

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Professional Engineering and Supplemental Services for a Drainage Master Plan for the East Bank of Jefferson Parish
 SOQ No.: 22-014; Res. No. 138896

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:

Dustin Malbrough, PE, President
 Office: (985) 219-1000 Email: dustinm@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	5		Structural Engineers
		Chemical Engineers			Geotechnical Engineers			Graduate Engineers
15		Civil Engineers			Interior Designers	20		Project Managers
12		Construction Inspectors			Landscape Architects	8		Clerical
		Ecologists	40		Land Surveyor	1		Grant/Funding Specialist
6		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)
[ALL PERSONNEL LISTED ARE LOCATED IN SOUTH 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.

TEC Professional Services Questionnaire

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

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

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

J. Please specify the total number of support personnel that may assist in the completion of this Project:
There are 44 support personnel in New Orleans and Houma 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.



PRINCIPALS

Dustin Malbrough, PE
Oneil Malbrough, REM

PROJECT MANAGER

Kyle Galloway, PE

QA / QC

John Plaisance, PE, PLS

H&H MODELING

Agustin Rega, PE
Mariann Alvarez, EI


DRAINAGE PLANNING/DESIGN/ ENVIRONMENTAL/PERMITTING

Jacob Loeske, PE, LSI
Mohan Menon, PhD, PG, PMP
Christopher Jeanice, PE
Laura Barnes, PE
Kevan Keiser, PE


FIELD SERVICES/Surveying

Joe Chauvin
Henry Schwartz, PLS
Greg Plaisance, PLS
Evan Chaisson, PLS


TEC Professional Services Questionnaire

PROFESSIONAL IN CHARGE OF PROJECT:	
Name & Title:	
Oneil P. Malbrough, Jr., REM - Sr. Vice President	
Project Assignment:	
Client Manager/Principal In Charge	
Name of Firm with which associated:	
GIS Engineering, LLC	
Years' experience with this Firm:	
With this firm: <u>6</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 (GILD) Mr. Malbrough has led numerous projects for TOGI and GILD 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 CWPRA 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 CWPRA 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> <p>AMITE RIVER & TRIBUTARIES ECOSYSTEM/BAYOU MANCHAC RESTORATION, PONTCHARTRAIN LEVEE DISTRICT (2004 – 2014) Mr. Malbrough supervised the engineering and planning support for this ecosystem feasibility study on behalf of the PLD. While the primary focus of the study was ecosystem restoration, the study also included other measures such as flood control, flood risk reduction and recreational benefits.</p>	

TEC Professional Services Questionnaire

PROFESSIONAL IN CHARGE OF PROJECT:	
Name & Title:	
Dustin Malbrough, PE – President	
Project Assignment:	
Principal in Charge	
Name of Firm with which associated:	
GIS Engineering, LLC	
Years' experience with this Firm:	
With this firm: <u>6</u> With other firms: <u>11</u>	
Education: Degree(s) / Year / Specialization:	
Bachelors of Science / 2007 / Civil Engineering	
Active registration: Year first registered / discipline:	
Year first registered: <u>2011</u> Branch: <u>Civil Engineer</u> LA License No. <u>36779</u>	
Other experience and qualifications relevant to the proposed Project:	
<p>Mr. Malbrough is a registered Professional Engineer with more than 15 years of design and construction management experience on large, complex infrastructure projects across South Louisiana. He has been directly responsible, as either a Principal, Project Manager, or Engineer of Record, for the design and construction of more than \$150 Million dollars' in infrastructure (Roads, Drainage and Flood protection) projects in Louisiana. His most professional experience came on IHNC Surge Barrier Project (New Orleans, LA), the 1.3-Billion-dollar Design-Build project constructed after Hurricane Katrina: the largest Civil Works (Design-Build) project ever awarded in the history of the U.S. Army Corps of Engineers.</p> <p>FALGOUT CANAL ROAD REHABILITATION – Theriot, LA (2017-2018) Client manager and overall QA/QC (principal-in-charge) for the project. In this role, he was responsible for all contractual obligations and coordination between GIS and the client - Terrebonne Parish Consolidated Government.</p> <p>UPPER BARATARIA RISK REDUCTION SYSTEM –Lafourche and St. Charles Parishes, LA (2018-Ongoing) Client manager and overall QA/QC (principal-in-charge) for the 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 preliminary design of a 270' wide barge gate and a \$3.5M levee lift.</p> <p>INNER HARBOR NAVIGATIONAL CANAL (IHNC) PROJECT - New Orleans, LA (2008-2011) Deputy Design and Construction Quality Control Engineer for this project. In this role, he was responsible for creating and implementing a comprehensive design and construction quality control system that provided the necessary review and checks to ensure compliance for the project. This included but was not limited to all quality control processes, procedures, management of all the daily reporting and payroll documentation as well as submittal reviews and approvals. The IHNC project consisted of constructing a concrete barrier wall, 2 miles long with a top of wall elevation of 26 feet, to help protect the City of New Orleans and its surrounding areas from flooding.</p> <p>UPPER REACH F LEVEE ALIGNMENT PROJECT – Terrebonne Parish, LA (2014-2015) Project Manager and Engineer of Record for the project. Malbrough successfully designed and managed the construction of nearly 3-miles of earthen embankment (levee) consisting of off-site excavation, material processing, testing, hauling and placing of 1.1 Million cubic yards of fill material. This fill material was placed directly adjacent to the Houma Navigation Canal just south of Falgout Canal road in open water/marsh conditions.</p> <p>LOWER REACH F LEVEE ALIGNMENT PROJECT – Terrebonne Parish, LA (2013-2014) Project Manager and Engineer of Record for the project. In this role, he was responsible for all planning, design, permitting, bidding, and construction management for the project. This project consisted of 1-mile of earthen embankment (levee) consisting of dredging, on-site material processing, testing and placement of nearly 500,000 cubic yards of material dredged from the Houma Navigation Canal. This dredged material was placed directly adjacent to the Houma Navigation Canal in open water creating valuable and habitat producing wetlands.</p>	

TEC Professional Services Questionnaire

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>3</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 10 years of experience in civil engineering and leadership of large, complex organizations. He possesses strong technical skills in coastal engineering, 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>LANDRY'S HOLE AND CYPRESS LANE PUMP STATIONS – Grand Isle, LA (2020) 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> <p>BAYOU TERREBONNE DRAINAGE PROJECT – Terrebonne Parish, LA (2018-Ongoing) Mr. Galloway is the Project Manager for this watershed management project. Terrebonne Parish intends to construct a pump station and water control structures to decrease flood surface elevations in Bayou Terrebonne. Mr. Galloway led a hydrologic and hydraulic study of the watershed to determine the best course of action to accomplish the project goal and managed design of the proposed 400 CFS pump station and associated levees and control structures.</p> <p>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.</p>	

TEC Professional Services Questionnaire

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.

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

Mr. Galloway oversaw the hydrologic and hydraulic modeling and design of upgraded urban storm sewer in the Lakeview neighborhood of New Orleans. He and his team modeled the existing and proposed drainage network using EPA's Storm Water Management Model to inform design and FEMA's Benefit Cost Analysis. He also coordinated for survey, oversaw the production of construction documents for the drainage improvements, and advised the client on integration between "green infrastructure" storm water features.


EAST CARROLL PARISH DRAINAGE UPGRADES – Lake Providence, LA (2012-2017)

Mr. Galloway designed improvements to open channels and culverts benefitting 100+ acres in the Town of Lake Providence, including modeling the system in HEC-HMS and HEC-RAS. He also managed HMGP funding, coordinated with an adjacent CDBG-funded project, and assisted in the preparation of a benefit cost analysis.


DRAINAGE PUMP STATION #5 – New Orleans, LA (2010)

Mr. Galloway performed the civil site design and discharge pipe design for a 600 CFS expansion of Drainage Pump Station #5 in the Lower Ninth Ward of New Orleans. The work included siting the new building, designing the grading plan, analysis of the driveways using AutoTURN, integration of the discharge pipes with existing structures, development of system curves, and assisting with pump selection.


TEC Professional Services Questionnaire


KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:				
Name & Title:				
Jacob Loeske, PE, LSI – Director of Operations				
Project Assignment:				
Drainage Planning/Design				
Name of Firm with which associated:				
GIS Engineering, LLC				
Years' experience with this Firm:				
With this firm: <u>2</u> With other firms: <u>17</u>				
Education: Degree(s) / Year / Specialization:				
Bachelors of Science / 2002 / Environmental Engineering				
Active registration: Year first registered / discipline:				
Year first registered:	2007	Branch: Civil	LA License No.	PE 33285
	2008		Survey	LSI 548
Other experience and qualifications relevant to the proposed Project:				
<p>Mr. Loeske has developed, delivered, and managed complex roadway projects for LADOTD and several state and local agencies. He has earned a reputation for leading diverse project teams that deliver value to the client and meet proposed schedules while providing exceptional client service towards the common vision and goals. He has over 18 years of engineering design experience encompassing general civil and municipal engineering projects including roadway, intersection, and interchange design, drainage design, site design, lighting systems design, and levee construction. He is also experienced in managing and coordinating survey crews for various highway, drainage, and utility relocation projects.</p> <p>ASSUMPTION PARISH DRAINAGE & FLOOD MITIGATION MASTER PLAN – PHASES I&II – Assumption Parish, LA (2020-ONGOING) Mr. Loeske managed the development of the overall Drainage and Flood Mitigation Master Plan for Assumption Parish. He oversaw the analysis of the existing hydrologic & hydraulic conditions, determining system deficiencies, improvement projects, and project cost estimates. The master plan projects ranged from local small scale projects to large watershed scale projects.</p> <p>UPPER TERREBONNE BASIN ENVIRONMENTAL ASSESSMENT – Upper Delta Soil & Water Conservation Dist., LA (2020-ONGOING) Mr. Loeske oversaw the completion 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>I-10 / LOYOLA INTERCHANGE IMPROVEMENTS, LADOTD – Jefferson Parish, LA (2016 – 2019) Project Manager responsible for engineering and related services to prepare an Interchange Modification Report (IMR) in accordance with the NEPA process. With the proposed reconfiguration of the Louis Armstrong New Orleans International Airport (MSY), the Loyola Drive/ Aberdeen Street corridor has been proposed for improvement in order to serve as the primary access point from I-10 to the proposed north terminal of the airport. The project included: Phase 1 - Interchange Modification Report (IMR) and Phase 2 - Environmental and Noise Analysis. Mr. Loeske was responsible for performing data inventory of readily available documentation in relation with MSY and alternative development inclusive of Line and Grade.</p> <p>I-12: LA 21 TO US 190, LADOTD – St. Tammany Parish, LA (2016 – 2020) Project manager responsible for assisting and overseeing portions of the horizontal and vertical alignment design, drainage design, and sequence of construction with minimum temporary traffic control layout and striping according to LADOTD specifications, standards and design criteria. Additional responsibilities included standard project manager duties including coordination, QC of plans and design, project coordination, and scheduling. Design tools used for this project included MicroStation with CadConform, Bentley InRoads, DOTD HydrWIN, and Microsoft Excel.</p> <p>ASHLAND LANDFILL ROAD EXTENSION – Terrebonne Parish, LA (2020-2021) Transportation Lead responsible for providing oversight for all necessary engineering and related services required to design a new 2-lane undivided concrete roadway for approximately 4500 linear feet. The project will also evaluate and replace drainage features, damages to concrete panels, and provide upgrades to parking at a public boat launch along the corridor. Mr. Loeske assisted on the design, QA of plan and profile sheets, typical sections, summary of quantities, construction sequencing, and will serve as the Engineer of Record for this project.</p>				

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:			
Name & Title:			
Mohan Menon, PhD, PG, PMP – Director of Environmental			
Project Assignment:			
Environmental and Permit Specialist			
Name of Firm with which associated:			
GIS Engineering, LLC			
Years' experience with this Firm:			
With this firm: <u>4</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:	2018	Branch: PG	LA License No. 1217
Other experience and qualifications relevant to the proposed Project:			
<p>Dr. Mohan has over 30 years of natural resources, permitting & compliance, (including NEPA practice) and project management experience Dr. Menonis 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>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) 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> <p>THE INNOVATIVE DREDGING INITIATIVES, CPRA Dr. Menon assessed the alternative dredge contracting techniques and bidding methods recommending optimum approach to reducing construction costs and streamlining CPRA's Master Plan projects. As part of the project, an inland marsh restoration plan was developed by clustering multiple construction projects for effective implementation</p> <p>LOUISIANA MASTER PLAN UPDATE 2012 – ENVIRONMENTAL COMPLIANCE POLICY (CPRA) Dr. Menon developed a strategy/approach for the Master Plan Update for compliance with the NEPA requirements.</p>			

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:			
Name & Title:			
Christopher Jeanice, PE – Civil Engineer			
Project Assignment:			
Drainage Planning/Design			
Name of Firm with which associated:			
GIS Engineering, LLC			
Years' experience with this Firm:			
With this firm: <u>6</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>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>WARD 7 LEVEE IMPROVEMENT PROJECT – Chauvin, LA (2011-2016) Mr. Jeanice assisted in the design, design reports and project specifications for Ward 7 Levee projects. During the construction phase, he is performing construction and project management duties.</p> <p>EAST HOUMA SURGE LEVEE – Houma, LA (2011-2013) Mr. Jeanice assisted in project management, project inspection, and various calculations during project for East Houma Surge Levee (Future Thompson Road Extension) project. He also performed construction management duties such as review pay applications, submittals, RFI's, and coordinate with contractor on various items during construction.</p> <p>LOWER REACH F LEVEE ALIGNMENT PROJECT – Terrebonne Parish, LA (2013-2014) Mr. Jeanice performed construction management duties for the Reach F-1 levee alignment project consisting of review of pay applications, submittals and RFI's, conduct progress meeting between contractor and owner.</p>			

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:			
Name & Title:			
Agustin Rega, PE – Civil Engineer			
Project Assignment:			
H&H Modeling			
Name of Firm with which associated:			
GIS Engineering, LLC			
Years' experience with this Firm:			
With this firm: <u>4</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 eight 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>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>BAYOU TERREBONNE DRAINAGE PROJECT – Terrebonne Parish, LA (2018-Ongoing) Mr. Rega is the engineer of record for the proposed 400 CFS pump station in this watershed management project. Terrebonne Parish intends to construct a pump station and water control structures to decrease flood surface elevations in Bayou Terrebonne. Mr. Rega performed the civil and hydraulic design of the proposed pump station, managed the structural design, and produced stamped plans and specifications. Mr. Rega is also providing technical oversight for the design of associated levees and control structures.</p> <p>WEST BATON ROUGE STUMPY BAYOU DRAINAGE CONVEYANCE – West Baton Rouge Parish, LA (2019) Mr. Rega was involved in the Hydrologic & Hydraulic (H&H) modeling of the West Baton Rouge Stumpy Bayou watershed and subsequent recommendation of improvements for flood risk reduction and mitigation.</p> <p>PETIT CAILLOU CONVEYANCE CHANNEL & PUMP STATION – Terrebonne Parish, LA (2017-Ongoing) Mr. Rega was involved with the design and bidding for a new 450 cfs drainage pump station. His responsibilities included the hydraulic calculations and design for the station.</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>			

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.

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.

ELLIOT JONES PUMP STATION – Terrebonne Parish, LA (Ongoing)

Mr. Rega was actively involved in the study & report phase of the project making recommendations on the proposed pump station location and drainage features. He performed preliminary hydraulic calculations in preparation for the preliminary and final design. He will be providing design support during the design and construction phases of this project.

CELL 1 & HEAD WORKS UPGRADES TO SOUTH WASTE WATER TREATMENT PLANT – Terrebonne Parish, LA (2018 - Ongoing)

Mr. Rega was actively involved in the design of the waste treatment plant upgrades for the South Wastewater treatment plant, Cell 1. He was responsible for the design of the headworks structure modifications and hydraulic calculations. Mr. Rega will be providing engineering support during the construction phase of this project.

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.


ASSUMPTION PARISH DRAINAGE & FLOOD MITIGATION MASTER PLAN – PHASE I – Assumption Parish, LA (2020)

Mr. Rega was highly involved in the development of the overall Drainage and Flood Mitigation Master Plan for Assumption Parish. His responsibilities included an overall analysis of the existing hydrologic & hydraulic conditions, determining system deficiencies, improvement projects, and project cost estimates. The master plan projects ranged from local small scale projects to large watershed scale projects.

UPPER TERREBONNE BASIN ENVIRONMENTAL ASSESSMENT – Upper Delta Soil & Water Conservation District, LA (2020)

Mr. Rega was involved with the hydrologic and hydraulic model developed for the project. His responsibilities included model calibration checks and improvements.

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>3</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>				


TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:			
Name & Title:			
Laura Barnes, PE - Civil Engineer			
Project Assignment:			
Drainage Planning/Design			
Name of Firm with which associated:			
GIS Engineering, LLC			
Years' experience with this Firm:			
With this firm: <u>3</u> With other firms: <u>17</u>			
Education: Degree(s) / Year / Specialization:			
Masters of Science / 2015 / Engineering Management			
Bachelors of Science / 1998 / Civil Engineering			
Active registration: Year first registered / discipline:			
Year first registered: <u>2012</u> Branch: <u>Civil</u> LA License No. <u>PE 37089</u>			
Other experience and qualifications relevant to the proposed Project:			
<p>Ms. Barnes has over 18 years of experience in civil engineering study and design, project and construction management. She has experience working with municipalities on their water supply, treatment, and distribution systems, and more recently has worked extensively on flood control projects.</p> <p>OAK CREEK PHASE 10 – WATER, WASTEWATER, STREET - Paris, TX Ms. Barnes designed and managed the construction of Phase 10 of a larger development. This design included 6 new lots, water, wastewater, storm drain and street extensions.</p> <p>PALM AVENUE WATERLINE RELOCATION, CONSOLIDATED WATERWORKS DISTRICT NO. 1 - Houma, LA Ms. Barnes managed the design and bidding of this waterline relocation project. The purpose of this project was to improve the material and relocate the waterline so that it was no longer in the middle of the street requiring new concrete panels with each pipeline repair.</p> <p>HYDRO-ALUMINUM PRODUCTS - Commerce, TX Ms. Barnes designed and oversaw construction of the roadway, storm drains, water and wastewater facilities at the site.</p> <p>FORT BEND COUNTY LEVEE IMPROVEMENT DISTRICTS; LID 19, SIENNA PLANTATION LIDS NORTH AND SOUTH – Sugar Land, TX This project resulted from flooding that took place during Hurricane Harvey in 2017. Ms. Barnes was a project engineer on the team responsible for performing an independent review of the design and construction of the levee system and pump station in Fort Bend County LID 19. She reviewed the County's design criteria and assisted in analyzing the design and construction to determine if they were in accordance with the criteria and regulations at the time of design and construction as Phase I. In Phases II and III she reviewed the Operations and Maintenance material during the event and managed the team that modeled and provided preliminary design information for larger storm events.</p> <p>WARD 7 LEVEE IMPROVEMENTS AND EXTENSION, TERREBONNE PARISH CONSOLIDATED GOVERNMENT - Terrebonne Parish, LA Ms. Barnes managed the design and construction administration for 6 miles of new construction and improvements of a flood protection levee as part of the Terrebonne Parish Long Term Recovery Plan.</p> <p>FALGOUT CANAL NORTH AND SOUTH LEVEE TIE-INS - Theriot, LA Ms. Barnes managed the design and construction administration for new levee tie-ins to complete the connection between existing levees and the newly construction Falgout Canal Flood Control Structure.</p> <p>MORGANZA TO THE GULF HURRICANE PROTECTION SYSTEM – Terrebonne and Lafourche Parishes, LA Over the last 8 years, Ms. Barnes has assisted in design, project management and/or construction management for 6 of the flood control structures that make up this coastal flood protection system. The construction cost of each of these structures has ranged from \$12M - \$40M.</p>			


TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Kevan Keiser, PE – Civil Engineer
Project Assignment:
Drainage Design
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 nearly 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>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Mariann Alvarez, EI – Civil Engineer	
Project Assignment:	
H&H Modeling	
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 seven 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>UPPER TERREBONNE BASIN ENVIRONMENTAL ASSESSMENT – Upper Delta Soil & Water Conservation District, LA (2020-2021) 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>SOUTH WASTEWATER TREATMENT PLANT LEVEE REHABILITATION PROJECT STA. 76+00 THRU 111+21 - HOUMA, LA Ms. Alvarez assisted in the final design and bidding phases for the rehabilitation of approximately 3,500 linear feet of levee. She worked closely with Parish staff under the lead Engineer for the development of the project's contract documents. This project consisted of upgrading the existing levee to the proposed elevation of +8.0' NAVD 88. This levee rehabilitation project also included riprap protection at certain segments along the levee alignment, which were considered to be the most vulnerable in terms of wave action coming directly from Bayou Chauvin. Ms. Alvarez also assisted and helped supervise construction for this project in Houma, Louisiana.</p> <p>SOUTH WASTEWATER TREATMENT PLANT LEVEE REHABILITATION PROJECT AT CELLS 2&3 - HOUMA, LA Ms. Alvarez served as the Project Engineer for this levee rehabilitation project, working under close supervision by the Engineer of Record. She led the tasks necessary to carry out the project during the design, bidding, and construction phases. Ms. Alvarez also worked closely with the geotechnical firm subcontracted to perform the appropriate geotechnical analyses required for this project. This project consisted of the rehabilitation of approximately 1,797 linear feet of levee to a proposed elevation of +8.0' NAVD 88. This project also included concrete mats protection for erosion control installed at each levee side slope, in order to mitigate future damage to the levee. A 6-inch limestone road installed at the crown of the levee was also included in this project as to allow for vehicular access within the treatment plant.</p> <p>WARD 7 LEVEE IMPROVEMENT PROJECT - CHAUVIN, LA 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>	


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 16 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>Annual Bayside Breakwater Survey – Jefferson Parish, LA 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 – Jefferson Parish, LA 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 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:
Field Services
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>

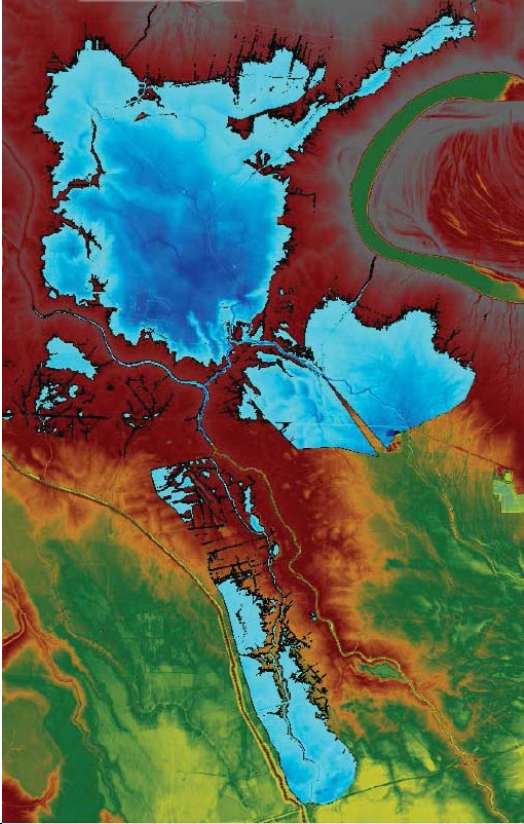
TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Gregory J. Plaisance, PLS – Land Surveyor	
Project Assignment:	
Field Services	
Name of Firm with which associated:	
GIS Engineering, LLC	
Years' experience with this Firm:	
With this firm: <u>2</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>	

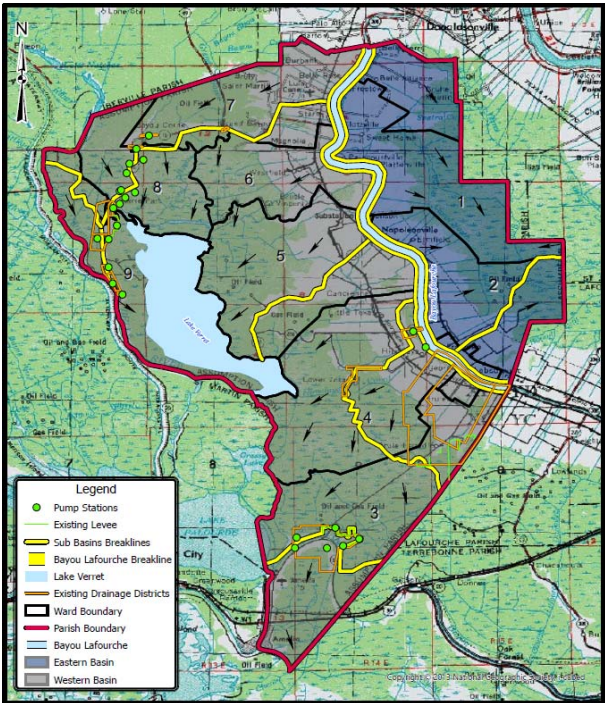
TEC Professional Services Questionnaire

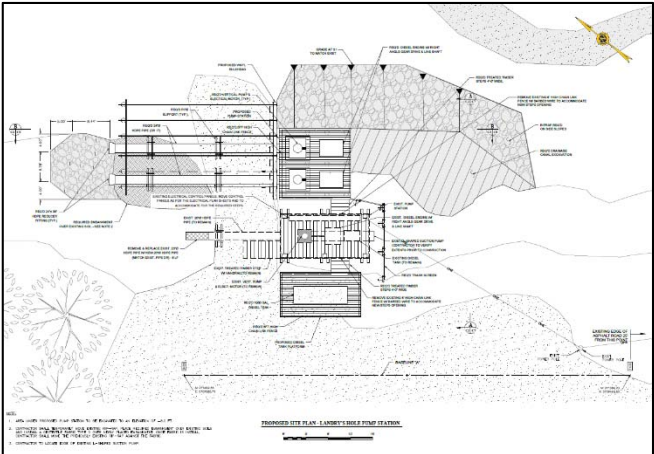
KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Evan Chaisson, PLS – Deputy Project Manager - Surveying	
Project Assignment:	
Field Services	
Name of Firm with which associated:	
GIS Engineering, LLC	
Years' experience with this Firm:	
With this firm: <u>1</u> With other firms: <u>10</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 ten 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>	

- 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: UPPER DELTA WATERSHED FEASIBILITY PLAN & EA <u>OWNER</u> Upper Delta Soil & Conservation District Andrew Price Gay, Jr. 225-718-1771 pgayloplanting@gmail.com	Nature of Firm's Responsibility: Project Summary: GIS prepared a Watershed Plan and Environmental Assessment that documents the need, feasibility and courses of action for drainage improvements in the Upper Terrebonne Basin. Project alternatives aimed to prevent damage from floodwater and erosion, to further the conservation, utilization, and development, promote conservation and proper utilization of land, and to address and identify natural resource concerns and opportunities within the study area. Planning-level preliminary engineering designs were also developed to accurately define and evaluate alternatives proposed in the Plan/EA for technical feasibility. The Plan/EA is intended to address the inadequate drainage for central/lower Pointe Coupee Parish and to flooding of homes, businesses, the rural highway system and farmland with no lateral drainage options, and to improve surface water quality in the project area. Since completing the Plan/EA, GIS is assisting the Client in securing a Finding of No Significant Impact from the Federal sponsor. GIS is also helping the Client pursue various funding sources for construction.	
	Estimated Cost:	
	Completion Date (Actual or Estimated) June 2022	Entire Project: \$330k (E)

TEC Professional Services Questionnaire



PROJECT NO. 2								
<p>Project Name, Location and Owner's contact information:</p> <p>ASSUMPTION PARISH DRAINAGE & FLOOD MITIGATION MASTER PLAN</p> <p><u>OWNER</u> Assumption Parish Police Jury Jeffery Naquin 985-526-8139 jeffnaquin@charter.net</p>	<p style="text-align: center;">Nature of Firm's Responsibility:</p> <p>Project Summary:</p> <p>GIS Engineering, LLC (GIS) was contracted by the Assumption Parish Police Jury (APPJ) to prepare a preliminary Drainage & Flood Mitigation Master Plan with the purpose of building a flood risk reduction plan to protect the local communities through a variety of drainage improvement projects. Funding for these projects will look at utilizing current and future parish funds to leverage any outside funding sources available, through State and Federal level grant programs, non-profit and/or private entities.</p> <p>Phase I of this effort was to build a flood risk reduction plan to protect the local communities, through a combination of levees, pump stations, and other drainage and flood mitigation improvement projects. Phase I included a review of existing projects & plans, development of drainage basins and study areas, defining Parish-wide drainage goals and possible funding sources, and to develop a list of preliminary projects to be included in the Drainage & Flood Mitigation Master Plan.</p> <p>Since the projects presented in this Phase I report are preliminary and based on desktop analyses, the projects will be supplemented by deeper engineering analyses and modeling in Phase II of this effort. Phase II will determine the feasibility of the proposed possible projects, cost-benefit ratios, and provide more accurate construction cost estimates.</p> <p>GIS has currently completed surveying and incorporating actual field data of water bodies, waterways, and levees/berms into a comprehensive H&H model for this effort. A 2D model will correlate with the USACE model and be truthed against NOAA and USGS Gauge Data for named storms and flood events. CPRA, USACE, and other existing and planned projects will also be added to this model prior to adding proposed projects.</p>							
								
<p style="text-align: center;">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;"> <tr> <td style="width: 33%; text-align: center; padding: 5px;">Entire Project:</td> <td style="width: 33%; text-align: center; padding: 5px;">Work for which Firm was Responsible:</td> <td style="width: 33%;"></td> </tr> <tr> <td style="text-align: center; padding: 5px;">\$360k (E)</td> <td style="text-align: center; padding: 5px;">Planning, H&H, modeling, Project Management</td> <td></td> </tr> </table>		Entire Project:	Work for which Firm was Responsible:		\$360k (E)	Planning, H&H, modeling, Project Management	
Entire Project:	Work for which Firm was Responsible:							
\$360k (E)	Planning, H&H, modeling, Project Management							

PROJECT NO. 3						
Project Name, Location and Owner's contact information: LANDRY'S HOLE AND CYPRESS LANE PUMP STATION EXPANSIONS OWNER Town of Grand Isle David Camardelle, Mayor 985-787-3196		Nature of Firm's Responsibility: Project Summary: 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.				
						
Completion Date (Actual or Estimated)		Estimated Cost:				
		<table border="1"> <tr> <td>Entire Project:</td> <td>Work for which Firm was Responsible:</td> </tr> <tr> <td>\$250k (E)</td> <td>Design & Construction Mgmt</td> </tr> </table>	Entire Project:	Work for which Firm was Responsible:	\$250k (E)	Design & Construction Mgmt
Entire Project:	Work for which Firm was Responsible:					
\$250k (E)	Design & Construction Mgmt					
Design Completed Feb. 2020 (A) Construction Pending						


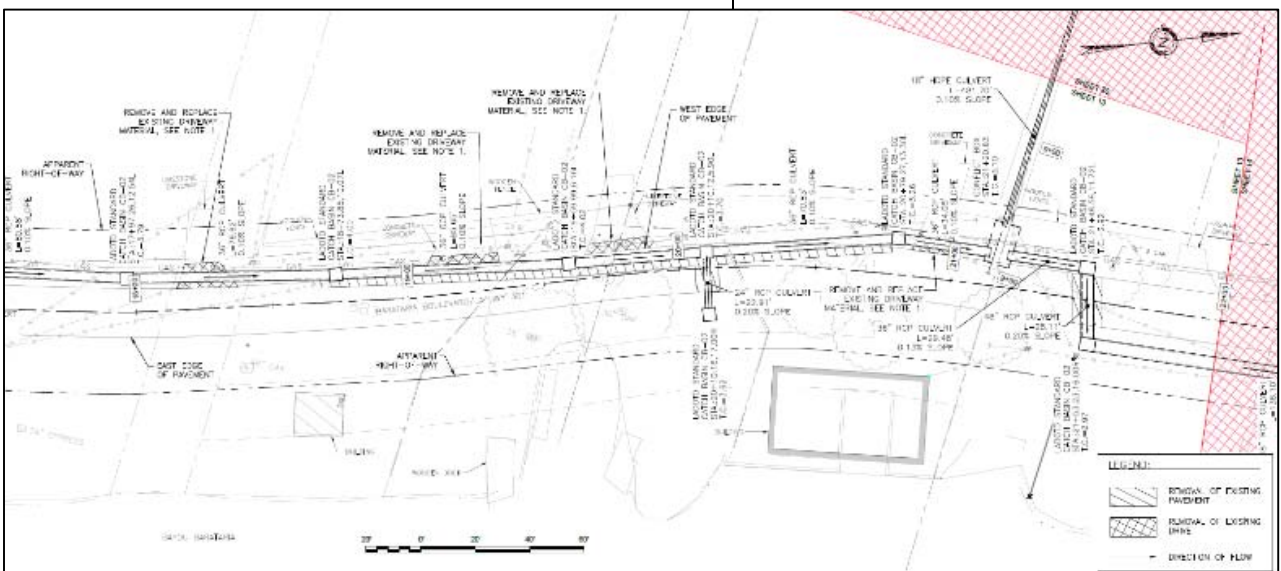
TEC Professional Services Questionnaire

PROJECT NO. 4		
<p>Project Name, Location and Owner's contact information: BAYOU TERREBONNE DRAINAGE & RESILIENCY PROJECT</p> <p><u>OWNER</u> Terrebonne Parish Consolidated Government Michael Toups 985-873-6735 mctoups@tpcg.org</p> <div style="text-align: center;">  </div>	<p>Nature of Firm's Responsibility: Project Summary:</p> <p>Terrebonne Parish Consolidated Government intends to install a pump station within the 1-1A forced drainage area in western Houma. The pump station will improve drainage conditions in 1-1A and in Bayou Terrebonne by supplementing Bonanza Pump Station, which pumps into Bayou Terrebonne. GIS Engineering performed an exhaustive analysis of Bayou Terrebonne's watershed between its headwaters at Thibodaux and its intersection with the GIWW. The extensive field investigation informed a detailed hydrologic and hydraulic model to define existing conditions and examine potential improvements. GIS Engineering evaluated multiple alternatives and determined that a pump station in Bayou Cane, coupled with new levees and a control structures, would be the most effective strategy.</p> <p>GIS completed final design of the proposed 400 CFS pump station in 2020 and is currently designing the proposed levees and control structures required to effectively manage excess runoff. GIS is also completing the required permit applications.</p>	
Completion Date (Actual or Estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
ONGOING	\$1,226k (E)	Drainage Study, Design

TEC Professional Services Questionnaire

PROJECT NO. 5	
<p>Project Name, Location and Owner's contact information:</p> <p>GRAND ISLE ENGINEERING SUPPORT</p> <p><u>OWNER</u> Town of Grand Isle, Grand Isle Independent Levee District David Camardelle, Mayor 985-787-3196</p> <div style="text-align: center;">  <p><i>GIS Construction Manager Joe Chauvin surveying breakwaters in Grand Isle.</i></p> </div>	<p>Nature of Firm's Responsibility:</p> <p>Project Summary:</p> <p>GIS Engineering manages all of the engineering needs for the Town of Grand Isle and the Grand Isle Independent Levee District. In this capacity, GIS has performed numerous tasks of various sizes, including:</p> <ul style="list-style-type: none"> Design of pump stations and drainage ditches. Development of a master plan for breakwaters and marsh restoration. Design and construction management of breakwaters. Annual monitoring surveys of breakwaters and levees. Management of facility repairs. Management of Federal grants. Permit applications. <p>Because of our work in Grand Isle, GIS is intimately familiar with drainage and flood protection needs on the Island.</p>
 <p><i>GIS managed design and construction of the Bayside Breakwaters Phase IV project, completed in 2020.</i></p>	

TEC Professional Services Questionnaire

PROJECT NO. 6						
Project Name, Location and Owner's contact information: JONES POINT – LA 301 DRAINAGE IMPROVEMENTS <u>OWNER</u> Lafitte Area Independent Levee District Tim Kerner, Jr. 504-689-2208 timkerner@townofjeanlafitte.com		Nature of Firm's Responsibility: 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 and preparing plats for servitude acquisition.				
						
Completion Date (Actual or Estimated) <div style="text-align: center; font-size: 1.2em;">ONGOING</div>		<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #FFD700;"> <th colspan="2" style="text-align: center; padding: 5px;">Estimated Cost:</th> </tr> </thead> <tbody> <tr> <td style="width: 50%; padding: 5px;"> Entire Project: <div style="text-align: center; font-size: 1.2em;">\$1,444k</div> </td> <td style="width: 50%; padding: 5px;"> Work for which Firm was Responsible: H&H Modeling, Design & Construction Mgmt </td> </tr> </tbody> </table>	Estimated Cost:		Entire Project: <div style="text-align: center; font-size: 1.2em;">\$1,444k</div>	Work for which Firm was Responsible: H&H Modeling, Design & Construction Mgmt
Estimated Cost:						
Entire Project: <div style="text-align: center; font-size: 1.2em;">\$1,444k</div>	Work for which Firm was Responsible: H&H Modeling, Design & Construction Mgmt					

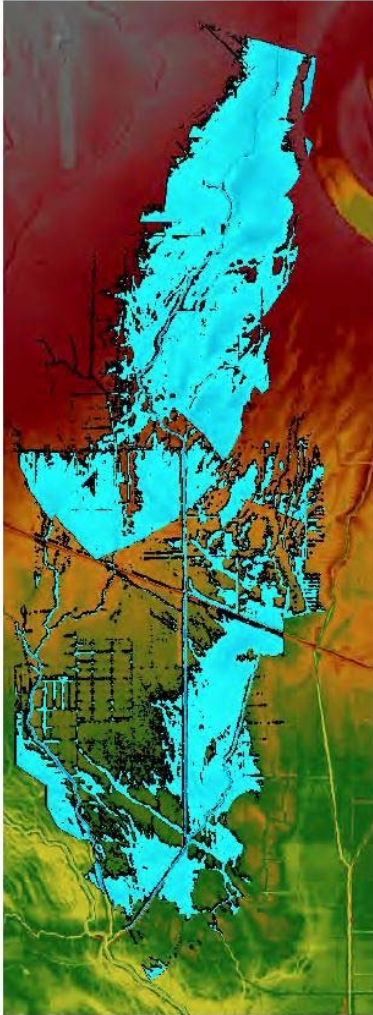
PROJECT NO. 7

TEC Professional Services Questionnaire

Project Name, Location and Owner's contact information: BAYOU BLACK PUMP STATIONS <u>OWNER</u> Terrebonne Parish Consolidated Government Michael Toups 985-873-6735 mctoups@tpcg.org		Nature of Firm's Responsibility: Project Summary: GIS Engineering is helping Terrebonne Parish realize a decades-old plan for drainage improvements the Chacahoula-Gibson basin. Since the early 1980s, the US Army Corps of Engineers has recommended 3,000 CFS of pumping capacity from Bayou Black to handle runoff when existing flood gates must be closed due to backwater flooding from the Atchafalaya River or storm surges. GIS developed a plan to construction three 1,000 CFS pump stations to accommodate funding limitations and fit the hydraulic capacities of existing canals. GIS has designed and secured permits for two of these pump stations. Construction for the Hanson Canal Pump Station is nearly complete, and the Elliot Jones Pump Station will be advertised for bids in 2021. GIS is working with the Parish and Federal funding agencies to advance design and permitting for the Geraldine Pump Station.	
			
Completion Date (Actual or Estimated) ONGOING		Estimated Cost:	
		Entire Project: \$35M	Work for which Firm was Responsible: Surveying, Design, Permitting, Construction Mgmt

PROJECT NO. 8	
Project Name, Location and Owner's	Nature of Firm's Responsibility:

TEC Professional Services Questionnaire

contact information: WEST BATON ROUGE STUMPY BAYOU DRAINAGE CONVEYANCE OWNER West Baton Rouge Parish Government Kevin Durbin 225-336-2434 Kevin.durbin@wbrcouncil.org	Project Summary: GIS provided drone video inspection, traditional survey, channel surveys, H&H modeling, and engineering and design of approximately 13 miles of existing bayous and drainage laterals in the northern portion of West Baton Rouge Parish to find existing obstructions and deficiencies within the watershed in compliance with HMGP program requirements. The Bayou Stumpy watershed has been the site of numerous repetitive losses in West Baton Rouge Parish. GIS completed a detailed benefit-cost analysis as required by FEMA and GOHSEP, followed by completion of stamped plans and specifications in Dec 2020. <ul style="list-style-type: none"> ○ Topographical, hydrographic and boundary surveying ○ Hydrologic and hydraulic studies, reports and calculations ○ Engineering construction plans for identified areas of improvement ○ Obtaining all necessary federal, state and local permits and/or letters of no objection ○ Preparation of a Phase II (construction phase) benefit cost analysis ○ Phase II (construction) proposed Scope of Work (SOW) & budget estimate ○ Coordination of right-of-way and/or servitude identification for necessary 				
					
Completion Date (Actual or Estimated) ONGOING	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">Estimated Cost:</th> </tr> <tr> <td style="width: 50%; text-align: center; padding: 5px;"> Entire Project: \$220k (E) </td> <td style="width: 50%; text-align: center; padding: 5px;"> Work for which Firm was Responsible: H&H Modeling, Design & Construction Mgmt </td> </tr> </table>	Estimated Cost:		Entire Project: \$220k (E)	Work for which Firm was Responsible: H&H Modeling, Design & Construction Mgmt
Estimated Cost:					
Entire Project: \$220k (E)	Work for which Firm was Responsible: H&H Modeling, Design & Construction Mgmt				

PROJECT NO. 9	
Project Name, Location and Owner's contact	Nature of Firm's Responsibility:

TEC Professional Services Questionnaire

information: PETIT CAILLOU DRAINAGE & RESILIENCY PROJECT <u>OWNER</u> Terrebonne Parish Consolidated Government Michael Toups 985-873-6735 mctoups@tpcg.org		Project Summary: Terrebonne Parish Consolidated Government (TPCG) is constructing a new pump station to the Petit Caillou Basin that will pump into Lake Boudreaux to reduce flooding. Levees and floodgates protect Petit Caillou Basin from flooding during storm surge events, but they do not allow runoff to escape the system, resulting in flooding from rainfall events. The pump station will maintain safe water surface elevations in the basin when floodgates are closed. TPCG is installing a feeder/conveyance channel along with reinforced concrete box culverts under La. Hwy 56. This channel will convey water to the pump station currently under construction in the ROW of the Ward 7 Levee System. The pump station consists of four (4) 48" pumps and four (4) discharge pipes with a protective trash screen. GIS provided topographic and hydro-survey services required for the design of the proposed pump station. GIS also provided structure elevations surveys for representative areas within the Lower Little Caillou Watershed that contained approximately 1,500 structures as part of the H&H study required to complete the Justification Report to determine the number of structures that will be affected within the watershed (residential & commercial) (2, 5, 10, 25 and 100-year storm events) for a FEMA grant and approval. GIS completed the design, managed bidding and contracting, and is currently managing construction on TPCG's behalf.	
 			
Completion Date (Actual or Estimated)		Estimated Cost:	
ONGOING		Entire Project:	Work for which Firm was Responsible:
ONGOING		\$1,376k (E)	Design & Construction Mgmt

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

TEC Professional Services Questionnaire

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 engineering divisions, Coastal Design & Infrastructure and Industrial, with branch offices in New Orleans, Houma, Thibodaux, Napoleonville, Galliano, and Baton Rouge. 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 through our relationships with the USACE, CPRA, and local officials.

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 12 years of experience delivering civil engineering designs and studies in south Louisiana and adding value for his clients. Mr. Galloway has performed watershed studies and drainage designs for local clients including the Town of Grand Isle, the City of New Orleans, the Sewerage and Water Board of New Orleans, West Baton Rouge, Terrebonne, and St Charles Parishes. 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 16 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 Grand Isle's drainage challenges and needs is unparalleled.

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, feasibility studies, environmental assessments, design and engineering, permitting, and construction management for public clients has readied us to deliver value for Jefferson Parish.

TEC Professional Services Questionnaire

CRITERION NO. 2: 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 seven additional staff to strengthen our bench should our workload increase. This extra staff provides ample capacity to complete surveying with unmanned vessels, drones, and other state of the art equipment to gather existing data and inventory for H&H modeling and watershed planning. We are committed to continue growing our staff to exceed client expectations and deliver quality products in a timely manner to our clients.

CRITERION NO. 3: 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, Thibodaux, Napoleonville, and Galliano will support our New Orleans staff as needed. **All 174 GIS Engineering employees live and work in South Louisiana. Eighteen (18) of the twenty-eight (28) GIS employees located in the New Orleans office RESIDE IN JEFFERSON PARISH.** GIS has participated in the Jefferson Parish Volunteer TreeCycling Day for the last few years! JP is where we call home!

CRITERION NO. 4: ADVERSARIAL LEGAL PROCEEDING BETWEEN THE PARISH AND FIRM

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

CRITERION NO. 5: PRIOR SUCCESSFUL COMPLETION OF SIMILAR PROJECTS

As illustrated in the resumes and project descriptions within this questionnaire, GIS has a successful track record of delivering construction bid packages for drainage projects of various sizes and performing construction administration and inspection on behalf of clients. GIS is the preferred designer for drainage pump stations in Terrebonne Parish; one of these pump stations (1500 CFS) have been successfully constructed and three more are ready for bid. Our staff also has significant experience with drainage projects in Jefferson Parish, both with GIS and with previous employers.

GIS Staff Experience on Drainage 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
- Ricky Templet, Councilman, District 1, Jefferson Parish: rickytemplet@jeffparish.net
- Chett Chiasson, Executive Director, Port Fourchon: chettc@portfourchon.com
- Gordon Dove, President, Terrebonne Parish: gdove@tpcg.org

"In my time as Parish President, GIS has demonstrated the ability to continuously perform above our expectations on projects that we have hired them to facilitate. Every time my administration has request expedited turnarounds or changes to projects, GIS's team has delivered. GIS and its staff has been one of the most professional and responsive engineering firms I have worked with."

Gordon E. Dove, Parish President - Terrebonne Parish Consolidated Government.

CRITERION NO. 6: 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 15 Professional Civil Engineers, 19 Engineer Interns, 14 design technicians, 10 CAD operators, 12 construction inspectors, and all of the necessary support staff required to successfully complete this Drainage Master Plan for the East Bank of Jefferson Parish.

CRITERION NO. 7: PAST PERFORMANCE ON PARISH CONTRACTS

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

- | | |
|--|---|
| <ul style="list-style-type: none"> ➤ Jefferson Parish Comprehensive Coastal Plan – 1992, 2002, 2015 ➤ Northeast Turtle Bay Marsh Creation and Critical Shoreline Protection ➤ Barataria Bay Waterway West Side Shoreline Protection | <ul style="list-style-type: none"> ➤ 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 |
|--|---|

Many of our key staff also have experience with successful delivery for Jefferson Parish, as shown on their resumes in this proposal.


MINIMUM REQUIRED QUALIFICATIONS

1. Principal who is a professional civil engineer –Dustin Malbrough, PE, is 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 inclusive of water resources and drainage watershed planning.

3. Professional engineer licensed in Louisiana – Agustin Rega, PE, is a Louisiana licensed Professional Engineer with over 10 years of experience performing Public Works projects related to drainage, flood control, drainage and flood mitigation master plans, and has performed over a dozen projects in Jefferson Parish. 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: <u>Dustin Malbrough, PE</u>
Title: <u>President</u>	Date: <u>03/23/2022</u>