Professional Engineering Services:

Sala Avenue Historic District Drainage Feasibility Analysis and Improvements

SOQ No. 25-005

JEFFERSON PARISH
STATE OF LOUISIANA

VOLKERT

1925 100 2025

Volkert, Inc.
4141 Bienville St Suite 102
New Orleans, LA 70119
504.488.8002
www.volkert.com

February 07, 2025

Jefferson Parish Purchasing Department
c/o Mark Buttery, Purchasing Specialist
200 Derbigny Street, Suite 4400
Gretna, LA 70053

RE: STATEMENT OF QUALIFICATIONS TO PROVIDE PROFESSIONAL ENGINEERING SERVICES FOR THE SALA AVENUE HISTORIC DISTRICT DRAINAGE FEASIBILITY ANALYSIS AND IMPROVEMENTS SOQ NO. 25-005; RESOLUTION NO. 145576

Dear Selection Committee:

Volkert is pleased to submit our extensive qualifications to provide professional engineering services for the Sala Avenue Historic District drainage feasibility analysis and improvements project for Jefferson Parish. Volkert has been a consistent reliable partner with the Parish on a variety of projects and looks forward to serving the Parish through this contract selection.

Within Volkert's 100-year history, Volkert's 1,400 employees have developed the firm's pedigree as a multi-discipline engineering and environmental firm, providing services to state and federal agencies, local and municipal governments and private industry clients throughout Louisiana. As shown in the project experience section, Volkert provides services to our clients on many projects of similar size and scope.

Volkert's principal strengths are its long history of successfully completed drainage feasibility analysis, streetscaping, and drainage improvement projects. Volkert has prepared hundreds of streetscape and drainage improvement projects for our clients. Volkert has provided professional services for roadway design, bridge design, construction engineering and inspection, corridor studies, traffic engineering, lighting design, environmental engineering, complete street design, surveying, and real estate/right-of-way services. Our experience ranges from study and design to construction support for bridge rehabilitation while providing cost effective solutions to meet a variety of needs.

For this contract, Volkert will serve as the Prime Consultant and will augument our team with **Eustis Engineering, LLC,** a Small Business Enterprise (SBE) and HUD Initiative Certified partner to assist with materials testing and geotechnical engineering services, as required and **Dana Brown & Associates, Inc**. to assist with landscape architecture services, as required.

I am authorized to bind the company under this contract and look forward to discussing this opportunity in greater detail. You can reach me at jan.evans@volkert.com or 225.270.1454.

Sincerely,
VOLKERT, INC.

Janet L. Evans Digitally signed by Janet L. Evans
Date: 2025.01.22 13:10:20 -06'00'

Janet L. Evans, PE, MBA
Vice President

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

SOQ No. 25-005-Provide Professional Engineering Services for the Sala Avenue Historic District Drainage Feasibility Analysis and Improvements Project

B. Firm Name & Address:

Volkert, Inc.
4141 Bienville Street Suite 102
New Orleans, LA 70119

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:

Janet L. Evans, PE, MBA | LA PE No. 21307
Vice President
(225) 270-1454
jan.evans@volkert.com
9448 Brookline Avenue, Baton Rouge, LA 70809

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.

Janet L. Evans, PE, MBA | LA PE No. 21307
Vice President
(225) 270-1454
jan.evans@volkert.com
9448 Brookline Avenue,
Baton Rouge, LA 70809

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

2 Administrative	___ Estimators	___ Specification Writers
___ Architects (Licensed)	___ Geologists	5 Structural Engineers
___ Chemical Engineers	___ Geotechnical Engineers	___ Graduate Engineers
22 Civil Engineers	___ Interior Designers	___ Project Managers
31 Construction Inspectors	___ Landscape Architects	4 Clerical
___ Ecologists	10 Land Surveyor	1 Grant/Funding Specialist
1 Electrical Engineers	2 Mechanical Engineers	___ Sanitary Engineers
4 Engineer Intern	___ Environmental Engineers	
2 Professional Land Surveyors		**83 TOTAL**

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

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

TEC Professional Services Questionnaire

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

1.
N/A

2.

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

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

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. Eustis Engineering, LLC 3011 28th Street Metairie, LA 70002301 LA 70002	Geotechnical and Materials Testing	Yes
2. Dana Brown & Associates, Inc. 1836 Valence Street New Orleans, LA 70115836 Valence Street New Orleans, LA 70115	Landscape Architecturecture	Yess
3.		

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

45

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Janet L. Evans, PE, MBA Vice President
Project Assignment:
Principal-in-Charge
Name of Firm with which associated:
VOLKERT
Years' experience with this Firm:
17
Education: Degree(s)/Year/Specialization:
MBA, 1986, Business Administration BS, 1980, Civil Engineering
Active registration: Year first registered/discipline:
LA PE #21307, 1984, Civil
Other experience and qualifications relevant to the proposed Project:
Ms. Evans has over 42 years of project management and design experience, almost entirely on Louisiana projects, as well as experience in highway construction. Over the course of her career, she has worked extensively with the Louisiana Department of Transportation and Development in addition to municipalities, parishes, airports, and seaports across the state. Fourteen years ago, she joined Volkert, which was founded in New Orleans in 1925, and has reestablished the firm as one of the state's leading consultants. She now leads a growing team of professionals in multiple disciplines in six different offices across the state for Volkert.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Jonathan Gambino, PE, PTOE, RSP1 Civil Engineer
Project Assignment:
Project Manager - Operations Manager
Name of Firm with which associated:
VOLKERT
Years' experience with this Firm:
4
Education: Degree(s)/Year/Specialization:
BS, 2012, Civil Engineering
Active registration: Year first registered/discipline:
LA PE #41496, 2017, Civil Engineering
Other experience and qualifications relevant to the proposed Project:
Mr. Gambino joined Volkert in 2020 and has 11 years of experience developing civil and traffic engineering plans, specifications and studies. This includes identifying and adhering to applicable state policies and procedures for project plan development. His experience includes the use of MicroStation, InRoads, AASHTOWare Project, VISSIM, Vistro, Synchro plus SimTraffic, Sidra Intersection, HCS, Tru-Traffic, AutoCAD, ACAD Civil 3D, CORSIM, TEAPAC, and TS/PP Draft programs. He is an ITE PTOE (#4433) and has obtained his ATSSA Flagger certification.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Randy Denmon, PE, PLS Professional Land Surveyor/Hydraulic Engineer
Project Assignment:
Surveyor/Hydraulic Engineer
Name of Firm with which associated:
VOLKERT
Years' experience with this Firm:
32
Education: Degree(s)/Year/Specialization:
MS, 1996, Civil Engineering BS, 1991, Mathematics
Active registration: Year first registered/discipline:
LA PE #29390, 2001, Civil LA PLS #4798, 1996, Survey
Other experience and qualifications relevant to the proposed Project:
Mr. Denmon has over 32 years' experience in civil engineering/construction management and land surveying, primarily as a Public Works and Flood Control Engineer. Mr. Denmon is a registered Civil Engineer and Surveyor in the State of Louisiana. Mr. Denmon has vast experience working on Water Resource, Flood Control, and Transportation projects, as well as Surveying.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Ashley Beckendorf, PE Civil Engineer
Project Assignment:
Project Engineer
Name of Firm with which associated:
VOLKERT
Years' experience with this Firm:
11
Education: Degree(s)/Year/Specialization:
BS, 2008, Civil Engineering
Active registration: Year first registered/discipline:
LA PE #37334, 2012, Civil Engineering
Other experience and qualifications relevant to the proposed Project:
Ms. Beckendorf has 17 years of design and engineering experience and expertise in delivering complex drainage, infrastructure, open space, and capital projects for government clients. She has specialized in sewer infrastructure design, site development, and roadway engineering. She has worked on the East Baton Rouge Greenlight Program and East Baton Rouge Parish Sanitary Sewer Overflow Program, beginning from the preliminary stages to design and on through construction. She has also worked on several site developments, roadway plans, and airport plans. She has managed complex projects with all aspects of engineering including geotechnical, surveying, environmental, real estate, utilities, traffic, lighting, drainage, bridge, and roadway design.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Ryan Ordeneaux, PE Civil Engineer
Project Assignment:
Project Engineer/Hydraulic Analysis
Name of Firm with which associated:
VOLKERT
Years' experience with this Firm:
7
Education: Degree(s)/Year/Specialization:
BS, 2003, Civil Engineering
Active registration: Year first registered/discipline:
LA PE #39476, 2015, Civil Engineering
Other experience and qualifications relevant to the proposed Project:
Mr. Ordeneaux has engineered a variety of projects over his 23 year career including roadway design, bridge replacements, and aviation design. This includes interstates, highway, and local roadway design; traffic control plan development; hydraulic improvements; and drainage and sewer improvement projects throughout Louisiana. He has served as a project estimator with project management and inspection experience.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Clinton Patrick, PE, PLS Civil Engineer/Surveyor
Project Assignment:
Project Engineer/Surveyor/Hydraulic Analysis
Name of Firm with which associated:
VOLKERT
Years' experience with this Firm:
8
Education: Degree(s)/Year/Specialization:
BS, 2012, Civil Engineering
Active registration: Year first registered/discipline:
LA PE #40919, 2016, Civil Engineering LA PLS #5311, 2023, Surveyor
Other experience and qualifications relevant to the proposed Project:
Mr. Patrick has 11 years' experience. His skills include Team & Project Management, Relationship Building, Critical Analysis, Strategic Planning, Delegation, Budgeting, HEC-RAS, Autodesk Storm & Sanitary Sewer Analysis, MicroStation, AutoCAD Civil 3D. His certifications include: Class IV Wastewater Operator (Treatment & Collection).

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Courtney Cambre Construction Inspector
Project Assignment:
Inspector
Name of Firm with which associated:
VOLKERT
Years' experience with this Firm:
17
Education: Degree(s)/Year/Specialization:
BS, 2002, Kinesiology
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
Mr. Cambre joined Volkert in 2008 and serves as Construction Inspector for Louisiana based roadway and bridge projects. Mr. Cambre has greater than 5 years of entering data into DOTD's Site Manager system. This includes data for daily reports, scanning documents into the construction document upload files, LIMS data and Site Manager Materials.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Steven Lengefeld Survey Manager
Project Assignment:
Survey Manager
Name of Firm with which associated:
VOLKERT
Years' experience with this Firm:
24
Education: Degree(s)/Year/Specialization:
Certificate, 1992, Drafting & Design Technology
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
For the past 24 years, Mr. Lengefeld has been actively engaged in the field of survey. He does the processing of survey data, cost estimates, & drafting, especially as it relates to property plats, easements and rights of way. Mr. Lengefeld has used several Cad platforms and various design packages, such as Microstation V8i, Autocad 2018 & 2021, Inroads V8i, Softdesk & Civil 3D and Trimble software to process survey data and produce property plats and other drawings as it pertains to survey. He also writes legals for property plats. He works with the project managers and engineers to provide quality survey that is needed for their projects. Mr. Lengefeld's responsibilities include preparation of preliminary and final plats and legals. He manages the scheduling of five survey crews and does all the purchasing of equipment and survey supplies. He is in contact with clients as it relates to surveying and communicates with each survey crew on a daily basis for direction of each day.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Bryan Ardoin Party Chief
Project Assignment:
Party Chief
Name of Firm with which associated:
VOLKERT
Years' experience with this Firm:
3
Education: Degree(s)/Year/Specialization:
N/A
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
Mr. Ardoin joined Volkert in 2021 and brings over nine years of surveying experience, including six years as a Party Chief and three years as an Instrument Person. His expertise spans a wide range of projects, including right-of-way, boundary, and topographic surveys for infrastructure, utility, and energy projects. Notable assignments include bridge surveys for the Louisiana DOTD, gas line relocation surveys for Atmos Energy, and levee and watershed surveys for the Fifth Louisiana Levee District. He has also led surveys for major roadway and solar energy projects, as well as campus infrastructure improvements for Louisiana Tech University. With a proven track record of delivering precise and efficient results, Mr. Ardoin is a trusted leader in the field of surveying.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Benny Fox Rod Person
Project Assignment:
Rod Person
Name of Firm with which associated:
VOLKERT
Years' experience with this Firm:
2
Education: Degree(s)/Year/Specialization:
N/A
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
Mr. Fox joined Volkert in 2022 and has over a year of experience in surveying. His project portfolio includes diverse surveying assignments across Arkansas, Louisiana, and beyond. Key projects include right-of-way and construction staking for AEP, topographic surveys for city infrastructure in Little Rock, and gas line relocation surveys for Atmos Energy. He has also contributed to levee surveys for the Fifth Louisiana Levee District, solar project surveys in Sabine Parish, and campus surveys for Louisiana Tech University. Mr. Fox's technical expertise extends to stream and bridge surveys for watershed projects with HEC-RAS modeling support. His dedication and precision make him a valuable asset in delivering comprehensive surveying solutions.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Perry LeBlanc CADD Technician
Project Assignment:
CADD Technician
Name of Firm with which associated:
VOLKERT
Years' experience with this Firm:
8
Education: Degree(s)/Year/Specialization:
AS, 1998, Drafting & Design Technology
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
Mr. LeBlanc joined Volkert's Baton Rouge office in 2016, bringing with him 18 years of experience in design and as a CADD instructor. He specializes in CADD design for engineering projects, particularly for airports and transportation infrastructure, with expertise in generating detailed 3D models. His notable projects include the Causeway Segmented Shoulder Bay Improvements on the Lake Pontchartrain Bridge, the Plank Road Realignment in East Baton Rouge Parish, and multiple roundabout developments in Ascension Parish. Additionally, he has contributed to major roadway replacement projects in New Orleans, providing design and layout support for comprehensive infrastructure upgrades. Mr. LeBlanc's technical proficiency and dedication to excellence make him a vital contributor to complex engineering projects.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Robyn Tate CADD Technician
Project Assignment:
CADD Technician
Name of Firm with which associated:
VOLKERT
Years' experience with this Firm:
>1
Education: Degree(s)/Year/Specialization:
BS, 2022, Civil Engineering
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
Ms. Tate joined Volkert in 2024 with 2 years of experience in transportation infrastructure design and compliance. She has expertise in TxDOT standards, SW3P plan sheets, and stormwater pollution plans; proficient in AutoTurn software for traffic improvement designs. Experience includes development of cost estimates for roadway projects, ensuring alignment with environmental and municipal regulations.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
John Alikhani CADD Technician
Project Assignment:
CADD Technician
Name of Firm with which associated:
VOLKERT
Years' experience with this Firm:
2
Education: Degree(s)/Year/Specialization:
BS, 2022, Civil Engineering
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
Mr. Alikhani joined Volkert in 2023 as an intern in the Baton Rouge office, where he provides civil engineering support across a range of projects, including document control. He has contributed to major infrastructure initiatives, including the relocation and redesign of Plank Road in East Baton Rouge Parish, the City of Natchitoches Comprehensive Safety Action Plan under the Safe Streets for All program, and the Filmore North project in New Orleans. His experience spans roadway design, ROW acquisition, complete streets implementation, stormwater management, and infrastructure upgrades, reflecting a commitment to improving safety, sustainability, and accessibility in Louisiana's communities.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Parker Scheuermann, EI Engineer Intern
Project Assignment:
Engineer Intern
Name of Firm with which associated:
VOLKERT
Years' experience with this Firm:
5
Education: Degree(s)/Year/Specialization:
BS, Civil Engineering, 2020
Active registration: Year first registered/discipline:
LA EI #34581, 2020, Civil Engineering
Other experience and qualifications relevant to the proposed Project:
Mr. Scheuermann joined Volkert 2020 after earning his degree in Civil Engineering. He provides civil engineering support, document control on a variety of projects in our Baton Rouge office, using Civil 3D for the geometric design and layout of two roundabouts on Louisiana state highways, and the widening of an US Hwy 71 in Bossier City to allow to allow for the inclusion of turn lanes. He helped design the profiles for the numerous retaining walls along IH-35 and its surrounding frontage roads. He used MicroStation to help create multiple alternative concepts for the Calcasieu River Bridge PPP project, including the design of an elevated Diverging Diamond Intersection. Parker made weekly field visits to check on and report construction progress and assist in answering any questions or concerns the contractor might have had on the Plank Rd. reroute. He has assisted in creating construction cost estimates and checking as-built quantities for multiple clients across Louisiana including the LADOTD, New Orleans Sewage and Water Board, and New Orleans DPW. He also aided in the creation of survey CAD files and sheets for the LWI Region 2.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Trey Pecoraro, EI Engineer Intern
Project Assignment:
Engineer Intern
Name of Firm with which associated:
VOLKERT
Years' experience with this Firm:
2
Education: Degree(s)/Year/Specialization:
BS, 2022, Civil Engineering
Active registration: Year first registered/discipline:
LA EI #35212, 2022, Civil Engineering
Other experience and qualifications relevant to the proposed Project:
Mr. Pecoraro serves as an Engineering Intern for Volkert's New Orleans practice and has 2 years of experience in both construction and design for several projects in Louisiana including: bridge construction, in-service bridge inspection, roadway construction, retaining wall construction, traffic studies/ analyses, and safe street action plans. His responsibilities have included: project management, construction engineering and inspection, traffic count analysis, crash data analysis, quality control, and bridge inspection.

TEC Professional Services Questionnaire

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

PROJECT NO. 1

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Integrated Stormwater Management Plan **Jefferson Parish, LA** **Contact Information:** Jefferson Parish, Juliette Cassagne 1221 Elmwood Park Boulevard, Suite 403 Jefferson, LA 70123 (504) 736-6337	Volkert was selected to develop an integrated stormwater management and green infrastructure plan for Jefferson Parish, Louisiana, as part of their Parish Master Plan. The firm evaluated local, state, and federal plans to understand current practices and regulations for low-impact development, stormwater management, and related issues. They conducted public outreach to gather community input, completed a parking study to recommend shared parking solutions, and analyzed stormwater data to identify flooding hotspots and corrective measures. Additionally, they assessed soil characteristics to enhance best practices, compared coastal community strategies for stormwater and low-impact development, and proposed updates to Parish ordinances to improve stormwater management, shared parking, and sustainable infrastructure practices.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2021	N/A	$125,967

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Engineers Canal Pump Station **St. Charles Parish, LA** **Contact Information:** St. Charles Parish, Andre Ford 15045 River Rd, Hahnville, LA 70057 (985) 783-5000; aford@stcharlesgov.net	The goal of the project is to upgrade an existing pump station to at least 250 cfs from the existing 150 cfs pumping capacity. The project is being funding through the CMAR process allowing for an alternative delivery of the project. The Parish has a contractor on board as well as and independent cost estimator to assist with reviewing the project at 30, 60 & 90% prior to the final design plans. Volkert's role is lead designer and assisting with the CMAR process.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2026 (est.)	$592,020	$592,020

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility**	
Muddy Creek Drainage Improvements **Ascension Parish, LA** **Contact Information:** Ascension Parish, Ken Dawson 615 E. Worthey Street Gonzales, LA 70737 (225) 450-1136; kdawson@apgov.us	Volkert was contracted by the East Ascension Consolidated Gravity Drainage District I to provide field surveys, engineering studies, preliminary design, cost estimates, and environmental studies to model the floodplain impacts of various design year floods. Alternative methods and costs associated with improvements and control structures to protect the safety, welfare, and property of residents and businesses within the approximately 3,800-acre Muddy Creek drainage basin were determined. A hydrodynamic model of the drainage basin was created using the UASCE River Analysis System, HEC-RAS. The model was calibrated based upon known high-water marks, flood events, and gage station data. A simulation of the precipitation runoff process for the basin was developed using the Hydrologic Modeling System, HEC-HMS. The primary purpose of the model is to provide the area of inundation from a 10-year storm event on Muddy Creek. This will allow Volkert to identify inadequate drainage structures, as well as areas that are prone to flooding. Design alternatives which were evaluated included levee sections, flood gates, pump stations, and channel improvements.	
Completion Date (Actual or estimated)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2016	$362,000	$362,000

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Filmore South Groups B-C, Filmore North Group D **New Orleans, LA** **Contact Information:** City of New Orleans, Khalid Saleh 1300 Perdido Street, Rm 6W03 New Orleans, LA 70112 (504) 658-4000; khsaleh@nola.gov	The City created the Filmore Road Recovery project to restore the area's aging infrastructure and includes most area streets for various type of improvement including full reconstruction, concrete panel replacement, patch/mill/overlay (resurfacing of asphalt streets) drainage, water and sewer replacement and sidewalk repairs over 80 blocks in the Filmore South Group area. Mr. Ordeneaux served as Project Manager for the construction phase services for Filmore South Group B, and preliminary and final design services for Filmore South Group C and Filmore North Group D. Filmore South Group B (RR043) – Construction has completed on approximately 3,500 linear feet of full pavement replacement of several local streets including significant sections of Cartier Avenue and Owens Boulevard, including all new pavement, sidewalks, ADA handicapped ramps, new water lines, new sewer lines, lining of sewer services laterals, and new drainage lines, as well as incorporation of the outfalls from the adjacent Mirabeau Garden stormwater management and green infrastructure project, and special consideration of pavements near aged oak trees. Filmore South Group C (RR044) – Design completed, and we are entering the bidding phase for the project, and it will consist of approximately 5,400 linear feet full pavement replacement of several local streets including Seville, Granada and Bancroft in the Filmore Group area north of Mirabeau Avenue. This will also include all new pavement, sidewalks, ADA handicapped ramps, new water lines, new sewer lines, lining of sewer services laterals, and new drainage lines, keeping in mind the recommendations of the Mirabeau Gardens stormwater management and green infrastructure project, as well as special consideration of pavements near aged oak trees. ˜Filmore North Group D (RR040) – Design is nearing completion will consist of over 5,000 linear feet full pavement replacement of several local streets including Mithra St., Crescent Dr., Chamberlain Dr and Pratt Dr. This will also include all new pavement, sidewalks, ADA handicapped ramps, new water lines, new sewer lines, lining of sewer services laterals, and new drainage lines, keeping in mind the recommendations of the Mirabeau Gardens stormwater management and green infrastructure project, as well as special consideration of pavements near aged oak trees.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
Ongoing	$1,850,000	$1,850,000

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Demo Basins C-7 & C-8 **New Orleans, LA** **Contact Information:** Sewerage & Water Board of New Orleans, Frank C. Fromherz II, PE 625 St Joseph Street New Orleans, LA 70165 (504) 865-0442	The Sewerage and Water Board of New Orleans' Carrollton Water Treatment Plant is in Orleans Parish at 8800 Claiborne Ave. The water plant is over 100 years old and provides water purification and power generation for the City of New Orleans. Volkert is tasked with several items which are needed to provide a future footprint for an Entergy 60 Hertz substation, an additional power turbine and a frequency converter (25 hertz - 60 Hertz in each direction) which when completed will allow for providing reliable energy to the extensive pumping system of the city. Funding is from Facility Planning and Control through the capital outlay process for this estimated $6.2 million-dollar project went to bid in July of 2020. The primary intent of project is to reclaim abandoned unused contact basins and returning the area to original grade for re-development as the site of the electrical substation, frequency conversion and related SWBNO electrical distribution system facilities. Volkert was tasked with the Demolition of C-7 and C-8 while preserving the active stilling basins which are adjacent and part of the existing water purification process. Services included civil, electrical, and mechanical design in addition to the ground water and drainage analysis. To meet the City of New Orleans Guidelines for stormwater management, the site was designed to include two subsurface stormwater detention beds. The combined total volume of the two beds is approximately 31.5k cubic feet. The beds were designed to store the stormwater runoff and limit the outflow to approximately 1300 gpm. The site's fill material was chosen for its lightweight and desired infiltration rate. The fill material allows the stormwater to infiltrate into the beds without the need for additional subsurface piping for inflow into the system.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2021	$1,480,000	$714,702

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Hawthorne Hollow Bridge Replacement **St. Tammany Parish, LA** **Contact Information::** St. Tammany Parish, Jason Cambre 21490 Koop Dr. Mandeville, LA 70471 (985) 898-2700; jpcambre@stpgov.org	Volkert was contracted to provide preliminary and final construction plans to produce bid documents to replace the bridge at Hawthorne Hollow Drive. Volkert has provided management and review of the surveying services and geotechnical services, a hydraulic model and a drainage analysis in conjunction with the preliminary plans for a box culvert to replace the bridge. Volkert has started the permitting process by delineating the wetlands and will permit the wetlands in the area necessary. In addition, Volkert will provide bridge rating services, bidding services, construction administration services, and inspection services. Volkert will perform all necessary reviews of the preliminary and final plans to verify concept, constructability, and accuracy of designs along with associated reports, conclusions, calculations, and recommendations.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2024	$299,735	$299,735

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Louisiana Watershed Initiative (LWI) Modeling, Regions 2 & 3 **Contact Information:** LADOTD, Ed Knight P.O. Box 94245 Baton Rouge, LA 70804 (225) 379-3015; edward.knight@la.gov	Louisiana Watershed Initiative Modeling was a project to develop a HEC-based model to address stormwater flooding impacts in response to the 2016 Floods. The analysis focused on developing models for every USGS Hydraulic Unit Code (HUC) level 8 watershed in the state. Tasks for the project included surveying of channel transects, collection of LiDAR at engineered structures (e.g., bridges, culverts, dams, levees, etc.), HEC-RAS modeling of channel flow, HEC-HMS modeling of surface rainfall and flow to channel cross-sections, and HEC-DSS modeling to understand the financial impact of flooding. Volkert was a subconsultant on the teams in Region 2 and 3 for this project. In Region 2, Volkert provided Quality Assurance / Quality Control (QA/QC) during numerical modeling development and led public outreach and engagement. In Region 3, Volkert was a subconsultant leading topographic and LiDAR surveying efforts and completing HEC model QA/QC. Volkert reviewed all numerical modeling results for consistency of model development, identified model errors (e.g., leaking at boundary conditions), and ensured that naming nomenclature met project requirements. Outreach and engagement included assisting with coordination of Regional Watershed meetings, as necessary, and planning, organizing, and running public meetings to improve communication, engagement, and ensure all comments were addressed. Volkert also surveyed watershed locations within Region 3 to fill in numerical model data gaps. These included topographic surveys of flow channel cross-sections and LiDAR of hydraulic structures, including bridges, culverts, levees, etc.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2021	N/A	Region 2 = $268,513 Region 3 = $1,240,000

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Markham Peachtree Drain Line Improvements **St. Tammany Parish, LA** **Contact Information:** City of Slidell, Blaine Clancy P.O. Box 828 Slidell, LA 70459 (985) 646-4270; Bclancy@cityofslidell.org	The first phase of this project involved developing a hydrologic and hydraulic study to recommend replacing an existing box culvert on the WP-20 Canal upper drainage basin in Slidell, St. Tammany Parish, Louisiana. Using HEC-RAS, a hydraulic model of the canal and associated structures was created and analyzed, determining water surface profiles for 5-, 10-, 25-, 50-, and 100-year return periods. Peak flow data for these storm events were calculated using methodologies such as Win TR-55, USGS Regression equations, and LADOTD's HYDRWINT, which informed evaluations of the potential improvements a larger box culvert could provide, including accommodating 100-year storm events. The site, located in a residential area with limited right-of-way (R.O.W.), posed challenges for construction and equipment access, which were addressed in the study and recommendations for culvert size and mitigation of construction-related issues. Funded by a FEMA grant administered under the Louisiana Governor's Office of Homeland Security and Emergency Preparedness Hazard Mitigation Grant Program, Volkert designed the replacement of a 10'x4' concrete box culvert with a 908-foot, 10'x6' concrete-lined open channel with vertical side walls (concrete flume) and redesigned the remaining culvert length into an open channel with a 10-foot bottom and 2:1 side slopes, including dredging the channel between Olive Drive Bridge and the existing culvert to match the proposed typical section. Volkert provided construction administration and inspection services, issuing substantial completion in April 2017, and handled project close-out services and final change orders.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2019	$146,000	$146,000

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Montz Drainage Improvements Project and the Evangeline Road at CN Railroad Box Culvert Projects St. Charles Parish, LA **Contact Information:** St. Charles Parish Public Work and Wastewater, Miles Bingham 100 River Oak Drive, Destrehan, LA 70047 (985) 783-5102; mbingham@stcharlesgov.net	This project consisted of the relocation of approximately 1,800 linear feet of the existing KCS Canal in Montz, LA. The existing channel was widened, and the flowline lowered to accommodate recent development within the watershed and to match new cross drain elevations installed by previous projects. The project also included routing the alignment of the channel around an Entergy high-voltage transmission line tower. Approximately 100 linear feet of double barrel 10' span x 7' rise concrete box culverts, with an 18-degree bend in alignment, were used in the area near the tower to keep the entire channel and structure off of the Kansas City Southern Railroad Right-of-Way. The channel also conflicted with four (4) Chevron pipelines and one (1) Enterprise pipeline carrying natural gas and high volatile liquids ranging in size from six inches (6") in diameter to twenty-six inches (26"). Extensive coordination with the Kansas City Southern Railroad, Entergy, Chevron Pipeline, and Enterprise Pipeline was instrumental to the success of the project's design phase.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2022	$750,000	$750,000

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Plank Road Relocation Baton Rouge, LA **Contact Information:** Baton Rouge Metropolitan Airport, Mike Edwards 9430 Jackie Cochran Drive, Suite 300 Baton Rouge, LA 70807 (225) 921-7325	Volkert has performed engineering, real estate, and related services for the first Phase of the relocation of Plank Road. We are in the process of completing Phase II plans and acquiring real estate. Phase II plans include two overpasses and a cloverleaf to reroute Plank Road through the Hooper Road corridor, including a signalized intersection. It includes the enhancement of a local road, a new local road, and a service road to provide more connections to businesses. Volkert is also providing bidding and construction administration assistance to the airport for each Phase of work. This project was initiated by the airport to reclaim the Runway Safety Area (RSA) and Runway Protection Zone (RPZ). Phase I of the project included ROW acquisition and all the design for a new 4 lane divided highway. Phase II of the project will include ROW acquisition and all the design for the widening of Harding Blvd. and Hooper Rd. It also includes a new lighting system for each phase. Volkert has provided all aspects of engineering and surveying for the design of the roadway, drainage, traffic signals, lighting, environmental permitting, and ROW acquisition for the relocation of Plank Road. This project is an Airport project, funded by FAA, but the road will be transferred to LADOTD upon completion. Volkert provided all coordination between sub-consultants that are assigned to each task, and between the airport, FAA, and LADOTD.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
2026 (est.)	$5,200,000	$5,200,000

TEC Professional Services Questionnaire

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

Parties:		Status/Result of Case:
Plaintiff:	**Defendant:**	
1. N/A	N/A	N/A
2.		
3.		
4.		

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

The Volkert team is familiar with developing, preparing and administering applications for state and federal funding sources including: Community Development Block Grant-Disaster Recover (CBDG-DR), Louisiana Watershed Initiative (LWI) program, Louisiana's Community Water Enrichment Fund (CWEF), the Economic Development Administration (EDA); Louisiana Community Development Block Grants (LCDBG); Department of Commerce and Economic Opportunity (DCEO) Grants; Better Utilizing Investments to Leverage Development (BUILD) grants; and others. With this experience, Volkert is more than capable of assisting with projects to be funded utilizing OCD, CDBG-DR, and LWI funding. This includes preparation of application packages for other funding programs, including preparing narratives, project descriptions, maps, cost estimates, and all necessary documents.

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

Signature: Janet L. Evans Digitally signed by Janet L. Evans Date: 2025.01.22 13:12:14 -06'00' **Print Name:** Janet L. Evans, PE, MBA

Title: Vice President **Date:** 2/7/2025

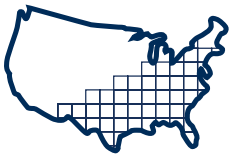
ADDITIONAL INFORMATION

ABOUT VOLKERT

active throughout

THE UNITED STATES WITH

65+ OFFICES



employee-owned

WITH MORE THAN

1,400 EMPLOYEES

consistently ranked

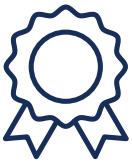
AMONG THE TOP

106 U.S. ENGINEERING FIRMS

providing clients nearly

100 YEARS

OF **ENGINEERING EXCELLENCE**



Volkert brings a century of experience as a leading full-service, multi-disciplinary engineering firm, supporting both public and private clients. Established in New Orleans in 1925 as Ewin Engineers, Volkert has built a reputation for excellence in professional engineering, environmental studies, program management, and construction management. Consistently ranked among the top engineering, planning, and environmental consulting firms in the United States, Volkert's success is rooted in its commitment to client satisfaction.

Today, Volkert employs over 1,400 professionals across more than 60 offices throughout the southeastern United States.

Specialization in Hydraulics and Hydrology

One of Volkert's key strengths lies in its expertise in hydraulics and hydrology. Our team includes highly experienced multi-disciplinary engineers, technicians, and inspectors who specialize in geomorphic and hydraulic conditions. Volkert excels in implementing innovative green infrastructure solutions, including rain gardens, bioswales, permeable pavements, and subsurface stormwater detention systems. We design stormwater systems that mitigate the impact of development on existing drainage infrastructure, ensuring sustainable and effective water management.

Volkert has a century of experience delivering innovative engineering solutions and a proven track record in designing and constructing green infrastructure across a wide range of projects. Our multidisciplinary team excels in hydraulic analysis, geotechnical engineering, surveying, landscape architecture, and resident inspection. Utilizing advanced tools such as Interconnected Channel and Pond Routing (ICPR) models and FEMA HEC-2 models, Volkert conducts comprehensive water management studies and analyzes peak storm stages to ensure resilient and sustainable structures.

For the Sala Avenue corridor streetscape and drainage improvements project, Volkert's expertise in green infrastructure—including bioswales, permeable pavement, and rain gardens—positions us to effectively meet the project's goals. By integrating innovative drainage solutions for a 10-year design storm with streetscape enhancements, we ensure a balance of functionality, aesthetics, and sustainability for the City of Westwego.

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

SOQ 25-005, Resolution No. 145576
Provide Professional Engineering Services for the Sala Avenue Historic District Drainage Feasibility Analysis and Improvements Project

B. Firm Name & Address:

Eustis Engineering L.L.C.
3011 28th Street, Metairie, Louisiana 70002

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:

Gwendolyn P. Sanders, P.E. / President / 504-834-0157 / gsanders@eustiseng.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.

Gwendolyn P. Sanders, P.E. / President / 504-834-0157 / gsanders@eustiseng.com

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

7	Administrative		Estimators		Specification Writers
	Architects (Licensed)	2	Geologists		Structural Engineers
	Chemical Engineers	17	Geotechnical Engineers	3	Graduate Engineers
	Civil Engineers		Interior Designers		Project Managers
	Construction Inspectors		Landscape Architects	11	Clerical
	Ecologists		Land Surveyor		Grant/Funding Specialist
	Electrical Engineers		Mechanical Engineers		Sanitary Engineers
5	Engineer Intern		Environmental Engineers	47	**Other**
	Professional Land Surveyors				
				92	**TOTAL**

F. Is this submittal is a JOINT-VENTURE? Please check: YES ☐ NO ☒

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

TEC Professional Services Questionnaire

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

1. Not applicable.

2.

H Has this JOINT-VENTURE previously worked together: Please check:

YES ☐ **NO** ☐

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

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. Not Applicable.		
2.		
3.		

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

We estimate 16 individuals will be needed to complete the geotechnical services associated with projects under this advertisement. This includes a three-member drill crew as well as laboratory, clerical, and engineering staff. More employees can be added, as necessary, to complete any project.

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

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Gwendolyn P. Sanders, P.E. / President and Project Principal

Project Assignment:

Project Principal

Name of Firm with which Associated:

Eustis Engineering L.L.C.

Years' Experience with This Firm:

32

Education: Degree(s)/Year/Specialization:

Master of Science / 1992 / Civil Engineering
Bachelor of Science / 1990 / Civil Engineering

Active Registration: Year First Registered/Discipline:

Louisiana: 1997 / Civil Engineering
Mississippi: 2003 / Engineering
Texas: 2020 / Civil Engineering

Other Experience and Qualifications Relevant to the Proposed Project:

Mrs. Sanders began her professional career with Eustis Engineering L.L.C. in 1993. Over the past 32 years, she has worked her way up through the ranks of the engineering department including Associate Engineer, Project Engineer, Project Manager, and Engineering Manager. She has been on Eustis Engineering's Board of Directors since 1997. In 2020, Mrs. Sanders became Eustis Engineering's first woman president after previously serving as a Vice President and Executive Vice President. As President, she is responsible for day-to-day business operations including quality, safety, marketing, and long-term strategic growth. She also actively participates in the engineering design and review processes.

Considering her experience with Eustis Engineering, a leading Gulf Coast geotechnical firm, Mrs. Sanders has extensive experience in soft soils and working on projects in coastal Louisiana. She has been directly and indirectly involved in numerous projects throughout the Gulf Coast area, particularly in Jefferson Parish. Mrs. Sanders has been involved in and managed every aspect of a geotechnical engineering project; namely, developing appropriate scopes of work for projects, planning and coordinating field investigations, assigning laboratory testing, performing geotechnical engineering analyses, preparing detailed reports with engineering analyses and recommendations, reviewing reports prepared by other professionals, and consulting with clients. Much of her work experience has dealt with identifying soil properties, developing criteria for design of foundations, and determining an appropriate foundation to support the structure under consideration.

In 2017, Mrs. Sanders served as program advisor for the Deep Foundations Institute's 42nd annual conference. She has twice been named one of the 50 Women of the Year by New Orleans CityBusiness, first in 2017 and again in 2021. She is currently serving as an associate member of the ASCE Standards Committee for the Design of Foundations. She has a keen eye for detail and is a stickler for quality. Her work ethic, combined with her communication skills, translates to Mrs. Sanders' ability to deliver successful geotechnical engineering projects to her clients.

Over the years, Mrs. Sanders has been involved with more than 2,800 projects in some capacity, including the following contained within this submittal:

- **Jefferson Parish** – **Department of Public Works**, Proposed Pump Station, West Esplanade at the 17th Street Canal, Jefferson Parish, Louisiana, Eustis Engineering Project No. 24427

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

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Gwendolyn P. Sanders, P.E. / President and Project Principal

- **Jefferson Parish** – Veterans Boulevard, Pump Stations, Jefferson Parish, Louisiana, Eustis Engineering Project Nos. 23396.00, .01, & 24426
- **Southeast Louisiana Flood Protection Authority – East**, East Jefferson Levee District, Gabrielle Subdivision Runoff Control Piping, Near the Duncan Canal Pump Station, Kenner, Louisiana, Eustis Engineering Project Nos. 22537, 23474, & 24245
- **Jefferson Parish** – Proposed Drainage Improvements, Geisenheimer Canal Between Loumor Ditch and Hoey's Cut, Metairie, Louisiana, Eustis Engineering Project No. 24281
- **City of New Orleans** – Milne Campus Storm Water Resilience Project, Programming and Design Services, New Orleans, Louisiana, Eustis Engineering Project No. 23846

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
James J. Hance, P.E. / Senior Project Manager and Vice President (Finance)
Project Assignment:
Senior Project Manager / Limited Liability Corporation Member
Name of Firm with which Associated:
Eustis Engineering L.L.C.
Years' Experience with This Firm:
21
Education: Degree(s)/Year/Specialization:
Master of Business Administration / 2011 / Business Administration Master of Science / 2003 / Civil Engineering (Geotechnical) Bachelor of Science / 1998 / Civil Engineering
Active Registration: Year First Registered/Discipline:
Louisiana: 2004 / Civil Engineering Mississippi: 2012 / Engineering Texas: 2010 / Civil Engineering
Other Experience and Qualifications Relevant to the Proposed Project:

For 3 years, Mr. Hance was a Staff Engineer and Assistant Project Manager on numerous design and construction phase projects in the Washington, D.C. metropolitan area. His duties included management of field technicians who performed concrete, asphalt, and soils testing as well as foundation construction observations of spread footings, mats, drilled shafts, augercast piles, driven steel H-piles, tiebacks, and underpinning piers.

After relocating to Austin, Texas, to eventually pursue graduate studies in engineering, Mr. Hance acted as an Assistant Project Engineer for several design phase projects. These projects involved retention and stream bank stabilization applications. The types of systems designed included mechanically stabilized earth (MSE), single and multi-tiered walls and slopes utilizing geogrid reinforcement, and the use of geosynthetic materials in engineering applications such as erosion control solutions for open channel flow conditions. Mr. Hance was a graduate research assistant at the University of Texas at Austin where he published his master's thesis in association with a Master of Science in Civil Engineering degree: *Assessment of Seafloor Slope Stability Based on a Database of Published Submarine Slope Failures*.

Mr. Hance has spent the past 21 years with Eustis Engineering, L.L.C. and has worked on many projects for Jefferson Parish. During his tenure at Eustis Engineering, he has earned four promotions: Project Engineer (July 2004), Project Manager (November 2007), Vice President (August 2011), and Chief Financial Officer (August 2012). Mr. Hance manages geotechnical services associated with commercial, industrial, environmental, and civil works projects. His responsibilities include managing a wide variety of design and construction phase projects (public and private sectors), management of staff engineers and development of their skill assets, developing scopes of work and appropriate fees for new projects with clients, participating in business development and marketing ventures, and negotiating contracts.

Some of his experience relative to this submittal includes the following:

- **Jefferson Parish** – Jung and Falcone Lift Station Upgrades (K-11-3), New Sanitary Sewer Lift Station, Marrero, Louisiana, Eustis Engineering Project No. 23819
- **Jefferson Parish** – Hoey's Canal Drainage Improvements (Phases II and III), Deckbar Avenue to Labarre Road and Labarre Road to Causeway Boulevard, Jefferson Parish, Louisiana, Eustis Engineering Project Nos. 21458 & 22532.00, .01

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Benjamin M. Cody, P.E. / Principal Engineer
Project Assignment:
Project Manager
Name of Firm with which Associated:
Eustis Engineering L.L.C.
Years' Experience with This Firm:
23
Education: Degree(s)/Year/Specialization:
Master of Science / 1999 / Civil Engineering Bachelor of Science / 1996 / Civil Engineering
Active Registration: Year First Registered/Discipline:
Louisiana: 2002 / Civil Engineering Mississippi: 2007 / Engineering Texas: 2014 / Civil Engineering Florida: 2001 / Engineering Alabama: 2003 / Engineering Arkansas: 2014 / Engineering
Other Experience and Qualifications Relevant to the Proposed Project:

From 1993 to 1994, Mr. Cody first worked with Eustis Engineering as a part-time laboratory soil technician while obtaining his undergraduate degree. After leaving Eustis Engineering in 1994, Mr. Cody worked as an engineering technician with the Sewerage & Water Board of New Orleans and as a student laboratory coordinator at Tulane University's Department of Civil Engineering. Mr. Cody also assisted in teaching the introductory soil mechanics laboratory sessions. For more than a year, he then worked as a graduate research assistant at Tulane University while pursuing his Master's degree. At that time, he was responsible for the design, construction, and implementation of the bench scale testing system in contaminated soil remediation.

From 1998 until 2001, Mr. Cody worked for engineering firms in Florida. He performed such duties as soil evaluation and engineering recommendations for projects of varying sizes including multi-story structures, bridges, and roadways. He performed Phase I environmental site assessments as well as geotechnical sensor installation.

In 2001, he returned to the New Orleans area and to Eustis Engineering as a Project Engineer. He now serves as a Principal Engineer with the firm. Since his return, Mr. Cody has performed a wide variety of engineering services including geotechnical project management, engineering design, engineering during construction, and dynamic pile testing. Private sector projects have varied from small private or commercial structures to multi-story high-rise structures, storage tanks, and other industrial facilities. Public projects have included general infrastructure, roads and bridges, port facilities, government buildings and facilities, schools, utilities, and hurricane protection system improvements.

Some of Mr. Cody's project experience, shown in this submittal, includes the following:

- **Jefferson Parish** – **Department of Public Works**, Proposed Pump Station, West Esplanade at the 17th Street Canal, Jefferson Parish, Louisiana, Eustis Engineering Project No. 24427
- **Jefferson Parish** – Veterans Boulevard, Pump Stations, Jefferson Parish, Louisiana, Eustis Engineering Project Nos. 23396.00, .01, & 24426

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Benjamin M. Cody, P.E. / Principal Engineer

- **Jefferson Parish** – Jung and Falcone Lift Station Upgrades (K-11-3), New Sanitary Sewer Lift Station, Marrero, Louisiana, Eustis Engineering Project No. 23819
- **Southeast Louisiana Flood Protection Authority – East**, East Jefferson Levee District, Gabrielle Subdivision Runoff Control Piping, Near the Duncan Canal Pump Station, Kenner, Louisiana, Eustis Engineering Project Nos. 22537, 23474, & 24245
- **Jefferson Parish** – Proposed Drainage Improvements, Geisenheimer Canal Between Loumor Ditch and Hoey's Cut, Metairie, Louisiana, Eustis Engineering Project No. 24281
- **Jefferson Parish** – Hoey's Canal Drainage Improvements (Phases II and III), Deckbar Avenue to Labarre Road and Labarre Road to Causeway Boulevard, Jefferson Parish, Louisiana, Eustis Engineering Project Nos. 21458 & 22532.00, .01
- **Jefferson Parish** – L & A Road Improvements, Dakin Street to Earhart Expressway, Jefferson Parish, Louisiana, Eustis Engineering Project No. 24196

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Sean G. Walsh, P.E. / Engineering Manager and Vice President (Engineering)
Project Assignment:
Project Manager
Name of Firm with which Associated:
Eustis Engineering L.L.C.
Years' Experience with This Firm:
12
Education: Degree(s)/Year/Specialization:
Master of Science / 2010 / Civil Engineering Bachelor of Science / 2007 / Civil Engineering
Active Registration: Year First Registered/Discipline:
Louisiana: 2013 / Civil Engineering
Other Experience and Qualifications Relevant to the Proposed Project:
For his first 5 years after graduation, Mr. Walsh was a Project Engineer on numerous projects in New York and the New Orleans metropolitan area where he gained experience in civil, geotechnical, and geo-environmental engineering projects for a variety of public and private clients. Since joining Eustis Engineering in 2012 as a Project Engineer, Mr. Walsh has been responsible for developing and managing engineering package preparations (e.g., engineering design and analysis, reporting, developing construction and permit drawings, contract specifications, cost estimates, and design reporting) for a diverse range of design and analysis projects including deep foundations, excavation support systems, utility foundations, slope stabilization, solid waste closure systems, levee inspection/safety, and seepage modeling. Mr. Walsh was promoted to Project Manager in 2017, Engineering Manager in 2019, and Vice President in 2020. Mr. Walsh is also a graduate of the 2017 New Orleans Regional Leadership Institute (NORLI), a 1-year training program designed to help shape community leaders. During his employment with Eustis Engineering, Mr. Walsh has provided engineering services on more than 900 projects. Mr. Walsh has risen to the level of Vice President and Engineering Manager, in which he is responsible for personnel resource allocation, the overall engineering schedule, and execution of engineering services. Mr. Walsh also functions as a mentor to the engineering staff. A large portion of Mr. Walsh's experience, before and after joining Eustis Engineering, involved development of design and construction recommendations associated with flood protection systems in southeastern Louisiana. Mr. Walsh has served as the project engineer and project manager responsible for the development and implementation of geotechnical exploration programs; development of soil testing laboratory programs; and interpretation of the results to evaluate strength, compressibility, and general soil characterization. Mr. Walsh used these data for geotechnical designs comprising pile capacity curves; bearing capacity analyses; cantilever retaining analyses; anchored retaining wall analyses; temporary retaining structure design; time-settlement projections for earthen levees with lift schedules; soil pressure profiles; structural and earthen levee under seepage analyses; levee and bank stability by Spencer's Method of Slices and Method of Planes; reinforced embankment design; stability analyses of flood protection walls (e.g., T-walls, I-walls, L-walls, and braced 'A-Frame' walls); downdrag and settlement analyses; settlement induced bending moments (SIBM) in foundation piles; piping analyses; uplift analyses; heave analyses; three-dimensional modeling of fill and structural load placements for predictions of time-rate settlements of foundation systems; and

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Sean G. Walsh, P.E. / Engineering Manager and Vice President (Engineering)

numerical modeling of soil-structure interaction (SSI) of flood protection structures by the finite element method (FEM).

Mr. Walsh has also worked on many local government projects in towns and cities including New Orleans, Golden Meadow, and Kentwood; numerous projects in Jefferson, Orleans, St. Bernard, St. Charles, and Plaquemines Parishes; several Port Commissions (e.g., Baton Rouge, New Orleans, South Louisiana); the Sewerage & Water Board of New Orleans; etc.

Regardless of the types of projects engineered for these agencies, his responsibilities have remained the same; namely, defining the project philosophy; developing and maintaining the schedule; providing status reports to clients; controlling expenditures; overseeing project personnel; and reviewing the project design for compliance with engineering principles, company standards, and client requirements. He is hands-on in coordinating activities concerned with technical developments and in resolving engineering design/test problems.

Mr. Walsh's skills over the past 17 years in the industry have developed exponentially with the variety of projects that have crossed his desk. Regarding this submittal, Mr. Walsh has been directly involved with the following projects:

- **Gretna City Park** – Proposed Water Capacity Improvements, 910 Gretna Boulevard, Gretna, Louisiana, Eustis Engineering Project No. 24290
- **Jefferson Parish** – Jung and Falcone Lift Station Upgrades (K-11-3), New Sanitary Sewer Lift Station, Marrero, Louisiana, Eustis Engineering Project No. 23819
- **City of New Orleans** – St. Anthony Green Streets, Programming and Design Services, New Orleans, Louisiana, Eustis Engineering Project Nos. 23849.00, .01
- **Jefferson Parish** – Proposed Drainage Improvements, Geisenheimer Canal Between Loumor Ditch and Hoey's Cut, Metairie, Louisiana, Eustis Engineering Project No. 24281
- **City of New Orleans** – Milne Campus Storm Water Resilience Project, Programming and Design Services, New Orleans, Louisiana, Eustis Engineering Project No. 23846

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Lawrence W. Rome, C.E.T. / Operations Manager and Vice President (Operations)
Project Assignment:
Operations Manager / Limited Liability Corporation Member
Name of Firm with which Associated:
Eustis Engineering L.L.C.
Years' Experience with This Firm:
30
Education: Degree(s)/Year/Specialization:
Associate of Applied Sciences / 1998 / Safety
Active Registration: Year First Registered/Discipline:
LA Driller's License /2013
Other Experience and Qualifications Relevant to the Proposed Project:

Accreditations / Affiliations / Certifications

American Society of Certified Engineering Technicians
Confined Space Entry Certification
Greater New Orleans Industrial Education Council Safety Training
Medic First Aid and CPR Course 2015
HAZMAT Certification, 49 CFR 172, Subpart H, Nuclear Gauges

International Code Council: Soils Special Inspector

National Institute for Certification in Engineering Technologies:

- Level I: Construction Materials Testing, Asphalt
- Level II: Construction Materials Testing, Concrete
- Level IV: Construction Materials Testing, Soils
- Level II: Geotechnical Engineering Technology, Construction
- Level III: Geotechnical Engineering Technology, Generalist
- Level IV: Geotechnical Engineering Technology, Exploration
- Level IV: Geotechnical Engineering Technology, Laboratory
- Level III: Transportation Engineering Technology, Highway Materials

10-Hour OSHA Training
Transportation Workers Identification Card (TWIC)
Registered Well Driller for the States of Louisiana and Mississippi

Professional Experience

After joining Eustis Engineering in 1994, Mr. Rome has worked in several departments throughout our firm. He began as a laboratory technician, performing simple testing such as grain size analyses, Atterberg liquid limits and plastic limits, and unconfined compression shear. Mr. Rome has become involved in more complex testing procedures such as permeability and consolidation tests. His capabilities have expanded to include lime stabilization studies, California Bearing Ratio tests, hysteresis, direct shear tests, swelling pressure and percent swell tests, consolidated undrained triaxial shear tests, relative density tests, and compaction tests.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Lawrence W. Rome, C.E.T. / Operations Manager and Vice President (Operations)

Mr. Rome is thoroughly familiar with the performance of the following types of testing.

- Atterberg limits
- CBR of laboratory compacted soils
- Consolidated drained triaxial shear tests
- Consolidated undrained triaxial shear tests
- Consolidation tests
- Direct shear
- Direct simple shear
- Flexible wall permeability test
- Hydrometer
- Miniature vane shear
- Moisture content of soil and rock
- Organic content
- Particle size analysis of soils and aggregates
- Percent finer than U.S. Standard No. 200 sieve
- Pocket penetrometer
- Relative density tests
- Settlement column testing of dredged materials
- Sieve analyses
- Soil constants
- Specific gravity of soils
- Standard and modified compaction
- Swell pressure tests
- Torvane shear tests
- Unconfined compressive strength of soil
- Unconsolidated undrained triaxial shear tests
- Unified Soil Classification System
- Unit weight
- Visual classification of soils
- Moisture density relationships of soil-cement mixtures
- Molded sand triaxial test using Mississippi Department of Transportation specifications
- U.S. Army Corps of Engineers' New Orleans District Classification System

In early 1998, Mr. Rome joined the Drilling Department as a soil technician, assisting the drilling crew as a wrenchman. In November 1998, Mr. Rome became a driller for Eustis Engineering. In this capacity, he performed sampling operations using 3-in. diameter Shelby tubes and 5-in. diameter U.S. Army Corps of Engineers' (USACE's) fixed piston sampling. He is quite familiar with splitspoon, pitcher, Osterberg, Denison, and hollow stem auger sampling operations. He also performs down hole vane shear testing. He is competent in the installation of piezometers, monitoring wells, inclinometers, and pore pressure transducers. Mr. Rome has drilled to depths in excess of 300 feet utilizing 5-in. fixed piston samplers, and in excess of 400 feet for 3-in. diameter Shelby tube sampling. Mr. Rome has drilled from various types of equipment including pontoons, cargo buggies, shallow draft elevating boats, barges, and pull boats using CME, Diedrich, and Failing drill rigs. Mr. Rome has also served as a Quality Assurance/Quality Control inspector for drilling operations for FFEB JV. This included ensuring as many as 22 drill crews were performing sampling operations in strict compliance with USACE specifications.

In the early 2000s, Mr. Rome attended the University of Missouri at Rolla for Advanced Soil Mechanics training. In 2005, he began serving as Operations Manager overseeing the laboratory department's daily objectives, reviewing calculations, and developing new skills in laboratory personnel, as well as other duties. In the drilling department, he oversees up to five drilling crews which involves ordering parts, looking at prospective sites, making crew schedules, lining up subcontract equipment, and ensuring the highest quality samples are obtained by drill crews and subcontractors. Mr. Rome also serves as a driller or soil technician when his experience is required, or to train new employees.

In 2013, Mr. Rome added the CMT Department under his operational duties in addition to his operational duties within the lab and drilling departments. Mr. Rome works closely with the operations supervisor for CMT, overseeing the department's daily objectives, reviewing reports, reviewing invoices, addressing staffing needs, fleet management, as well as other duties.

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Lawrence W. Rome, C.E.T. / Operations Manager and Vice President (Operations)
Mr. Rome has direct involvement with the following projects related to this submittal: • **Jefferson Parish** – Jung and Falcone Lift Station Upgrades (K-11-3), New Sanitary Sewer Lift Station, Marrero, Louisiana, Eustis Engineering Project No. 23819 • **City of New Orleans** – St. Anthony Green Streets, Programming and Design Services, New Orleans, Louisiana, Eustis Engineering Project Nos. 23849.00, .01 • **City of New Orleans** – Milne Campus Storm Water Resilience Project, Programming and Design Services, New Orleans, Louisiana, Eustis Engineering Project No. 23846

PROJECT NO. 01	
Project Name, Location, and Owner's Contact Information:	**Nature of Firm's Responsibility:**
Jefferson Parish **Department of Public Works** **Proposed Pump Station** **West Esplanade at the 17th Street Canal** **Jefferson Parish, Louisiana** **Eustis Engineering Project No. 24427** **Contact Information:** Jefferson Parish Through ECM Consultants, Inc. Suite 200 1301 Clearview Parkway Metairie, Louisiana 70001 Sunina Shrestha, P.E. @ 504-885-4080	Jefferson Parish proposed a pump station at the intersection of the 17th Street Canal and West Esplanade Avenue in Metairie, Louisiana. The pump station would be built on the west bank of the canal. The pump station was planned to have approximate dimensions of 50' × 36' with a sump depth of approximately 18 feet. A new 78" × 122" arch-shaped reinforced concrete pipe would feed collected drainage water to the pump station. A new generator pad with approximate plan dimensions of 16' × 37' would be located southwest of the pump station. Discharge pipes, 32 inches in diameter, would be installed from the pump station, extending over the levee and floodwall to discharge stormwater from the pump station into the 17th Street Canal. The discharge pipes were to be pile-supported on the land and flood sides of the levee and floodwall. Eustis Engineering performed engineering analyses based on data obtained from previous subsurface explorations at the site supplemented by those in the project area. The scope of service for this project included compiling and updating geotechnical analyses from previous reports that were still applicable to the pump station plans. These previous analyses included deep-seated global stability analyses, seepage potential evaluation, and estimates of pile load capacities for various types and sizes of piles. We performed supplemental deep-seated global stability analyses to provide an alternative analysis as part of the Safety Assurance Review (SAR) required by the U.S. Army Corps of Engineers (USACE) for the construction permit application. We also furnished supporting documentation for temporary retaining structure (TRS) design as well as seepage and heave analyses. Finally, we generated recommendations for general site preparation and foundation construction procedures. Eustis Engineering was later requested to complete additional supplemental geotechnical engineering services due to the installation of a limited number of piles within the existing I-wall berm for the support of the discharge pipe not being approved by the USACE. Our updated geotechnical design report will include: • results of deep-seated stability analyses, • results of T-wall stability analyses, • results of seepage analyses, • an evaluation of TRS design concepts, • estimates of allowable pile load capacity, and

<table>
<tr><th colspan="3">PROJECT NO. 01</th></tr>
<tr><th>Project Name, Location, and Owner's Contact Information:</th><th colspan="2">Nature of Firm's Responsibility:</th></tr>
<tr><td></td><td colspan="2">• general construction recommendations.

Our services will also include a review of the geotechnical aspects of selected sections of the plans and specifications. Namely, we will provide feedback on the implementation of our recommendations for the dewatering and pressure relief measures associated with the pump station excavation in proximity to the flood protection. We will also review the TRS submittal requirements outlined in the specifications.</td></tr>
<tr><th rowspan="2">Completion Date (Actual or Estimated)</th><th colspan="2">Estimated Cost:</th></tr>
<tr><th>Entire Project:</th><th>Work for Which Firm Was Responsible:</th></tr>
<tr><td>09/2025 (E)</td><td>Unknown</td><td>$40,720 (to date)</td></tr>
</table>

PROJECT NO. 02	
Project Name, Location, and Owner's Contact Information:	**Nature of Firm's Responsibility:**
Jefferson Parish **Veterans Boulevard** **Drainage Pump Stations** **Jefferson Parish, Louisiana** **Eustis Engineering Project Nos.** **22024, 22631, 23396.00-.01, and 24426.00-.01** **Contact Information:** Jefferson Parish Through ECM Consultants, Inc. Suite 200 1301 Clearview Parkway Metairie, Louisiana 70001 Sunina Shrestha, P.E. @ 504-885-4080	Two new drainage pump stations are proposed on the north and south sides of Veterans Memorial Boulevard at the 17th Street Canal. Each of these pump stations will discharge into the 17th Street Canal. Due to a planned bike path along the hurricane protection floodwall, these discharge pipes will need to penetrate the flood protection. As a result, plans called for the replacement of portions of the existing West 17th Street Canal I-walls (which cannot be penetrated and still comply with the U.S. Army Corps of Engineers' [USACE] guidelines) with T-walls. Both pump stations would require demolition of approximately 20 feet of existing concrete I-wall for installation of the new T-wall in order to accommodate a discharge pipe through each wall. Access gates will also be provided as part of the floodwall modifications. For additional data at the site, Eustis Engineering L.L.C. used soil boring and laboratory test data contained in our own files from prior explorations as well as data obtained through a Freedom of Information of Act request to the USACE. Due to the modifications to the flood protection, a safety assurance review (SAR) was conducted by an independent reviewer. The SAR included a review of the plans and specifications as well as design reports and calculations. Comments from the SAR were incorporated into the permit package submitted to the review agencies. The project plans have civil, structural, mechanical, and electrical components. Engineering analyses for the evaluation of the proposed T-wall to support the construction permit application and the SAR followed the USACE's Hurricane and Storm Damage Risk Reduction System Design Guidelines, dated June 2012. Global and local stability analyses were performed to evaluate the design and construction of the T-wall, including temporary flood protection (TFP) and temporary retaining structures (TRS). Stability analyses were also performed to address construction dewatering requirements for the pump station excavation with respect to the existing and proposed flood protection. Our work to support the design included estimates of allowable axial pile load capacity for piles supporting the T-wall foundations as well as the pump station and discharge pipes. We also performed analyses to evaluate the potential for seepage and heave during and after construction for the proposed features. New generator pads were located adjacent to each pump station to house controls outside the new intake excavation. Eustis Engineering is currently performing Engineering During Construction (EDC) services as required by the SAR. To date, we have responded to contractor requests for information (RFIs) and have performed submittal reviews. The EDC submittal reviews include the test pile program (TPP) plan, TRS and TFP methods, and sequences

PROJECT NO. 02		
Project Name, Location, and Owner's Contact Information:	**Nature of Firm's Responsibility:**	
	proposed by the contractor. We evaluated the results of the TPP to confirm the design pile capacity as well as installation criteria. We will review the results of geotechnical instrumentation to monitor the excavation and dewatering, including piezometers and inclinometers.	
Completion Date (Actual or Estimated)	**Estimated Cost:**	
	Entire Project:	**Work for Which Firm Was Responsible:**
09/2025 (E)	Unknown	$147,950 (to date)

PROJECT NO. 03		
Project Name, Location, and Owner's Contact Information:	**Nature of Firm's Responsibility:**	
Gretna City Park **Proposed Water Capacity Improvements** **910 Gretna Boulevard** **Gretna, Louisiana** **Eustis Engineering Project No. 24290** **Contact Information:** Gretna City Park Through Waggoner & Ball Architects, APC 2200 Prytania Street New Orleans, Louisiana 70130 Andy Sternad @ 504-524-5308	Open-air pavilion and pedestrian bridge structures were anticipated as part of the Gretna City Park upgrades. The pavilion structure would consist of an approximate 25' × 30' timber frame structure. In the field, Eustis Engineering's drill crew completed nine undisturbed soil borings, varying in depth from 10 to 75 feet below the existing ground surface. Additionally, our personnel performed two infiltration tests on site using the Compact Constant Head Permeameter (Amoozemeter®) procedure. Following the field investigation, our Metairie laboratory conducted natural water content, unconfined compression shear, and one-point unconsolidated undrained triaxial compression shear tests to inform the engineering design. Engineering analyses and recommendations included the following: • slope stability analyses; • site preparation recommendations including drainage (both during construction and permanent) and subgrade preparation. • fill selection as well as its recommended compaction and its estimated settlement; • estimates of load capacity for treated ASTM D25 quality timber piles, as well as settlement estimates; • pile installation recommendations; • pavement design; and • material recommendations including components of the pavement itself and the use of geotextiles. 	
Completion Date (Actual or Estimated)	**Estimated Cost:**	
	Entire Project:	**Work for Which Firm Was Responsible:**
04/2020 (A)	Unknown	$13,250

<table>
<tr><th colspan="3">PROJECT NO. 04</th></tr>
<tr><th>Project Name, Location, and Owner's Contact Information:</th><th colspan="2">Nature of Firm's Responsibility:</th></tr>
<tr><td>Jefferson Parish
Jung and Falcone Lift Station Upgrades (K-11-3)
New Sanitary Sewer Lift Station
Marrero, Louisiana
Eustis Engineering Project No. 23819

Contact Information:
Jefferson Parish Through
Principal Engineering, Inc.
Suite 19
1011 North Causeway Boulevard
Mandeville, Louisiana 70471
Jeneva Hinojosa, E.I. @ 985-624-5001</td><td colspan="2">The new lift station was to consist of a fiberglass wet well and fiberglass valve pit. The wet well was to be approximately 6 feet in diameter and 18 feet in depth. The valve pit was to be approximately 6 feet in diameter and 8 feet in depth. Site improvements were to include a gravity sewer line installed approximately 12 feet below grade and a force main approximately 4 feet below grade.

Our field investigation included the drilling of one soil boring to a depth of 80 feet below the existing ground surface using one of our truck-mounted rigs. Once in our laboratory, samples selected by our engineering staff were subjected to soil mechanics laboratory tests including visual classification, natural water content, unit weight, unconfined compression shear, and one-point unconsolidated undrained triaxial compression shear.

Using these data, our staff performed engineering analyses and developed recommendations for the project documented in a report including:

• recommendations for site preparation encompassing temporary and permanent drainage, dewatering and pressure relief of excavations, and ways to limit lateral movement;
• methods for excavation, base preparation, and bedding associated with the sanitary gravity sewer line, wet well, and valve box;
• estimates of lateral earthen pressures;
• recommendations for material placement and compaction of backfill for the force main and sanitary sewer line;
• allowable soil bearing value recommendations for the wet well and valve box;
• allowable pile load capacities, in compression and tension, for treated ASTM D25 quality timber piles; and
• settlement estimates for both ground-supported and pile-supported project features.</td></tr>
<tr><th rowspan="2">Completion Date (Actual or Estimated)</th><th colspan="2">Estimated Cost:</th></tr>
<tr><th>Entire Project:</th><th>Work for Which Firm Was Responsible:</th></tr>
<tr><td>06/2018 (A)</td><td>Unknown</td><td>$4,900</td></tr>
</table>

PROJECT NO. 05		
Project Name, Location, and Owner's Contact Information:	**Nature of Firm's Responsibility:**	
Southeast Louisiana Flood Protection Authority - East East Jefferson Levee District Gabrielle Subdivision Runoff Control Piping Near the Duncan Canal Pump Station Kenner, Louisiana Eustis Engineering Project Nos. 22537, 23474, and 24245 **Contact Information:** Southeast Louisiana Flood Protection Authority – East 6001 Stars and Stripes Boulevard Suite 225 New Orleans, Louisiana 70126 Chris Humphreys @ 504-262-8922	This project began with proposed pipeline rerouting at Pump Station No. 4, near Duncan Canal Pump Station, in Kenner, Louisiana. Eustis Engineering used existing geotechnical data obtained from previous projects at the site to perform global stability analyses to evaluate the existing hurricane protection levee and floodwall during and after construction of the proposed pipeline. Slope stability analyses for the proposed trench/excavation for the installation of the pipe followed the criteria provided in the U.S. Army Corps of Engineers' (USACE) Hurricane and Storm Damage Risk Reduction System Design Guidelines and were performed using the Spencer's Method of Slices coded within SLOPE/W. The slope stability analyses were performed for the T-wall and proposed protected side excavation for pipeline installation. We also computed Lane's Weighted Creep Ratio to evaluate piping potential into the excavation as the result of seepage during a high-water event. Using data obtained from these calculations, we provided construction recommendations for the contractor's use on the project. Fleming Construction Company, L.L.C., was contracted to install a 40-in. PVC drainage pipe in the proposed excavation. They provided construction drawings delineating the configuration of a Temporary Retaining Structure (TRS). In order to ensure the contractor's TRS design met the requirements of the construction permit, including review by the USACE, Eustis Engineering was retained to evaluate these drawings and provide comments. Subsequently, we provided clarification, revised calculations to accommodate plan changes, and responded to further queries and comments as needed. When this review process was completed and construction commenced, Eustis Engineering provided additional geotechnical services on this project, sampling earthwork and subjecting the samples to laboratory testing including compaction, Atterberg liquid and plastic limits testing, and the percent passing the No. 200 sieve. We also evaluated the results of monitoring operations performed by the contractor to confirm the TRS was behaving as predicted and within permit requirements.	
Completion Date (Actual or Estimated)	**Estimated Cost:**	
	Entire Project:	**Work for Which Firm Was Responsible:**
05/2020 (A)	Unknown	$32,200

PROJECT NO. 06		
Project Name, Location, and Owner's Contact Information:	**Nature of Firm's Responsibility:**	
City of New Orleans **St. Anthony Green Streets** **Programming and Design Services** **New Orleans, Louisiana** **Eustis Engineering Project Nos. 23849 and 23849.01** **Contact Information:** City of New Orleans Through Batture LLC 500 Crystal Street New Orleans, Louisiana 70124 Robert Mora, P.E. @ 504-533-8644	The St. Anthony Green Streets project was initiated to reduce flooding and subsidence risks within the St. Anthony neighborhood, a subset of the Gentilly Resilience District in New Orleans, Louisiana. Project improvements were planned along Wildair Drive and Windgate Drive between Allen Toussaint Boulevard (formerly Robert E. Lee Boulevard) and Filmore Avenue. In addition, the Filmore Gardens and Eddie Gatto Playgrounds were incorporated into the project. The City of New Orleans proposed new green infrastructure and stormwater management features comprising rain gardens, bioswales, permeable sidewalks, and other landscape features used for the detention and infiltration of rainwater. Based on previous explorations performed in proximity to the subject site, the geology was characterized by fill, drained marsh, and inland swamp deposits overlying a relic beach. Surficial materials overlying the deposits, as mapped by the Natural Resource Conservation Service, comprised heavy clay. Eustis Engineering was requested to perform a field exploration and engineering analyses to evaluate how this clay, and its ability to infiltrate water, would impact the project. Eustis Engineering drilled 13 soil borings using our track-mounted Geoprobe® rig with a Macro-Core® sampler. Five borings were drilled to depths of 20 feet, and eight borings were drilled to depths of 10 feet. These depths were chosen to assist in defining the depths and locations of the relic beach sand deposits. Samples obtained from the borings were subjected to soil mechanics laboratory tests comprising visual classification, natural water content, Atterberg liquid and plastics limits, and percent passing the U.S. Standard No. 200 mesh sieve. Swell pressure and percent swell tests were performed to determine the magnitude of shrink/swell potential of the subsoils. Engineering analyses were performed to evaluate the shrink/swell potential of the existing subsoils, heave potential due to water infiltration, estimates of allowable soil bearing values, recommendations for fill placement and compaction as well as pavements, and general construction procedures. Eustis Engineering was later asked to perform supplemental services consisting of the installation of open well standpipes piezometers and data monitoring for a duration of one year. Piezometer installation locations were selected by Eustis Engineering based on design recommendations. This instrumentation was installed in areas of possible subsidence and potential stormwater infiltration or retention zones.	
Completion Date (Actual or Estimated)	**Estimated Cost:**	
	Entire Project:	**Work for Which Firm Was Responsible:**
01/2020 (A)	Unknown	$24.500

PROJECT NO. 07		
Project Name, Location, and Owner's Contact Information:	**Nature of Firm's Responsibility:**	
Jefferson Parish **Proposed Drainage Improvements** **Geisenheimer Canal Between** **Loumor Ditch and Hoey's Cut** **Metairie, Louisiana** **Eustis Engineering Project No. 24281** **Contact Information:** Jefferson Parish Through Design Engineering, Inc. Suite 205 3330 West Esplanade Avenue Metairie, Louisiana 70002 John Holtgreve, P.E. @ 504-836-2155	Drainage improvements were planned for a portion of Geisenheimer Drainage Canal between Loumor Ditch and Hoey's Cut in Metairie, Louisiana. A new box culvert would be installed north of and parallel to the existing Geisenheimer Drainage Canal over a distance of approximately 2,800 linear feet. The purpose of this project was to increase flow capacity. Tie-ins in the form of junction boxes would be required at three locations including the new and existing Loumor Ditch, Woodvine Ditch, and at Hoey's Cut. The existing covered canal generally consisted of an 8' × 15' box culvert supported by timber piles. A section of the Hoey's Cut covered canal indicated a 9.5' × 25' structure comprising concrete sheetpiles as the sidewalls. The new structure was planned to be an 8' × 12' box culvert supported at grade. Eustis Engineering had previously performed geotechnical explorations for prior project phases. To supplement these historic data, Eustis Engineering performed four cone penetration tests (CPTs) to a depth of 60 feet each below the existing ground surface. The CPTs were made with a track-mounted cone penetrometer rig. This exploration scope was selected to expedite the project schedule and keep field costs contained. Geotechnical engineering recommendations for the project included site preparation, managing drainage during and after construction, identifying demolition of existing features interfering with new construction, and the need for a temporary retaining structure (TRS) for excavations. Eustis Engineering analyzed at least one concept of a TRS considering application of factors of safety to the sheetpile penetration or to the soil design parameters. Other considerations for the TRS included recommendations for construction sequence; excavation; dewatering; lateral movement and soil subsidence; preparation of the excavation base; the bridge lift and bedding; sealant slab; and material selection and compaction for structural, non-structural, and embankment fill. Our personnel also analyzed earth and water pressures associated with the box culvert as well as the use of a grade-supported culvert base slab. Analyses associated with the slab included allowable soil bearing values, net applied pressure intensity, and settlement estimates. Differential settlement was considered in association with pavements, the existing pile-supported box culvert, and underground utilities.	
Completion Date (Actual or Estimated)	**Estimated Cost:**	
	Entire Project:	**Work for Which Firm Was Responsible:**
03/2020 (A)	Unknown	$12,100

PROJECT NO. 08	
Project Name, Location, and Owner's Contact Information:	**Nature of Firm's Responsibility:**
Jefferson Parish **Hoey's Canal Drainage Improvements (Phases II and III)** **Deckbar Avenue to Labarre Road and Labarre Road to Causeway Boulevard** **Jefferson Parish, Louisiana** **Eustis Engineering Project Nos. 21458, 22532, and 22532.01** **Contact Information:** Jefferson Parish Through Linfield, Hunter & Junius, Inc. 3608 18th Street Metairie, Louisiana 70002 Robert Nockton, P.E. @ 504-833-5300	Eustis Engineering has performed multiple geotechnical explorations dating back to 1966 along Hoey's Canal for various modifications and improvements. Phases II and III of the proposed drainage improvements along Hoey's Canal included the deepening and lining of the canal using sheetpile walls and concrete slope paving for the upper slopes of the canal. Phase II extended from Deckbar Avenue (LA Highway 3139) to the railroad crossing near Labarre Road in Jefferson Parish, Louisiana. This portion of the drainage improvements was approximately 1,715 feet long and was a continuation of an earlier phase of the project that extended from Deckbar Avenue to Betz Avenue (approximately 805 feet long) tying into an existing sheetpile-lined canal. Phase III consisted of improvements to approximately 1,625 feet of Hoey's Canal from Causeway Boulevard to Labarre Road. Eustis Engineering was retained for Phase III because of our ability to deliver high quality geotechnical recommendations in a timely fashion to our clients and to Jefferson Parish. For Phase II, Eustis Engineering drilled four undisturbed soil test borings using a truck-mounted, rotary-type drill rig. We drilled one soil boring to a depth of 130 feet and three borings to depths of 60 feet below the existing ground surface. For the Phase III exploration, we utilized data from one of the soil borings we obtained in Phase II in addition to drilling three borings to depths of 60 feet with a low ground pressure track-mounted drill rig. We coordinated with the New Orleans Public Belt Railroad (NOPBR) and Jefferson Parish to ensure our field exploration was performed safely and met the NOPBR and Parish requirements. The Phase III borings were drilled on the southern side of the canal because borings were not feasible on the northern side due to overhead electrical lines. Eustis Engineering performed soil mechanics laboratory tests on samples obtained from the borings during Phases II and III to evaluate the physical properties of the subsoils. Based on existing data, soil borings, and laboratory test results, Eustis Engineering provided recommendations regarding site preparation, sheetpile analyses, global stability analyses, estimates of allowable pile load capacities for alternative flume support, estimates of allowable pile load capacities for the railroad bridge which would replace an existing culvert, and general construction recommendations. We also evaluated dewatering/pressure relief and heave which were major design challenges due to a shallow subsurface sand deposit located near the bottom of the deepened canal. For Phase II, we provided supplemental engineering analyses which included addressing requests for information posed by the construction contractor and evaluating the pile load capacity results from a static load test program. Our Phase III engineering scope addressed geotechnical related issues during construction with the

PROJECT NO. 08		
Project Name, Location, and Owner's Contact Information:	**Nature of Firm's Responsibility:**	
	construction contractor. We also performed additional engineering analyses for the project after our client discovered a new NOPBR track closer to Hoey's Canal. This new construction altered the cross-sections we evaluated in our previous study, requiring an evaluation of the impact on the proposed walls within Hoey's Canal.	
Completion Date (Actual or Estimated)	**Estimated Cost:**	
	Entire Project:	**Work for Which Firm Was Responsible:**
03/2017 (A)	Unknown	$37,800

PROJECT NO. 09		
Project Name, Location, and Owner's Contact Information:	**Nature of Firm's Responsibility:**	
Jefferson Parish **L & A Road Improvements** **Dakin Street to Earhart Expressway** **Jefferson Parish, Louisiana** **Eustis Engineering Project No. 24196** **Contact Information:** Jefferson Parish Through Linfield, Hunter & Junius, Inc. 3608 18th Street Metairie, Louisiana 70002 Anthony Goodgion @ 504-833-5300	Jefferson Parish proposed drainage improvements near the intersection of L & A Road and Blue Jay Way near a commercial section of Jefferson Parish. The Department of Public Works proposed a new box culvert be constructed within the existing 70-ft wide 11-ft deep Hoey's Canal. The new culvert, measuring 21 feet wide, with a 23-ft wide base, would span across approximately 340 linear feet along the southern stretch of L & A Road. Based on furnished data, we understood the culvert floor and top surface elevations would require 2 to 3 feet of fill above the culvert roof. In addition, the annular space between the existing canal bank and the culvert side walls would be backfilled to create a smooth transition between the existing canal bank crowns and the grade above the culvert. Two paved access roads would cross the culvert perpendicularly. Lastly, the southern end of the culvert would transition to the existing canal bank slopes with the assistance of wingwalls. Eustis Engineering was requested to analyze the culvert supported on shallow and deep foundations. We directed our drill crew to conduct one soil boring to a depth of 75 feet in the approximate culvert footprint. We then selected soil samples to perform soil mechanics laboratory tests to facilitate development of design parameters. We transmitted the results of the exploration and analyses in a formal report signed and sealed by one of our professional engineers. These analyses and recommendations included: • site preparation and drainage, • excavations and dewatering/pressure relief (including temporary retaining structures), • fill material and compaction for pipe bedding, • allowable soil bearing values, • local and global stability analyses, • allowable pile load capacities for box culvert construction, • settlement due to structural loads, and • general construction procedures.	
Completion Date (Actual or Estimated)	**Estimated Cost:**	
	Entire Project:	**Work for Which Firm Was Responsible:**
09/2019 (A)	Unknown	$6,150

PROJECT NO. 10	
Project Name, Location, and Owner's Contact Information:	**Nature of Firm's Responsibility:**
City of New Orleans **Milne Campus Storm Water Resilience Project** **Programming and Design Services** **New Orleans (Orleans Parish), Louisiana** **Eustis Engineering Project No. 23846** **Contact Information:** Dana Brown & Associates, Inc. 1836 Valence Street New Orleans, Louisiana 70115 Dana Brown, FASLA, PLA, AICP, LEED AP @ 504-345-2639	The Milne Campus project would incorporate several features for the detention and infiltration of rainwater. Features would require earthwork to contour the site and create berms, retaining walls, and structural foundations (footings or piles). New structures may include pavilions and plaza areas. Existing site pavements may require demolition for the construction of these new structures, pavements, and water/drainage features. The field portion of this project would include field exploration and infiltration tests. Four soil borings were drilled for the project to evaluate foundation needs for structural features such as pavilions, retaining walls, etc. The soil borings extended to depths of 40 feet to penetrate the relic beach sands. Ten additional borings were made to depths of 10 feet to evaluate the new pervious/permeable site pavements. The design of the stormwater best management practices required infiltration testing throughout the site. Therefore, two surface infiltration tests were made in the proposed agricultural area using an infiltrometer. Eight subsurface tests were also made for the water features and pavements utilizing an Amoozemeter to establish the infiltration rate at depths greater than 1 foot below finished grade. Samples obtained from the borings were subjected to soil mechanics laboratory tests. In the 40-ft deep borings, tests included primarily of natural water content, unit weight, and either unconfined compression shear or unconsolidated undrained triaxial compression shear, and Atterberg limits determinations. These laboratory tests were necessary to determine the shear strength, liquidity index, and relative compressibility of the subsoils encountered. Samples obtained from the shallow pavement borings were tested for their natural water content. Atterberg limits determinations were performed on selected samples obtained from these borings. Based on the results of the soil borings, infiltration tests, and soil mechanics laboratory tests, engineering analyses included: • a discussion of the existing subsoil and ground water conditions, • OSHA Soil Classification, • evaluation of shrink/swell potential in current conditions, • evaluation of heave potential due to infiltration, • recommendations for placement and compaction of fill, • estimates of lateral earth pressures, • estimates of allowable soil bearing values, • estimates of allowable pile load capacities, • estimates of settlement,

PROJECT NO. 10		
Project Name, Location, and Owner's Contact Information:	**Nature of Firm's Responsibility:**	
	• pavement recommendations, and • general construction recommendations.	
Completion Date (Actual or Estimated)	**Estimated Cost:**	
	Entire Project:	**Work for Which Firm Was Responsible:**
03/2020 (A)	Unknown	$14,255

TEC Professional Services Questionnaire

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

Parties:		Status/Result of Case:
Plaintiff:	**Defendant:**	
1. None at this time.		
2.		
3.		
4.		

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

When Eustis Engineering L.L.C. opened its first office in Vicksburg, Mississippi, in 1946, it housed its entire operation in less than 500 square feet of space. ***Seventy-eight years later,*** our personnel and equipment occupy 40,000+ square feet of space in five locations.

Eustis Engineering is the third oldest, continually operating geotechnical firm in the United States. From a single two-man office to approximately 115 individuals in five offices, the firm has grown to house accounting, administrative, quality control, safety, drilling, engineering, laboratory, and construction materials testing departments. These departments work together to provide our clients with the quality work desired in a cost efficient and timely manner.

Eustis Engineering is headquartered in Metairie, Louisiana, in the heart of Jefferson Parish's East Bank. We also operate branch offices in Baton Rouge and Lafayette, Louisiana, Gulfport, Mississippi, and Houston, Texas. Our offices and staff collaborate seamlessly using Microsoft Teams and other virtual platforms.

Eustis Engineering's services encompass many disciplines including the performance of:

- subsurface exploration (drilling of soil borings, cone penetration testing, downhole vane, and Geoprobe®);
- soil mechanics laboratory tests;
- field instrumentation and monitoring;
- non-destructive testing of piles and shafts including dynamic pile testing, crosshole sonic logging, single-hole sonic logging, low strain pile integrity testing, and thermal integrity profiling;
- geotechnical engineering design;
- special inspections; and
- construction quality control and materials testing services.

Eustis Engineering L.L.C. Important Numbers	
Item	**Number**
Unique Entity Identifier (UEI)	R83MG9NLTMS4
CAGE Code	4MOP2
Firm License - Louisiana	EF.0003558
Firm License - Mississippi	2078
Firm Registration – Texas	13895

Eustis Engineering has worked on over 850 geotechnical and construction materials testing projects for Jefferson Parish Government entities either as a prime or subconsultant. Project types include water and wastewater pump stations, lift stations, roads and bridges, utilities, drainage structures and canals, coastal features and flood protection. We have also worked on over 4,000 projects of all types throughout the east

and west banks of Jefferson Parish alone, not considering similar projects in the surrounding parishes. This work history gives our drilling, laboratory, and engineering staffs unparalleled familiarity with the subsurface and foundation conditions in the Gulf Coast and the challenges that may arise for projects associated with this contract.

ENGINEERING SERVICES

Eustis Engineering has geotechnical engineering capabilities to fulfill the requirements of nearly any project. As evidenced by the included write-ups in this package, our experience with performing field exploration, testing, and geotechnical engineering design is varied and extensive.

Eustis Engineering's design teams have completed projects associated with all types of infrastructure and capital/public works projects including water, sewerage, drainage, streets, and parkways. These projects have included alternative drainage methods with green infrastructure aspects such as bioswales and permeable pavements. Eustis Engineering's design teams evaluate pavement subgrades and provide recommended pavement component thicknesses for rigid and flexible pavements, including permeable, pervious, and impervious systems. We also evaluate pavement materials and mix designs. Our evaluation of bearing capacity considers the excavation depth, base preparation, and utility diameter. We have developed pile capacity and bearing capacity analyses for projects throughout Jefferson Parish and the coastal areas of the United States. Eustis Engineering's evaluation of piles includes estimates of vertical capacity for groups. We also perform lateral analyses of individual piles and pile groups using LPILE® and GROUP® software.

We evaluate local and deep-seated global stability of canals, waterway slopes and embankments as well as excavation shoring and sheeting. We provide assessments of heave, seepage and erosion control measures. We evaluate floodwalls, including I-walls, L-walls, T-walls and gates.

We perform settlement studies including estimates of settlement and time-rate of settlement with and without wick drains to enhance consolidation. These settlement studies include estimates and recommendations for lift construction affecting a gain-in-strength of foundation soils associated with subsoil consolidation. Preload/surcharge operations are also a component of our settlement evaluations.

In our practice, Eustis Engineering has developed methodologies associated with the estimates of negative skin friction on pile foundations. The methods are the current state of practice. The extension of these methods is an evaluation of settlement induced bending moments. Eustis Engineering is also utilizing a numerical model program, SIGMA/W, in association with the rigorous settlement program Settle3.

Engineering Staffing

Our engineering staff has 18 master's degrees in civil engineering, Engineering, Engineering Management, Geology, and Business Administration. Participation in post-Bachelor of Science curricula, as well as continuing education and professional registration that emphasizes engineering management and technical issues, is very important to Eustis Engineering. Our engineers also regularly present at technical conferences. We encourage and fund our staff for these activities and programs.

Employee	Education	Experience	
		Years with Eustis Engineering	Total Years
Professional Engineers (P.E.)			
Benjamin M. Cody	M.S. / Civil Engineering	23	27
Brian A. Deschamp	B.A. / Business Administration	13	13
	M.S. / Civil Engineering – Geotechnical		
P. Tennant Duckworth	M.S. / Civil Engineering	4	4
James J. Hance	M.S. / Civil Engineering	21	25
	M.B.A. / Business Administration		
Chad L. Held	M.S. / Civil Engineering	33	33
Matthew K. Morales	B.S. / Civil Engineering	16	16
Tomas K. Morales	B.S. / Civil Engineering	11	11
Travis R. Richards	M.S. / Engineering	18	25
	M.S. / Engineering Management		
	Coastal Engineering Certificate		
Chad D. Roe	M.S. / Civil Engineering	2	12
Gwendolyn P. Sanders	M.S. / Engineering	32	32
Shaun R. Simon	M.S. / Civil Engineering	24	24
Alice E. Stark	M.S. / Civil and Environmental Engineering	1	9
Patrick A. Thurmond	M.S. / Engineering Management	9	9
	M.S. / Civil Engineering		
	Coastal Engineering Certificate		
Sean G. Walsh	M.S. / Civil Engineering	12	17
James M. Williams	M.S. / Civil Engineering	6	6
Engineering Interns (E.I.)			
Adam K. Abdulbagi	B.S. / Civil Engineering	2	2
Alvaro E. Carvajal	B.S. / Civil Engineering	2	2
Joseph P. DiGiovanni	B.S. / Civil Engineering	2	2
Steven B. Tidwell	B.S. / Geological Engineering	1	14
Engineering Graduates			
Alexander Soriano Doninelli	B.S. / Civil Engineering	1	5
Lesley L. Reitmeyer	B.S. / Civil Engineering	16	16
Xia (Bruce) Xialong	PhD / Geotechnical Engineering	1	11
	M.S. / Geotechnical Engineering		

Geologists			
Matthew J. Blasini, G.I.T.	B.S. / Geology	6	7
Nathan A. Quick, P.G.	M.S. / Geology	3	8
Amelia E. Russell	B.S. / Geosciences	<1	<1
Total Years of Experience		**259**	**330**

Reviewing our table, the majority of Eustis Engineering's professional engineers have at least ten years of experience in geotechnical engineering.

Cone Penetration Testing Capabilities

Eustis Engineering owns two dedicated track-mounted cone penetration test (CPT) rigs and operates four other multi-purpose rigs capable of performing CPTs. Operators are either specifically trained engineering technicians or engineers who perform field operations utilizing the CPT equipment. Engineers with specialized knowledge and experience operating the rigs evaluate the sounds and produce the CPT logs. Five of our rigs can be placed on a cargo buggy, shallow draft barge, or airboat to access coastal marsh or open water. We have sounded to depths of 180 feet and have the ability to perform dissipation and seismic testing. Field testing is performed according to ASTM D5778 and common industry practices. Eustis Engineering has been performing CPTs and using CPT technology since the early 2000s.

A CPT can be accomplished rapidly with four or five being performed in the same time frame as a standard geotechnical boring; therefore, CPTs are typically cost-effective in providing enhanced subsurface exploration and better delineation of subsurface conditions at a project site.

Dynamic Pile Testing Capabilities

Eustis Engineering was the first private consulting firm to own and operate dynamic pile testing equipment in the States of Louisiana and Mississippi. The pile types tested include timber piles; small size pipe piles; square, precast concrete piles and large (60 to 72-in. diameter) spun-cast, prestressed concrete piles; open-end and closed-end steel pipe piles; and steel H-piles.

We often upgrade our data collectors and operate four PDA 8-G Pile Driving Analyzers® (PDAs). These units can be battery operated and use wireless gauge transmitters to eliminate the need for a main cable to connect directly to the units. We also stock and use underwater gauges to monitor pile driving in marine environments when the pile head descends below the water surface. To support our four PDA units, Eustis Engineering maintains an extensive inventory of calibrated gauges and accessories. To provide quality assurance and rapid responses to issues in the field, all PDAs have wireless communication, enabling our engineers direct oversight of the dynamic pile testing process in real time.

We also use this PDA equipment to maintain the calibrations of our automatic Standard Penetration Test (SPT) hammers on our drill rigs.

Other Non-Destructive Testing Capabilities

Our engineering staff at Eustis Engineering performs other non-destructive testing services to verify the structural integrity of drilled shafts, augercast piles, and precast concrete piles. Some of these processes

include crosshole/single-hole sonic logging (CSL or SSL), low strain pile integrity testing (PIT), and thermal integrity profiling (TIP™). We also perform parallel seismic testing to evaluate existing foundation depths.

INSTRUMENTATION

Eustis Engineering has installed geotechnical instrumentation for decades. Our instrumentation programs have resulted in substantial cost savings to our clients by reducing preload durations, providing refinement of geotechnical design parameters through full-scale testing, and verifying the performance of cutting-edge designs. Our services go beyond the construction phase, as long-term monitoring programs enable owners to maximize utilization of their facilities throughout the design life by verifying if soil behavior is within acceptable limits.

Eustis Engineering provides the following instrumentation services:

- Vibrating wire devices including piezometers, extensometers, settlement gauges, and strain gauges
- Data loggers to enable periodic collection of data for vibrating wire devices
- Data links for remote web access to data loggers in near real time
- Settlement plates
- Conventional slope inclinometers or MEM sensor array inclinometers and tiltmeters
- Monitoring services of all instrumentation devices with geotechnical interpretation

Instrumentation is a natural complement to our design services, providing data to verify or modify recommendations based on the observational method. Ongoing monitoring enables us to provide continuing services from project inception to the end of a project's design life.

DRILLING/FIELD EXPLORATION

Eustis Engineering possesses licenses and credentials to perform geotechnical drilling in Louisiana and Mississippi (no license is needed in Texas). With our licenses and credentials, Eustis Engineering drills soil borings and performs sampling operations for our clients' projects in all types of environments including land, marsh, swamp, and marine. Our personnel have the capability and experience to provide these services from trucks, barges, pontoons, and swamp or marsh buggies. We also have portable units that can be used inside structures planned for retrofit/renovations.

Field Exploration Personnel

We can provide up to eight drillers and drill rigs capable of obtaining standard 3-in. diameter Shelby tube samples and 5-in. diameter fixed piston samples, sounding CPT, advancing Geoprobe samplers, and installing geotechnical instrumentation on land, in water, and in marsh environments as indicated in the following table.

Capabilities of Eustis Engineering's Field Exploration Staff	Blair Armant	James Cordes	Tevin Crawford	Rene Davidson	Eric Held	James Lubben	George Reitmeyer	Lawrence Rome
Hand Auger Borings	X	X	X	X	X	X	X	X
General Type (3-in. Diameter Borings)	X	X	X	X	X	X		X
General Type (3-in. Diameter Borings) in Hard Access Locations (Marsh, Swamp, Heavily Forested)	X	X	X	X	X	X		X
Undisturbed Type (5-in. Diameter Borings)	X	X	X	X	X	X		X
Undisturbed Type (5-in. Diameter Borings) in Hard Access Locations (Marsh, Swamp, Heavily Forested)	X	X	X	X	X	X		X
Location Information (Latitude, Longitude)	X	X	X	X	X	X		X
Set Permanent Benchmarks	X	X	X	X	X	X		X
Install Instrumentation	X	X	X	X	X	X		X
Cone Penetration Tests					X		X	
Geoprobe Sampling		X			X	X		X

Field Exploration Equipment

Eustis Engineering owns and operates six wet rotary drill rigs, both truck-mounted and skid-mounted. This equipment includes one Diedrich truck-mounted D-50 turbo drill rig (with an automatic SPT hammer); one Failing skid only rig (with an automatic SPT hammer); one truck-mounted CME-55 rig; one track-mounted CME-850X rig with an automatic hammer; one track-mounted CME-850XR rig with an automatic hammer; and one truck-mounted CME-55 rig with a detachable CME-55 skid unit and automatic hammer. We also own two track-mounted cone penetrometer systems capable of providing up to 15 tons of reaction. Our CME track rigs provide low ground pressure and are designed to traverse soft ground surfaces, steep slopes, and lightly wooded areas. Eustis Engineering also owns four direct push Geoprobe units: two 3230DTs, the 6620DT, and the 540M. Eustis Engineering's 6620DT/3230DT Geoprobe with their 12-in. tracks allow this equipment to be used on pavement as well as off road and in rugged terrain. The 6620DT and 3230DT rigs also can be placed on specialized equipment. This includes a jack-up barge and a cargo buggy for operations over marsh/water. These units can install shallow monitoring wells and other instrumentation. We also have the capability to perform CPTs and downhole vanes using the 3230DT rigs.

Our 540M Geoprobe can fit into confined spaces as narrow as 32 inches. The 540M can also be utilized on an airboat for coastal terrains.

Other Specialized Soil Sampling Equipment

In addition to our drill rigs, Eustis Engineering owns and operates an Acker Vane Shear to perform down hole in-situ testing. We also have hand augers to obtain samples at various depths for use in classification and stratification of soil deposits. This equipment can be used in association with handheld piston samplers to obtain small diameter samples. Finally, we operate a dynamic cone penetrometer to assess the in-situ strength of undisturbed soils and compacted materials in accordance with ASTM D 6951.

Drone Capabilities

Eustis Engineering utilizes small Unmanned Aerial Systems (sUAS), more commonly known as "drones," to enhance our services. We use drones to perform site inspections, field reconnaissance, pre/post-construction condition surveys, construction inspections, and other forms of visual monitoring. We currently operate a DJI Mavic Air 2S Drone piloted by a Part 107 Certified Remote Pilot.

LABORATORY SERVICES

Eustis Engineering's laboratories are constantly evolving with the purchase of new equipment on a yearly basis. Our gINT® data management software from Bentley allows for maximum efficiency in the production of boring logs and data entry.

Eustis Engineering has also acquired OpenGround®, Bentley's Cloud platform, which interfaces with a collection of geotechnical applications. OpenGround provides a comprehensive solution for collecting, reporting, managing, visualizing, analyzing, and accessing data. Its advanced digital workflows combine both subsurface and surface data into one cohesive design. This software provides Eustis Engineering's team members access to a data source via connected applications or a web portal, increasing both collaboration and efficiency. Improved access and reliability will save time and money in the planning, design, analysis, construction, and operation of infrastructure projects.

Eustis Engineering has also acquired KeyLAB® from Bentley. KeyLAB is the leading laboratory management system built specifically for geotechnical and construction materials testing laboratories. It improves our laboratory efficiency at every stage of the geotechnical and construction testing process, including sample and storeroom management, as well as electronic scheduling, testing, and reporting. It integrates with Microsoft Excel®, allowing for the efficient development of customized worksheets and reports.

Technical testing common to our laboratories includes ASTM; American Concrete Institute (ACI); State of Louisiana, Department of Transportation and Development (LaDOTD); AASHTO; FAA; and the U.S. Army Corps of Engineers (USACE). Our laboratories hold accreditations from AASHTO, LaDOTD, and the USACE.

Laboratory Staffing

Eustis Engineering currently has qualified technicians to sample construction materials and perform soil mechanics laboratory testing. These technicians are versed in the latest standards from ASTM, LaDOTD, MDOT, AASHTO, FAA, and the USACE. Many of our technicians have earned certifications with the National Institute for Certification in Engineering Technologies (NICET) in the area of geotechnical engineering technology and in the subfields of construction, exploration, generalist, and laboratory.

Laboratory Quality Control

In our effort to ensure the quality of our laboratory and materials testing, our programs are regularly inspected by outside agencies such as the USACE, the AMRL Group of the American Association of State Highway and Transportation Officials, and the CCRL Group of AASHTO. Eustis Engineering is also accredited by the Mississippi Department of Transportation.

Eustis Engineering has three soil mechanics laboratories where our laboratory practices and quality management system meet the requirements of AASHTO R 18 and ASTM E329. These offices are located in Metairie, Baton Rouge, and Gulfport. Individual offices may comply with ASTM quality system specifications including ASTM C1077, ASTM D366, and ASTM D3740. Accreditations in the various areas are shown below.

Metairie	Baton Rouge	Gulfport
Aggregate Concrete Masonry Soil	Aggregate Soil Concrete Spray Fire-Resistive Material	Aggregate Asphalt Concrete Soil Spray Fire-Resistive Material

To further show quality is paramount to Eustis Engineering, we have two individuals in charge of maintaining quality in our testing. Travis R. Richards, P.E., is the Engineer-In-Charge. Timmy Holleman, dedicated Quality Control Manager, oversees the calibration of our equipment and maintenance of our quality system. The biggest reward of our quality system is knowing our clients are confident our testing laboratories produce the highest quality results and conform to state and national standards.

CONSTRUCTION MATERIALS TESTING

Eustis Engineering has been involved in construction materials testing (CMT) and inspection on a regular basis since the mid-1980s. Over the past 30+ years, Eustis Engineering has accumulated a wealth of experienced technicians in these areas. Whether 20 feet down in an excavation or 20 stories up in a high rise, our CMT technicians are there providing the inspection services needed on individual projects.

Staffing

Eustis Engineering currently has nearly 30 technicians on staff to provide construction inspection services on a daily basis. These services encompass the areas of soils, piling, asphalt, concrete, steel, and others.

Services

Soils testing in the field is performed by means of density tests, fill placement inspection, and depth checks. These services are performed by technicians who have attended courses by Troxler or Humboldt in the use of nuclear density devices.

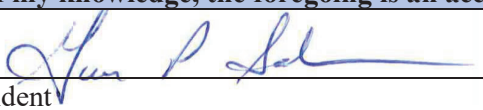
Piling services include the inspection of various types of piles, logging these piles, and performance of pile load tests with calibrated equipment. Load test results are, in turn, interpreted and reported by a registered engineer on our staff.

Our realm of concrete inspection includes the formulation and review of mix designs, quality control at the plant and in the field, materials testing and sampling, precast piling inspection, post tension inspection, floor flatness, and mortar and grout inspection. These services are performed by our ACI and NICET certified technicians.

Steel inspection may include the visual inspection of structural steel at the site or in the shop, steel and pipe coating sampling, post tension and welder certification witnessing, and the performance of ultrasonic and x-ray testing. These services are performed by members of our staff currently certified with AWS, ASNT, and/or ASME.

Other CMT services provided by Eustis Engineering personnel include fireproofing inspection, vibration and acoustical monitoring, paint inspection, and more.

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

Signature:  **Print Name:** Gwendolyn P. Sanders, P.E.

Title: President **Date:** 14 January 2025

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:
Sala Avenue Historic District Drainage Feasibility Analysis and Improvement Project

B. Firm Name & Address:

Dana Brown & Associates
1836 Valence Street
New Orleans, LA 70115

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:

Dana Nunez Brown
Louisiana licensed Landscape Architect
Landscape Architect No. B-360
504.345.2639
dbrown@danabrownassociates.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.

Dana Nunez Brown
Louisiana licensed Landscape Architect & Planner
Landscape Architect No. B-360; AICP No. 021644
504.345.2639
dbrown@danabrownassociates.com

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

1 Administrative	___ Estimators	___ Specification Writers
___ Architects (Licensed)	___ Geologists	___ Structural Engineers
___ Chemical Engineers	___ Geotechnical Engineers	___ Graduate Engineers
___ Civil Engineers	___ Interior Designers	___ Project Managers
___ Construction Inspectors	5 Landscape Architects	___ Clerical
___ Ecologists	___ Land Surveyor	___ Grant/Funding Specialist
___ Electrical Engineers	___ Mechanical Engineers	___ Sanitary Engineers
___ Engineer Intern	___ Environmental Engineers	
___ Professional Land Surveyors		6 **TOTAL**

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

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

TEC Professional Services Questionnaire

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

1. N/A

2. N/A

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

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

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

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

N/A

TEC Professional Services Questionnaire

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

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Dana Nunez Brown, President

Project Assignment:

Landscape Architect

Name of Firm with which associated:

Dana Brown & Associates, Inc.

Years' experience with this Firm:

20

Education: Degree(s)/Year/Specialization:

Master of Landscape Architecture, Harvard Graduate School of Design, 1981
Bachelor of Landscape Architecture, LSU, 1979

Active registration: Year first registered/discipline:

Louisiana licensed Landscape Architect, No. B-360, 1983

Other experience and qualifications relevant to the proposed Project:

Dana Brown has over 40 years of experience as a landscape architect and planner, managing projects with a wide range of sizes and budgets. She is a licensed Landscape Architect, a LEED Accredited Professional, a Certified Planner, and a Fellow of the American Society of Landscape Architects. Dana's work focuses on urban design, park design, stormwater management, and community engagement. She has been complimented by officials of New Orleans, Gretna, Hammond, Lafayette, Baton Rouge, Lake Charles, Houma, and others on her authentic interaction with stakeholders and members of the public to create memorable and functional spaces. Dana is also the author of "Using Plants for Stormwater Management: A Green Infrastructure Guide for the Gulf South."

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Danielle Duhe, Principal
Project Assignment:
Landscape Architect
Name of Firm with which associated:
Dana Brown & Associates, Inc.
Years' experience with this Firm:
12
Education: Degree(s)/Year/Specialization:
Bachelor of Landscape Architecture, LSU, 2012
Active registration: Year first registered/discipline:
Louisiana licensed Landscape Architect, No. D-277, 2019
Other experience and qualifications relevant to the proposed Project:
Danielle Duhe is a Principal and licensed Landscape Architect at DBA with over a decade of experience in outreach and education, parks and recreational planning, and in the design and construction of stormwater management facilities. Danielle has worked on a number of projects that have focused on pedestrian safety through design strategies, all while incorporating green infrastructure facilities. She is a consummate project manager, giving great attention to design, budget, and schedule while never losing sight of a project's purpose and goals. Danielle is a very active volunteer in the community, leading tours of green infrastructure, speaking at community events, and bringing her professional experience in design to her personal involvement in improving her hometown.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Ry'yan Clark, Senior Associate
Project Assignment:
Landscape Architect
Name of Firm with which associated:
Dana Brown & Associates, Inc.
Years' experience with this Firm:
3
Education: Degree(s)/Year/Specialization:
Master of Science in Plant Biology & Conservation, Northwestern University, 2022 Bachelor of Landscape Architecture, LSU, 2017
Active registration: Year first registered/discipline:
Louisiana licensed Landscape Architect, No. C-342, 2024
Other experience and qualifications relevant to the proposed Project:
Ryyan's landscape architecture design approach integrates art theory and leverages his technical experience in visualization and diagrammatic planning to foster community engagement on both large and small scale projects. He is experienced in planning native coastal Louisiana and Midwestern prairie plantings and utilizing diverse plant color palettes that cater to both the aesthetic and functional requirements of a project. Ry'yan employs 8 years of experience designing stormwater management facilities, master plan reports, site scale landscape designs, and planting design tools on every project he undertakes.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Chad Wilkins, Senior Associate
Project Assignment:
Landscape Architect
Name of Firm with which associated:
Dana Brown & Associates, Inc.
Years' experience with this Firm:
3
Education: Degree(s)/Year/Specialization:
Bachelor of Landscape Architecture, LSU, 2022
Active registration: Year first registered/discipline:
Louisiana licensed Landscape Architect, No. W-268, 2023 Louisiana licensed Landscape Horticulturist, No. 3086, 2007
Other experience and qualifications relevant to the proposed Project:
Chad Wilkins first joined the DBA team as an intern in 2020 and is now a full-time staff member. Before joining DBA, Chad owned his own landscape construction company, which he sold to pursue a Bachelor of Landscape Architecture degree from LSU. As a licensed Landscape Horticulturist and Green Infrastructure Professional, Chad brings a wealth of expertise and qualifications to his work. His passion lies in merging his love for plants and green infrastructure to craft stunning yet eco-friendly landscapes. Thanks to his extensive experience as a full-service landscaping professional, Chad has an in-depth understanding of landscape construction and irrigation. This enables him to provide valuable insights and solutions to clients, ensuring their construction needs are met with expertise and care.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Kayla McCartney, Associate
Project Assignment:
Landscape Architectural Designer
Name of Firm with which associated:
Dana Brown & Associates, Inc.
Years' experience with this Firm:
0.5
Education: Degree(s)/Year/Specialization:
Bachelor of Landscape Architecture, University of Georgia, 2024
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
Kayla McCartney first joined Dana Brown & Associates as an Associate in 2024. Before joining DBA, Kayla worked as an intern with LandDesign in Charlotte, NC. She graduated with her Bachelors in Landscape Architecture from the University of Georgia in 2024. As an emerging professional in the field of landscape architecture, Kayla is passionate about designing ecologically and culturally sensitive landscapes with her strong foundation in the principles of landscape architecture.

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

PROJECT NO. 1

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Sala Avenue Improvements Sala Avenue Westwego, LA City of Westwego Mayor Robert Billiot 504.347.5745	DBA has been retained by the City of Westwego to redesign Sala Avenue from River Road to 4th Street. The master plan project will emphasize incorporating nature-based stormwater management solutions, enhancing ADA accessibility, and establishing a distinctive and memorable identity for this significant economic and historic corridor.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
Design Phase: est. October 2025	Construction: N/A	N/A

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Regenerative Westwego: **A Blueprint for Small Town Adaptation and Equity** Westwego, LA City of Westwego Mayor Robert Billiot 504.347.5745	DBA participated in the GNOF Next 100 Years Challenge by crafting a grant application for the City of Westwego. This effort earned an honorable mention and secured $40,000 to support further development of plans for the City. The proposal outlined a master plan for enhancing the 4th Street and Sala Avenue corridors, emphasizing nature-based stormwater solutions, street trees, pervious paving, and artful crosswalks.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
July 2023	Construction: N/A	N/A

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility**	
Lazy River Landing Sala Avenue at River Road Westwego, LA City of Westwego Mayor Robert Billiot 504.347.5745	DBA was engaged by the City of Westwego to develop a perspective rendering to envision a future pedestrian crossing over River Road and develop new signage for the crossing.	
Completion Date (Actual or estimated)	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
May 2024	N/A	

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Gretna Downtown Stormwater Management Gretna, LA City of Gretna Amelia Pellegrin apellegrin@gretnala.com	As part of an effort to address flooding and improve pedestrian safety in Historic Downtown Gretna, DBA lead the design and construction of the project that reduces flood risk and enhances the public space outside Gretna City Hall. The project renovated over two acres, including the neutral ground and adjacent streets, removing 40% of impervious surfaces. DBA implemented green infrastructure features, including pervious paving, subsurface storage tanks, and tree cells, which together detain and filter over 14,600 cubic feet of stormwater runoff.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
November 2020	Construction: $2.1 M	$2.1 M

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Bayou Metairie Park 2713 Metairie Road Metairie, LA Jefferson Parish Council-at-Large Jennifer Van Vrancken 504.736.6615	DBA's design of Bayou Metairie Park addresses localized flooding in a rapidly developing commercial area of Metairie Road. Preserving this open green space in addition to installing permeable pavement and bioretention areas with water-loving native plants further increases the site's stormwater storage capacity. The park is a precedent for natural, multi-benefit stormwater management as well as an educational opportunity for the community. Additionally, the park serves as a gathering hub and functions as a traditional passive recreation space. This creates a sense of place for the community and improve every day and special event usability.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
September 2021	Construction: $509,000	$509,000

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Westbank Expressway Median Improvements Highway 90 from Wayne Avenue to Terry Parkway Jefferson Parish Parkways Department Bryan Parks 504.349.5800	DBA was selected by Jefferson Parish to enhance 8 miles of open space beneath the elevated Westbank Expressway. The project improved surface-level intersections and the visual experience near the on/off ramps. Improvements included expanding planted areas with new vegetation, adding weathering steel walls with decorative rock, and implementing a branding strategy with curved walls and raised lettering at key intersections. The on/off ramps were upgraded with decorative rock to reduce maintenance, improving both aesthetics and safety by minimizing the time crews spent in high-risk areas.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
April 2024	Construction: $1.4 M	$1.4 M

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Pontilly Stormwater Management New Orleans, LA City of New Orleans, DPW Meagan Williams 504.658.8420	DBA was part of the team commissioned to design the FEMA HMGP funded project that reduces flood risk for two low-income, minority neighborhoods that experience repetitive flood damage. The project substantially reduces localized flooding across the 900-acre area. DBA worked closely with the project engineers to analyze existing site conditions and to develop concepts to iteratively model the most hydrologically effective green infrastructure interventions.The project features various forms of green infrastructure facilities, including 38 stormwater lots; 13 blocks of bioswales; 90,500 square foot bioswale; and 24 bioretention cells in street basins at intersections.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
March 2021	Construction: $14.5 M	$3.9 M

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
DPS01 Drainage & Green Infrastructure New Orleans, LA City of New Orleans Erika Boerr 504.658.8475	The DPS-01 project is designed to reduce flooding throughout eigth neighborhoods of New Orleans by upsizing pipes and incoporating green infrastructure. The project is funded by FEMA HMGP. DBA worked with project engineers to design a series of green infrastructure facilities that will reduce downstream flooding in some the of the lowest elevations of the city. The green infrastructure will serve to intercept, filter, and store stormwater runoff where it lands, while promoting infiltration and therefore reducing subsidence. Green infrastructure facilities in the project include stormwater lots, street basins, pervious paver street gutters, bioswales, and subsurface storage tanks. Phase 1 of the project is currently under construction.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
Phase 1 Construction: Est. July 2026	Phase 1 Construction: $39.6 M	$6.5 M

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Clearview Parkway-Earhart Expressway Interchange Improvements Clearview Pkwy. at Earhart Blvd Elmwood, LA 70123 Jefferson Parish Parkways Dept. Bryan Parks 504.349.5800	DBA was hired to develop conceptual design plans for the Clearview Parkway and Earhart Expressway interchange focusing around the existing retention ponds. The plans include native planting, gateway signage, and the re-naturalization of pond edges. These new site features were designed to comply with DOTD regulations while enhancing aesthetics and creating a sense of place at this heavily trafficked intersection that is a gateway into Elmwood.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
Design Phase: est. March 2025	Construction: $1.3 M (est)	$1.3 M (est)

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	**Nature of Firm's Responsibility:**	
Bayou St. John Green Infrastructure Demonstration Project 3598 Orleans Avenue, New Orleans, LA Sewerage & Water Board New Orleans Grace Vogel gvogel@swbno.org	DBA was hired by the Sewerage & Water Board to design a series of green infrastructure facilities that would reduce localized flooding and provide an educational space for residents and school children about how green infrastructure works and its benefits. The project features five types of green infrastructure, 50 new trees, educational signage, and a native prairie planting. Each of the green infrastructure types installed are being monitored for how they improve the quality of stormwater runoff from surrounding impervious surfaces. The site has the capacity to detain and filter over 13,000 cubic feet of stormwater runoff.	
Completion Date (Actual or estimated):	**Estimated Cost:**	
	Entire Project:	**Work for which Firm was Responsible:**
December 2022	Construction: $217,300	$217,300

TEC Professional Services Questionnaire

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

Parties:		Status/Result of Case:
Plaintiff:	**Defendant:**	
1. N/A	N/A	N/A
2. N/A	N/A	N/A
3. N/A	N/A	N/A
4. N/A	N/A	N/A

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

DBA is a professional landscape architecture and planning firm whose mission is to create beautiful and functional landscapes that respond to the ecology of the land and reflect the cultural heritage of the community. One of the firm's hallmarks is the intersection of design and science in all of our projects: developing a deep understanding of the project site and its context above and below ground, enabling us to design resiliently and sustainability specifically focused to the areas. DBA is well known in the region as the go-to landscape architecture firm for creative planning and design that is sustainable and resilient, as well as for meaningful engagement with stakeholders and the public, highly responsive client service, and meeting project schedules and budgets. Our portfolio of built works includes public and private urban design of plazas, parks, streetscapes, and green infrastructure.

DBA is a state certified Disadvantaged Women's Business Enterprise (WBE), SEDBE, SBA WOSB, SLDBE, and HANO DWBE. DBA is also certified through the Louisiana Economic Development Department's Hudson Initiative.

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

Signature: _____ **Print Name:** Dana Nunez Brown

Title: President **Date:** 2025.01.16

Dana Brown & Associates (DBA) is a professional landscape architecture and planning firm whose mission is to create beautiful and functional landscapes that respond to the ecology of the land and reflect the cultural heritage of the community. One of the firm's hallmarks is the intersection of design and science in all of their projects: developing a deep understanding of the project site and its context above and below ground, enabling DBA to design resiliently and sustainability specifically focused to the areas. DBA is well known in the region as the go-to landscape architecture firm for creative planning and design that is sustainable and resilient, as well as for meaningful engagement with stakeholders and the public, highly responsive client service, and meeting project schedules and budgets. DBA's portfolio of built works includes public and private urban design of plazas, parks, streetscapes, and green infrastructure.

Located in New Orleans and in business since 2004, DBA has extensive experience in community outreach and engagement, the design of parks and recreational facilities, design of complete streets and streetscapes, stormwater management planning, and green infrastructure design. DBA staff incorporate our shared heritage into all our designs. DBA shares a distinct vision for design in Louisiana: designing legible, beautifully crafted landscapes that respond to the ecological integrity of the land and reflect the cultural heritage of its people.

DBA is a state certified Disadvantaged Women's Business Enterprise (WBE), SEDBE, SBA WOSB, SLDBE, and HANO DWBE. DBA is also certified through the Louisiana Economic Development Department's Hudson Initiative.

Stormwater Management:
For over fifteen years DBA has been a proven leader in green infrastructure design and construction administration, as well as in educating professionals and the public. As a result, DBA's staff is the most knowledgeable and experienced at creating effective stormwater management systems in South Louisiana, particularly as retrofits in urbanized areas and in concert with roadway improvements.

DBA has designed and managed the implementation of over 40 acres of green infrastructure that manages roughly 770,000 cubic feet of stormwater runoff in Southeast Louisiana, including notable projects such as the City Park Wetland, Pontilly Hazard Mitigation, DPS01 Drainage & Green Infrastructure, NORA Stormwater Lots, and work on the Urban Water Plan.