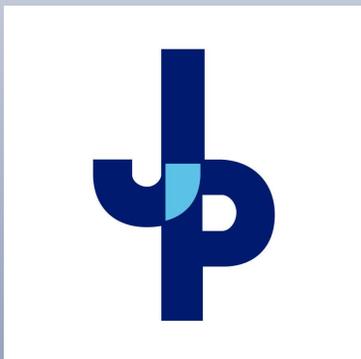


COASTAL ENGINEERING CONSULTING AS NEEDED PARISH WIDE



ENGINEERING LLC

Vision: The Professional Service Provider of Choice

Mission: Deliver superior services that exceed clients' and communities' expectations through responsive and empowered employees

935 Gravier Street, Suite 600
New Orleans, LA 70112
P: (225) 408-0932
Federal Tax ID #81-0966624

Contact Person: Ben Malbrough, P.E.
President
P: (985) 219-1000
F: (985) 632-5628
bmalbrough@gisy.com





July 16, 2024

Ecosystem and Coastal Management Department
Parish of Jefferson

**RE: COASTAL ENGINEERING CONSULTING AS NEEDED PARISH WIDE
Resolution No. 144205**

Dear Members of the Selection Committee:

GIS Engineering, LLC. (GIS) is pleased to submit this proposal electronically via the Parish's e-procurement system, Central Bidding for the above-mentioned project. GIS is a Louisiana-owned engineering firm comprised of over 170 employees within the State with extensive experience on sewer projects throughout Louisiana. Our Team takes great pride in GIS' ability to provide timely, cost-effective designs that add value for our clients.

GIS looks forward to developing a strong relationship and will explicitly comply with all Parish design standards and applicable codes. We appreciate your time and consideration on the review of our qualifications. Should you have any questions or concerns, please do not hesitate to contact me directly.

Sincerely,

A handwritten signature in blue ink, reading "Kyle J. Galloway".

Kyle J Galloway, PE
Director of Operations

GIS Engineering, LLC
935 Gravier Street, Suite 600
New Orleans, LA 70112
985-219-1023
kgalloway@gisy.com

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Coastal Engineering Consulting Services as Needed Parish Wide
 SOQ No.: 24-020; Res. No. 144205

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



935 Gravier Street | Suite 600
 New Orleans, LA 70112

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:

Benjamin Malbrough, PE, Vice President
 Office: (985) 219-1000 Email: bmalbrough@gisy.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.

Kyle J Galloway, PE, Director of Operations – New Orleans
 Office: (985) 219-1023 Cell: (504) 264-3504 Email: kgalloway@gisy.com

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

LA	US	DISCIPLINE	LA	US	DISCIPLINE	LA	US	DISCIPLINE
10		Administrative	3		Estimators	2		Specification Writers
		Architects (Licensed)	1		Geologists	7		Structural Engineers
		Chemical Engineers			Geotechnical Engineers			Graduate Engineers
20		Civil Engineers			Interior Designers	20		Project Managers
11		Construction Inspectors			Landscape Architects	8		Clerical
		Ecologists	40		Land Surveyor	1		Grant/Funding Specialist
		Electrical Engineers	6		Mechanical Engineers	3		Sanitary Engineers
19		Engineer Intern	1		Environmental Engineers	14		Designers
8		Professional Land Surveyors			TOTAL	174		

NOTE: LA=Louisiana Personnel US=United States Personnel (outside of Louisiana)

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

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

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.

G1.

G2.

H. Has this JOINT-VENTURE previously worked together? YES ___ NO ___

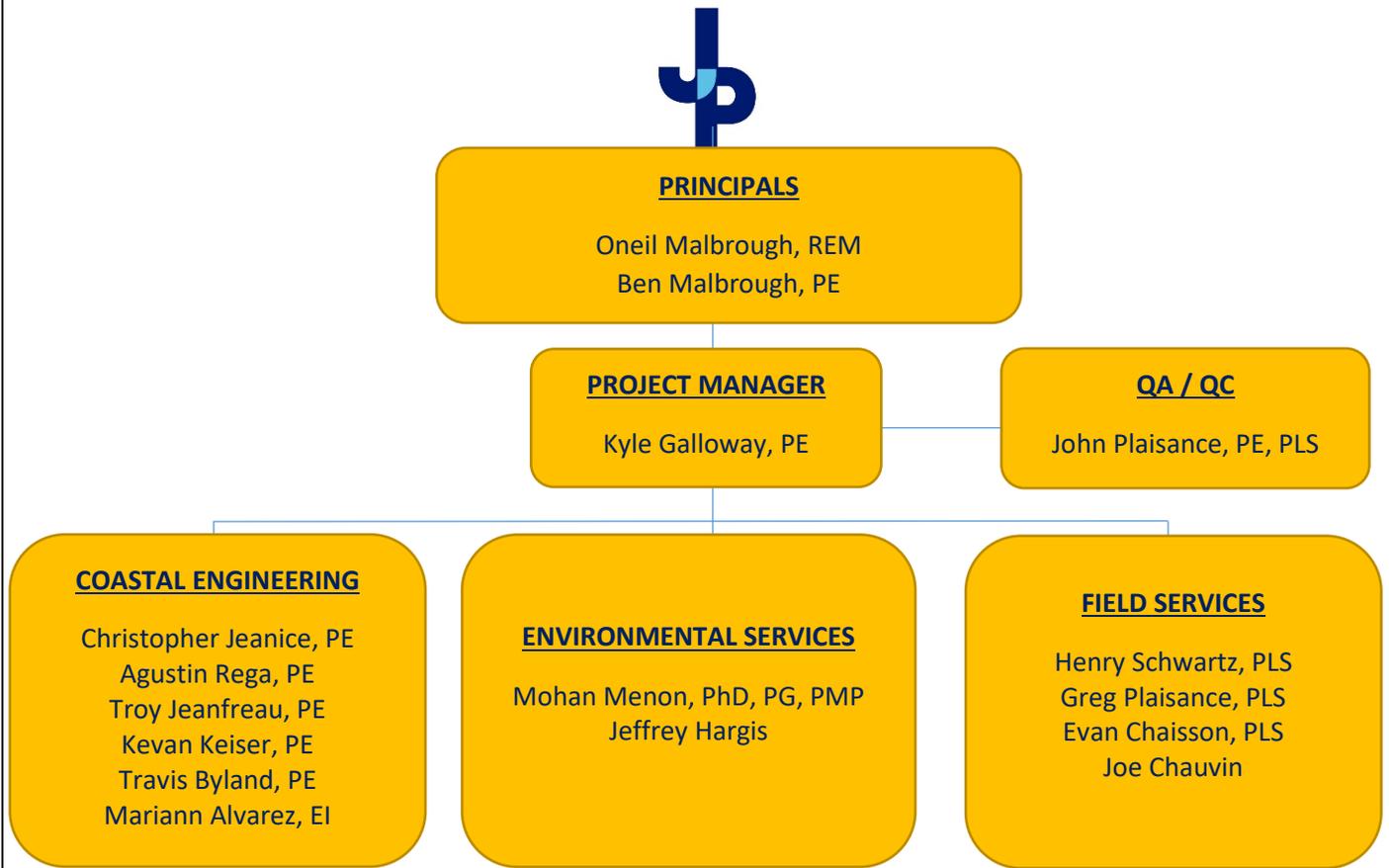
TEC Professional Services Questionnaire

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

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

- J. Please specify the total number of support personnel that may assist in the completion of this Project:
There are 174 support personnel in our Louisiana offices.

- 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:		
Oneil P. Malbrough, Jr., REM - Sr. Vice President		
Project Assignment:		
Principal in Charge		
Name of Firm with which associated:		
GIS Engineering, LLC		
Years' experience with this Firm:		
With this firm: <u>5</u> With other firms: <u>40</u>		
Education: Degree(s) / Year / Specialization:		
Masters of Science / 1995 / Environmental Engineering Bachelors of Science / 1975 / Engineering Science		
Active registration: Year first registered / discipline:		
Year first registered: <u>1992</u> Branch: <u>Registered Environmental Manager</u> LA License No. <u>5311</u>		
Other experience and qualifications relevant to the proposed Project:		
<p>Mr. Malbrough has more than 40 years of engineering and environmental consulting experience, that includes supervising a staff of engineers, land surveyors, environmental professionals, engineering technicians and CADD drafters for work on levee projects, flood control projects, navigation projects, hurricane protection projects, coastal restoration projects, permits, environmental assessments and NEPA compliance, road and bridge projects, and master planning for ports and local parishes. This has given him the expertise, skill, and insight required to provide thorough and accurate results for successful project execution and delivery.</p>		
<p>NUMEROUS PROJECTS FOR THE TOWN OF GRAND ISLE (TOGI) AND GRAND ISLE INDEPENDENT LEVEE DISTRICT (GIILD) Mr. Malbrough has led numerous projects for TOGI and GIILD including drainage studies, pump station upgrades, planning and design for levees, design and construction of breakwaters, and facility repairs. In 2004, he led the development of a study to define drainage and pumping requirements in Grand Isle.</p>		
<p>JEFFERSON PARISH (JP) COMPREHENSIVE COASTAL PLAN (1992, 2002, 2012) In 1992 Mr. Malbrough led a team of coastal engineers and scientists to produce a Coastal Master Plan for Jefferson Parish. In 2002 and 2012, Mr. Malbrough led his team to update the Plan with current and new projects.</p>		
<p>NUMEROUS CWPPRA PROJECTS IN JEFFERSON PARISH (1985-2005) For over 20 years, Mr. Malbrough assisted Jefferson Parish with moving several shoreline protections, marsh creation, barrier island restoration, and outfall management projects through the CWPPRA process. He helped deliver 16 projects that benefited nearly 8,000 acres in the Barataria Basin.</p>		
<p>BAYOU BLACK PUMP STATIONS, TERREBONNE PARISH (2018-present) Mr. Malbrough is leading the planning, design, permitting, and construction of three pump stations along Bayou Black near Gibson, LA. The pump stations will realize a decades-old plan from the US Army Corps of Engineering to provide 3,000 CFS of pump capacity. Construction of the first pump station began in 2019.</p>		
<p>LA DEPT OF NATURAL RESOURCES COMPREHENSIVE BARRIER ISLAND STUDY: (1990-1994) Mr. Malbrough and his CEEC Team worked as a subcontractor to T. Baker Smith and Sons for the LA-DNR to conduct a Comprehensive Barrier Island Study for the Louisiana Coast from the Mississippi River to the Atchafalaya River.</p>		
<p>SOUTH TERREBONNE TIDEWATER AND CONSERVATION DISTRICT (STTMCD): (2007, 2014) In the early 1990's Mr. Malbrough and his team were the Principal Lead for the Local Sponsors, STTMCD and LADOTD in a USACE Feasibility Study for the Morganza to the Gulf, which was eventually authorized in 2007 and again in 2014.</p>		

PROFESSIONAL IN CHARGE OF PROJECT:	
Name & Title:	
Ben Malbrough, PE - Vice President	
Project Assignment:	
Principal in Charge	
Name of Firm with which associated:	
GIS Engineering, LLC	
Years' experience with this Firm:	
With this firm: <u>1</u> With other firms: <u>19</u>	
Education: Degree(s) / Year / Specialization:	
Bachelors of Science / 2004 / Civil Engineering	
Masters of Science / 2009 / Civil Engineering	
Active registration: Year first registered / discipline:	
Year first registered: <u>2009</u> Branch: <u>Civil Engineer</u> LA License No. <u>34319</u>	
Other experience and qualifications relevant to the proposed Project:	
<p>Mr. Malbrough is a professional engineer registered in Louisiana with almost 20 years of engineering experience with a focus on water resources, civil/structural, coastal, and flood protection projects. He has played a wide range of roles through this time including project engineer, project manager, and program manager. Over the last 10.5 years, Mr. Malbrough has been heavily involved in the development and implementation of multiple major water management projects including pump stations, water control structures, conveyance channel improvements, and drainage structure upgrades. His diverse background as an engineer coupled with his extensive experience as the executive of a political subdivision, make Mr. Malbrough an asset to any Public Works project.</p> <p>EXECUTIVE DIRECTOR, BAYOU LAFOURCHE FRESH WATER DISTRICT, Thibodaux, LA (2013-2023) As Executive Director of the Bayou Lafourche Fresh Water District (District), Mr. Malbrough's responsibilities were to oversee all operations and administration of the District. In addition to the management of the District's daily operations, he was also responsible for working with local, state, and federal officials in order to secure funding for a capital improvements program estimated to be over \$200,000,000. In his role as Executive Director, he managed the implementation of over \$150,000,000 of this capital improvements program, which has included securing the funding, procurement and management of professional services (engineering, surveying, permitting, and construction management), procurement of construction contractor, and assist in the management of the construction contract until project completion. The centerpiece of this capital improvements program is the construction of a \$97,000,000 pump station facility on the bature of the Mississippi River in Donaldsonville, LA.</p> <p>PROJECT MANAGER, PORT OF IBERIA, Iberia Parish, LA (2010-2013) Mr. Malbrough managed the design for over \$10 million of construction projects for the Port. The projects included port expansion, bank line stabilization, maintenance dredging, regulatory compliance, and planning efforts. His tasks involved client coordination, regulatory coordination, design calculations, report preparation, and construction management.</p> <p>UPPER GRAND CAILLOU PUMPING STATION REPAIR, TERREBONNE PARISH CONSOLIDATED GOVERNMENT, Houma, LA (2010) Mr. Malbrough served as the project engineer overseeing large scale repairs to the existing Upper Grand Caillou pumping station. These repairs were to the existing foundation along with other components in its vicinity. His tasks were to assist in the design and complete cost estimates for the different alternative repair solutions.</p> <p>CITY OF GRAND ISLE PUMPING STATIONS, CITY OF GRAND ISLE, Grand Isle, LA, (2007-2008) Ten pump stations located throughout Grand Isle had to be reconstructed to meet current FEMA flood elevations requirements. In order to meet these requirements, all pump stations had to be designed according to FEMA guidelines. Mr. Malbrough's tasks were to complete the design and cost estimate for all pump stations, as well as coordinate with FEMA and the Town of Grand Isle to be sure all of their requirements were met.</p>	

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Kyle J Galloway, PE - Project Manager, Civil & Environmental Engineering	
Project Assignment:	
Project Manager	
Name of Firm with which associated:	
GIS Engineering, LLC	
Years' experience with this Firm:	
With this firm: <u>5</u> With other firms: <u>10</u>	
Education: Degree(s) / Year / Specialization:	
Bachelors of Science, Civil Engineering, Professional Leadership Minor, 2009 Masters Certificate, Coastal Engineering, 2013	
Active registration: Year first registered / discipline:	
Year first registered: <u>2015</u> Branch: <u>Civil</u> LA License No. <u>40317</u>	
Other experience and qualifications relevant to the proposed Project:	
<p>Mr. Galloway is a proven leader and manager with 13 years of experience in civil engineering and leadership of large, complex organizations. He possesses strong technical skills in coastal engineering, green infrastructure design, drainage design, storm water management, and hydrologic and hydraulic modeling. A 13-year veteran of the Louisiana Army National Guard, Mr. Galloway has a history of success leading large organizations, including command of a company of over 150 equipment operators, maintenance technicians, and support staff. For the last four years, he has managed diverse civil engineering and consulting projects, leading multi-disciplinary teams to deliver value to clients.</p> <p>BAYSIDE SEGMENTED BREAKWATERS PHASE IV - Grand Isle, LA (2020) Mr. Galloway was the Project Manager responsible for construction management of this \$6.5M project, which added 15 staggered breakwaters on the bay side of Grand Isle. Mr. Galloway managed bidding, contracting, construction reporting, reviewing pay applications, and project closeout.</p> <p>BREAKWATER PROTECTION PROJECT (CHENIERE-CAMINADA TO BAYOU THUNDER) – Grand Isle, LA (ongoing) Mr. Galloway is the Project Manager and Engineer of Record for this \$30M proposed breakwater and rock dike project. He managed the preliminary design of all project elements in 2019, and he delivered a final design for rock dikes on the north bank of Bayou Thunder in April 2020. He is currently managing the preparation of permit applications and a cultural resources survey.</p> <p>LANDRY'S HOLE AND CYPRESS LANE PUMP STATIONS – Grand Isle, LA (ongoing) Mr. Galloway oversaw the design of expansions to two existing pump stations in Grand Isle, LA. The project will add two 24" pumps with electric motors and diesel back-ups to each existing pump station. Mr. Galloway managed the survey and design of each station.</p> <p>JONES POINT – LA 301 DRAINAGE IMPROVEMENTS – Lafitte Area Independent Levee District, LA (2020-Ongoing) Mr. Galloway is managing the design of drainage improvements in the Jones Point area near the Town of Jean Lafitte. The project involves extensive coordination among several consultants working to deliver flood risk reduction from storm surges and rainfall. GIS completed the preliminary design of subsurface drainage improvements (including HydroCAD modeling) in November 2020 and is beginning work on final design.</p> <p>UPPER BARATARIA RISK REDUCTION SYSTEM – Lafourche & St. Charles Parish, LA (2018-Ongoing) Mr. Galloway is the Project Manager for GIS's design efforts on this project. In 2018, he oversaw the preparation of the 10% conceptual design report for the project, which defined the project features and alignments and estimated the project costs. In 2019, he oversaw the preliminary design of T-walls and a roller gate within the project along with a drone survey of 11 miles of levees in the project alignment. He is currently overseeing the design of a 270' wide barge gate and a \$3.5M levee lift.</p>	

LA-16 - NON-ROCK ALTERNATIVES TO SHORELINE PROTECTION DEMONSTRATION PROJECT (CWPPRA) – Iberia Parish, LA (2014-2015)

Mr. Galloway performed coastal engineering design including development of construction drawings, specifications, and project reporting for a pile-mounted wave attenuation reef system in Vermilion Bay. He provided coastal modeling of wave climate, loading, and attenuation using CEDAS/ACES modeling software, assisted the owner of the proprietary product with design, and produced construction drawings and specifications for the project.

ST. ROCH DRAINAGE IMPROVEMENTS AND GREEN INFRASTRUCTURE – New Orleans, LA (2015-2017)

Mr. Galloway oversaw the design of rain gardens, permeable parking lanes, and permeable sidewalks, including streetscaping details, cross-sections, and planting plans. He also assisted with modeling the existing and proposed drainage network using EPA's Storm Water Management Model to inform design and FEMA's Benefit Cost Analysis.

HAGAN-LAFITTE DRAINAGE UPGRADES AND GREEN INFRASTRUCTURE – New Orleans, LA (2015-2017)

Mr. Galloway oversaw the design of street corner rain gardens and pervious sidewalks, including streetscaping details, cross-sections, and planting plans. He also assisted with modeling the existing and proposed drainage network using EPA's Storm Water Management Model to inform design and FEMA's Benefit Cost Analysis.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Christopher Jeanice, PE – Civil Engineer	
Project Assignment:	
Coastal Engineering Lead	
Name of Firm with which associated:	
GIS Engineering, LLC	
Years' experience with this Firm:	
With this firm: <u>7</u> With other firms: <u>6</u>	
Education: Degree(s) / Year / Specialization:	
Masters of Science / 2016 / Civil Engineering Bachelors of Science / 2010 / Civil Engineering	
Active registration: Year first registered / discipline:	
Year first registered: <u>2015</u> Branch: <u>Civil</u> LA License No. <u>PE 39647</u>	
Other experience and qualifications relevant to the proposed Project:	
<p>Mr. Jeanice is a professional engineer registered in Louisiana, with over 10 years of engineering experience in civil and flood protection projects, which includes project management, construction administration, engineering and design, design reports, and developing operation and maintenance plans. The majority of this experience has come from working with Terrebonne Parish Consolidated Government and Terrebonne Levee & Conservation District on flood protection projects. He obtained his Professional Engineering License in January 2015.</p> <p>EMERGENCY REHABILITATION OF BEACH LEVEE REPAIR – Grand Isle, LA (2016) Mr. Jeanice was the project manager for this important emergency project for the section of Grand Isle and Vicinity beach levee Project Sta. 23+50 TO 29+00. He provided necessary coordination and documentation in regards to the request for quotes from contractors. Upon receipt of quotes, assist owner in evaluation and recommendation of award. He provide oversaw the engineering during construction, and project management for the duration of the installation work, this includes but not limited to providing daily reports, reviewing contractor's pay applications, and provide construction as-builts for the completed repair work.</p> <p>BAYOU BLACK PUMP STATIONS - Gibson, LA (2018-2020) Mr. Jeanice is the project manager for three pump stations along Bayou Black near Gibson, LA. The pump stations will realize a decades-old plan from the US Army Corps of Engineering to provide 3,000 CFS of pump capacity. Construction of the first pump station began in 2019. Mr. Jeanice is currently managing the bid process for the second pump station and permitting efforts for the third.</p> <p>PETIT CAILLOU LOCK STRUCTURE – Chauvin, LA (2019-2020) Mr. Jeanice performed project management duties consisting of developing original construction estimate and engineering fee proposal, coordinating project design components, leading project team meetings, managing project budget, coordinating with client, coordinating with engineering subs, and project scheduling for the design of a braced floodwall system with miter gates.</p> <p>UPPER REACH F LEVEE ALIGNMENT PROJECT – Terrebonne Parish, LA (2014-2015) Mr. Jeanice performed construction and project management duties for the Upper Reach F levee alignment project consisting of review of pay applications, submittals and RFI's, conduct progress meeting between contractor and owner, perform site visits, review and monitor all required field testing, and manage project budget.</p> <p>DEEPWATER HORIZON OIL SPILL ROCK/BARGE PLAN – Grand Isle, LA (2010) In the effort to fight the oil spill, barges and rigid pipe boom were designed and placed in specific locations to catch incoming oil. As Field Engineer/Inspector, Mr. Jeanice helped coordinate with tug captains and survey crews where to place barges. He also assembled daily reports along with pictures and videos.</p>	

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:				
Name & Title:				
Agustin Rega, PE – Civil Engineer				
Project Assignment:				
Coastal Engineer				
Name of Firm with which associated:				
GIS Engineering, LLC				
Years' experience with this Firm:				
With this firm: <u>5</u> With other firms: <u>6</u>				
Education: Degree(s) / Year / Specialization:				
Masters of Science / 2018 / Civil Engineering				
Bachelors of Science / 2012 / Civil Engineering				
Active registration: Year first registered / discipline:				
Year first registered: <u>2017</u> Branch: <u>Civil</u> LA License No. <u>PE 42227</u>				
Other experience and qualifications relevant to the proposed Project:				
<p>Mr. Rega is a Civil Engineer with more than ten years of experience specializing in Civil & Coastal Engineering. His project experience includes sizing drainage projects using HEC-RAS and HydroCAD models, civil site design, drainage pump stations, sewer lift stations, and coastal protection and restoration projects.</p> <p>BAYSIDE SEGMENTED BREAKWATERS PHASE IV - Grand Isle, LA (2020) Mr. Rega was the Engineer of Record for this \$6.5M project, which added 15 staggered breakwaters on the bay side of Grand Isle. Mr. Rega finalized the design and led the day-to-day management of bidding, contracting, construction reporting, reviewing pay applications, and project closeout.</p> <p>BREAKWATER PROTECTION PROJECT (CHENIERE-CAMINADA TO BAYOU THUNDER) – Grand Isle, LA (ongoing) Mr. Rega assists the Project Manager with this \$30M proposed breakwater and rock dike project. The team completed preliminary design of all project elements in 2019, final design for rock dikes on the north bank of Bayou Thunder in April 2020, and is currently coordinating with permitting agencies to secure environmental permits.</p> <p>LANDRY'S HOLE AND CYPRESS LANE PUMP STATIONS – Grand Isle, LA (2020) Mr. Rega is the engineer of record for expansions to two existing pump stations in Grand Isle, LA. The project will add two 24" pumps with electric motors and diesel back-ups to each existing pump station. Mr. Rega performed the civil and hydraulic design, managed structural design, and completed and stamped plans and specifications.</p> <p>JONES POINT – LA 301 DRAINAGE IMPROVEMENTS – Lafitte Area Independent Levee District, LA (2020-Ongoing) Mr. Rega is performing the design of drainage improvements in the Jones Point area near the Town of Jean Lafitte. The project involves extensive coordination among several consultants working to deliver flood risk reduction from storm surges and rainfall. GIS completed the preliminary design of subsurface drainage improvements in November 2020 and is beginning work on final design.</p> <p>MOUNES STREET DRAINAGE IMPROVEMENTS – Jefferson Parish, LA (2017-2018) Mr. Rega was fully involved in the design of 4,800 feet of subsurface drainage lines under Mounes St. in Jefferson Parish. His design included the sizing of the box culverts, catch basin and manhole locations, box culvert foundation, existing utilities coordination and relocations, roadway restoration design, and roadway striping details.</p> <p>ST. PETER'S DITCH PHASE 3C – Jefferson Parish, LA (2014-2017) Ms. Alvarez assisted in the preliminary, design and final phases for this project. During design phase, she assisted with geotechnical data review, development of preliminary and final calculations for cost and bid purposes. During the construction phase, she performed several construction and admin duties.</p>				

ELISE AVENUE DRAINAGE PUMP STATION AND SUBSURFACE DRAINAGE IMPROVEMENTS – Jefferson Parish, LA (2015-2017)

Mr. Rega was fully involved in the design of a new 140 cfs drainage pump station and the design of approximately 2000 feet of subsurface drainage lines on Elise Ave. His responsibilities included hydrologic & hydraulic modeling, subsurface drain line sizing and detailing, roadway restoration, sump design, and structural design support. Mr. Rega managed the project during construction and provided engineering support until completion.

CLEARVIEW DRAINAGE PUMP STATION - ST. PETER'S DITCH PHASE 4 – Jefferson Parish, LA (2016-2018)

Mr. Rega was actively involved in the design of the 240 cfs drainage pump station. His responsibilities included the design of gravity drainage lines, station sump, discharge line, and roadway drainage and restoration. He managed the project during construction and provided engineering support until completion.

GOOSE BAYOU BASIN DRAINAGE PUMP STATION NO. 2 – Jefferson Parish, LA (2017-2018)

Mr. Rega was fully involved in the design of the 70 cfs drainage pump station for the Goose Bayou basin. He performed a hydraulic and hydrologic study and selected the station location and capacity. During the design phase, his responsibilities included the sump design, access road design, civil infrastructure upgrades, and discharge line design. Mr. Rega managed the design phase coordinating with the electrical and structural sub-contractors.

DAVID DRIVE & YORK STREET SEWER LIFT STATION – Jefferson Parish, LA (2017-2018)

Mr. Rega was fully involved in the design of a new 1,800 gpm capacity sewer lift station. He performed a study and report to determine the lift station location and required capacity. His involvement included performing all hydraulic calculations, deep foundation design, Department of Health permit application, and continued coordination with the electrical engineer.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:				
Name & Title:				
John Plaisance, PE, PLS – Director of Operations				
Project Assignment:				
QA/QC				
Name of Firm with which associated:				
GIS Engineering, LLC				
Years' experience with this Firm:				
With this firm: <u>4</u> With other firms: <u>33</u>				
Education: Degree(s) / Year / Specialization:				
Masters of Science / 1985 / Civil Engineering Bachelors of Science / 1983 / Civil Engineering				
Active registration: Year first registered / discipline:				
Year first registered:	1988	Branch: Civil	LA License No.	PE 24038
	1992		Survey	PLS 4669
Other experience and qualifications relevant to the proposed Project:				
<p>Mr. Plaisance is the Director of Operations of GIS Engineering - Galliano and is in charge of all day to day operations of the branch. He is a Louisiana Registered Civil Engineer and a Licensed Land Surveyor. Mr. Plaisance has provided surveying and utility improvements such as water lines, booster stations, and sewer systems; drainage improvements such as pump stations, flood walls, and piping; roadway improvements, topographic surveys, and ROW mapping.</p> <p>GRAND ISLE STATE PARK MAIN WATER LINE REPLACEMENT– Grand Isle, LA (01/2017) Mr. Plaisance served as the Project Engineer on the replacement of the water lines throughout Grand Isle State Park in Jefferson Parish, LA. Mr. Plaisance was responsible for the design of all elements of this project including survey.</p> <p>LAFOURCHE PARISH WATER DISTRICT NO. 1, MULTIPLE WATER LINES – Lafourche Parish, LA (Ongoing) Mr. Plaisance served as Survey Lead and Project Engineer for multiple water line projects in Lafourche Parish. He designed and prepared plans for multiple water line projects for the Lafourche Parish Water District No. 1. He has prepared construction plans for multiple large diameter transmission water lines as well as multiple distribution water lines. Mr. Plaisance was responsible for the design of all elements of this project including survey and ROW mapping.</p> <p>LATOUR SUBDIVISION, PHASE 1 – Matthews, LA (06/2009) Mr. Plaisance was the Survey Lead and Project Engineer for the development of a 48-lot subdivision (Phase 1 of over 500 lots) which included concrete streets, underground drainage, and utilities. Mr. Plaisance prepared all survey, plats and ROW mapping for the project.</p> <p>TOWN OF GOLDEN MEADOW PHASE 4 AND PHASE 5 SEWER PROJECT – Golden Meadow, LA (06/2018 – 06/2019) Mr. Plaisance served as the Survey Lead and Project Engineer for the Town of Golden Meadow to design and provide construction documents for multiple sewer projects. He prepared construction plans for multiple phases of sewer construction projects including Sanitary Sewer System, Phase 4 and Sanitary Sewer System, Phase 5. Mr. Plaisance was responsible for the design of all elements of this project including survey and ROW mapping.</p> <p>TRIPLE RIDGE SUBDIVISION – Cut Off, LA (07/2015) Mr. Plaisance was the Survey Lead and Project Engineer for the development of a 62 lot subdivision which included concrete streets, underground drainage, and utilities. Mr. Plaisance worked on all survey, plats and ROW mapping for the project.</p> <p>MARINER'S COVE – Maurepas, LA (06/2019) Mr. Plaisance was responsible for the preparation and review of ROW and final plats in accordance with Livingston Parish requirements for the residential development.</p>				

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:				
Name & Title:				
Troy Jeanfreau, PE – Civil Engineer				
Project Assignment:				
Civil/Quality Engineer				
Name of Firm with which associated:				
GIS Engineering, LLC				
Years' experience with this Firm:				
With this firm: <u> 2 </u> With other firms: <u> 28 </u>				
Education: Degree(s) / Year / Specialization:				
Bachelors of Science / 2008 / Civil Engineering				
Active registration: Year first registered / discipline:				
Year first registered: <u> 1999 </u> Branch: <u>Civil</u> LA License No. <u> PE 28248 </u>				
Other experience and qualifications relevant to the proposed Project:				
<p>Mr. Jeanfreau is a professional Civil Engineer, licensed throughout the Gulf Coast. His 30+ years of experience includes project management and design work in roadways, drainage, sewer, earthen levees, floodwalls, floodgates, and pump stations. He has performed multiple engineering projects for public and private clients on the local, state, and federal level. He has also served on the program management side with both Municipal and Federal clients, providing oversight of projects designed by other consultants, providing design reviews and coordination between the consultant and the multiple other agencies involved. Additionally, He currently serves as Senior Civil Engineer and Quality Manager in the Coastal/Infrastructure Group for GIS Engineering.</p> <p>JEFFERSON PARISH WESTBANK PROGRAM MANAGEMENT, 2017 ROAD BOND PROGRAM - Department of Public Works, Jefferson Parish, La Assisted with the implementation of the West Bank projects for Jefferson Parish's \$190M 2017 Road Bond Improvement Program, which includes 70 roadway and bridge projects throughout Jefferson Parish. Responsible for the oversight of approximately 15-20 projects, including overseeing the design consultants' work, and coordinating reviews with various Parish departments, public and private utility companies, and other impacted agencies. Other responsibilities included review of plans and specifications submittals, scheduling, coordination for environmental clearances, right-of-way acquisition support, and construction oversight.</p> <p>MID-BARATARIA DIVERSION DESIGN - Coastal Protection and Restoration Authority (CPRA), Plaquemines Parish, La Planning, engineering, and design services for the creation of the Mid-Barataria sediment diversion basin to strategically reintroduce sediment and freshwater inputs into the Barataria Basin. Responsible for directing quality assurance reviews for roadway and bridge design efforts.</p> <p>PERMANENT CANAL CLOSURES AND PUMPS PROJECT (PCCP) - USACE, New Orleans District, New Orleans, La Assisted with the design of all civil components of the three stations, include site layout of buildings, structures, pavement, utilities, and canal dredging, as well as local coordination with various utilities such as S&WB and Entergy. Also served as the Designer of Record for several preliminary construction packages. The project consists of the design of three main drainage outfall canals in the City of New Orleans. These canals are a critical element of the flood control system, serving as drainage conduits for much of the city. This project provides a long-term solution for reducing risk from a 100-year storm event.</p> <p>TRINITY RIVER FLOODWAY SYSTEM - City of Dallas, Dallas, Tx Served as the civil task leader for the project working for the City of Dallas in conjunction with the USACE, FEMA, environmental agencies and other partners to identify and address all issues to maintain levee certification of more than 26 miles of levees along Trinity River and developing construction mitigation measures to be able to certify the levees against a 100-year storm event and meet FEMA Standards. Charged with preparing Plans & Specifications for the construction projects recommended by the hydraulic and geotechnical assessments of the levee system to correct any deficiencies.</p>				

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Kevan Keiser, PE – Civil Engineer
Project Assignment:
Coastal Engineer
Name of Firm with which associated:
GIS Engineering, LLC
Years' experience with this Firm:
With this firm: <u>1</u> With other firms: <u>13</u>
Education: Degree(s) / Year / Specialization:
Bachelors of Science / 2008 / Civil Engineering
Active registration: Year first registered / discipline:
Year first registered: <u>2012</u> Branch: <u>Civil</u> LA License No. <u>PE 37243</u>
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Keiser is a registered Professional Engineer with over 13 years of experience in the Engineering and Construction Management field. He has significant experience in working on flood control, levee, and freshwater introduction projects in Terrebonne and Lafourche Parish. He has significant experience in working in airport related projects in Terrebonne and Lafourche Parish. He has experience in roadwork projects in Terrebonne, St. Mary, and St. James Parish as well as in the Town of Grand Isle. Mr. Keiser also has some experience in utility relocation projects in Terrebonne and Lafourche Parish. He has managed projects and prepared plans and specifications for many public works projects that include topographic surveys, feasibility studies, design, planning, scheduling, report preparation, and supervision of personnel.</p> <p>BAYOU TERREBONNE DRAINAGE PROJECT – Terrebonne Parish, LA (2018-Ongoing) Terrebonne Parish intends to construct a pump station and water control structures to decrease flood surface elevations in Bayou Terrebonne. Mr. Keiser is managing the design of proposed levees and control structures as part of this watershed management project.</p> <p>BAYOU TERREBONNE DREDGING PROJECT – Terrebonne Parish, LA (2020-Ongoing) Mr. Keiser is managing the design of proposed dredging and weir modifications in Bayou Terrebonne. He is currently coordinating surveying and modeling efforts to determine the proposed dredge cross-sections and any required modifications to existing weirs. The project involves intense study of existing conditions and stakeholder coordination due to several bridge and utility crossings and narrow rights of way.</p> <p>FALGOUT CANAL FRESHWATER ENHANCEMENT – Terrebonne Parish, LA (2010 - 2012) The purpose of this job was to reestablish flow of freshwater from HNC in the adjacent westerly marshes in order to reduce salinity. This was accomplished by the spray dredging of bayous/canals and reconstruction/rehab of 6 timber water control structures. Mr. Keiser served as the Design Engineer for this job and was responsible for designing the dredging and reconfiguration of control structures</p> <p>BONANZA PUMP STATION REHABILITATION – Terrebonne Parish, LA (2017 – 2018) Using the Hazard Mitigation Grant Program (HMGP) funding, we prepared hydraulic models and inundation maps to predict future damages in order to prove the necessity for the improvements to Bonanza Pump Station. The design features include removal of failing timber bulkheads, design of steel bulkhead with batter piles, check valves, levee rehab, fence construction, site grading and drainage, asphalt road patching. Mr. Keiser worked as the Project Manager/Engineer of Record/Design Engineer responsible for TBS project design, execution, and construction management.</p> <p>EASTSIDE DRAINAGE IMPROVEMENTS PROJECT – Lafourche Parish, LA (2019 – 2020) Cut Off, LA is experiencing flooding inside of the forced drainage system along the 20 arpent canal. This project involved designing the excavation of the 20 arpent canals, 3 lateral ditches, removal/replacement of bridges with culverts and in phase 2, and additional pump station (phase 2 has yet to begin). Mr. Keiser provided QA/QC of design documents and project management oversight.</p>

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Travis Byland, PE – Civil Engineer
Project Assignment:
Coastal Engineer
Name of Firm with which associated:
GIS Engineering, LLC
Years' experience with this Firm:
With this firm: <u> 1 </u> With other firms: <u> 14 </u>
Education: Degree(s) / Year / Specialization:
Bachelors of Science / 2008 / Civil Engineering
Active registration: Year first registered / discipline:
Year first registered: <u> 2013 </u> Branch: <u> Civil </u> LA License No. <u> PE 38054 </u>
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Byland has designed and managed multiple water resource, flood protection, and wetland restoration projects in State Government for over 10 years, including River Reintroduction into the Maurepas Swamp, West Shore Lake Pontchartrain Flood Risk Reduction Project, and Grand Isle Flood Risk Reduction. He is currently assisting with multiple water resource projects including the Upper Terrebonne Basin Watershed Plan and Environmental Assessment (EA) and Pointe Coupee Portage Canal Drainage Improvements.</p> <p>RIVER REINTRODUCTION INTO MAUREPAS SWAMP (MAUREPAS DIVERSION) - Louisiana Coastal Protection and Restoration Authority (CPRA) Mr. Byland served as Project Manager for the Maurepas Diversion Project. This project will connect the Maurepas Swamp with the Mississippi River by creating an outfall channel from the Mississippi River to the Maurepas Swamp in St. John the Baptist Parish. This project requires clearing, grubbing, and dredging of existing waterways to facilitate the flow of water into the swamp. Included in the management of this project was coordination with multiple stakeholders, LA DOTD, railroads, and utility operators.</p> <p>WEST SHORE LAKE PONTCHARTRAIN FLOOD RISK REDUCTION PROJECT - US Army Corps of Engineers, CPRA, and Pontchartrain Levee District Mr. Byland served as the Sr. Project Manager for the Non-Federal Sponsors (CPRA and PLD) during the design and early phases of construction for this project. This project consists of 18.5 miles of levee to provide 100-year flood protection to the residents of St. Charles, St. John, and St. James Parishes. The Non-Federal Sponsors were responsible for all land acquisition, relocations (pipelines, utilities, roads, and railroads) required to construct this project. Additionally, Mr. Byland led the design review teams for the Non-Federal Sponsors, which included oversight of data collection, geotechnical engineering/design, hydraulic and hydrologic analysis for pump station capacity, and provided recommendation to local governments for integration of projects with the West Shore project.</p> <p>GRAND ISLE AND VICINITY - US Army Corps of Engineers, CPRA, and Town of Grand Isle Mr. Byland served as Sr. Project Manager for the Non-Federal Sponsor (CPRA) during the design and construction of multiple project features within the Grand Isle and Vicinity project area. These projects included installation of rock breakwaters, emergency dune/levee repairs, beach and dune nourishment with dredged material, and analysis of proposed project alternatives. This project involved coordination, data review, technical analysis, and funds management on behalf of the Non-Federal Sponsor, Town of Grand Isle, Jefferson Parish, and other stakeholders in the Project Area.</p>

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Mariann Alvarez, EI – Civil Engineer	
Project Assignment:	
Coastal Engineer	
Name of Firm with which associated:	
GIS Engineering, LLC	
Years' experience with this Firm:	
With this firm: <u>5</u> With other firms: <u>3</u>	
Education: Degree(s) / Year / Specialization:	
Bachelor of Science / 2012 / Civil Engineering	
Active registration: Year first registered / discipline:	
Year first registered: <u>2015</u> Branch: <u>Civil - EI</u> LA License No. <u>32647</u>	
Other experience and qualifications relevant to the proposed Project:	
<p>Ms. Alvarez is an engineer intern with eight years of engineering experience in civil and flood protection projects, which include engineering and design, development of engineering calculations and design reports, development of technical and project specifications, and performance of detailed engineering cost estimates, and developing operation and maintenance plans. Ms. Alvarez also has experience in levee design, specifically on the performance of slope stability analyses, facilitated by the Slope/W computer program. The majority of this experience has come from working with Terrebonne Parish Consolidated Government and Terrebonne Levee & Conservation District on flood protection, mostly levee, projects.</p> <p>INTEGRATED FEASIBILITY REPORT AND ENVIRONMENTAL IMPACT STATEMENT (IFR-EIS) FOR IMPROVEMENTS TO THE FEDERAL NAVIGATION CHANNEL AT PORT FOURCHON – Greater Lafourche Port Commission, LA (2016-2020)</p> <p>Ms. Alvarez worked extensively on the development of this IFR-EIS, specifically on the engineering portions of the project, which included development of channel dredging quantities for each alternative being considered in the IFR-EIS, cost estimates and schedules for both initial construction and maintenance, preliminary design drawings for the selected alternative, among other tasks. Ms. Alvarez also assisted in the writing and development of the engineering appendix for the final feasibility report.</p> <p>HNC DEEPENING PROJECT – UTILITY RELOCATION AND REAL ESTATE COORDINATION FOR CONSTRUCTION CONTRACT #1 – Terrebonne Port Commission (2021-2022)</p> <p>Ms. Alvarez is currently serving as the Project Manager for this project, overseeing her team on tasks required for the utility relocation and real estate project scopes in relation to the HNC Deepening Construction Contract #1 (MM 12 to MM -3.7). Some of these tasks include coordination with pipeline companies, validation of data and other information included in the USACE's Section 203 Feasibility Study report, assisting pipeline companies in the development of construction drawings, development of project maps as needed, including real estate maps (property lines, disposal areas, oyster leases, etc.). Ms. Alvarez is also performing typical PM tasks including overview of budget, project team utilization, schedule and invoices.</p> <p>UPPER TERREBONNE BASIN ENVIRONMENTAL ASSESSMENT – Upper Delta Soil & Water Conservation District, LA (2020-2021)</p> <p>Ms. Alvarez worked extensively on the development of a watershed plan and Environmental Assessment for the Upper Terrebonne Basin. The report examines different courses of actions for watershed management, makes recommendations, and satisfies NEPA requirements for environmental review.</p> <p>WARD 7 LEVEE IMPROVEMENT PROJECT - Chauvin, LA</p> <p>Ms. Alvarez assisted in the design, design reports and project specifications for Ward 7 Levee projects. During the construction phase, she provided assistance to the project manager on several construction admin duties, such as review of pay applications, submittals and RFIs, preparation of support material for progress meetings between contractor and owner. Ms. Alvarez also assisted in construction and admin tasks as well as some project management duties.</p>	

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Mohan Menon, PhD, PG, PMP – Director of Environmental	
Project Assignment:	
Environmental Lead	
Name of Firm with which associated:	
GIS Engineering, LLC	
Years' experience with this Firm:	
With this firm: <u>7</u> With other firms: <u>27</u>	
Education: Degree(s) / Year / Specialization:	
PhD / 1993 / Environmental Geoscience	
Master of Philosophy / 1988 / Environmental Science	
Master of Science / 1984 / Geology	
Bachelor of Science / 1982 / Geology	
Active registration: Year first registered / discipline:	
Year first registered: <u>2018</u> Branch: <u>PG</u> LA License No. <u>1217</u>	
Other experience and qualifications relevant to the proposed Project:	
<p>Dr. Menon has over 30 years of natural resources, permitting & compliance, (including NEPA practice) and project management experience. Dr. Menon is a certified Project Management Professional (PMP) and Wetland Delineator. He has extensive technical experience with ecosystem restoration and protection projects including planning support, policy/strategy analysis, stakeholder program/public outreach technical reviews and technical presentations.</p> <p>INTEGRATED FEASIBILITY REPORT AND ENVIRONMENTAL IMPACT STATEMENT (IFR-EIS) FOR IMPROVEMENTS TO THE FEDERAL NAVIGATION CHANNEL AT PORT FOURCHON – Greater Lafourche Port Commission, LA (2016-2020) Dr. Menon was the NEPA Lead for the Draft and Final EISs and engaged with environmental agencies and other stakeholders. The IFR-EIS report determined the feasibility of deepening and widening the channel and construction of a turning basin at Port Fourchon in order to accommodate the most modern vessels used in the Gulf of Mexico deep water oil and gas industry and to allow for passage of deeper draft vessels to the Port. Opportunities exist to increase the efficiency of existing operations by providing deeper and wider channels, allowing larger oilfield service and supply vessels access to Port Fourchon. The report identified proposed improvements to the existing Federal navigation project at Port Fourchon that best meet the economic, environmental, physical and social needs of the region and the nation.</p> <p>UPPER TERREBONNE BASIN ENVIRONMENTAL ASSESSMENT – Upper Delta Soil & Water Conservation District, LA (2020-2021) Dr. Menon led the development of a watershed plan and Environmental Assessment for the Upper Terrebonne Basin. The report examines different courses of actions for watershed management, makes recommendations, and satisfies NEPA requirements for environmental review.</p> <p>ATCHAFALAYA RIVER LONG DISTANCE SEDIMENT PIPELINE (LDSP) FEASIBILITY STUDY – PHASE I - Terrebonne Parish, LA Dr. Menon managed the Feasibility Study for extensive project footprint of 40 Miles of pipeline to convey over 50 million cubic yards of sediments from Atchafalaya River to Terrebonne Parish</p> <p>LOUISIANA COMPREHENSIVE MASTER PLAN FOR A SUSTAINABLE COAST - Statewide, LA Dr. Menon managed the project in developing a \$50 Billion comprehensive strategy (Louisiana Coastal Protection and Restoration Master Plan 2007) addressing the protection and restoration of the coastal area. He worked closely with Federal, state, and local agencies and political entities, and led a team of 75-80 to assist State of Louisiana.</p> <p>COAST-WIDE REFERENCE MONITORING SYSTEM (CRMS)---WETLANDS (LDNR/CPRA) - Statewide, LA Dr. Menon directed a \$13 million, three-year program to establish approximately 320 sampling stations along the Louisiana coastal zone working with both LDNR and CPRA. He led the development and implementation of QA/QC protocols, and employed a highly effective health and safety program for field intensive tasks.</p>	

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Jeff Hargis, Environmental Scientist
Project Assignment:
Environmental Scientist
Name of Firm with which associated:
GIS Engineering, LLC
Years' experience with this Firm:
With this firm: <u>3</u> With other firms: <u>24</u>
Education: Degree(s) / Year / Specialization:
Bachelors of Science / 1998 / Civil Engineering
Active registration: Year first registered / discipline:
Year first registered: <u>N/A</u> Branch: <u>N/A</u> MS License No. <u>N/A</u>
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Hargis has 24 years of experience in land surveying field operations, project management, and regulatory permitting, for projects within both municipal and private sectors. He has managed survey and environmental projects for both national and multi-national oil and gas clients in the upstream and midstream business units, including new pipelines, highway crossings, and asset retirement and abandonment. He has also served in a permitting role for municipal projects that include flood protection and drainage improvements.</p> <p>BAYOU LACARPE PUMP STATION & DRAINAGE IMPROVEMENTS, Terrebonne Parish, LA Mr. Hargis is the permitting specialist responsible for production of permit drawings, application preparation, agency coordination, etc. The proposed Bayou LaCarpe Pump Station is a high-priority project for the leaders and residents of Terrebonne Parish. This pump station will serve an area that experiences flooding of streets, homes, and businesses after high intensity rain events.</p> <p>MONTZ PUMP STATIONS, St. Charles Parish, LA Mr. Hargis is the permitting specialist responsible for production of permit drawings, application preparation, agency coordination, etc. The Montz area of St. Charles Parish has been an area of concern for the leadership of St. Charles Parish. The area has experienced frequent flood events that have led to damage to infrastructure, homes, and area businesses. Compounding the drainage challenges have been the many sub-basins that are in close proximity to one another and the many encumbrances that are present. Bound by the levees of the Mississippi River, a guide levee of the Bonnet Carre Spillway, and the roadway base of Highway-61, the drainage plan is complicated by the presence of two different railroad beds and an outfall to Lake Pontchartrain that is more than 3 miles in length. Future regional flood protection plans include an additional levee system that will present additional drainage challenges. The goal of this project is to provide two additional pump stations that can pump water over the guide levee and into the Bonnet Carre Spillway. This plan has taken a great deal of effort by St. Charles Parish leadership and cooperation by the U.S. Army Corps of Engineers.</p> <p>BAYOU TERREBONNE MAINTENANCE DREDGING, Terrebonne Parish, LA Mr. Hargis is the permitting specialist responsible for production of permit drawings, application preparation, agency coordination, etc. The proposed maintenance dredging of Bayou Terrebonne is a local project to restore and improve the conveyance of water in Bayou Terrebonne. The northern portion of Bayou Terrebonne is a fundamental component to the forced drainage system in Terrebonne Parish. Over the years, the bayou channel has become constricted and currently experiences reduced flow from both floating vegetation and from banks that have slumped into the channel. This project aims to restore the channel and improve flow.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Joseph Chauvin – Construction Manager	
Project Assignment:	
Field Services	
Name of Firm with which associated:	
GIS Engineering, LLC	
Years' experience with this Firm:	
With this firm: <u>5</u> With other firms: <u>12</u>	
Education: Degree(s) / Year / Specialization:	
High School Diploma / 1998 / Grand Isle High School	
Active registration: Year first registered / discipline:	
Other experience and qualifications relevant to the proposed Project: CPRA Levee Inspection Certificate	
<p>Mr. Chauvin has excellent technical, analytical and communication skills demonstrated by 17 years of experience, with an impressive blend of technical expertise and people skills. He is committed to providing quality and consistent technical support and assisting Project Engineers on design and writing project specifications and the review of project drawing. Mr. Chauvin also serves as the client manager for Town of Grand Isle and Grand Isle Independent Levee District. In this capacity, he is intimately familiar with Grand Isle's needs for drainage and flood protection and works extensively with the Town and the Parish on multiple projects in Grand Isle. Mr. Chauvin has extensive hours working with GOHSEP and FEMA projects. He also has the abilities to perform as Survey Party Chief along with construction layout skills. He has the capabilities to perform hydrographic survey and the ability to operate a Total Station. He also serves as GIS Engineering "Safety Champ" for the Coastal Group.</p>	
<p>BAYSIDE SEGMENTED BREAKWATERS PHASE IV - Grand Isle, LA (2020) Mr. Chauvin managed GIS's field services during the construction of this \$6.5M project, which added 15 staggered breakwaters on the bay side of Grand Isle. Mr. Chauvin oversaw the project representatives assigned to the project and provided quality control reviews of construction documentation.</p>	
<p>ANNUAL BAYSIDE BREAKWATER SURVEY – Grand Isle, LA (Continuous) This project is located along the coastal area of Cheniere-Caminada to the east tip of Grand Isle. As the Survey Party Chief, Mr. Chauvin ensures all survey are performed and conducted in a safe manner. This annual survey consists of surveying 58 segmented breakwaters. The purpose of the survey is to capture yearly elevation before Hurricane to show loss of elevation or damage from hurricanes. This information is provided to CPRA, FEMA, and other State and federal agencies.</p>	
<p>ANNUAL GRAND ISLE NON-FEDERAL LEVEE SURVEY – Grand Isle, LA (Continuous) This project is located along the Reach 1 Levee Alignment along Cheniere-Caminada and Grand Isle. As the Survey Party Chief, Mr. Chauvin ensures all surveys are performed and conducted in a safe manner. This annual survey consists of surveying approximately 4.66 miles of levee alignment. The purpose of the survey is to capture yearly elevation before Hurricane to show loss of elevation or damage from hurricanes. This information is provided to CPRA, FEMA, and other State and federal agencies.</p>	
<p>EMERGENCY SURVEY OPERATIONS – Jefferson Parish, LA and Terrebonne Parish, LA (As Needed) Mr. Chauvin serves as Survey Party Chief during emergency situations such as hurricanes and high river backwater flood events. His knowledge, expertise and the ability to work under pressure during these emergency events is an asset to Clients and engineering staff to ensure that the best quality of survey data is collected.</p>	
<p>MORGANZA TO THE GULF OF MEXICO, REACH H, SEGMENT 2 FIRST LIFT LEVEE – Terrebonne Parish, LA Mr. Chauvin as the resident field representative and inspector to oversee construction of 3.35 miles of levee embankment to elevation +12.0' NAVD. (Compacted levee embankment). Dredging of material from borrow canal, the installation of the access channel, swale ditches, and plug sections along the levee alignment.</p>	

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Henry Schwartz, PLS – Director of Surveying
Project Assignment:
Surveying Lead
Name of Firm with which associated:
GIS Engineering, LLC
Years' experience with this Firm:
With this firm: <u>2</u> With other firms: <u>22</u>
Education: Degree(s) / Year / Specialization:
Bachelors of Science / 1997 / Civil Engineering Technology
Active registration: Year first registered / discipline:
Year first registered: <u>2003</u> Branch: <u>Surveying</u> LA License No. <u>4899</u>
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Schwartz is a Professional Licensed Surveyor in the State of Louisiana, who has performed surveys in support of multiple engineering infrastructure projects. Mr. Schwartz has also performed multiple hydrographic surveys in support of Levee Design and Construction, Wetland Mitigation projects and Coastal Restoration projects such as Reach F-1 Levee Terrebonne Parish, Marsh Island Lake Sand and Lake Tom Terracing project, Tiger Point, Cheniere AuTigre, Buras Boat Harbor, Point Chevreuil and Eloi Bay Living Shoreline breakwater projects. Mr. Schwartz has also provided surveying services in support of existing coastal monitoring and restoration, wetland mitigation, levee construction as well as professional land surveying and topographic surveying.</p> <p>FALGOUT CANAL FLOODGATE STRUCTURE (2017-2019) - Theriot, LA Mr. Schwartz was the professional land surveyor for this project responsible for providing post construction surveys, pre-construction surveys, construction layout and the final construction as-built</p> <p>BAYOU PETIT CAILLOU LOCK STRUCTURE PROJECT (2019-2020) - Chauvin, LA Mr. Schwartz was the professional land surveyor for this project responsible for providing post construction surveys, pre-construction surveys, construction layout and the final construction as-built</p> <p>DREDGING & MITIGATION OF SLIP D, GREATER LAFOURCHE PORT COMMISSION (2018) - Fourchon, LA Mr. Schwartz was the professional land surveyor for this project responsible for providing all engineering surveys to the client, Greater Lafourche Port Commission</p> <p>MAGNOLIA RIDGE PUMP STATION (2019) - St. Charles, LA Mr. Schwartz was the professional land surveyor responsible for the layout, material quantity progress surveys as well as As-Builts for this project</p> <p>ELLINGTON LEVEE (2018) - St. Charles, LA Mr. Schwartz was the professional land surveyor responsible for the layout, material quantity progress surveys as well as As-Builts for this project</p> <p>INNER HARBOR NAVIGATION CANAL (IHNC), USACE NEW ORLEANS DISTRICT (2008 – 2012) - New Orleans, LA Mr. Schwartz provided surveying and mapping services required for the design of the project. These surveys consisted of the Topographic survey of the Vulcan yard, the Hydrographic surveys of the MRGO, Michoud Slip, Bayou Bienvenue, GIWW and the Hydraulic Dredge Disposal Area.</p> <p>PORT OF IBERIA COMMERCIAL CHANNEL HYDROGRAPHIC SURVEY (ONGOING) - New Iberia, LA Mr. Schwartz was the professional land surveyor responsible for the channel survey of approximately 14 miles of existing channel, including utility and pipeline relocations.</p>

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Gregory J. Plaisance, PLS – Land Surveyor	
Project Assignment:	
Surveyor	
Name of Firm with which associated:	
GIS Engineering, LLC	
Years' experience with this Firm:	
With this firm: <u>3</u> With other firms: <u>4</u>	
Education: Degree(s) / Year / Specialization:	
Bachelors of Science / 2014 / Geomatics	
Active registration: Year first registered / discipline:	
Year first registered: <u>2019</u> Branch: <u>Surveying</u> LA License No. <u>5208</u>	
Other experience and qualifications relevant to the proposed Project:	
<p>Mr. Plaisance is a Louisiana Licensed Land Surveyor and currently serves as a party chief out of the Galliano office. Mr. Plaisance coordinates all information obtained from the field with drafting and design personnel within the office. He also performs survey calculations. He is also a drone pilot.</p> <p>GRAND ISLE STATE PARK IMPROVEMENTS – Grand Isle, LA (Ongoing) Mr. Plaisance serves as land surveyor performing topographic survey of existing conditions at Grand Isle State Park. Mr. Plaisance also drafted the topographic survey on AutoCAD Civil 3D to show existing conditions.</p> <p>CPRA-IDIQ-IDIQ ENGINEERING SERVICES - Grand Isle, LA (2019-Ongoing) Mr. Plaisance serves as the lead land surveyor for providing topographic, bathymetric, and magnetometer surveys necessary to design the project features at the Grand Isle State Park. He developed and prioritized topographic, bathymetric, and magnetometer survey plans to obtain sufficient data for finalizing the location of the proposed design features sufficient for design and construction.</p> <p>MINORS CANAL FLOODGATE STRUCTURE – Terrebonne Parish, LA (Ongoing) Mr. Plaisance serves as land surveyor performing hydrographic surveys of the existing conditions of Minors Canal and the Intracoastal Canal.</p> <p>MITIGATION DREDGING OF SLIP D, GREATER LAFOURCHE PORT COMMISSION - Fourchon, LA (2017-2018) Mr. Plaisance served as a party chief for this project. He was part of the surveying team that provided topographic and hydrographic surveys necessary to design the project features as part of the mitigation dredging work. He assisted in the survey plans to obtain sufficient data for finalizing the location of the proposed design features sufficient for design and construction.</p> <p>BARATARIA MARSH CREATION & RIDGE RESTORATION - Golden Meadow, LA (2018) Mr. Plaisance served as the lead field surveyor for providing topographic and bathymetric surveys necessary to design the project features in the marsh east of Golden Meadow. He developed and prioritized topographic and bathymetric survey plans to obtain sufficient data for finalizing the location of the proposed design features sufficient for design and construction. This surveying was done as a sub consultant to T. Baker Smith.</p>	

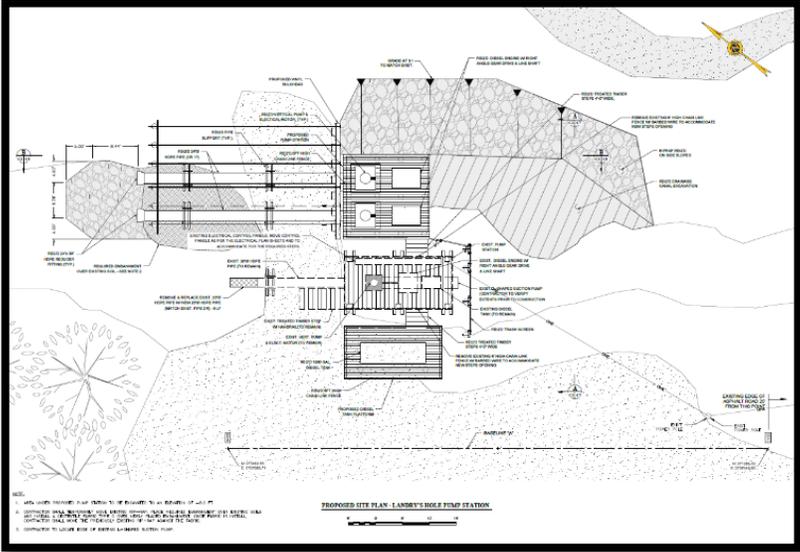
KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Evan Chaisson, PLS – Project Manager	
Project Assignment:	
Surveyor	
Name of Firm with which associated:	
GIS Engineering, LLC	
Years' experience with this Firm:	
With this firm: <u>2</u> With other firms: <u>10</u>	
Education: Degree(s) / Year / Specialization:	
Bachelors of Science / 2011 / Civil Engineering	
Active registration: Year first registered / discipline:	
Year first registered: <u>2015</u> Branch: <u>Surveying</u> LA License No. <u>5139</u>	
Other experience and qualifications relevant to the proposed Project:	
<p>Mr. Chiasson is a project surveyor at GIS Engineering with over 11 years of experience working on coastal, pipeline and boundary projects. His coastal experience is highlighted with marsh creation, levee containment, and levee improvement projects. He has the experience of working on the project team in the office and serving as the Professional Land Surveyor on many coastal projects. His technical knowledge of the various types of survey data allows for the seamless transition of the survey data from the field to the office. Mr. Chiasson is then able to present the survey data needed to the project engineers and designers to reach the final solution for each design phase. Mr. Chiasson is fluent in topographic surveys, hydrographic surveys, control surveys, right-of-way surveys, hazard surveys, pipeline integrity surveys, pipeline inspection surveys and landowner coordination.</p> <p>PORT OF IBERIA COMMERCIAL CHANNEL HYDROGRAPHIC SURVEY - New Iberia, LA (Ongoing) Mr. Chiasson was the project manager responsible for the channel survey of approximately 14 miles of existing channel, including utility and pipeline relocations.</p> <p>BAYOU PETIT CAILLOU LOCK STRUCTURE PROJECT - Chauvin, LA (2020) Mr. Chiasson was the project manager coordinating survey crews for providing post construction surveys, pre-construction surveys, construction layout and the final construction as-built.</p> <p>BILOXI MARSH LIVING SHORELINE - St. Bernard Parish, LA (2017) Mr. Chiasson served as Professional Land Surveyor for this project. The primary goal of this project is to provide shoreline protection by using the living shoreline products to attenuate the wave energy that reaches the shore. Mr. Chiasson was responsible for the collection and QA / QC of all topographic, bathymetric, magnetometer and multi-beam survey data gathered in the area for design of proposed living shoreline products. Mr. Chiasson also oversaw the above stated types of survey processing and drawing preparations before certifying final survey deliverables.</p> <p>EAST MARSH ISLAND - Iberia Parish, LA (2017) Mr. Chiasson served as Professional Land Surveyor for this project. Mr. Chiasson was responsible for the collection and QA / QC of all topographic and bathymetric survey data gathered in the area for volume calculations and comparisons to Year 1 post construction survey and as-built survey. Mr. Chiasson also oversaw the volume calculations and drawing preparations before certifying final survey deliverables</p> <p>BANK RESTORATION OF CRITICAL AREAS-SEGMENT NO. 4 (TE-43), GIWW BREACH CLOSURE PROJECT SEGMENT NO. 6 (EB-10) AND PENCHANT BASIN NATURAL RESOURCE PLAN INCREMENT 1 (TE-34) - Terrebonne Parish, LA (2016) Mr. Chiasson served as Professional Land Surveyor for this multi-phase project. The primary goal of the EB-10, TE-43 and TE-34 phases is performing the post-construction topographic survey of the existing rock dike and nourishment area. Mr. Chiasson was responsible for the collection and QA / QC of all topographic survey data gathered in the area to be used for volume calculation comparisons. Mr. Chiasson also oversaw the drawing preparations before certifying final survey deliverables.</p>	

TEC Professional Services Questionnaire

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

PROJECT NO. 1		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>GRAND ISLE BAYSIDE SEGMENTED BREAKWATERS PHASE IV</p> <p><u>OWNER</u> Grand Isle Independent Levee District David Camardelle, President 985-787-2997</p>	<p>Project Summary:</p> <p>The Grand Isle Independent Levee District uses various strategies to protect the vulnerable island from storm surge flooding. These strategies include construction of rock breakwaters on the bay side of the island to mitigate wave energy that erodes marshes along the shoreline. GIS Engineering completed construction documents, managed bidding and negotiations, and represented the owner during construction of 15 new staggered breakwaters on the north side of the island.</p> <p>GIS determined the optimal alignment for the breakwaters for wave mitigation and to avoid nearby channels and rights-of-way, designed the rock size to withstand the design wave, coordinated with regulatory agencies and the Coastal Protection and Restoration Authority, managed advertisement, bidding, and contracting, and oversaw the contractor on behalf of the levee district. Despite challenges due to low tides and a high river event on the Mississippi River, the project successfully closed most of the remaining gap in shoreline protection along the north shore of the island.</p> <div style="text-align: center;">  </div>	
Completion Date (Actual or Estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2022	\$247k (Eng)	Final Design Construction Management

PROJECT NO. 2						
<p>Project Name, Location and Owner's contact information:</p> <p>BREAKWATER PROTECTION PROJECT (CHENIERE-CAMINADA TO BAYOU THUNDER)</p> <p><u>OWNER</u> Grand Isle Independent Levee District David Camardelle, President 985-787-2997</p>	<p style="text-align: center;">Nature of Firm's Responsibility:</p> <p>Project Summary: Grand Isle has experienced substantial degradation of its wetland areas surrounding the mainland, lakes, and bays. Hurricanes Katrina, Gustav, Ike, and other storms have severely deteriorated the protective wetland habitat around Chenier Caminada. Due to this deterioration, the Grand Isle Independent Levee District (GIILD) has tasked GIS Engineering to evaluate and design segmented breakwaters and rock dikes along Cheniere Caminada to provide shoreline protection for marshes north of Louisiana Highway 1.</p> <p>The project scope includes the planning, permitting, and design of rock breakwaters and dikes to mitigate wetland loss from the high-energy wave action coming off the lakes and bays in the Barataria Basin. GIS completed preliminary design of all project elements in 2019 and delivered final plans and specifications for the rock dikes in Bayou Thunder in 2020. Permitting of the project was delayed by the discovery of cultural resources, but GIS recently re-started efforts to secure permits, including completion of a cultural resources survey.</p>					
						
<p>Completion Date (Actual or Estimated)</p> <p style="text-align: center;">2023</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="padding: 5px; text-align: center;">\$1.08M (Eng)</td> <td style="padding: 5px; text-align: center;">Design Permitting</td> </tr> </table>		Entire Project:	Work for which Firm was Responsible:	\$1.08M (Eng)	Design Permitting
Entire Project:	Work for which Firm was Responsible:					
\$1.08M (Eng)	Design Permitting					

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>LANDRY'S HOLE AND CYPRESS LANE PUMP STATION EXPANSIONS</p> <p><u>OWNER</u> Town of Grand Isle David Camardelle, Mayor 985-787-3196</p>	<p>Project Summary:</p> <p>GIS Engineering, LLC (GIS) was contracted by the Town of Grand Isle (TOGI) to plan and design a new pump station on the north side of the island. GIS's survey and analysis revealed that the proposed pump station would require significant modifications to surrounding ditches and culverts to be effective. GIS recommended expansions to the existing pump stations at Landry's Hole and Cypress Lane to better serve the targeted drainage area. The proposed expansions included two new 24" pumps with electric motors at each station, with diesel tanks, engines, and right-angle drives as backup. GIS performed the civil, hydraulic, and structural design of each expansion and provided stamped plans and specifications in Feb 2020.</p> <div style="text-align: center; margin-top: 20px;">  <p style="font-size: small; text-align: center;">PROPOSED SITE PLAN - LANDRY'S HOLE PUMP STATION</p> </div>	
Completion Date (Actual or Estimated)	Estimated Cost:	
Design Completed Feb. 2020 Construction Pending	Entire Project: \$250k (Eng)	Work for which Firm was Responsible: Design Permitting Construction Management

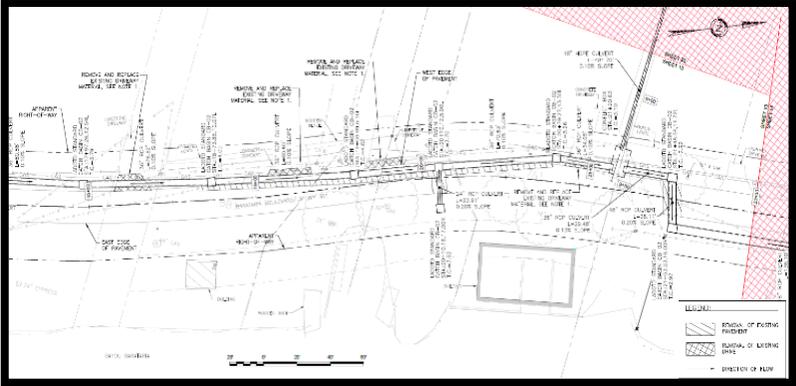
PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>EMERGENCY SAND DUNE REPAIR</p> <p><u>OWNER</u> Town of Grand Isle David Camardelle, Mayor 985-787-3196</p>	<p>Project Summary: The Town of Grand Isle along with Coastal Protection and Restoration Authority (CPRA) and Jefferson Parish completed repairs to the Sand Dune Alignment located in Grand Isle, Louisiana on the eastern edge of Caminada Pass along the gulf side beach behind Bridge Side Marina. Approximately 2,930 liner feet of stone revetment was installed to protect the "geo-tube" and "geo-burrito" for the upcoming hurricane season. This repair consisted of 10 LB. class filter stone layer and 440 LB. class armor stone layer. Despite sand placement in 2016, this area experienced heavy erosion during the 2016 winter season. During the construction of the revetment section, the Island experienced two tropical system (Tropical Storm Cindy - June 20, 2017 and Hurricane Nate – October 5, 2017) during the 2017 Hurricane season, thus increasing the erosion along the sand dune alignment towards the east and along the western alignment heading towards Caminada Pass.</p> <p>GIS's Scope included:</p> <ul style="list-style-type: none"> • Provide Engineering and Consulting Services for the design of the Project • Prepare and provide necessary coordination and documentation in regards to the request for quotes from contractors. • Upon receipt of quotes, assist owner in evaluation and recommendation of award. • Provide necessary oversight, engineering during construction, and project management for the duration of the installation work. This includes but not limited to providing daily reports, reviewing contractor's pay applications, and provide construction as-builts for the completed repair work. <div style="text-align: right; margin-top: 20px;">  </div>	
Completion Date (Actual or Estimated)	Estimated Cost:	
2017	Entire Project: \$3M (Constr)	Work for which Firm was Responsible: Engineering Construction Management

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>EMERGENCY REHABILITATION OF BEACH LEVEE (EMERGENCY REHABILITATION OF GRAND ISLE AND VICINITY PROJECT STA 23+50 TO 29+00)</p> <p><u>OWNER</u> Town of Grand Isle David Camardelle, Mayor 985-787-3196</p>	<p>Project Summary: The Town of Grand Isle performed maintenance to the existing levee system along the beach that experienced heavy erosion. The levee system consisting of a polyuria coated geotextile tube with scour apron and anchor tubes experienced complete loss of sand coverage due to wave attack and scour at the beach side slope.</p> <p>To stabilize this section of levee system for this hurricane season, the Town of Grand Isle followed the USACE's 2014 Amended and Updated Operation, Maintenance, Repair, Replacement, and Rehabilitation Manual approximately 550 linear feet of the levee system. Damage to the geotextile tube and scour apron was repaired following the guidelines specified in the USACE's O&MM. Once repairs to the tube and scour apron were completed, it was be backfilled with sand (minimum of 1 foot cover) on a 5H:1V slope seaward. Sand was be placed, following the guidelines described in the Embankment (Sand Dune) Specification, to maintain a minimum 10 foot crown width.</p> <p>GIS's Scope included:</p> <ul style="list-style-type: none"> Provide Engineering and Consulting Services for the design of the Project Prepare and provide necessary coordination and documentation in regards to the request for quotes from contractors. Upon receipt of quotes, assist owner in evaluation and recommendation of award. Provide necessary oversight, engineering during construction, and project management for the duration of the installation work. This includes but not limited to providing daily reports, reviewing contractor's pay applications, and provide construction as-builts for the completed repair work. 	
Completion Date (Actual or Estimated)	Estimated Cost:	
2016	Entire Project: \$350K (Eng)	Work for which Firm was Responsible: Engineering Construction Management

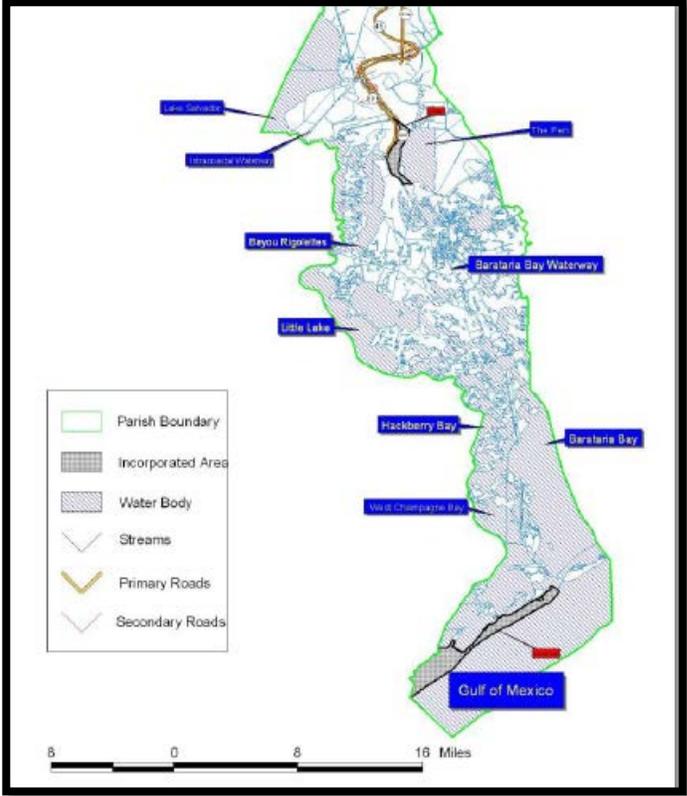


TEC Professional Services Questionnaire

PROJECT NO. 6						
<p>Project Name, Location and Owner's contact information:</p> <p>JONES POINT – LA 301 DRAINAGE IMPROVEMENTS</p> <p><u>OWNER</u> Lafitte Area Independent Levee District Tim Kerner, Jr. 504-689-2208 timkerner@townofjeanlafitte.com</p>	<p style="text-align: center;">Nature of Firm's Responsibility:</p> <p>Project Summary: =The Lafitte Area Independent Levee District (LAILD) retained GIS Engineering to design drainage improvements for the Jones Point area in anticipation of planned bulkheads and levees to protect the area from storm surge and high tides. GIS's performed topographic and utility surveys for nearly one mile of LA 301 and for new and existing drainage features perpendicular to the highway. The project also required boundary surveys for planned drainage features outside DOTD's right-of-way. GIS then performed HydroCAD modeling to size the drainage network along with pump stations to be designed by other firms. GIS relied on the model to develop construction plans and specifications for the drainage improvements. GIS is currently finalizing the design for this project, preparing plats for servitude acquisition, and coordinating with DOTD to secure a project permit</p>					
						
<p>Completion Date (Actual or Estimated)</p> <p style="text-align: center;">ONGOING</p>	<p style="text-align: center;">Estimated Cost:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; padding: 5px;">Entire Project:</th> <th style="width: 50%; padding: 5px;">Work for which Firm was Responsible:</th> </tr> </thead> <tbody> <tr> <td style="padding: 5px;">\$153k (Eng)</td> <td style="padding: 5px;">H&H Modeling, Design & Construction Mgmt</td> </tr> </tbody> </table>		Entire Project:	Work for which Firm was Responsible:	\$153k (Eng)	H&H Modeling, Design & Construction Mgmt
Entire Project:	Work for which Firm was Responsible:					
\$153k (Eng)	H&H Modeling, Design & Construction Mgmt					

PROJECT NO. 7						
<p>Project Name, Location and Owner's contact information:</p> <p>INTEGRATED FEASIBILITY REPORT AND ENVIRONMENTAL IMPACT STATEMENT (IFR-EIS) FOR IMPROVEMENTS TO THE FEDERAL NAVIGATION PROJECT AT PORT FOURCHON</p> <p><u>OWNER</u> Greater Lafourche Port Commission Chett Chiasson, Executive Director 985-632-6701 chettc@portfourchon.com</p>	<p style="text-align: center;">Nature of Firm's Responsibility:</p> <p>Project Summary: GIS prepared the Integrated Feasibility Report and Environmental Impact Statement (IFR-EIS) for improvements to the federal navigation project at Port Fourchon on behalf of the GLPC under the authority granted by Section 203 of Water Resources Development Act (WRDA) of 1986 (PL 998-662). Section 203 of WRDA 1986 allows non-Federal interests, such as GLPC, to undertake feasibility studies of proposed navigation projects and submit them to the Assistant Secretary of the Army for Civil Works (ASA-CW).</p> <p>The IFR-EIS examined the feasibility of:</p> <ul style="list-style-type: none"> • The deepening and widening the channel and construction of a turning basin at Port Fourchon in order to accommodate the most modern vessels used in the Gulf of Mexico deep water oil and gas industry and to allow for passage of deeper draft vessels to the Port. Opportunities exist to increase the efficiency of existing operations by providing deeper and wider channels, allowing larger oilfield service and supply vessels access to Port Fourchon. • The improvements to the existing Federal navigation project at Port Fourchon and to identify the solution that best meets the economic, environmental, physical and social needs of the region and the nation. <p>This report identified the National Economic Development (NED) plan, the plan that has the greatest net economic benefits but is also consistent with protection of the Nation's environment. The plan also identified any regional economic benefits that might be attributable to the proposed improvements. Pursuant to Section 203 of WRDA 1986, this report is intended to determine the advisability and extent of both Federal and local projects to improve navigation channels.</p>					
<p>Completion Date (Actual or Estimated)</p> <p style="text-align: center;">2020</p>	<p style="text-align: center;">Estimated Cost:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center; padding: 5px;">Entire Project:</td> <td style="width: 50%; text-align: center; padding: 5px;">Work for which Firm was Responsible:</td> </tr> <tr> <td style="text-align: center; padding: 5px;">\$4.1M (Eng)</td> <td style="text-align: center; padding: 5px;">Feasibility Report Environmental Impact Study</td> </tr> </table>		Entire Project:	Work for which Firm was Responsible:	\$4.1M (Eng)	Feasibility Report Environmental Impact Study
	Entire Project:	Work for which Firm was Responsible:				
\$4.1M (Eng)	Feasibility Report Environmental Impact Study					



PROJECT NO. 8						
<p>Project Name, Location and Owner's contact information:</p> <p>JEFFERSON PARISH COASTAL MASTER PLAN (1992, 2002, 2012)</p> <p><u>OWNER</u> Jefferson Parish Government Marnie Winter, Former Director of Environmental Affairs</p>	<p style="text-align: center;">Nature of Firm's Responsibility:</p> <p>Project Summary:</p> <p>In 1992 Mr. Malbrough led a team of coastal engineers and scientists to produce a Coastal Master Plan for Jefferson Parish. In 2002 and 2012 Mr. Malbrough led his team to update the Plan with current and new projects.</p> <p>In the early 90's during the beginning of the CWPPRA Program's coastal planning efforts Jefferson Parish recognized the need for a Comprehensive Coastal Master Plan and in 1992 Mr. Malbrough and his staff @ CEEC completed the first Jefferson Parish Coastal Wetland Conservation and Restoration Plan. After 10 years of submitting the projects to CWPPRA 8 of the 10 projects were included in CWPPRA Program so Jefferson Parish decided to update their Plan in 2002 and then updated it again in 2012 and 2015 after the CIAP, GOMESA and RESTORE ACT funding programs were developed. In each of these years Mr. Malbrough was the Principal Lead Author of the plans, with his coastal staff's assistance.</p> <p>*This work was done by GIS staff while at previous companies</p> <div style="text-align: center; margin-top: 20px;">  </div>					
<p style="text-align: center;">Completion Date (Actual or Estimated)</p> <p style="text-align: center;">1992, 2002, 2012</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="padding: 5px;"></td> <td style="padding: 5px; text-align: center;">Engineering and Planning</td> </tr> </table>		Entire Project:	Work for which Firm was Responsible:		Engineering and Planning
Entire Project:	Work for which Firm was Responsible:					
	Engineering and Planning					

TEC Professional Services Questionnaire

PROJECT NO. 9		
<p>Project Name, Location and Owner's contact information:</p> <p>GRAND ISLE STATE PARK – IMPROVEMENTS TO FISHING PIER</p> <p><u>OWNER</u> Coastal Protection and Restoration Authority Travis Moore 225-342-4737 Travis.Moore@la.gov</p>	<p style="text-align: center;">Nature of Firm's Responsibility:</p> <p>Project Summary: GIS Engineering is providing professional engineering services to the Coastal Protection and Restoration Authority (CPRA) for the design of a 400-ft extension onto the existing fishing pier located at the Grand Isle State Park located in Jefferson Parish, LA. The project details include the following services:</p> <ul style="list-style-type: none"> Provide topographic and bathymetric survey Rehabilitate and reconstruct portions of existing fishing pier Scan using drone technology and evaluate the existing pier for structural evaluation of substructure. Design and modeling of proposed fishing pier extension using SACS Software to evaluate wave action, wind loads, and other design loads for proposed storm intensities Preliminary Plans and Specifications Final Plans and Specifications Assisting with bidding and procurement of the contractor Construction Administration and Inspection Services Construction Closeout documentation <p>During design, our team of civil, environmental, and structural engineers conducted workshops to collaborate the unique vision, soft details, and local codes and standards of the State Parks and CPRA. Our team provided recommendations for multiple shade structures, LED lighting for low power consumption with underwater lighting for night fishing and deck lighting, a low-flow water saving toilet in the restroom facility, fish cleaning stations to enhance sea life such as porpoises and sea turtles, and ADA accessible hand railing (lower rail specifically for fishing).</p>	
		
<p>Completion Date (Actual or Estimated)</p>	<p>Estimated Cost:</p>	
<p>ONGOING (Project timeline uncertain due to Hurricane Ida)</p>	<p>Entire Project: \$598k (E)</p>	<p>Work for which Firm was Responsible: Surveying Design Permitting</p>

PROJECT NO. 10						
<p>Project Name, Location and Owner's contact information:</p> <p>FIFI ISLAND RESTORATION</p> <p><u>OWNER</u> Grand Isle Independent Levee District David Camardelle (985) 787-3196</p>	<p style="text-align: center;">Nature of Firm's Responsibility:</p> <p>Project Summary: The project will create and nourish up to 371 acres of marsh on Fifi Island. Fifi Island has experienced significant land loss from storms, subsidence, and wave erosion due to its northern exposure to Bay Des Ilettes. The USGS estimated 1.21% annual land loss since 1984. The island was severely degraded until a series of restoration efforts were undertaken in the early 2000s. Most recently, the US Army Corps of Engineers placed material from maintenance dredging of Bayou Rigaud in 2010. New rock dikes have mitigated erosion and helped preserve the newly created marsh. This project seeks to continue those efforts and create additional marsh contained and protected by rock dikes.</p> <p>GIS and GIS employees have worked on various aspects of Fifi Island for many years. Most recently, GIS developed a master plan for GIILD, which prominently featured Fifi Island as a critical protective measure. In 2022, GIS successfully secured funds from the National Fish and Wildlife Foundation's National Coastal Resilience Fund (NCRF) to design the project. For the preliminary design phase, GIS is providing topographic and bathymetric surveys, pipeline coordination, community engagement, agency coordination and preliminary plans and a preliminary design report.</p>					
						
<p>Completion Date (Actual or Estimated)</p> <p>ONGOING</p>	<p style="text-align: center;">Estimated Cost:</p> <table 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="padding: 5px; text-align: center;">\$598k (E)</td> <td style="padding: 5px; text-align: center;">Surveying/Design</td> </tr> </table>		Entire Project:	Work for which Firm was Responsible:	\$598k (E)	Surveying/Design
Entire Project:	Work for which Firm was Responsible:					
\$598k (E)	Surveying/Design					

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.	N/A	
2.		
3.		
4.		
5.		
6.		

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

INTRODUCTION

GIS Engineering, LLC, a wholly owned subsidiary of Grand Isle Shipyard, Inc., is comprised of two main divisions, Coastal Design & Infrastructure Division and the Industrial Division, with branch offices in New Orleans, Houma, Galliano, Baton Rouge, Lafayette, New Roads and Napoleonville. GIS strives to be “The Professional Service Provider of Choice.” We make it our mission to “deliver superior services that exceed clients’ and communities’ expectations through responsive and empowered employees.” GIS is committed to providing superior services to the Parish. Our team have spent nearly their entire careers working in the coastal marshes of Louisiana, in and around Jefferson Parish. GIS has a regionally-recognized reputation for integrity and engineering expertise. Our firm maintains over a 90-percent level of repeat business reflecting our core mission – To provide quality engineering, design and construction management services to our customers in a safe and environmentally sound manner at fair and competitive prices. We seek to provide maximum value to our customers through a partnership-minded approach that tailors our services to fit each clients’ unique business drivers and needs. Our diverse and experienced staff know how to be responsive on small, medium, or large-scale projects, tailoring appropriate-sized teams for each project.

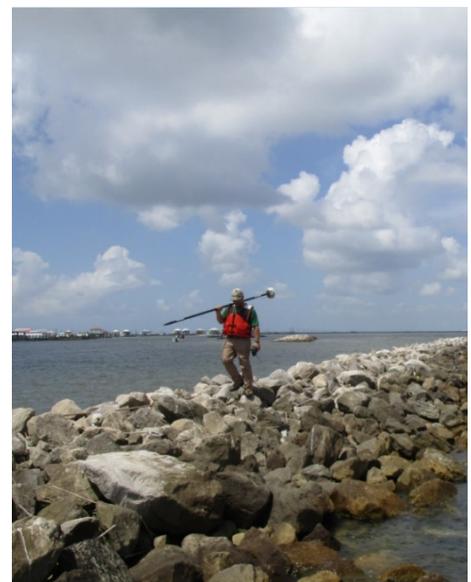
Our particular experience relevant to this contract includes our in-depth knowledge of drainage and flood protection needs in Grand Isle. GIS manages all engineering needs for the Town of Grand Isle (TOGI) and the Grand Isle Independent Levee District (GIILD). Our Construction Manager, Joe Chauvin, is intimately familiar with the Island and its needs. He spends considerable time in Grand Isle coordinating work, including emergency response during tropical storms and hurricanes. GIS’ experience in Grand Isle will be a tremendous asset to this project.

CRITERION NO. 1: PROFESSIONAL TRAINING AND EXPERIENCE

Oneil Malbrough, Jr., REM, has over 40 years of experience in environmental planning, coastal design, and project management, and is a Registered Environmental Manager. Mr. Malbrough has served Jefferson Parish as a consultant for three decades. In 2004, he led a drainage study that included most of Grand Isle. He also prepared the Parish’s coastal master plans in 1992, 2002, 2012, and 2015, and contributed to myriad coastal protection and restoration projects under the CWPPRA program. His experience with Jefferson Parish and other local clients has given him the expertise, skill, and insight required to deliver effective construction documents.

Kyle Galloway, PE, has over 12 years of experience delivering civil engineering designs and studies in south Louisiana and adding value for his clients. Mr. Galloway has managed coastal projects and other engineering designs and studies for local clients including the Town of Grand Isle, the Grand Isle Independent Levee District, the Lafitte Area Independent Levee District, the City of New Orleans, the Sewerage and Water Board of New Orleans, St. Charles Parish, St. John the Baptist Parish, and Terrebonne Parish. A 13-year veteran of the Louisiana Army National Guard, Mr. Galloway has supervised large, complex organizations and has overseen both routine and emergency operations, including response to the Deepwater Horizon Oil Spill in Grand Isle, LA. He has developed the knowledge and experience necessary for the successful planning and completion of engineering projects.

Joe Chauvin has 17 years of experience performing and coordinating various field services for clients. As GIS’ client manager for TOGI and GIILD and a native of the Island, Joe’s understanding of the Parish’s coastal challenges and needs is unparalleled. He is intimately involved in all public works on the Island, including embedded response to emergencies such as Hurricane Ida.



GIS Construction Manager Joe Chauvin surveying breakwaters in Grand Isle.

GIS's staff includes 15 Professional Engineers in the Civil discipline that are ready to contribute to this project, including several with past experience delivering projects in Jefferson Parish. Our training and past experience providing planning, studies, design, permitting, and construction management for public clients has readied us to deliver value for Jefferson Parish.

CRITERION NO. 2: SIZE OF FIRM

As noted above, GIS Engineering is one of the largest engineering firms in the State, with 174 employees. **All of our full-time staff live and work in South Louisiana.** We have the technical staff required for this contract, including 20 Professional Civil Engineers, 19 Engineer Interns, 14 design technicians, 11 construction inspectors, and all of the support staff required.

CRITERION NO 3: CAPACITY FOR TIMELY COMPLETION OF NEWLY ASSIGNED WORK

GIS prides itself on delivering projects on aggressive schedules. We challenge ourselves to beat timelines and budgets on every project. GIS Engineering has grown continuously since forming in 2016. Now with 174 employees, we have grown to one of the largest LOCAL engineering firms in the State. In recent months, the New Orleans and Baton Rouge offices have added additional staff while performing the same workload, anticipating future awards. This extra staff provides ample capacity to complete this work. We are committed to continue growing our staff to continue delivering timely products to our clients.

CRITERION NO. 4: PAST PERFORMANCE ON SIMILAR PROJECTS

Oneil Malbrough has demonstrated a record of success over his three decades of consulting for Jefferson Parish. Projects he has delivered include:

- Jefferson Parish Comprehensive Coastal Plan – 1992, 2002, 2015
- Northeast Turtle Bay Marsh Creation and Critical Shoreline Protection
- Barataria Bay Waterway West Side Shoreline Protection
- Barataria Bay Waterway East Side Shoreline Protection
- South Shore of the Pen Shoreline Protection and Marsh Creation
- Barataria Basin Landbridge Shoreline Protection – Phases 1-4

All of our key staff have a record of successful delivery of coastal projects for local clients throughout southeast Louisiana, as shown on their resumes in this proposal.

CRITERION NO. 5: LOCATION OF THE PRINCIPAL OFFICE WHERE WORK WILL BE PERFORMED

GIS Engineering will execute task orders/assignments from our New Orleans office, located in the Central Business District in The Exchange building (formerly Chevron Place). Our offices in Baton Rouge, Houma, Lafayette, Napoleonville, and Galliano will support our New Orleans staff as needed. **All 174 GIS Engineering employees live and work in South Louisiana. Fifteen (15) of the twenty-five (25) GIS employees located in the New Orleans office RESIDE IN JEFFERSON PARISH.**

CRITERION NO. 6: ADVERSARIAL LEGAL PROCEEDING BETWEEN THE PARISH AND FIRM

GIS has not been involved in any legal proceedings with Jefferson Parish.

CRITERION NO. 7: PRIOR SUCCESSFUL COMPLETION OF SIMILAR PROJECTS

As illustrated in the resumes and project descriptions above, GIS has a successful track record of delivering construction bid packages for drainage projects of various sizes and managing construction on behalf of clients. GIS is the preferred designer for drainage pump stations in Terrebonne Parish. Two of these pump stations are nearing completion of construction and two more are ready for bid. Our staff also has significant experience with drainage projects in Jefferson Parish, both with GIS and with previous employers.

TEC Professional Services Questionnaire

GIS Staff Experience on Projects in Jefferson Parish

Landry’s Hole and Cypress Lane Pump Stations , Grand Isle, LA	Jones Point – LA 301 Drainage Improvements , Lafitte Area Independent Levee District
Town of Grand Isle Drainage and Pumping Station Requirements Study	Mounes Street Drainage Improvements
Elise Avenue Drainage Pump Station and Subsurface Drainage Improvements	St. Peter’s Ditch Phase 3C
Goose Bayou Basin Drainage Pump Station No. 2	Clearview Drainage Pump Station – St. Peter’s Ditch Phase 4

References for these and other projects include:

- David Camardelle, Mayor, Town of Grand Isle: mayor.togi@viscom.net
- Marion F. Edwards, Councilman, District 1, Jefferson Parish: marionedwards@jeffparish.net
- Chett Chiasson, Executive Director, Port Fourchon: chettc@portfourchon.com
- Archie Chaisson, President, Lafourche Parish: chaissonap@lafourchegov.org

“Over the years in my previous government roles and continuing in my current role as Lafourche Parish President, I have engaged professional engineering services with GIS Engineering (GIS). Their firm has consistently demonstrated the ability to perform at a high level, fast tracking projects and exceeding our expectations on tasks assigned to them. GIS has the resources and technical capacity of some of the largest firms in the country, yet they still have that small-town passion and gift of service – putting their clients’ needs 1st before their own.

Having a company like this close to home and staffed with hard working local employees is a great resource. Whenever the need arises, we will always consider working with GIS for professional services and technical assistance because they know how to deliver.”

Archie Chaisson, III - Lafourche Parish President

MINIMUM REQUIRED QUALIFICATIONS

1. Principal who is a professional civil engineer –Ben Malbrough, PE, is Vice President of GIS Engineering with legal authority to act on behalf of the company. He serves as GIS Engineering’s supervising professional.
2. Professional in charge of the project who is a professional civil engineer – Kyle Galloway, PE, will manage this contract out of GIS Engineering’s New Orleans office. Mr. Galloway has 12 years of experience in civil engineering design.
3. Professional engineer licensed in Louisiana –Agustin Rega, PE, is a Louisiana licensed Professional Engineer with over 10 years of experience performing Coastal projects. Also, all of the professional engineers listed in this response are licensed in Louisiana.

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

Signature:  Print Name: Benjamin Malbrough, PE

Title: Vice President Date: 07/16/2024