisting in data collection and maintenance of survey equipment. This included assisting in establishing project control, collecting field data at the direction of the party chief, and assisting in surveying the existing bulkhead and street adjacent to it. This project was intended to assist in the design of a new bulkhead along Bayou Des Allemands.

Westside Blvd (W.Park-Alma) *Houma, Louisiana*

Mr. Bowman assisted in the completion of a full topographic survey along Westside Blvd in Houma from W.Park Ave to Alma St. This included assisting the Survey Party Chief in collecting field data inside the right of way of Westside Blvd. This project was done at the request of the Terrebonne Parish Government for the purpose of replacing the existing roadside drainage.

Bayou Barataria Waterline Crossing *Lafitte, Louisiana*

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. For this project, Mr. Bowman assisted the Survey Party Chief in collecting all the field data necessary for the completion of the survey. This project included 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 field book file. Once the data was in a field book 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.

TEC Professional Services Questionnaire

| KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT: |
|---|
| Name & Title: |
| Clark Shires Survey Technician |
| Project Assignment: |
| Survey Technician |
| Name of Firm with which associated: |
| All South Consulting Engineers, LLC |
| Years' experience with this Firm: |
| 4 |
| Education: Degree(s)/Year/Specialization: |
| Bachelor of Science, Business Administration, 2018 |
| Active registration: Year first registered/discipline: |
| |
| Other experience and qualifications relevant to the proposed Project: |
| <p>Mr. Shires joined All South Consulting Engineers in September 2018 as a full time Survey Assistant. Mr. Shires graduated in May 2018 from the University of New Orleans with a bachelor's degree in Business Administration. His duties include assisting the Survey Crew Leader as necessary to perform collection of all survey data in the field.</p> <p>Grand Isle-Lafitte Waterline Survey <i>Jefferson Parish, Louisiana</i> Mr. Shires performed full topographic services including assisting in data collection and maintenance of survey equipment. This included assisting in probing for the buried waterline and assisting the party chief in ensuring that fellow crews members were following safety guidelines while on board the boat. This project entailed locating approximately 32 miles of 16" waterline running from Lafitte, Louisiana to Grand Isle, Louisiana.</p> <p>LaFreniere Park Meadow Drainage Improvements <i>Jefferson Parish, Louisiana</i> Mr. Shires performed full topographic services including assisting in data collection and maintenance of survey equipment. This included assisting in establishing project control, collecting field data at the direction of the party chief, and assisting in collecting invert data on drainage structures throughout the project.</p> <p>Jefferson Parish Fire Training Center <i>Jefferson Parish, Louisiana</i> Mr. Shires assisted in the completion of a topographic survey of the Jefferson Parish Fire Training Center for the purpose improvements to be made to the facility. This included establishing project control and collecting field data.</p> <p>Pines Village Road Reconstruction <i>New Orleans, Louisiana</i> Mr. Shires performed a full topographic survey of approximately 8800ft of roadway in New Orleans. This included</p> |

TEC Professional Services Questionnaire

assisting in the collection of all necessary field data within the right of way of the designated streets and assisting in collecting invert information on all drainage and sewer structures along the survey route. This project was done at the request of the city of New Orleans for the purpose of full depth reconstruction on these roadways.

La State Parks Install Permanent Sewer Connections *Jefferson, St. Tammany, Livingston, Vermillion, Evangeline, Sabine, Webster, and Jackson Parish, Louisiana*

Mr. Shires assisted in the completion of a full topographic survey of multiple state park campgrounds. This included assisting in establishing project control, collecting field data at the direction of the party chief, and ensuring that fieldwork was done in an efficient manner. This project was intended to assist in the design of permanent sewer connection at each camper site in the park.

Ascension Parish School Board Airline Highway Property Topographic Survey *Ascension Parish, Louisiana (05/22)*

Mr. Bowman performed full topographic and boundary services including assisting in data collection and maintenance of survey equipment. This included assisting the party chief in locating boundary evidence along the project site and collecting field data at the direction of the party chief. This survey was used in the design of a new building for the site, and to establish the western boundary to aid in tree clearing.

Slidell Pier and Breakwater Restoration *St. Tammany Parish, Louisiana (04/22)*

Mr. Shires performed full topographic and hydrographic services including assisting in data collection and maintenance of survey equipment. This included assisting establishing project control and collecting field data at the direction of the party chief in setting up the hydrographic equipment needed to complete the survey. This work was used to aid in the design of a new boat launch and breakwater at the Slidell Fishing Pier site.

St. Bernard Parish Water Plant Drainage Improvements *St. Bernard Parish, Louisiana (03/22)*

Mr. Shires performed full topographic services including assisting in data collection and maintenance of survey equipment. This included assisting in establishing project control, collecting field data at the direction of the party chief, and assisting in collecting invert data on drainage structures throughout the project.

Northshore Living Shoreline at Goose Point *St. Tammany Parish, Louisiana (03/22)*

Mr. Bowman performed full topographic and hydrographic services including assisting in data collection and maintenance of survey equipment. This included assisting establishing project control and collecting field data at the direction of the party chief.

Town of Sorrento Sewer Improvements *Ascension Parish, Louisiana (02-07/22)*

Mr. Shires performed full topographic services including assisting in data collection and maintenance of survey equipment. This included assisting in establishing project control, collecting field data at the direction of the party chief, and assisting in surveying the streets along the proposed route of a new sewer system in Sorrento, Louisiana.

Old Arabi Drainage Improvements *St. Bernard Parish, Louisiana*

Mr. Shires performed full topographic services including assisting in data collection and maintenance of survey equipment. This included assisting in establishing project control, collecting field data at the direction of the party chief, and assisting in surveying the streets and drainage structures along the specified routes.

Morganza to Gulf Reach K Levee Improvements *Lafourche Parish, Louisiana*

Mr. Shires assisted in the completion of a topographic survey of approximately 5 miles of levee in Pointe Aux Chenes, Louisiana. This included the operation of network GPS to run cross sections across the existing levee. He assisted the party chief in collecting this survey data, which would be used to compute volumes for material to be added to the levee to raise the levee crown elevation.

Mid-Barataria Sediment Diversion *Plaquemines Parish, Louisiana*

Mr. Shires assisted the party chief in completing a hazard mitigation survey of approximately 700 structures that would be impacted by the increased water level caused by the sediment diversion channel. This included operating a GS 18i GPS receiver to take images on the existing structures, which could later be used to collect floor elevations from the imagery. This also entailed taking elevation shots on the garages, boat sheds, docks, bulkheads, and driveways, to be used to assess the impact of the rise in water level. Mr. Shires also completed a topographic survey of the borrow area to be used for the construction of the channel. This included using network GPS to run cross sections over the area to assist in volume calculations.

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.</p> <p>Fire Station No. 12 Jefferson, LA Mr. Sorrells prepared the design plans for the construction of a new fire station for Jefferson Parish. The plans included new site plan, structural design, details, grading plan, drainage plan and utility plan. Mr. Sorrells coordinated with the project engineer and sub-contractors to conform and finalize plans.</p> <p>Russell Street Pump Station River Ridge, Louisiana Mr. Sorrells prepared proposed location of a new pump station to be installed by Ralph J. Bunche Elementary School (Russell St. Pump Station) in Jefferson Parish, Louisiana. These plans included an overall site plan, plan view and a typical section. Coordination with the project engineer to properly show the existing utilities, railroad and rights-of-way was very important in this project.</p> <p>South Kenner Avenue Rehabilitation (Between Live Oak Blvd. and Chenevert Rd.) Jefferson Parish, Louisiana Mr. Sorrells provided drafting support for this project, including plan sheets, cross sections, and existing subsurface pipe networks. Showing the existing roadway and existing sidewalk, which were to be developed in a wider and improved asphalt roadway with new sidewalks and new subsurface drainage. This project conformed to the Parish criteria.</p> |

TEC Professional Services Questionnaire

Lake Trail Drive Drainage Improvements *Kenner, Louisiana*

Mr. Sorrells prepared the topographic and right-of-way drawings for Lake Trail Drive, from its intersection with the northern right-of-way of Bruin Drive, north to the southern right-of-way of West Esplanade Avenue; approx. 2880 LF. The drawings included elevation shots of Lake Trail Drive, right-of-way to right-of-way for the creation of cross sections every 50'. He also created a 3D surface, a centerline profile, and underground utility profiles for this project.

Westgate Drainage *Kenner, Louisiana*

Mr. Sorrells prepared the Record Drawings for this project. Although coming in late to this project Mr. Sorrells developed the record drawings for this project by coordinating with the project engineer, inspectors, and sub-contractors. Ensuring that the record drawings incorporated all as-built conditions of this project.

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

Mr. Sorrells prepared the plan and profile sheets and cross sections from the 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.

Rosethorne Path – LA. 45 *Jefferson Parish, Louisiana*

Mr. Sorrells prepared the topographic survey for this project. This project was approx. 9500 LF along Rosethorne Rd./Jean Lafitte Hwy. The plans included plan and profile showing the existing drainage/sewer/ water with inverts. TBMs were set along 500' increments and the right-of-way of the highway was calculated from reference maps and put into the drawings.

Upper LA Hwy. 45 Tidal Surge Protection *Jefferson Parish, Louisiana*

Mr. Sorrells prepared the topographic and hydrographic survey for this project. The project included two alignments which were called North and South portions. The north portion was approx. 7650 LF along the shoreline of Bayou Barataria, included in this portion was the hydrographic survey and topography, profile, cross sections were cut along the baseline. The south portion of this project was along the levee south of Jean Lafitte Blvd. approx. 8225 LF. These plans included profile and cross sections along the survey baseline.

Canal A Drainage Improvements, *New Sarpy/St. Charles Parish, Louisiana*

Mr. Sorrells prepared the design plans for the Canal A drainage improvement project. The project was approximately ±1800 LF, it consisted of replacing an existing arch culvert with two cast in place box culverts, roadway reconstruction and multiple cantilevered sheet pile wall systems. Mr. Sorrells created a C3D model showing the proposed canal depth for volume calculations. Three separate concrete flume walls were drawn and detailed as well. Mr. Sorrells assisted the project engineer in completing the proposed plan set and reconstructed roadway design.

Breakwater Drive Improvements *New Orleans, Louisiana*

Mr. Sorrells prepared survey maps along Breakwater Drive, from its intersection with N. Roadway Street to its termination at the point. Baseline maps, plan, profile and cross sections were provided to show the existing berms and existing topography of the site. FEMA and CORP permit drawings were also provided in this project. Shown in the plans were horizontal and vertical location of existing berms and proposed berms. Mr. Sorrells assisted the project engineer in creation of the new west, north, south and the point berms. Proposed berm plan and profile sheets with cross sections showing proposed work were also created by Mr. Sorrells.

Capital Improvements Program Audubon, Black Pearl, E. Carrollton, Uptown, W. Riverside, Pines Village *New Orleans*

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.

HMGP Canal Crossing Project-Maureen Lane *St. Bernard Parish, Louisiana*

Mr. Sorrells prepared the plan set for the Maureen Lane Canal Crossing. This project included the replacement/improvement of a drainage canal crossing, removing damaged CMP and replace with a precast arch bridge system and associated roadway and utilities. Mr. Sorrells assisted the project engineer in completing the proposed plan set and the new site design. Mr. Sorrells also assisted in computing the quantities and detour plan used for this project.

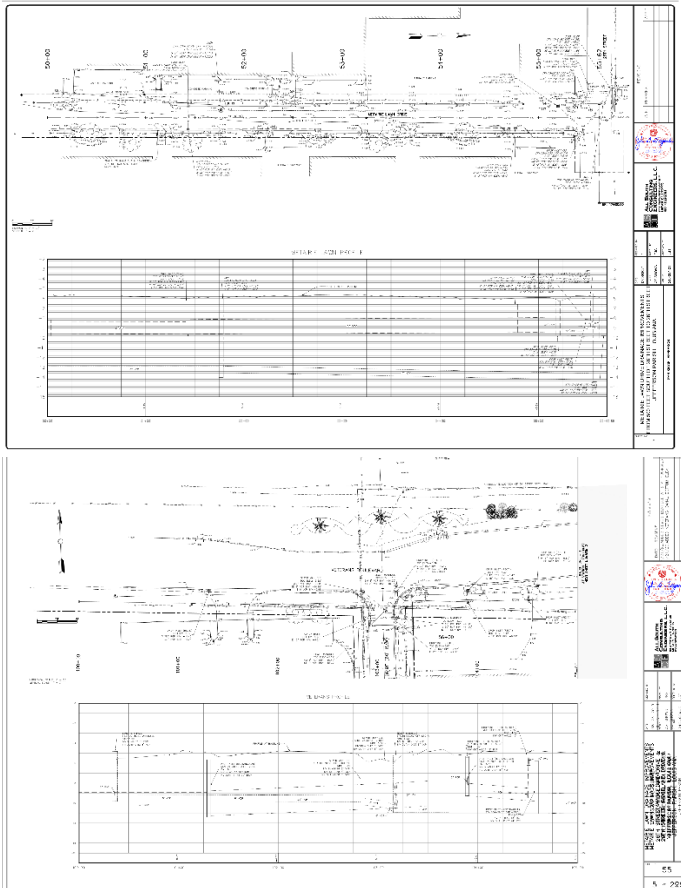
TEC Professional Services Questionnaire

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.

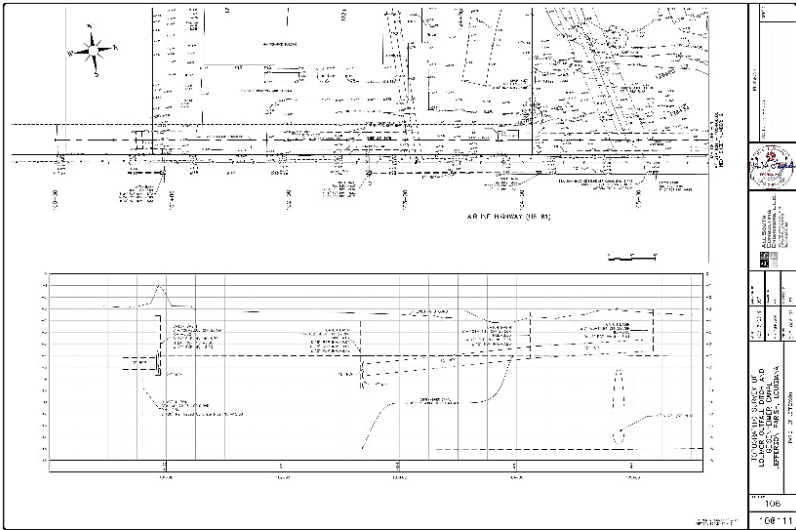
PROJECT NO. 1

| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
|---|---|------------------------|
| <p>Grand Isle 16" Water Line Location Survey <i>Lafitte-Grand Isle, Louisiana</i></p> <p>Jefferson Parish Government Sidney Bazley., Director of Water 1221 Elmwood Park Blvd, Suite 909 Jefferson, Louisiana 70123 (504)736-6060</p> | <p>Since it was laid adjacent to the Barataria Waterway the 16" Water Line has been struck and broken many times. All South has been tasked with the location of that 16" water line from Lafitte to Grand Isle. As the line is HDPE it cannot be located by traditional means. The only way to locate it is by probing. To make the process efficient we developed a jet probe by combining a 2" water pump to suck in water and feed it to a 2800 PSI pressure washer which fed into 1/4" stainless steel tubing with a high-pressure sewer cleaning fitting. This made the probing much easier to do and prevented the field crews from tiring too quickly. We also utilized a 36' deck barge where we were able to set up two jet probes to increase productivity. Water depths were taken at each spot where the line was located by probing so we could calculate the depth of cover. As part of this survey, we also located each of the remaining valve stations. The results of the survey will be shown on plan and profile sheets showing the located line and bottom profile.</p> <div data-bbox="721 1058 1490 1566" data-label="Figure"> </div> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Entire Project: |
| September 2022 | N/A | Survey Cost: \$234,035 |

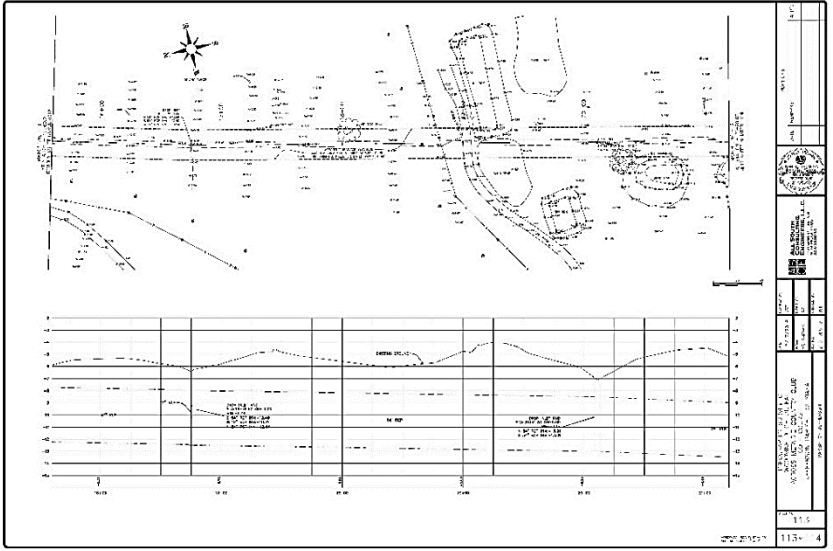
TEC Professional Services Questionnaire

| PROJECT NO. 2 | | | | | | |
|---|---|--|-----------------|--------------------------------------|-----|-----------------------|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | | | | | |
| <p>Metairie Lawn Drainage Improvements Topographic Survey <i>Metairie, Louisiana</i></p> <p>Mr. Joseph R. Becker, P.E. Ardurra 3012 26th Street Metairie, Louisiana 70002</p> | <p>All South provided a topographic survey from ±500 feet south of the intersection of Metairie Lawn Drive and 26th Street and from that intersection heading west along 26th Street to the intersection of 26th Street and Ridgelake Drive and then north along Ridgelake Drive to its intersection with Veterans Boulevard. On Veterans Boulevard the survey will begin on the west side of the Perino's Nursery driveway to the U-turn on the west side of Clifford Drive.</p> <p>This was a full topographic survey from right of way to right of way with cross sections taken at 50-foot intervals and shots along the centerline of streets taken at 25-foot intervals. The survey also included the location of above and below ground utilities. For the sewer and drainage utilities we provided top of casting elevations, invert elevations, pipe sizes, and pipe material. The deliverables for this project included plan and profile sheets and cross section sheets.</p> <div style="display: flex; justify-content: space-around; align-items: center;">  </div> | | | | | |
| <p>Completion Date (Actual or estimated):</p> | <p style="text-align: center;">Estimated Cost:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%; padding: 5px;">Entire Project:</th> <th style="width: 50%; padding: 5px;">Work for which Firm was Responsible:</th> </tr> <tr> <td style="text-align: center; padding: 10px;">N/A</td> <td style="text-align: center; padding: 10px;">Survey Cost: \$25,460</td> </tr> </table> | | Entire Project: | Work for which Firm was Responsible: | N/A | Survey Cost: \$25,460 |
| Entire Project: | Work for which Firm was Responsible: | | | | | |
| N/A | Survey Cost: \$25,460 | | | | | |
| <p>August 2021</p> | | | | | | |

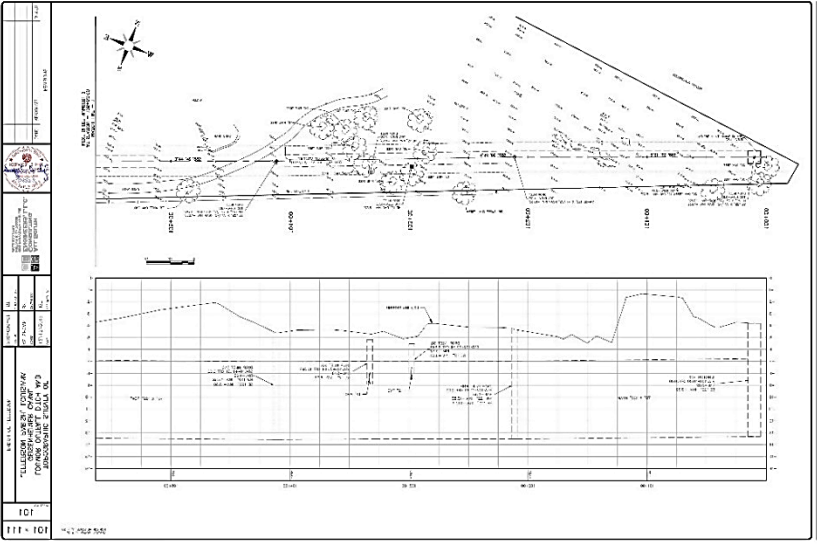
TEC Professional Services Questionnaire

| PROJECT NO. 3 | | |
|---|---|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| <p>Geisenheimer Canal Topographic Survey <i>Jefferson Parish, Louisiana</i></p> <p>Jefferson Parish Government Mr. Neil Schneider, P.E. Director of Capital Projects 1221 Elmwood Park Blvd Jefferson, Louisiana 70123 (504)736-6753</p> | <p>This survey was prepared to provide the field data necessary to design drainage improvements for the Geisenheimer Canal which flows to Hoey's Canal and from there to 17th Street Canal and Lake Pontchartrain.</p> <p>In order to accomplish this, we prepared a topographic survey of the surface area above Geisenheimer Canal from the maintenance facility for the Metairie Country Club to the tie in point at Hoey's Canal. For this route we located all surface improvements, visible signs of utilities, trees with size and species and cross sections at 50' intervals.</p> <p>We were able to locate the underground concrete box canal by accessing it through an access cover where we set a control point in the bottom of the box, we then located the sides and roof and the tie in point for the concrete arch pipe outfall for the Loumor Ditch. From a drop inlet cover near the Woodvine Ditch outfall we located the outfall and determined the invert. This was verified by probing the outfall pipe at the edge of the box. At Hoey's Canal we probed the top of the Geisenheimer Canal box and the Hoey's Canal box to determine the point of intersection.</p> <p>The deliverable for this survey were plan and profile drawings of Geisenheimer Canal which were included in a master set with Loumor Ditch and Woodvine Ditch.</p> <div style="text-align: center;">  </div> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| February 2020 | N/A | Survey Cost: \$25,920 |

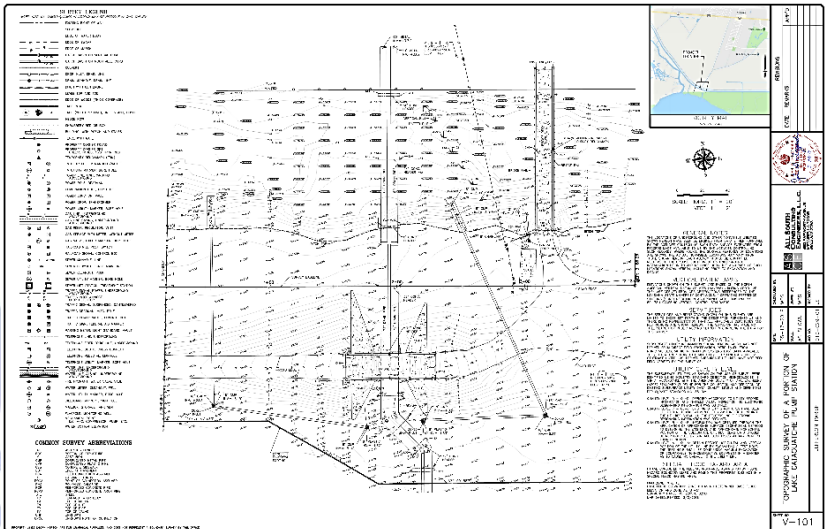
TEC Professional Services Questionnaire

| PROJECT NO. 4 | | |
|---|--|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| <p>Woodvine Ditch Topographic Survey <i>Jefferson Parish, Louisiana</i></p> <p>Jefferson Parish Government Mr. Neil Schneider, P.E. Director of Capital Projects 1221 Elmwood Park Blvd Jefferson, Louisiana 70123 (504)736-6753</p> | <p>This survey is for drainage improvements to the Woodvine Ditch beginning at the western right of way of Nassau Drive and following the drain line west-southwesterly across the parking lot that lies on the north side of the swimming pools and tennis courts to the eastern side of the golf course where the drain line turns in a southerly direction and heads south-southwest to its discharge point into Geisenheimer Canal at the north right of way of Airline Highway.</p> <p>The topographic survey over the existing 54" RCP drain line followed the line from Nassau Drive south across the Metairie Country Club Golf course to its tie in point at Geisenheimer Canal. Improvements along that route were located along with trees, with size and species and topographic features on the golf course, which included ties, sand traps and the raised greens that fell in the route.</p> <p>Deliverables were plan and profile sheets that were included with the master set of Loumor Ditch Outfall, Geisenheimer Canal and Woodvine Ditch.</p> <div style="text-align: center; margin-top: 20px;">  </div> | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| February 2020 | N/A | Survey Cost: \$16,720 |

TEC Professional Services Questionnaire

| PROJECT NO. 5 | | | | | | |
|--|---|--|------------------------|---|-----|-----------------------|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | | | | | |
| <p>Loumor Outfall Ditch Topographic Survey <i>Jefferson Parish, Louisiana</i></p> <p>Mr. Neil Schneider, P.E. Director of Capital Projects 1221 Elmwood Park Blvd Jefferson, Louisiana 70123 (504)736-6753</p> | <p>This survey is for drainage improvements to the Loumor Outfall Ditch beginning at the southwest corner of Pontiff Playground and running southeast then turning in a south-southwesterly direction along the northern and western boundary of Metairie Club Estates Subdivision to its discharge point into Geisenheimer Canal and the north right of way of Airline Highway.</p> <p>This survey route follows the 78" X 122" RCAP along the western edge of Metairie Country Club Golf course, then southeasterly and finally south to Geisenheimer Canal just north of Airline Highway. Improvements along that route were located along with trees, with size and species and topographic features on the golf course, which included ties, sand traps and the raised greens that fell in the route.</p> <p>We also located the maintenance facility for the golf course, ponds and a pump house that were near the drain route.</p> <p>Deliverables for this project were plan and profile sheets that were included with the master set of Loumor Ditch Outfall, Geisenheimer Canal and Woodvine Ditch.</p> <div style="text-align: center; margin-top: 20px;">  </div> | | | | | |
| <p>Completion Date (Actual or estimated):</p> | <p style="text-align: center;">Estimated Cost:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px; text-align: center;">Entire Project:</td> <td style="width: 50%; padding: 5px; text-align: center;">Work for which Firm was Responsible:</td> </tr> <tr> <td style="text-align: center; padding: 5px;">N/A</td> <td style="text-align: center; padding: 5px;">Survey Cost: \$19,340</td> </tr> </table> | | Entire Project: | Work for which Firm was Responsible: | N/A | Survey Cost: \$19,340 |
| Entire Project: | Work for which Firm was Responsible: | | | | | |
| N/A | Survey Cost: \$19,340 | | | | | |
| February 2020 | | | | | | |

TEC Professional Services Questionnaire

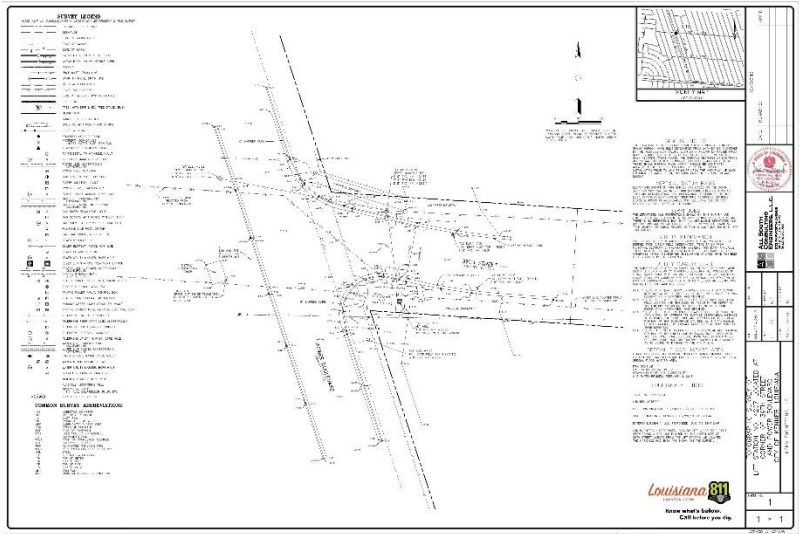
| PROJECT NO. 6 | | | | | | |
|---|--|--|------------------------|---|-----|----------------------|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | | | | | |
| <p>Lake Cataouatche Pump Station Topographic Survey <i>Jefferson Parish, Louisiana</i></p> <p>Jefferson Parish Drainage Department Jefferson Parish Government Mitchell T. Theriot, P.E., Director of Drainage 1221 Elmwood Park Blvd Jefferson, Louisiana 70123 (504)736-6753</p> | <p>All South prepared a topographic survey at the site of the proposed pump station on the northern shore of Lake Cataouatche. The new site lies south of the existing pump station and just north of the flood wall. The survey included cross sections of the proposed site and adjacent canal, location of improvements, the existing discharge pipes, roadways and the floodwall.</p> <div style="text-align: center;">  </div> | | | | | |
| <p>Completion Date (Actual or estimated):</p> | <p style="text-align: center;">Estimated Cost:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; padding: 5px; vertical-align: top;">Entire Project:</td> <td style="width: 50%; padding: 5px; vertical-align: top;">Work for which Firm was Responsible:</td> </tr> <tr> <td style="width: 50%; padding: 5px; text-align: center;">N/A</td> <td style="width: 50%; padding: 5px; text-align: center;">Survey Cost: \$4,495</td> </tr> </table> | | Entire Project: | Work for which Firm was Responsible: | N/A | Survey Cost: \$4,495 |
| Entire Project: | Work for which Firm was Responsible: | | | | | |
| N/A | Survey Cost: \$4,495 | | | | | |
| <p>May 2019</p> | | | | | | |

TEC Professional Services Questionnaire


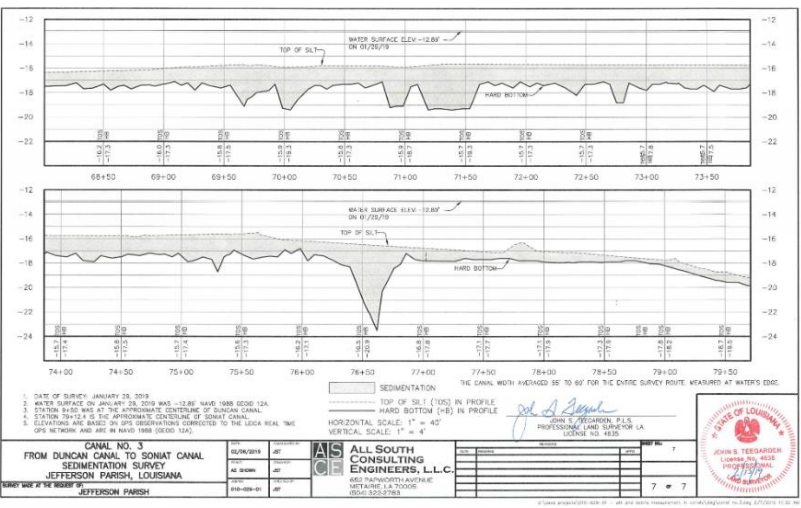
| PROJECT NO. 7 | | |
|---|--|---|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| <p>Ruby and Wright Lift Station Topographic Survey <i>Jefferson Parish, Louisiana</i></p> <p>GreenPoint Engineering Amer Tufail, PE, BCEE 701 Loyola Ave., Suite 801 New Orleans, LA 70113 (504) 708-2020</p> | <p>All South Consulting Engineers, LLC was hired as subconsultant to GreenPoint Engineering to provide Topographic and Boundary Survey services for the Improvements to the Ruby and Wright Avenue Lift Station. This survey was done so the existing lift station could be moved back from its present position that was close to the Wright Avenue traffic lanes.</p> <p>The scope of work for this project included:</p> <ul style="list-style-type: none"> Survey control both horizontal and vertical. The horizontal control datum will be in the Louisiana State Plane Coordinate System, South Zone (1702) NAD 1983 (2011) and the vertical control datum will be NAVD 1988 Geoid 12B. Control points will be established outside of the likely construction area. A TBM will be set out of the construction area. Located the existing lift station with inverts and sizes. We also located existing improvements that include fences, roadways, curbing, etc. Locations of visible evidence of above and below ground utilities and those utilities marked by the subscribers to the 811 system. We will also plot the approximate location from maps supplied by the controlling agencies. The locations of water, sewer and drainage structures in the survey area with elevations shown on the top of casting, invert elevations and size and type of material of piping. Locations of any trees 4" or larger at chest height with type. Elevations taken across the site at 25 foot intervals and at all breaks in grade Establish the property boundaries adjacent to the site. The finished product was a 24" X 36" site plan. | |
| Completion Date (Actual or estimated): | Estimated Cost: | |
| | Entire Project: | Work for which Firm was Responsible: |
| March 2018 | N/A | Survey Cost: \$5,865 |

TEC Professional Services Questionnaire

| PROJECT NO. 8 | | |
|---|--|--|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | |
| <p>Power and 39th Sewer Pump Station Topographic Survey <i>Jefferson Parish, Louisiana</i></p> <p style="text-align: center;">MSMM Scott G. Chehardy 4640 South Carrollton Ave. Suite 220 New Orleans, LA 700119 (985) 233-9763</p> | <p>The topographic survey for this project encompassed an area approximately 100 feet by 100 feet located at the southeast corner of the intersection of Power Boulevard and 39th Street.</p> <p>The scope of services for this project included the following:</p> <ul style="list-style-type: none"> Control points and TBM's at the site. Baseline is not needed. Complete benchmark location & description. Topo within limits shown on the attachment. Include all features within these limits (utility poles, ditches, culverts, etc.) Any utilities within limits (We placed a LA One Call ticket and located any utilities marked by their subscribers. Existing manholes catch basins and wet well inverts were collected during this survey. Elevations on a 25-foot grid across the site to include the adjacent roadways. We provided a 25' grid of spot elevations throughout project site. The deliverables included a PLS stamped PDF of survey and CAD files suitable for use with ACAD 18. Boundary evidence was located along the right of way of Power Boulevard and 39th Street along with ownership for the pump station building. This information was used to develop the existing right of way of the streets and pump station. | |
| <p>Completion Date (Actual or estimated):</p> | <p style="text-align: center;">Estimated Cost:</p> | |
| | <p style="text-align: center;">Entire Project:</p> | <p style="text-align: center;">Work for which Firm was Responsible:</p> |
| <p>October 2018</p> | <p>N/A</p> | <p>Survey Cost: \$4,410</p> |

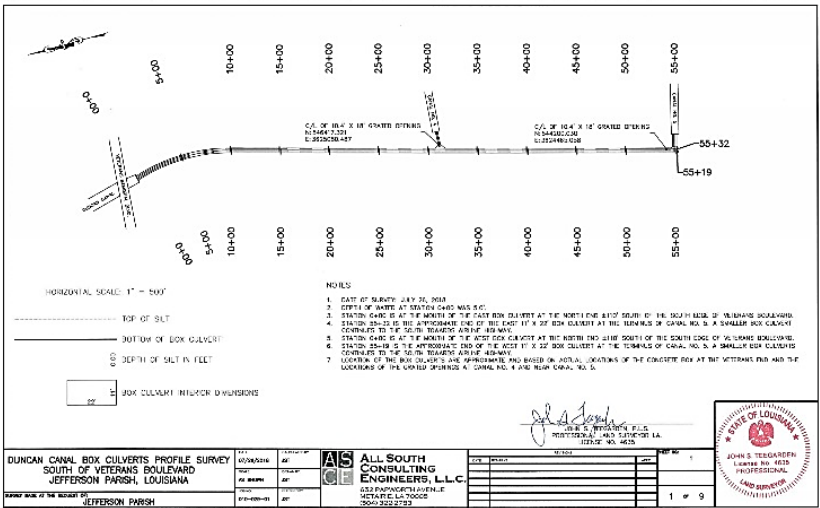
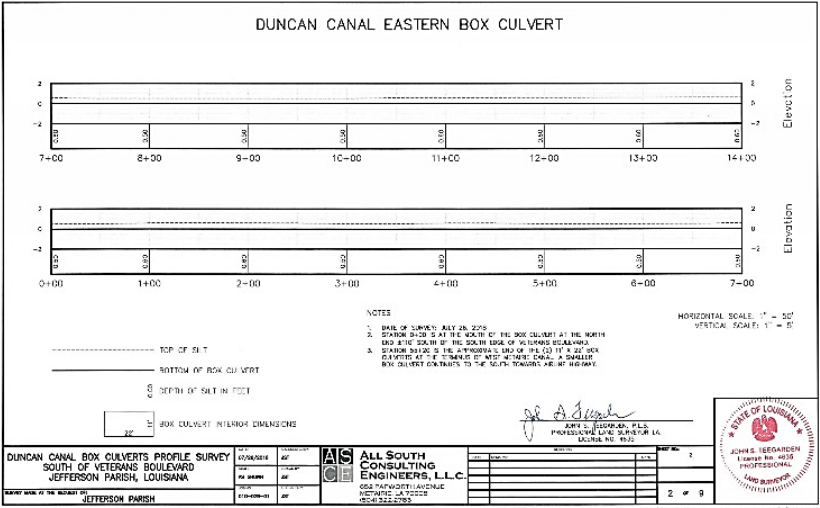


TEC Professional Services Questionnaire

| PROJECT NO. 9 | | | | | | | |
|--|--|------------------------|--|------------------------|---|-----|-----------------------|
| Project Name, Location and Owner's contact information: | Nature of Firm's Responsibility: | | | | | | |
| <p>Jefferson Parish Canal Sedimentation and Debris Surveys <i>Jefferson Parish, Louisiana</i></p> <p>Jefferson Parish Government Mitchell T. Theriot, P.E., Director of Drainage 1221 Elmwood Park Blvd Jefferson, Louisiana 70123 (504)736-6753</p> | <p>All South is performing hydrographic surveys of selected drainage canals and box culverts in the Jefferson Parish Drainage System. The purpose of these surveys is to monitor the amount of sediment accumulating in the drainage system. All South utilizes its Z-Boat (a 6-foot long remotely controlled hydrographic survey boat) to perform these surveys. The Z-Boat is equipped with a single beam dual frequency echo sounder capable of defining the amount of sediment accumulating in the canals and drainage structures. This is accomplished by using two frequency during the survey. The high frequency sound waves are reflected by the top of the sediment layer and the low frequency sound waves penetrate the sediment and are reflected by the solid bottom. These surveys are presented as profiles and show the top of sediment elevations and the elevation of the solid bottom.</p> <div style="text-align: right; margin-top: 10px;">  </div> | | | | | | |
| |  | | | | | | |
| Completion Date (Actual or estimated): | <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center; padding: 5px;">Estimated Cost:</th> </tr> <tr> <th style="width: 50%; padding: 5px; vertical-align: top;">Entire Project:</th> <th style="width: 50%; padding: 5px; vertical-align: top;">Work for which Firm was Responsible:</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 5px;">N/A</td> <td style="padding: 5px;">Survey Cost: \$75,000</td> </tr> </tbody> </table> | Estimated Cost: | | Entire Project: | Work for which Firm was Responsible: | N/A | Survey Cost: \$75,000 |
| Estimated Cost: | | | | | | | |
| Entire Project: | Work for which Firm was Responsible: | | | | | | |
| N/A | Survey Cost: \$75,000 | | | | | | |
| Project is Ongoing by Task Assignments | | | | | | | |

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;">Duncan Canal Box Culverts <i>Kenner, Louisiana</i></p> <p>Jefferson Parish Government Mitchell T. Theriot, P.E., Director of Drainage 1221 Elmwood Park Blvd Jefferson, Louisiana 70123 (504)736-6753</p> | <p>All South was tasked with providing a survey to show the depth of silt that has accumulated within the 11' x 22' box culverts that start south of Veterans Boulevard to a point south of the intersection with Canal No. 5 (West Metairie Avenue) and the end of the double box culvert. All South's remotely controlled boat was utilized with a dual frequency echosounder to obtain depths to the top of silt and the concrete bottom of the box culvert. The deliverable for this project was a report of the survey results and plotted profile sheets prepared for each box.</p> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;">  </div> <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <p style="text-align: center;">DUNCAN CANAL EASTERN BOX CULVERT</p>  </div> | | | | |
| <p>Completion Date (Actual or estimated):</p> <p style="text-align: center;">September 2018</p> | <p style="text-align: center;">Estimated Cost:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%; text-align: center;">Entire Project:</th><th style="width: 50%; text-align: center;">Work for which Firm was Responsible:</th></tr> <tr> <td style="text-align: center; height: 40px;">N/A</td><td style="text-align: center;">Survey Cost: \$11,000</td></tr> </table> | Entire Project: | Work for which Firm was Responsible: | N/A | Survey Cost: \$11,000 |
| Entire Project: | Work for which Firm was Responsible: | | | | |
| N/A | Survey Cost: \$11,000 | | | | |

TEC Professional Services Questionnaire

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

| Parties: | | Status/Result of Case: |
|---------------------|------------------|--|
| Plaintiff: | Defendant: | |
| 1. 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 Consulting Engineers, LLC is a Louisiana Licensed multi-disciplinary firm that provides Civil and Structural Engineering, , Land and Hydrographic Surveying, Construction Administration, and Resident Inspection Services. (LA Engineering License No. EF.0003140; LA Survey License No. VF.0000730)

All South offers outstanding surveying services from leading professionals, including our Professional Land Surveyor. As Vice President and Survey Division Manager, Mr. John S. Teegarden, PLS has extensive experience in all aspects of land surveying which he has acquired over his 30-year career.

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

| Name: | | Public Address: | | |
|--|--------|--|-----------------|--|
| All South Consulting Engineers, LLC | | 652 Papworth Avenue Metairie, Louisiana 70005 | | |
| License/Certificate Information w/ Supervision | | | | |
| License | Status | First Issuance Date | Expiration Date | Supervisor(s) |
| VF.0000730 | Active | 12/02/2014 | 03/31/2023 | Mr. John S. Teegarden # PLS.0004635 - Active |

TEC Professional Services Questionnaire

All South's Surveying Division has a client list that includes the following parishes, municipal and state organizations: Jefferson Parish, Plaquemines Parish, St. Bernard Parish, Orleans Parish, St. Tammany Parish, Lafourche Parish, Terrebonne Parish, East Baton Rouge Parish, Livingston Parish, Ascension Parish, Coastal Protection and Restoration Authority, City of Gretna and City of Slidell. Projects range from topographic surveys for design of new facilities and infrastructure to bathymetric surveys for coastal restoration and drainage maintenance.

Our team of Professional Land Surveyors, Land Survey Interns, Survey Party Chief, and Survey Technicians Inspectors obtain professional qualifications that allow for satisfactory work, which cumulatively include:

- ATSSA Traffic Control Supervisor
- OSHA Heat Illness Prevention for Workers in General Industry and
- ATSSA Traffic Control Technician
- Transportation Worker Identification Credential
- ATSSA Traffic Control Flagger

All South Firm capabilities and services include but are not limited to the following:

- **Control Surveys** – Establish the horizontal and vertical survey info via deep rod monuments and GPS network surveys
- **Boundary/ALTA-NSPS Surveys** – ALTA-NSPS (American Land Title Association-National Society of Professional Surveyors) surveys for large property transactions
- **Topographic Surveys** – Route and corridor surveys and development site surveys
- **Elevation Surveys** – Elevation certifications and effects of subsidence over time
- **Hydrographic Surveys** – Coastal restoration, maintenance dredging, dock construction and maintenance, USACE permitting surveys, and using side scan single beam and multi-beam hydrographic profiles
- **HDS (High Definition Survey) Laser Scanning** – High resolution point clouds to verify measurements, monitor movement of a structure, and provide a 3D model of area surveyed using 360° scans at our survey sites for this reason
- **GIS Data Acquisition** – Collect data for infrastructure inventory, complete with geocoded photographs of each item
- **Pipeline Surveying** – Collect pipe tally measurements, record heat, weld and joint numbers, record horizontal and depth of cover

All South possesses the staff and capability to offer licensed surveying services, including land and hydrographic survey services. Our land survey crews have completed multiple coastal and flood protection relation projects through the pre-site survey, setting project control points, dredging and borrow quantity measurement, and as-built surveys.

All South is also a leading provider of hydrographic surveying services. We are experienced with single-beam, multi-beam, and side-scan sonar surveys and efficiently process hydrographic data with HYPACK software. Our 26' survey vessel is outfitted with a dual-frequency echosounder to take on large hydro projects. The 6' Z-Boat remote survey boat allows us to access sites where a manned boat can't be used.



EQUIPMENT & SOFTWARE:

- GPS (Global Positioning System)
- Leica GS-14 GPS Receivers
- AutoCAD Stations Civil 3D, Microstation, InRoads, CadConform
- 26' Scully Aluminum Boat with Dual 150 HP motors
- 14' Aluminum Flat Boat
- 6' Z-boat, remotely operated hydrographic survey boat
- Odom Hydrographic CV100 dual frequency Echosounder
- Tritech Starfish 990F side scan sonar
- Getac X500 Laptop with Hypack Hydrographic Software
- G-882 Magnetometer
- Four wheel off road vehicles / marsh buggies
- Hypack – Hydrographic software
- LEICA Geo – GPS Software

TEC Professional Services Questionnaire

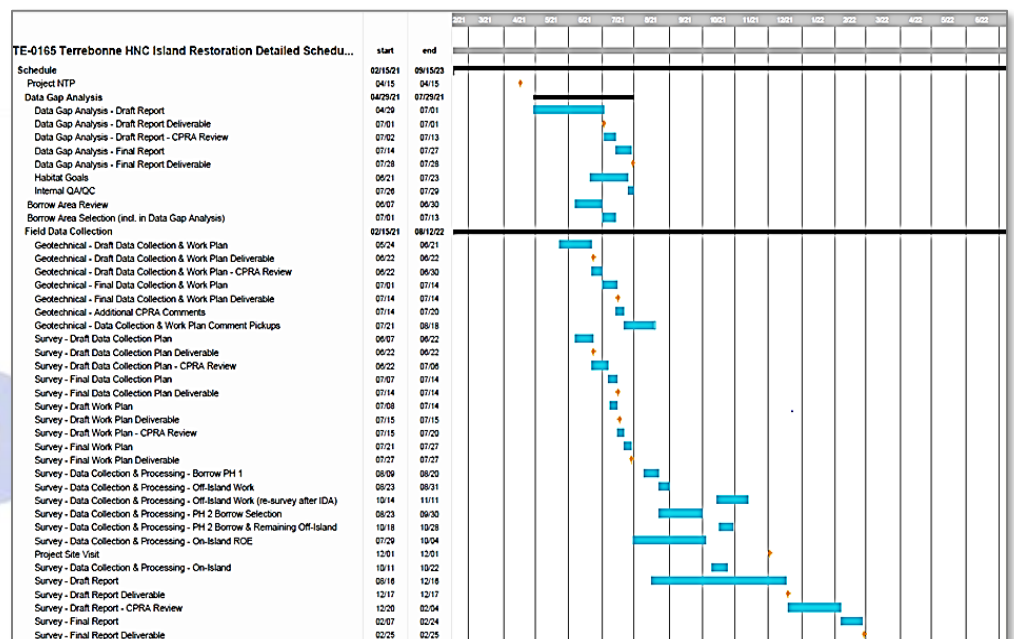
» SIZE OF FIRM «

The All South staff includes 74 professionals driven to excellence and focused on our clients' needs. We are made up of 14 Louisiana Licensed Professional Engineers, 4 Engineering Interns, **2 Professional Land Surveyors, 2 Survey Party Chiefs, and 3 Survey Technicians**. 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.

» CAPACITY FOR TIMELY COMPLETION «

With 66 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.



All South takes pride in the quality control taken to ensure our survey and management practices account for accuracy, schedule, and costs for every project. If selected, All South will implement our quality control and assurance principles to Jefferson Parish projects through our qualified staff, innovative scheduling and surveying software, and innovative practices to control cost.

» 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.

TEC Professional Services Questionnaire

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 several successful surveying projects for Jefferson Parish and look forward to continuing this great relationship.

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

Signature: John S. Teegarden

Print Name: John S. Teegarden, P.L.S.

Title: Vice President/ Survey Division Manager

Date: August 19, 2022