

STATEMENT OF QUALIFICATIONS

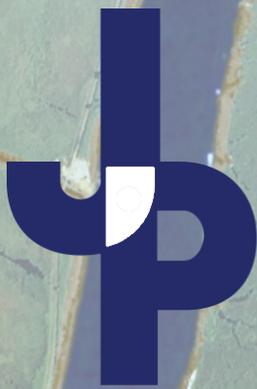
for

**COASTAL ENGINEERING SERVICES
AS NEEDED PARISH WIDE**

July 16, 2024

SOQ 24-020

Resolution # 144205



**Jefferson
Parish**

State of Louisiana

Submitted By:



PRINCIPAL

Engineering, Inc.

PRINCIPAL Infrastructure®

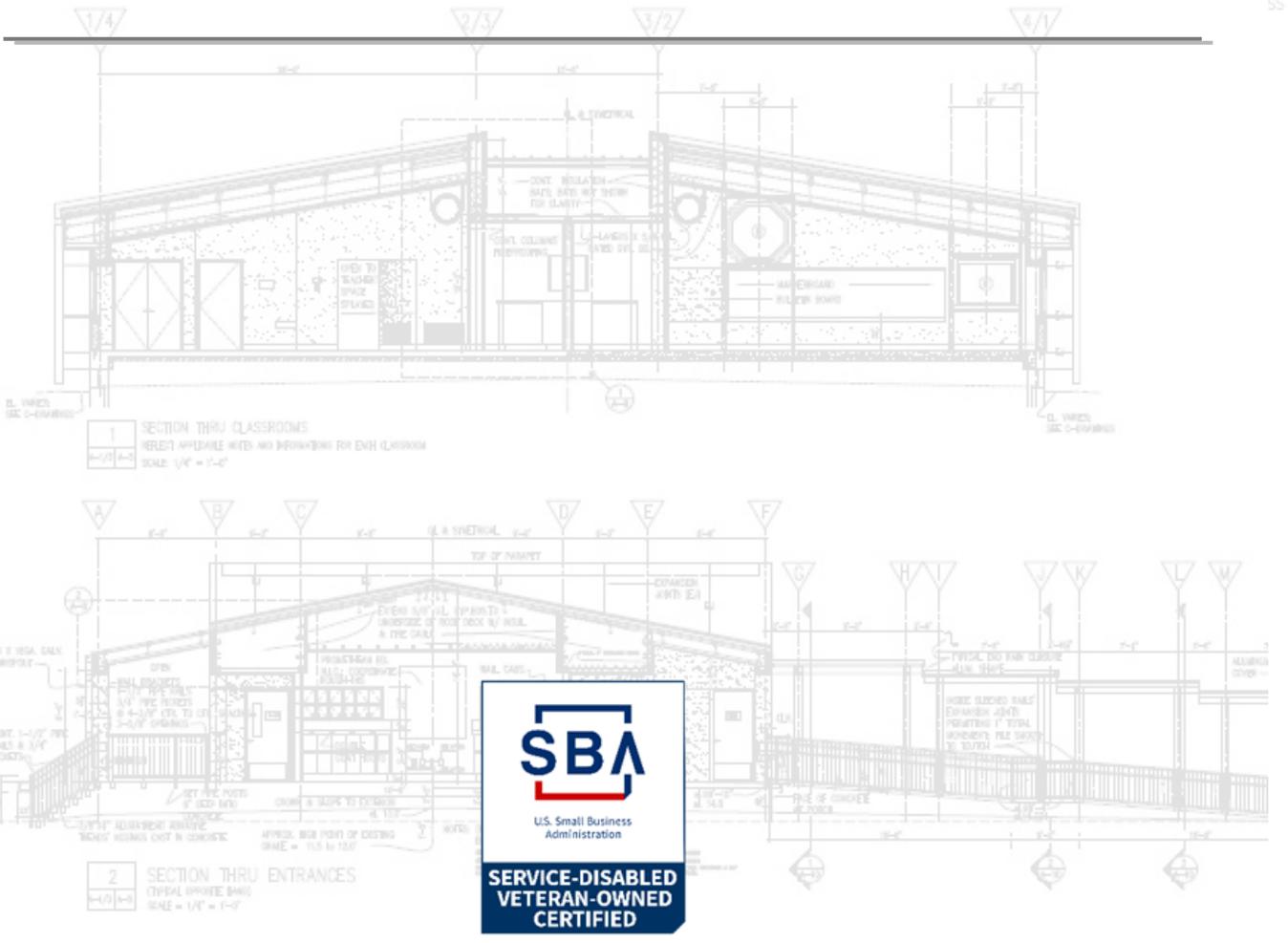
Architecture ♦ Engineering ♦ Construction

www.pi-aec.com ♦ info@pi-aec.com



“To Exceed Client Expectations; That’s our Mission.”

Henry I. DiFranco, Jr., PE, MBA
 President



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 SS



128 Northpark Boulevard ♦ Covington, Louisiana 70433 ♦ Phone: 985.624.5001

July 16, 2024

Jefferson Parish
Purchasing Department
Attn: Mark Buttery – Purchasing Specialist II
200 Derbigny St., Suite 4400
Gretna, LA 70053

Re: Statement of Qualifications to provide Coastal Engineering Consulting Services
As-Needed Parish Wide | SOQ 24-020 | Resolution No. 144205

Dear Mr. Buttery,

PRINCIPAL Engineering, Inc. is pleased to submit our Statement of Qualifications for Routine Engineering Services for Coastal Projects. We are a federal SBA certified *Service-Disabled Veteran Owned Small Business (SDVOSB)* with an exceptionally qualified team of professionals capable of providing consulting engineering services.

We look forward to the opportunity to serve Jefferson Parish Government by providing quality coastal engineering consulting services on an as-needed basis for miscellaneous projects located throughout Jefferson Parish for the Department of Ecosystem and Coastal Management. If you have any questions or require additional information, please contact me at the number above.

Sincerely,
PRINCIPAL Engineering, Inc.

A handwritten signature in blue ink that reads "Henry I. DiFranco, Jr.".

Henry I. DiFranco, Jr. PE
President



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TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

**Coastal Engineering Consulting as-needed Parish Wide
SOQ # 24-020 | Resolution No. 144205**

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



**128 Northpark Boulevard
Covington, Louisiana 70433**

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:

**Henry I. DiFranco, Jr., PE
President
128 Northpark Blvd.
Covington, LA 70433
(985) 624-5001 | henry@pi-aec.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.

**Andre C. Monnot, PE
Vice President
128 Northpark Blvd.
Covington, LA 70433
(985) 624-5001 | andre@pi-aec.com**

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

<u>3</u> Administrative	<u> </u> Estimators	<u> </u> Specification Writers
<u>1</u> Architects (Licensed)	<u> </u> Geologists	<u>1</u> Civil/Structural Engineers
<u> </u> Chemical Engineers	<u> </u> Geotechnical Engineers	<u> </u> Graduate Engineers
<u>3</u> Civil Engineers	<u> </u> Interior Designers	<u>2</u> Project Managers (PH/EI)
<u>5</u> Construction Inspectors	<u> </u> Landscape Architects	<u> </u> Clerical
<u> </u> Ecologists	<u> </u> Land Surveyor	<u> </u> Grant/Funding Specialist
<u>1</u> Electrical Engineers	<u> </u> Mechanical Engineers	<u>1</u> Sanitary Engineers
<u>1</u> Engineer Intern	<u> </u> Environmental Engineers	
<u> </u> Professional Land Surveyors	<u>6</u> Other (Engr Tech & CAD Support)	<u>24</u> TOTAL

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

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



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. NA – NONE

2.

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

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):
Neel-Schaffer, Inc. 1340 Poydras Street, Suite 1950 New Orleans, LA 70112 (504) 875-4662	Coastal & Environmental Engineering	YES
Sub-Consultants for Surveying, Geotechnical or any other specialty to be selected upon issuance of assignments under this contract.		

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

12

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:

Andre C. Monnot, PE, Vice President

Project Assignment:

Professional in Charge/Project Manager – Meets the Minimum Requirement #2-, “The persons or firms under consideration shall have a professional in charge of the Project who is a licensed, registered engineer in the State of Louisiana with a minimum of five (5) years’ experience.”

Name of Firm with which associated:



Years' experience with this Firm:

15 (others, 6)

Education: Degree(s)/Year/Specialization:

BSCE/2002/Civil Engineering

Active registration: Year first registered/discipline:

Professional Engineer – 2007, Civil, Louisiana, License No. 33626

Other experience and qualifications relevant to the proposed Project:

Mr. Monnot has a diverse range of engineering and management experience in both the public sector as a military engineer and as a private consultant. He has demonstrated experience in large-scale H & H drainage modeling and planning, shoreline processes and shoreline protection. Mr. Monnot has gained valuable experience in Water Bottom Reclamation & Riparian Rights due to his project success on numerous coastal protection and restoration projects. Mr. Monnot has been the lead engineer for the CPRA's Mid Barataria Sediment Diversion project and the Lake Pontchartrain Shoreline Protection and Restoration for the City of Mandeville as well as several other coastal related projects.

Prior Related Contract Roles; Program / Contract Management:

- Water Resources Planning, Project and Program Management
- Data Analysis and Management, -Meeting/Reporting Requirements
- Environmental, Biological and Infrastructure Surveys, Environmental Characterization, Compliance &HTRW
- Environmental and Risk Assessment Modeling, -Environmental Studies and Reports



TEC Professional Services Questionnaire

Mr. Monnot continued...

PROJECT RELATED EXPERIENCE:

Bucktown Marsh Overlook | Lake Pontchartrain South Shore Coastal Reclamation and Reengagement Project Jefferson Parish Ecosystem and Coastal Management | Jefferson Parish, La

Mr. Monnot was the lead Project Engineer for design of this project. The 900 sq ft deck platform is supported by five 20'' diameter timber poles, projecting 25 ft above the platform, with fabricated metal branches and leaves, invoking forested swamp surroundings. The foundation is pile-supported reinforced concrete slab, designed to resist breaking waves.

Mid-Barataria Sediment Diversion - CPRA, Plaquemines Parish, La

Mr. Monnot is the lead PM for Principal Engineering for this project. The Mid-Barataria Sediment Diversion project is one of the largest sediment capture and transport projects being undertaken under this aggressive program to rebuild the coast of Louisiana. PRINCIPAL developed criteria to govern the alternative screening & selection, design, and detailing of armoring on the MRLs, headworks, and channel. PRINCIPAL used H&H model result parameters (including inverted siphon diameters, profiles, weir geometry and elevations, approach geometry, outfall geometry, required blow-off locations and diameters) and operational requirements to develop concept-level plan and profile drawings of the inverted siphon conveyances and structures. Client: LA CPRA

Old Mandeville Shoreline & Tidal Projection, Mandeville, La

A drainage analysis and tidal/wave modeling were performed in an effort to protect areas along the Old Mandeville Lakefront from flooding during tidal/wave and rainfall events. Mr. Monnot was the project coordinator and responsible for overseeing plan preparation and quality control. Client: City of Mandeville

Lakefront Wetlands Restoration Permitting, Mandeville, La

Mr. Monnot completed the **permitting** process for this Lake Pontchartrain shoreline project, including CUP authorization from DNR, section 404 permit from the USACE, Water Quality Certification from LADEQ, Class E Land Lease from LA State Lands Office, and U.S. Coast Guard Authorization. This included mitigation for submerged aquatic vegetation and implementation of construction noise reduction requirements to protect Gulf Sturgeon fingerlings and Manatee as required by NOAA. Mr. Monnot also submitted numerous grant applications to GOHSEP and FEMA including cost/benefit analysis.

Tchefuncte Marsh Shoreline Restoration, Mandeville, La

PRINCIPAL has been contracted to scope the project and design a plan that would further prevent shoreline erosion and trap sediment in the lee of the structure, reversing some effects of past shoreline erosion and creating an environment conducive to submerged aquatic vegetation. Mr. Monnot was the project coordinator and responsible for overseeing plan preparation and quality control. Client: City of Mandeville

Tchefuncte Marsh Assimilation Wetland Pipeline Extension, Mandeville, La

This project uses the ability of existing marsh vegetation to remove nutrients from sewer effluent, while simultaneously increasing the fresh water in the marsh, bolstering plant growth and slowing the loss of freshwater marsh due to saltwater intrusion. Mr. Monnot was the project coordinator and responsible for overseeing plan preparation and quality control. Client: City of Mandeville

Lower Lafitte (Orange Street Basin) Tidal Protection, Town of Jean Lafitte, La

Mr. Monnot is the lead PM for the project. PRINCIPAL is responsible for the design of new required earthen levees, including a description of the process for constructing required improvements to raise existing earthen levees to a top of levee elevation of 8.5 MSL, the design of new required Concrete-Capped Steel Sheet pile Floodwalls to top of cap elevation 7.5 MSL. Also, responsible for the determination of required rights-of-way, access easements, and limits-of-construction for the levees and floodwalls.

Waggaman Area Drainage Master Plan, Jefferson Parish, La

PRINCIPAL conducted an H&H study of the entire Lake Catouache drainage basin to determine which control projects will yield upstream flooding relief for residents, and open vacant property for development. Mr. Monnot was the project coordinator and responsible for overseeing plan preparation and quality control. Client: Jefferson Parish Gov't.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Henry I. DiFranco, PE, MBA, President
Project Assignment:
Project Principal – Meets the Minimum Requirement #1- “The persons or firms under consideration shall have at least one (1) principal who is a licensed professional engineer in the State of Louisiana.”
Name of Firm with which associated:

Years' experience with this Firm:
20 years (others, 12)
Education: Degree(s)/Year/Specialization:
BSCE/1991/Civil Engineering MBA/1998/Business Administration
Active registration: Year first registered/discipline:
Professional Engineer – 1997, Civil, Louisiana License No. 27448
Other experience and qualifications relevant to the proposed Project:
<p>Mr. DiFranco, President of PRINCIPAL, has extensive experience in Public Works engineering serving as the Director of Public Works & Utilities for St. John Parish and holding numerous positions as a public works engineer and consulting engineer throughout his 30+ year career. He has been responsible for numerous water distribution and treatment improvement projects and programs. He planned and managed a parish-wide water system mapping and modeling program in St. John Parish to identify system needs. He was instrumental in analyzing the existing conditions model to develop a list of recommended alternatives to address system needs. As a result of this effort, the Parish Gov. approved a \$10 million dollar capital improvement program to repair and construct new water system infrastructure. The projects included the construction of new elevated and ground water storage tanks to the installation of new water treatment & disinfection equipment. The program also consisted of identifying methods to reduce water loss from distribution system leaks. Various point repairs and water meter replacements were completed which resulted in a decrease of water loss. Other significant projects throughout his career includes the expansion of the Lyons water treatment plant and the analysis and alternate water treatment methods for trihalomethane (THM) and halo acidic (HAA) reduction in the Ruddock water system for St. John Parish. He also performed the design, preparation of construction documents and contract administration of the Terrytown Water System Improvements for JP while working as a design consultant.</p>

TEC Professional Services Questionnaire

Mr. DiFranco Continued...

PROJECT RELATED EXPERIENCE

Old Mandeville Shoreline & Tidal Projection, Mandeville, La

A drainage analysis and tidal/wave modeling were performed in an effort to protect areas along the Old Mandeville Lakefront from flooding during tidal/wave and rainfall events. Mr. DiFranco prepared the scope of work, reviewed all reports and models submitted by the design consultant, attended public meetings and served as a liaison for the owner. Client: City of Mandeville

Tchefuncte Marsh Shoreline Restoration, Mandeville, La

Principal has been contracted to scope the project and design a plan that would further prevent shoreline erosion and trap sediment in the lee of the structure, reversing some effects of past shoreline erosion and creating an environment conducive to submerged aquatic vegetation. Mr. DiFranco oversaw the planning and design. Client: City of Mandeville

Tchefuncte Marsh Wetland Assimilation WWTP Pipeline Extension, Mandeville, La

This project uses the ability of existing marsh vegetation to remove nutrients from sewer effluent, while simultaneously increasing the fresh water in the marsh, bolstering plant growth and slowing the loss of freshwater marsh due to saltwater intrusion. Mr. DiFranco oversaw permitting on the federal and state level, planning and design. Client: City of Mandeville

St. Tammany Parish Coastal Master Plan, St. Tammany Parish, La

As the Chairman of the STLDCD, Mr. DiFranco developed the scope of work and is managing the collection and organizing of existing flood control assets and project data in the St. Tammany coastal zone; perform gap analysis to identify areas that are vulnerable to tidal surge, flooding and wetland loss/reduction; review current models to determine data gaps; develop conceptual coastal project alternatives, including costs; perform benefit/cost analyses; coastal engineering and design, as prioritized by the parish.

Waggaman Area Drainage Master Plan, Jefferson Parish, La

Mr. DiFranco scoped and managed a H&H modeling study of the entire Lake Catouache drainage basin to determine which control projects will yield upstream flooding relief for residents, and open vacant property for development.

Client: Jefferson Parish Gov't.

USACE IDIQ A/E Design and Construction Management - W912P8-09-D-0014, New Orleans, La

Mr. DiFranco provided A/E design and construction management services for USACE flood control projects within the New Orleans district under a \$90M IDIQ Contract.

Client: U.S. Army Corps of Engineers – New Orleans Dist.

Airline Park Blvd. Drainage Pump Station, Jefferson Parish, La

The project includes the construction of a new drainage pump station at Airline Park and West Metairie Canal. Principal analyzed area hydrology and performed hydraulic calculations to establish/verify proposed subsurface pipe sizes and to design a 45 cfs drainage pump station.

Client: Jefferson Parish Government.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Tom Schreiner, PE

Project Assignment:

Senior Project Engineer - Meets the Minimum Requirement #3- "The persons or firms under consideration shall have one (1) employee who is a licensed, registered architect and/or professional engineer in the State of Louisiana in the applicable discipline involved."

Name of Firm with which associated:**Years' experience with this Firm:**

3

Education: Degree(s)/Year/Specialization:

Bachelor of Science/1980/Civil Engineering

Active registration: Year first registered/discipline:

Professional Engineer – 1985, Civil & Environmental, Louisiana License No. 21892

Other experience and qualifications relevant to the proposed Project:

Mr. Schreiner has worked successfully as a project manager and program manager on municipal, commercial, institutional, and industrial projects. He has cohesively worked with multiple governmental agencies on a broad spectrum of projects. Mr. Schreiner's experience includes both private and governmental positions. Professional Affiliations: American Society of Civil Engineers (ASCE), American Water-Works Association (AWWA).

PROJECT EXPERIENCE:**Rachel Street Pump Station, Lafitte Levee District, LA**

Project consists of designing a new pump station in the Goose Bayou area to accommodate a 10-year storm event in accordance with Jefferson Parish Standards. Drainage shall be designed to be tied into the existing drainage system. Principal is responsible for providing construction documents and a probable construction cost.

Grand Isle Drainage Pump Station, Jefferson Parish Government, LA

Principal is designing a new stormwater drainage pump station at the north end of Chighizola Lane in Grand Isle. The station is designed on an elevated platform and will discharge stormwater into the marsh. Project includes replacing large diameter CMP culvert adjacent to the station. Principal is also responsible for survey coordination, construction administration and resident inspection.



TEC Professional Services Questionnaire

Mr. Schreiner Continued...

City of Kenner Wastewater Capital Improvement Program, Kenner, LA

As Deputy CAO for the City of Kenner, responsible for the supervision of the Capital Sewer Improvement Program. Upon becoming involved with the program, was able to repurpose over \$15M of LDEQ loan funds to address other needs of the collection and treatment system. Eight additional capital improvement projects were identified with these savings.

Jefferson Parish Emergency/Alternate Water Supply Study, Jefferson Parish, LA

This study evaluated the feasibility of developing an alternate water supply in St. John Parish. Three alternatives were developed which included varying numbers of deep wells, treatment facilities at Ruddock, and a transmission system to convey a maximum of 95-mgd of treated water across a portion of Lake Pontchartrain to Jefferson Parish.

St. Tammany Parish Riverwood, Covington Country Club Drainage Improvements

Project Manager for the preparation of a statewide flood control application to relieve flooding in the Riverwood and Covington Country Club subdivisions in St. Tammany Parish, Louisiana. The application was successful. Design, bidding and construction management followed.

Bogue Chitto State Park, Covington, LA

Designed the site layout, drainage, and auxiliary roads for a new 1800-acre state park. Designed the water supply and distribution system, as well as the wastewater collection and treatment system (approx. 35,000 gpd) Provided construction administration.

Jefferson
Parish
State of Louisiana

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Natalya Munger, MSCE, PH, EI, Project Manager
Project Assignment:
Professional Hydrologist H&H Modeling
Name of Firm with which associated:

Years' experience with this Firm:
3 (others, 22)
Education: Degree(s)/Year/Specialization:
Master's Degree/1995/Civil Engineering
Active registration: Year first registered/discipline:
American Institute of Hydrology, Professional Hydrologist (P.H.) Engineer Intern, E.I. Louisiana No. 0030985
Other experience and qualifications relevant to the proposed Project:
<p>Ms. Munger received her degree in civil engineering with minors in surface water hydrology and surveying (Accreditation Board for Engineering and Technology [ABET] accredited). Furthermore, Ms. Munger has professional qualifications as a professional hydrologist (surface water) from the American Institute of Hydrology and has received professional qualifications as a Certified Engineer Intern.</p> <p>Ms. Munger holds computer skills that enhance her credentials even further. Her computer skills include but are not limited to <i>AutoCAD, LA DOTD HYDROWINT, PCSWMM, FHWA WSPRO, HEC-18, and HEC-RA.</i></p> <p>Natalya Munger will be the key engineer and professional hydrologist for hydrologic and hydraulic (H&H) and specialized modeling and overall environmental compliance.</p>

TEC Professional Services Questionnaire

Ms. Munger continued...

Prior Related Contract Roles:

- H&H Modeling
- Environmental and Risk Assessment Modeling
- Water Resources Planning

PROJECT RELATED EXPERIENCE:

St. Charles Parish East Bank Master Drainage Plan | St. Charles Parish, LA

Ms. Munger assisted in the preparation of Phase I & II of the East Bank Master Drainage Plan for eight drainage basins. The model for this effort was developed through analysis of various datasets provided by the parish using XPSTORM, EPASWMM, and AutoDesk's Storm and Sanitary Analysis, resulting in detailed drainage improvement recommendations. She is currently involved in Phase III of this planning.

Laketown Rock Jetty | Jefferson Parish, LA

Ms. Munger is assisting our project engineer on this project. PRINCIPAL is providing engineering design, bidding, construction phase and project close-out services in addition to an onsite restroom rehab. The project objective is to prevent sediment accretion in the Laketown boat launch channel from Spillway opening and wave action, while maintaining navigability for small boats and the casino boat, by constructing a rock jetty perpendicular to the shore. Work includes a preliminary data investigation, data collection, geotechnical report, survey, and the Coastal Process Study to predict local sediment transport patterns. The total proposed length of the jetty is 1,800 ft and total proposed height of the jetty 14 ft. PRINCIPAL studied sediment models to predict the broad-scale actions induced by Bonnet Carré Spillway opening. Due to underlying soil conditions, a lightweight aggregate core material is required to prevent excessive settlement. Phasing of the jetty was devised to accommodate available funds. 95% Design complete. (Construction Est. Summer 2022).

Subsurface Drainage Design City of New Orleans Department of Public Works, Multiple Locations | New Orleans, LA (ILSI Engineering, Inc.)

Ms. Munger prepared subsurface drainage design and hydraulic analysis using LADOTD HYDR6000 and HYDR6020 for multiple phases of New Orleans Department of Public Works project. Her work also included providing data points showing similar size and complexity. (2018 to 2020).

Southeast Louisiana Drainage Projects in Jefferson Parish | Jefferson Parish Department of Capital Projects | U.S. Army Corps of Engineers, Jefferson, LA (BCG Engineering & Consulting)

Ms. Munger prepared design and construction cost credit reports for Southeast Louisiana Drainage Projects in Jefferson Parish. So far, 59 contracts have been issued under this program for drainage improvements, which included drainage canals, pumping stations, and bridges on both sides of the Mississippi River. The total program cost was \$650 million. (2012 to 2017).

English Turn Drainage, City of New Orleans Sewerage and Water Board | New Orleans, LA (ILSI Engineering, Inc.)

Ms. Munger prepared a hydraulic model using PCSWMM for English Turn Subdivision to improve the capacity of the existing canals in the Algiers Sub-Basin and to increase the capacity of the nearby pump station (2019).

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Brien Croff, PE

Project Assignment:

Project Engineer Assistant

Name of Firm with which associated:**Years' experience with this Firm:**

3 (others, 6)

Education: Degree(s)/Year/Specialization:

Bachelor of Science/2015/Civil Engineering

Active registration: Year first registered/discipline:

**Professional Engineer - Civil, 2022, Louisiana License No. 0046408.
- Civil, 2020, Ohio, License No. 86190.**

Member of: Ohio EPA Certified Wastewater Treatment Operator

Other experience and qualifications relevant to the proposed Project:

Mr. Croff will have responsibility for planning, reports, and reviews. Brien has experience in project management, design drafting, hydraulic modeling and analysis, and technical report writing specifically in the areas of water supply and wastewater infrastructure.

Experience in Program/Contract Management:

- Data Analysis and Management
- Environmental, Biological and Infrastructure Surveys
- Environmental Studies and Reports
- Water Resources Planning
- Meeting/Reporting Requirements

PROJECT EXPERIENCE:**Mid Barataria Sediment Diversion | CPRA, Belle Chasse, LA (PRINCIPAL Engineering, Inc.)**

Project Engineer assistant for the design and cost estimate for a siphon in the Barataria Basin for the Mid-Barataria Sediment Diversion project for the State of Louisiana. This project consists of the analysis and design of different siphon structures to be integrated into the guide levees as well as the cost feasibility of alternatives.



TEC Professional Services Questionnaire

Mr. Croff Continued...

Mid Barataria Sediment Diversion continued...

Elements of design include reinforced concrete design and construction, using deep soil mixing for founding the structures and large-diameter pipelines, and access roads to and across the primary structures.

Fontainebleau State Park Force Main, City of Mandeville (PRINCIPAL Engineering, Inc.)

Mr. Croff is assisting with the design of this project in addition to completing the Coastal use permit application, permit drawings in progress, & submission of preliminary design draft as of early Jan. 2022. PRINCIPAL is performing Engineering Design and producing plans and specifications suitable for public bid, to replace the sanitary force main between City Lift Station 3, and the east bank of Bayou Castine. Design Submittals include 60%, 95% Pre-Final, and 100% Final. Engineer shall revise documents in accordance with City comments. Technical scope shall be according to the revised Pontchartrain Restoration Program (PRP) Work Plan.

St. Charles Eastbank Master Drainage Plan-Phase I | St. Charles Parish Gov. (PRINCIPAL Engineering, Inc.)

Phase I of the East Bank Master Drainage Plan for St. Charles Parish for the Montz, Norco, New Sarpy, and Ormond drainage basins (~5,000 acres of study area). Modeling platforms employed included XPSTORM, EPA SWMM, and Auto Desk's Storm and Sanitary Analysis. H&H modeling for the 25-yr and 100-yr design storms (NOAA Atlas14) was accomplished, and an integrated program of improvement projects developed for the design criteria. Datasets incorporated were drainage network GIS information validated against field survey; prior flood/drainage studies performed for the Parish in these areas, Lidar topography, public input and anecdotal evidence, present and historical aerial photography, and anticipated future flood control project effects (namely, West Lakeshore). The recommended program of Phase I projects total \$148M in construction cost, consisting of pumping station, conveyance, and detention improvements. (Completed: 2021)

Quentin Road EQ Basin and Pump Station Improvements, Eastlake, Ohio

On this project, Mr. Croff was the design engineer. Responsibilities included developing a basis of design, drafting of construction plans, cost estimate, permit applications, and specifications. The purpose of the project was to construct a 1-million-gallon equalization storage basin on the site of an existing sewage pump station, as well as improvements to the existing pump station. The cost of the project was \$2.2 million.

Troy Oaks Pump Station – Geauga County, Ohio

On this project, Mr. Croff had the role of County project manager during design and construction. The purpose of the project was to decommission an existing wastewater treatment plant and construct a 75,000 gpd pump station in its place, which would discharge to another nearby treatment facility. The cost of the project was \$1.8 million.

List of Most Recent Projects Worked / Working:

- Third Street Drainage – **Jefferson Parish**
- Stall Ditch Drainage – **Jefferson Parish**
- Jung & Falcone Lift Station Improvements – **Jefferson Parish**
- Rachel St. Pump Station – Lafitte Levee Dist.
- Effluent Pipeline Extension – City of Mandeville

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Michael Melendez, Senior Engineering Technician
Project Assignment:
CAD & Civil Design Technician
Name of Firm with which associated:

Years' experience with this Firm:
18 (others, 7)
Education: Degree(s)/Year/Specialization:
Associate of Science/1999/Computer Aided Design Drafting
Active registration: Year first registered/discipline:
NA
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Melendez has an Associate Degree of Occupational Science in Computer Aided Drafting from Southeast College of Technology. His coursework included drafting classes for architectural, mechanical, civil, piping, and electrical. It also included classes for Microsoft Word and Excel. During his studies, he maintained a 4.0 GPA and graduated with honors. His professional qualities include the ability to analyze a problem and present an accurate resolution. He is also detail oriented, and focuses on quality and accuracy. Mr. Melendez is Proficient with AutoCAD, Civil 3D, GIS and many design software programs to include project scheduling.</p> <p>Mr. Melendez is and/or was the lead Engineering CAD Technician on the following <i>PROJECTS</i>:</p>

TEC Professional Services Questionnaire

Mr. Melendez continued...

Lower Lafitte (Orange Street Basin) Tidal Protection, Town of Jean Lafitte, La. PRINCIPAL was responsible for the design of new required earthen levees, including a description of the process for constructing required improvements to raise existing earthen levees to a top of levee elevation of 8.5 MSL, the design of new required Concrete-Capped Steel Sheet Pile Floodwalls to top of cap elevation 7.5 MSL. Also responsible for the determination of required rights-of-way, access easements, and limits-of-construction for the levees and floodwalls. Constructed expected to begin in January, 2022. Client: Lafitte Levee District

Mid-Barataria Sediment Diversion – LA CPRA, Plaquemines Parish - Belle Chasse, La

The Mid-Barataria Sediment Diversion project is one of the largest sediment capture and transport projects being undertaken under this aggressive program to rebuild the coast of Louisiana. PRINCIPAL developed criteria to govern the alternative screening & selection, design, and detailing of armoring on the MRLs, headworks, and channel. Principal used H&H model result parameters (including inverted siphon diameters, profiles, weir geometry and elevations, approach geometry, outfall geometry, required blow-off locations and diameters) and operational requirements to develop concept-level plan and profile drawings of the inverted siphon conveyances and structures. Client: LA CPRA

Tchefuncte Marsh Shoreline Restoration, Mandeville, La

PRINCIPAL has been contracted to scope the project and design a plan that would further prevent shoreline erosion and trap sediment in the lee of the structure, reversing some effects of past shoreline erosion and creating an environment conducive to submerged aquatic vegetation.

Client: City of Mandeville

Waggaman Area Drainage Master Plan, Jefferson Parish, La

PRINCIPAL conducted an H&H study of the entire Lake Catouache drainage basin to determine which control projects will yield upstream flooding relief for residents, and open vacant property for development.

Client: Jefferson Parish Gov't.

Airline Park Blvd. Drainage Pump Station, Jefferson Parish, La

The project includes the construction of a new drainage pump station at Airline Park and West Metairie Canal. PRINCIPAL analyzed area hydrology and performed hydraulic calculations to establish/verify proposed subsurface pipe sizes and to design a 45 cfs drainage pump station.

Client: Jefferson Parish Government.

List of Most Recent Projects Worked / Working:

- Laketown Boat Launch – Jefferson Parish
- Fairfield & Oakland Pump Station - St. Charles Parish
- Kenner Waste Transfer Facility – City of Kenner
- Lake Vista Group C – Department of Public Works New Orleans
- Lake Vista Group E - Department of Public Works New Orleans
- Barriere Rd. Drainage Improvements - Plaquemines Parish
- Jesuit Bend Drainage Rehab – Plaquemines Parish
- Ozone Woods Drainage – St. Tammany Parish
- Bayou Castine Bulkhead Repair – City of Mandeville
- Long Island NC Renovation – WFS

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Eric Glynn, EI
Project Assignment:
Engineer Intern; Project Engineer
Name of Firm with which associated:

Years' experience with this Firm:
3
Education: Degree(s)/Year/Specialization:
Bachelor of Science in Mechanical Engineering/2020/University of New Orleans.
Active registration: Year first registered/discipline:
2021/Engineer Intern (E.I.); Louisiana No. 0035028
Other experience and qualifications relevant to the proposed Project:
Mr. Glynn is currently assisting with modeling, site visits, plan markups, etc. etc. for PRINCIPAL on the following projects: <ul style="list-style-type: none">• St. Charles Parish East Bank Drainage Master Plan – St. Charles Parish• Ozone Woods Drainage - St. Tammany Parish• Lake Vista Group E - Department of Public Works New Orleans• Pointe a la Hache Pump Station Rehabilitation – Plaquemines' Parish Gov.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Emile Barré, EI, Construction Manager
Project Assignment:
Construction Administration
Name of Firm with which associated:

Years' experience with this Firm:
4 (other, 25)
Education: Degree(s)/Year/Specialization:
Bachelor of Science/1994/Mechanical Engineering
Active registration: Year first registered/discipline:
E.I., Louisiana, No. 0015969
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Barré is a dynamic professional with a proven record of building relationships, managing projects, guiding a team, while covering and reporting the details and finishing on time.</p> <p>David Drive Corridor Improvements, Jefferson Parish, LA Mr. Barré is handling the construction administration for construction phase of this project. The project objective is to replace a 6" asbestos cement water main in the Central Ave. right of way between Airline Dr. and Karen Ave., with 12" C-900 PVC and 18" DR 11 HDPE. Existing fire hydrants, fittings, valves, domestic services, and fire services in the project limits will be replaced. PRINCIPAL is providing engineering design, bidding, construction phase and project close-out services for the water main replacement. Currently, PRINCIPAL is in construction phase. Project value \$8M.</p>

TEC Professional Services Questionnaire

Mr. Barré continued...

Abita Springs Gravity Sewer Rehabilitation, St. Tammany Parish, LA

This project includes the rehabilitation of existing sanitary sewer mains, sanitary sewer laterals, sanitary sewer manholes and related appurtenances. Sewer mains predominantly rehabilitated by cured-in-place pipe. Sewer Laterals predominantly rehabilitated by chemical grout sealing. Some sections of sewer laterals dig and replace within roadway and include the rehabilitation of roadway. Project value \$2.5M.

Sewer and Water Maintenance Project, City of Mandeville, LA

This project is to provide maintenance to the City of Mandeville sewer and water system, including repair and replacement of sewer and water mains, service connections, manholes and fire hydrants. Project value \$2M.

Roadway & Drainage Capital Improvement Program, City of Mandeville, LA

This project includes mill and overlay of asphalt streets citywide, concrete panel slab replacement, intersection redesigns, bridge repairs, and drainage improvements. PRINCIPAL created the contract documents, performed engineering design, is administering construction, and providing resident inspection services. The contract has a value of \$5M.

List of Most Recent Projects Worked / Working:

- River Rd. Spillway Repair – St. Charles Parish – Close out
- Westbank Trailhead – St. Charles Parish
- Jesuit Bend Drainage Rehab – Plaquemines Parish – Close out
- Bayou Castine Bulkhead Repair – City of Mandeville – Close out
- WWTP Erosion Control – City of Mandeville
- Sunset Point Restrooms – City of Mandeville

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Luther “Wade” Lucas
Project Assignment:
Resident Inspection
Name of Firm with which associated:

Years’ experience with this Firm:
8
Education: Degree(s)/Year/Specialization:
N/A
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Lucas has been a valuable part of the Principal Engineering resident inspection team. He has completed the following certifications and training. USACE QC Certification, 2007; OSHA 30HR, 2013; Advanced Blueprint Reading, 2009; Excavation Safety for Competent Person Training, 2008; Standard First Aid/CPR Training, 2008; Introductory to Crew Leadership, 2008; Level One CAT Tractor and Excavator Training, 2008; Construction Core Curriculum, 2007.</p> <p>Central Avenue Rehabilitation, Jefferson Parish, LA The project objective was to replace a 6” asbestos cement water main in the Central Ave. right of way between Airline Dr. and Karen Ave., with 12” C-900 PVC and 18” DR 11 HDPE. Existing fire hydrants, fittings, valves, domestic services, and fire services in the project limits were replaced. Principal provided engineering design, bidding, construction phase and project close-out services for the water main replacement. Mr. Lucas performed resident inspection services for this project. Cost \$3M.</p>

TEC Professional Services Questionnaire

Mr. Lucas continued...

Roadway & Drainage Capital Improvement Program, City of Mandeville, LA

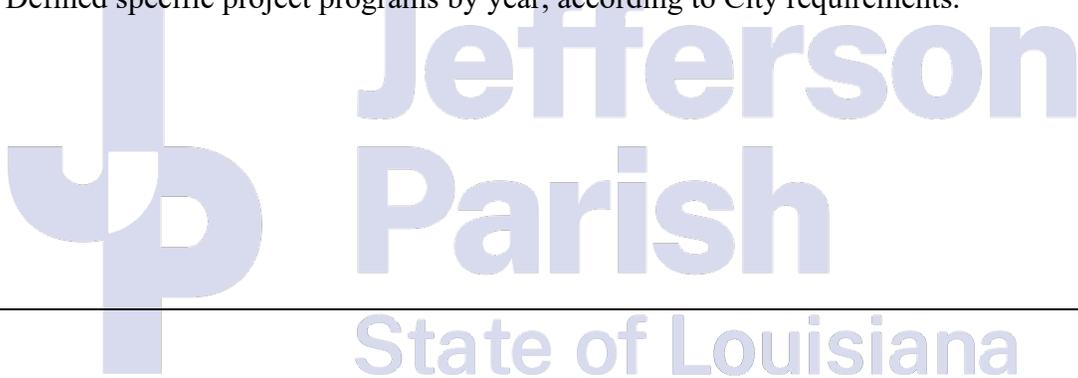
This project included mill and overlay of asphalt streets citywide, concrete panel slab replacement, intersection redesigns, bridge repairs, and drainage improvements. Principal created the contract documents, performed engineering design, administered construction, and provided resident inspection services. Mr. Lucas performed resident inspection services for this project. Contract value \$5M.

Abita Springs Gravity Sewer Rehabilitation, St. Tammany Parish, LA

This project included the rehabilitation of existing sanitary sewer mains, sanitary sewer laterals, sanitary sewer manholes and related appurtenances. Sewer mains were predominantly rehabilitated by cured-in-place pipe. Sewer Laterals were predominantly rehabilitated by chemical grout sealing. Some sections of sewer laterals were dug and replaced within roadway and include the rehabilitation of roadway. Mr. Lucas performed resident inspection services for this project. Project value \$2.5M.

Kenner Pavement Management, Kenner, LA

Mr. Lucas was part of the field crew to evaluate 471 lane-miles of City-owned roadway. Collected data used to recommend optimum preventative maintenance, rehabilitation, and improvement budget level for Louisiana's 5th largest city. Defined specific project programs by year, according to City requirements.



TEC Professional Services Questionnaire

L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.		
PROJECT NO. 1		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Bucktown Marsh Overlook Educational Pavilion Jefferson Parish, LA JP Department of Ecosystem and Coastal Management; Director, Michelle Gonzales (504)-736-6719 1221 Elmwood Park Blvd., Suite 310 Jefferson, LA 70123	PRINCIPAL is providing engineering design, bidding, construction phase and project close-out services for an educational overlook platform in the Bucktown Marsh setting, including access to the pavilion (ramps), benches, shade tree planting, and designation of educational signs. The overlook pavilion is a unique elevated timber structure. The 900 sq ft deck platform is supported by five 20" diameter timber poles, projecting 25 ft above the platform, with fabricated metal branches and leaves, invoking forested swamp surroundings. The foundation is pile-supported reinforced concrete slab, designed to resist breaking waves. The project features are designed to engage local residents and tourists in activities that promote coastal and wetland education opportunities as well as enhanced recreational spaces (Funded by the Lake Pontchartrain Restoration Program (PRP)).	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Completed 2024	Engineering \$166K Construction \$1.46M	100%

PROJECT NO. 2		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
A). Laketown Boat Launch B). Laketown Rock Jetty Jefferson Parish, LA JP Department of Ecosystem and Coastal Management; Director, Michelle Gonzales (504)-736-6719 1221 Elmwood Park Blvd., Suite 310 Jefferson, LA 70123	PRINCIPAL is providing engineering design, bidding, construction phase, and project close-out services in addition to an onsite restroom rehab. The project objective is to prevent sediment accretion in the Laketown boat launch channel from Spillway opening and wave action, while maintaining navigability for small boats and the casino boat, by constructing a rock jetty perpendicular to the shore. Work includes a preliminary data investigation, data collection, geotechnical report, survey, and the Coastal Process Study to predict local sediment transport patterns. The total proposed length of the jetty is 1,800 ft and total proposed height of the jetty 14 ft. PRINCIPAL studied sediment models to predict the broad-scale actions induced by Bonnet Carré Spillway opening. Due to underlying soil conditions, a lightweight aggregate core material is required to prevent excessive settlement. Phasing of the jetty was devised to accommodate available funds.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
A). Complete 2023 B.) 100% Design, On-going, 2024 (Est.)	\$17.6M	100%

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Mid-Barataria Sediment Diversion (BA-153) Plaquemines Parish, LA</p> <p>State of Louisiana Coastal Protection and Restoration Authority (CPRA) 150 Terrance Ave. Baton Rouge, LA 70802 Sub-Consultant to AECOM PM- Mr. Bruce LeLong (504)-220-8551</p>	<p>PRINCIPAL developed criteria to govern the alternative screening & selection, design, and detailing of armoring on the MRLs, headworks, and channel. Design Criteria was according to USACE EM guidance, experience from past MR diversion projects, and judgement applied to the MBSD project; and provided in written narratives and or/lists. PRINCIPAL used H&H model result parameters (including inverted siphon diameters, profiles, weir geometry and elevations, approach geometry, outfall geometry, required blow-off locations and diameters) and operational requirements to develop concept-level plan and profile drawings of the inverted siphon conveyances and structures. PRINCIPAL also generated a narrative explanation of civil and structural design criteria to be used in development of the inverted siphon to design completion. Provided quantity take-offs for cost estimator use. We provided preliminary design plans and cost estimates for this portion of the project. Currently engaged in engineering during construction.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
On-going, Est 2029	\$1M Engineering Fee \$2.0B Construction	100% scope above ~\$250M Const. (Principal's portion)

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
<p>Mandeville Lakefront Wetlands Protection and Restoration – PM and Permitting City of Mandeville, LA</p> <p>City of Mandeville Dept. of Public Works, Keith LaGrange 1100 Mandeville High Blvd Mandeville, La. 70471 Phone: (985) 624-3169</p>	<p>The Mandeville Lakefront Wetlands Restoration project will prevent further degradation of the existing wetlands and restore a functioning wetlands ecosystem within the area. The project established a best practice for creation of new wetlands, provided engineering concepts in support of multiple storm water routing alternatives and coastal engineering concepts for the design of a storm-resistant shoreline closure with an integral bike path and pedestrian link between Old Mandeville and Sunset Point Park. PRINCIPAL was the PM and completed the permitting process for this Lake Pontchartrain shoreline project, including CUP authorization from DNR, section 404 permit from the USACE, Water Quality Certification from LADEQ, Class E and Lease from LA State Lands Office, and U.S. Coast Guard Authorization. This included mitigation for submerged aquatic vegetation and implementation of construction noise reduction requirements to protect Gulf Sturgeon fingerlings and Manatee as required by NOAA. PRINCIPAL also submitted numerous grant applications to the GOHSEP and FEMA including cost/benefit analysis.</p>	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Design Complete & Fully Permitted	\$100,000 (fee)	100%

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Lower Lafitte (Orange Street Basin) Tidal Protection Town of Jean Lafitte, LA Town of Jean Lafitte 2654 Jean Lafitte Boulevard Lafitte, LA 70067 Mayor Tim Kerner Phone: (504) 836-8190	The project area encompasses approximately 192 acres of land with residential and commercial structures, including the southernmost marina facilities in Jefferson Parish. West Jefferson Levee District constructed several sections of earthen levee along the southern and western perimeter of the project area, which, in conjunction with the existing ridge on the west bank of Bayou Barataria, do provide limited protection to these structures. The project area is bounded on the north by the southern bank line of the Pump Canal; west and south by the eastern bank line of Bayou Barataria; and, west by the existing levee system. Principal is responsible for the design of new required earthen levees, including a description of the process for constructing required improvements to raise existing earthen levees to a top of levee elevation of 8.5 MSL, the design of new required Concrete-Capped Steel Sheet pile Floodwalls to top of cap elevation 7.5 MSL. Also responsible for the determination of required rights-of-way, access easements, and limits-of-construction for the levees and floodwalls.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Design 100%, Const On-going, 2024 (Est.)	\$3,500,000	45%

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Tchefuncte Marsh Shoreline Protection and Restoration City of Mandeville, LA City of Mandeville Dept. of Public Works, Keith LaGrange 1100 Mandeville High Blvd Mandeville, La. 70471 Phone: (985) 624-3169	PRINCIPAL is performing a feasibility investigation for the 3.1 mi segment of fresh and mixed marsh shore of Lake Pontchartrain between the Tchefuncte River and the Lake Pontchartrain Causeway Bridge. A shoreline retreat analysis from 1871 to the present was performed to establish the no-build future condition. Localized rapid marsh loss in recent years attributed to breach of a Pleistocene age sand bank at marsh edge has added urgency to purpose and need. Studied factors include existing water quality, vegetation, and fish/wildlife; community baseline and real estate conditions, geologic setting, topography/bathymetry, relative sea level rise; historic and statistical wind/waves; physical, engineering, regulatory, and legal project constraints; project goals—including design life, cost, marsh acreage created, and habitat preserved; and lastly project execution strategy—developing Federal, State, & Local partnerships to best seek funding from available programs.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020	\$400,000 (Engineering Feasibility & Design)	100%

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Lakefront Beach Restoration City of Mandeville, LA City of Mandeville Dept. of Public Works, Keith LaGrange 1100 Mandeville High Blvd Mandeville, LA 70471 Phone: (985) 624-3169	PRINCIPAL designed, permitted and performed construction phase services for the restoration of a recreational beach at the east end of the Mandeville lakefront along the shoreline of Lake Pontchartrain. The project included the dredging of unsuitable material and the placement of granular sand material. PRINCIPAL obtained all permits to include the LA DNR, USACE joint coastal use permit.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2017	\$120,000	100%

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Bayou Rigolette East Jefferson Parish, LA Jefferson Parish Department of Ecosystem and Coastal Management PM – Michelle Gonzales, Director 1221 Elmwood Park Blvd., Suite 310 Jefferson, LA 70123 Phone: (504) 736-6719	The project objective is to restore marsh degraded during Hurricane Ida, located south of the Town of Lafitte, as identified by the U.S. Fish & Wildlife Service. Hurricane damage has opened pathway for water intrusion and flow, which is likely to further degrade the remaining marsh. Principal Engineering is responsible for developing a project data set and project alternatives that would accomplish USFWS identified goals. After coordinating with Jefferson Parish, USFWS, and CPRA to select a project scope Principal will advance the selected project to a conceptual design for funding purposes.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Est. 2024	\$200,000 (fee)	100%

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>U.S Army Corps of Engineers A/E Design & CPS IDIQ Contract #W912P8-09-D-0014</p> <p>US Army Corps of Engineers New Orleans District (HPO) 7400 Leake Ave. New Orleans, LA 70118 Al Naomi (AECOM) Phone: (504) 799-1322</p>	<p>PRINCIPAL provided design and construction services support for multiple levee and flood protection projects under seven (7) separate Task Orders including LPV 109.02A (South Point to CSX), LPV 111.01 (CSX to Michoud Canal) and LPV 109.02B (I-10 Ramp). PRINCIPAL's duties were primarily to assist in the design process, prepare ROW drawings and misc. design support for the preparation of the construction documents for levee, flood wall and drainage pump station projects. PRINCIPAL was also given two (2) separate Task Orders to provide a Project Engineer and Field Inspector (QAR) for Construction Phase Services to the USACE New Orleans District for floodwall construction and elevation of hurricane protection levees to the 2011 100-yr level. This work was spread over four projects totaling over \$50M in construction cost.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2012	\$500,000 (engineering fee)	100%

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
<p>Airline Park Blvd Drainage & New Drainage Pump Station Jefferson Parish, LA</p> <p>Jefferson Parish Department of Drainage PM - Mitchell T. Theriot, P.E, Director 1221 Elmwood Park Blvd., Suite 907 Jefferson, La. 70123 Phone: (504) 736-6751</p>	<p>PRINCIPAL analyzed area hydrology and performed hydraulic calculations to establish/verify proposed subsurface pipe sizes and completed hydrodynamic computer modeling of the system to adequately address limited hydraulic storage available for a new 45 cfs drainage pump station (10-yr water surface elevation at outfall is higher than the street). This project also included reconstruction of 2500 L.F. two-lane, two-way concrete roadway with parking lanes, removal and replacement of mainline subsurface drainage, maintenance of traffic through detour of west-bound W. Metairie Ave (arterial with over 20,000 ADT) to facilitate construction, replacement of concrete side streets at the intersections, replacement of water and sewer house connections, and adjustment/replacement of existing manholes, catch basins, water facilities, and sewer facilities as necessary. PRINCIPAL also analyzed area hydrology, performed hydraulic calculations to establish subsurface pipe sizes and inlet spacing.</p>	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2010	\$3.0M	100%

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 - NONE		
2.		
3.		
4.		

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

Profile of PRINCIPAL Engineering Inc.

PRINCIPAL Engineering, Inc. (PRINCIPAL) is a full-service consulting Architecture, Engineering and Construction services (A/E/C) firm specializing in the following disciplines: *Architectural, Civil, Environmental, Structural, Electrical and Mechanical and Construction Engineering Services*. Founded in 2004, we have been successfully providing professional services to federal, state, parish and city government agencies since our inception. Over **90 percent** of our work is from governmental agencies.

PRINCIPAL is pleased to report that we are solvent and in a solid financial condition. We have a healthy cash flow and a favorable cash reserve. In addition to our capital reserves, PRINCIPAL has a significant cash line of credit which gives us the capacity to deploy resources when and where needed to meet the needs of our clients. We have the capacity, capability and experience to deliver successful **Coastal Engineering services** to Jefferson Parish and we have successfully completed numerous public engineering projects for Jefferson Parish. PRINCIPAL’s President and Vice President are former active-duty military engineering officers and current reserve forces military engineering officers that have past successful experience working on CONUS and OCONUS US Army and US Air Force DOD Facility and Civil Works Projects.

PRINCIPAL is a verified Service-Disabled Veteran Owned Small Business (SDVOSB) with the Center for Veterans Enterprise (CVE) and PRINCIPAL.

PRINCIPAL Engineering, Inc. is fully licensed and insured to perform architectural and engineering services in the State of Louisiana. The firm is registered as a corporation with the State of Louisiana, Office of the Secretary of State and is licensed as an Engineering Firm with the **Louisiana Professional Engineering and Land Surveying Board; License no. 3168**. In addition, we are currently licensed to practice professional engineering in the states of **Alabama, Arizona, Arkansas, Colorado, Florida, Georgia, Illinois, Iowa, Kansas, Kentucky, Maryland, Mississippi, Missouri, Nebraska, Nevada, New Mexico, New York, North Carolina, Ohio, Oklahoma, South Carolina, Tennessee, Texas, Utah, Virginia, and West Virginia.**

PRINCIPAL Engineering® is a federally registered service mark.



TEC Professional Services Questionnaire

Section N. continued...

Response to Evaluation/Selection Criteria

1. Professional Training and Experience

Since 2004, PRINCIPAL Engineering has performed A/E services for nearly every municipal government agency in the New Orleans Metropolitan area and all are repeat clients. As a result, PRINCIPAL has a proven history of local public infrastructure engineering and construction success as well as established local relationships that have been built on these accomplishments. PRINCIPAL's president is a past local Public Works and Utilities Director and Public Works Engineer and is a former Chairman of the St. Tammany Levee, Drainage and Conservation District. In addition, PRINCIPAL is very familiar and has intimate knowledge of the Jefferson Parish Coastal Zones. Our team of PRINCIPAL Engineers can easily and precisely navigate and facilitate communication with all the stakeholders involved with any Coastal Improvement Effort. PRINCIPAL has coordinated and worked with the USACE, New Orleans District on federal determination efforts for coastal shoreline protection and restoration efforts for St. Tammany Parish and the City of Mandeville. Furthermore, PRINCIPAL employs two former USACE employees that have deep institutional knowledge regarding federal policies, programs, procedures and design criteria with regard to civil works infrastructure improvement endeavors.

PRINCIPAL employs engineers that are fully capable of conducting complex engineering and design for coastal improvement endeavors. Our engineers utilize state-of-the-art modeling and GIS applications in all phases of water resources planning and engineering, including hydrodynamic, hydrologic, hydraulic, wave mechanics, and water quality analysis. Our Team's software competency includes Delft3D Flow, Delft3D-Wave (SWAN), HEC-RAS, HEC-2, WSPRO, HY-8, RiverCAD, HEC-6T, CulvertMaster, EPA-SWMM, MIKE URBAN, HEC-1, HEC-HMS, StormCAD, PondPack, FlowMaster, HydraFlow, LADOTD, HYDRO6020, AutoCAD Storm & Sanitary Analysis, and custom GIS-based applications for hydraulics and hydrology.

Water Bottom Reclamation & Riparian Rights Expertise

- **Lakefront Wetlands Restoration** - Principal Engineering successfully acquired property rights and permits on behalf of the City of Mandeville to construct and maintain a linear rubble mound shoreline protection project in Lake Pontchartrain. This included abstracting to determine ownership, negotiation with landowners for permission, coordination for consent from adjacent governmental jurisdictions, alteration of an existing LA State land lease, creation of new Class E Land Lease with the Office of State Lands, and definition of servitudes required in favor of the City for construction and maintenance.
- **Shell Beach Fishing Pier** - To construct a new fishing pier into the Mississippi River Gulf Outlet (MRGO) at Shell Beach, Principal Engineering abstracted to determine underlying private property interests and historical rights-of-way within the MRGO easement, from dedication to the Port of New Orleans in 1959, transfer to the United States in 1962, through congressional de-authorization up to the present. Pier alignment was selected to remain within areas that revert to public ownership, therefore available to St. Bernard Parish with permits from the USACE and Coast Guard; including the abandoned LA 46 right of way and the former path of Bayou Yscloskey that were excavated by the MRGO construction and subsequent erosion. For an adjacent park, a legal opinion was prepared for the Parish regarding Riparian landowner rights, determining the amount of land reverting to Parish ownership if reclaimed with public funds, and the portion of a privately owned parcel that must be purchased for use.
- **Tchefuncte Marsh Shoreline Protection** - To construct a 15,000 LF shoreline protection project in Lake Pontchartrain consisting of rubble mound with intermittent breaks, Principal Engineering used abstracted documents, boundary survey, and historical shoreline location to determine State Land Lease requirements, Riparian rights of landowners, and necessary servitudes for acquisition by the City.

TEC Professional Services Questionnaire

Section N. continued...

Key Personnel Training & Experience

- **Henry DiFranco, PE**, is **President** of PRINCIPAL Engineering, Inc. and has over 30+ years of experience in local, state and federal public works engineering and management. Mr. DiFranco, a retired *Lt Col in the Air Force Reserves*, he was deployed to Baghdad, Iraq in support of OPERATION IRAQI FREEDOM. As a civil engineering officer, he was responsible for approximately **\$15 million** dollars of infrastructure improvements in and around the Baghdad area. He completed numerous water distribution projects to provide potable and non-potable water service for new housing development projects for coalition forces under combat conditions. He was assigned to the Air Force Civil Engineering Support Agency where he supported Air Force Civil Engineering worldwide. Furthermore, Mr. DiFranco served as the *Director of Public Works & Utilities* for St. John Parish and held numerous positions as a Parish Public Works Engineer and Consulting Engineer throughout his career. Also, Mr. DiFranco was the Chairman of the *St. Tammany, Levee, Drainage and Conservation District* (Governor Appointed - 2015 to 2020), where he was instrumental in the planning, scope writing and implementation for the development of a Coastal Master Plan for St. Tammany Parish.
- **Andre Monnot, PE**, is **Vice President** of PRINCIPAL Engineering, Inc. As a member of the U.S. Air Force, he held several positions in the Civil Engineering field. He served in a project scoping position, where prior to design, requirements were identified, studied, scoped, and packaged into executable projects; funding source identification and overall prioritization was accomplished. Mr. Monnot deployed in support of OPERATION IRAQI FREEDOM, during which time he was the Chief Maintenance Engineer for the installation. He led construction on several emergency power projects, completed a comprehensive mapping and inventory of the base's water and sanitary sewerage systems, and managed **\$5M** in service contracts for garbage collection, custodial services, and potable water delivery. In the military and as a consultant, he has designed a broad array of projects encompassing water, wastewater, roadway, drainage, structural, and airfield paving. This includes preparation of engineering calculations, drawings, technical specifications, and contract documents; and managing personnel and costs related to the projects.

2. Size of the Firm

PRINCIPAL Engineering has a staff of 24 professional and technical employees. Our experts have specialization in coastal engineering efforts which include a team of 5-licensed Engineers, 1-licensed Hydrologists and 2-Engineer Interns.

3. Capacity

Our current staff has the capacity to add new projects and successfully complete projects for Jefferson Parish. Our team works closely together and utilizes state of the art computer and communications technology to manage the firm's current workload and scheduling of future projects. PRINCIPAL strives to carefully schedule our workload; our experience and resources to complete the project within the client's anticipated schedule is key to fulfilling our Mission.

The size of our firm allows us to provide intimate communication with our clients. We have an established performance record of successfully completing design and/or construction phase services within the client approved performance schedules, including the coordination and scheduling of services from any outside consultants (survey/geotechnical). We have *not* experienced any issues with time delays or cost overruns because of our firm's capacity to deliver a successful product. A snapshot of some of our current workload, current phase and recent project additions include the following:

Current JP Design/Construction Phase Workload:

- ◆ JPG – Live Oak Blvd. Water Line – Design – 95% Complete
- ◆ JPG – Bayou Rigolettes East Marsh – Study – 65% Complete

TEC Professional Services Questionnaire

Section N. continued...

- ◆ JPG – Lafitte & Pritchard Sewer LS – Close Out 99%
- ◆ JPG – Jung Blvd & Falcone St. – Close Out 50%
- ◆ JPG – Jefferson Heights Waterline Improvement – Design – 20% Complete
- ◆ JPG – Cleary & Bright Playground Gym Reno – Record Drawing – 100% Complete – Close Out 50%
- ◆ JPG – Destrehan Sewer Lift Station – Design – Bidding Phase 20%
- ◆ JPG – Grand Isle Pump Station – Design – 95% Complete
- ◆ JPG – Westbank Master Drainage Plan – Study – 70% Complete
- ◆ JPG – Laketown Shoreline Alternatives – Study – 50% Complete
- ◆ JPG – Laketown Rock Jetty – Design – 100% Complete
- ◆ JPG – Woodmere Playground – Design 100% Complete (Sub to Meyer)
- ◆ JPG – Third Street Drainage – Construction – 25% Complete
- ◆ JPG – Stall Ditch Drainage – Construction – 100% Complete
- ◆ JPG – Bucktown Marsh Overlook Structure – 100% Complete
- ◆ JPG – Woodmere Youth Center Renovations – Design – 95% Complete

Furthermore, with an average of twenty-two (24) full-time employees PRINCIPAL has an approximate current capacity of \$5.5M annually. Our current monthly billing average is approximately \$350K for an average yearly gross billing of \$4.2M. Therefore, our current existing capacity to initiate backlog and take on new projects is over \$1.0M annually.

4. Past Performance

Principal Engineering has an excellent professional reputation with all of our governmental agency clients. Principal has provided services to nearly every public agency in the New Orleans metropolitan area as well as various State and Federal agencies. Every Governmental client is and has been a repeat customer. A partial list of our New Orleans regional area clients includes the following:

- ◆ City of New Orleans, Department of Public Works
- ◆ City of Kenner, Department of Public Works
- ◆ City of Covington, Department of Engineering
- ◆ City of Mandeville, Department of Public Works
- ◆ Jefferson Parish, Department of Public Works
- ◆ Jefferson Parish School Board
- ◆ St. Tammany Parish, Department of Engineering
- ◆ St. Tammany Parish, Department of Environmental Services
- ◆ Town of Abita Springs
- ◆ City of Slidell, Department of Engineering
- ◆ Plaquemines Parish Government, Department of Public Works
- ◆ St. Bernard Parish Government, Department of Public Works
- ◆ Sewerage and Water Board of New Orleans
- ◆ Housing Authority of Jefferson Parish
- ◆ St. Charles Parish, Department of Public Works
- ◆ St. John the Baptist Parish Department of Utilities & Public Works

5. Location of Office Performing Work

Our St. Tammany Parish, LA office, located at **128 Northpark Boulevard, Covington, LA 70433** is the office where the work will be performed.

TEC Professional Services Questionnaire

6. Analysis of Work Resulting in Litigation

Principal Engineering, Inc. has no past or current litigation with Jefferson Parish Government, and we have no history of litigation with any governmental/municipal client.

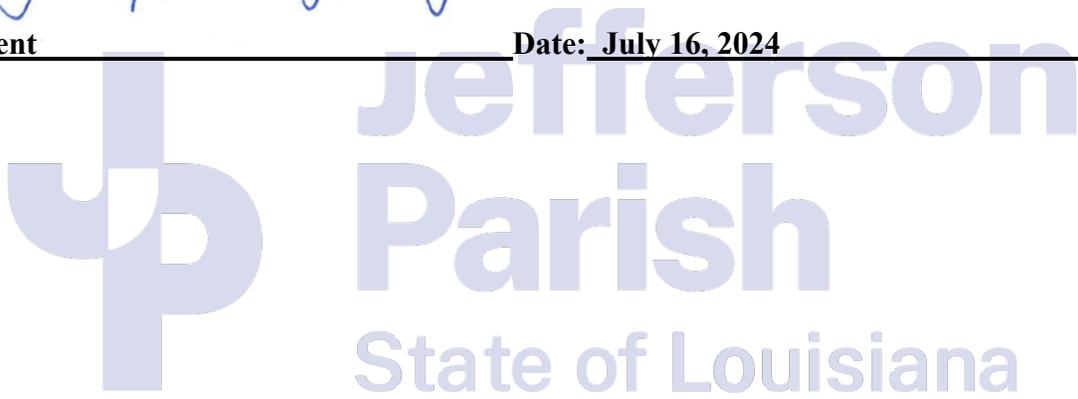
7. Prior successful completion of projects of the type and nature of the engineering services, as defined, for which firm has provided verifiable references:

Please see attached related projects Principal Engineering Inc., has included in this SOQ with verifiable references.

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

Signature:  Print Name: Henry I. DiFranco, Jr.

Title: President Date: July 16, 2024



TEC Professional Services Questionnaire

Project Name and Advertisement Resolution Number:

SOQ 24-020 Coastal Engineering Consulting Services Resolution No. 144205

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



1340 Poydras Street, Suite 1950
New Orleans, LA 70112

B. 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:

Nick Ferlito, Jr., PE, PTOE Senior Vice President / Louisiana Area Manager
225.924.0235

C. 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.

Dain Gillen, PE
601.684.4564
dain.gillen@neel-schaffer.com

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

<u>6</u> Administrative	<u> </u> Estimators	<u> </u> Specification Writers
<u> </u> Architects (Licensed)	<u>1</u> Geologists	<u>1</u> Structural Engineers
<u> </u> Chemical Engineers	<u> </u> Geotechnical Engineers	<u> </u> Graduate Engineers
<u>24</u> Civil Engineers	<u> </u> Interior Designers	<u>1</u> Project Managers
<u>2</u> Construction Inspectors	<u> </u> Landscape Architects	<u> </u> Clerical
<u> </u> Ecologists	<u> </u> Land Surveyor	<u> </u> Grant/Funding Specialist
<u> </u> Electrical Engineers	<u> </u> Mechanical Engineers	<u> </u> Sanitary Engineers
<u>4</u> Engineer Intern	<u> </u> Environmental Engineers	
<u> </u> Professional Land Surveyors	<u>8</u> Other (Planners, Tech Support)	<u>47</u> TOTAL

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

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

TEC Professional Services Questionnaire

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

1. N/A

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 <i>(Yes or No):</i>
N/A		

J. Please specify the total number of support personnel that may assist in the completion of this Project:
 47

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:

Dain Gillen, PE Coastal Discipline Lead

Project Assignment:

Project Manager

Name of Firm with which associated:



Years' experience with this Firm:

1 (21 total)

Education: Degree(s)/Year/Specialization:

BS / 2000 / Biological Engineering
MS / 2002 / Biological and Agricultural Engineering

Active registration: Year first registered/discipline:

2007/ Professional Engineer - Civil, LA 33282

Other experience and qualifications relevant to the proposed Project:

Mr. Gillen joined Neel-Schaffer in 2023 as a Senior Project Manager with 20 years of experience in the field of Water Resources and Coastal Engineering.

Prior to joining Neel-Schaffer, Mr. Gillen served as Engineer Manager for a staff of 10 engineers and technicians for the Louisiana Coastal Protection and Restoration Authority (CPRA). In this role, he was responsible for oversight of project planning, development, design, and construction of large-scale ecosystem restoration and flood risk reduction projects. He also has previous experience with many civil works and flood control projects during design and construction.

Mr. Gillen has worked for state and Federal agencies and private engineering firms, giving him a diverse background and ability to communicate effectively with multiple stakeholders.

RELATED EXPERIENCE

Lillian Park Beach Habitat and Shoreline Protection, Baldwin County, AL: Design Engineer on a project to mitigate excess sand deposition on a County boat ramp. This project consists of the design of riprap groins on Perdido Bay to mitigate excess sand deposition on a County boat ramp. The design of the groins will stabilize the beach shoreline, minimize erosion and habitat loss, and provide a usable public beach. Mr. Gillen is serving as project engineer for the project.

West Hancock County Nearshore Habitat Restoration Project: Project Manager and Design Engineer on a coastal habitat restoration project in Waveland, MS. The project will enhance sub-tidal habitat by placing extensive reef substrate for

TEC Professional Services Questionnaire

shellfish and artificial reefs for productivity of red and black drum, spotted seatrout, crabs, and oysters.

University Lakes Flood Risk Reduction, Baton Rouge, LA: The goal of this project is to increase the sustainability and recreational attributes of the University Lakes on and near the LSU campus. Five of the six lakes will be dredged to increase water quality, and a bird sanctuary and several islands will be constructed to enhance ecological habitat. The project will include drainage improvements at the drainage culvert outfalls. Mr. Gillen is assisting with review of design, quantities, layout, and construction administration for the project.

Slidell Breakwaters Coastal Resilience Project, Slidell, LA: Design engineer of large segmented breakwaters near Slidell, LA. The project consists of the design approximately 8,000 linear feet of foreshore rock dike structures intended to provide coastal resiliency to the Eden Isle community in Slidell, LA. The breakwaters are being designed in phases, as construction funding allows, to provide increasing levels of protection from wave impacts during storm events.

St. Tammany Parish Coastal Master Plan, St. Tammany Parish, LA: Developed a Coastal Master Plan for St. Tammany Parish to reduce flooding risk for residents and protect, restore, and enhance coastal wetlands. Mr. Gillen assisted in development and analysis of conceptual projects to help meet these objectives.

Mandeville Lakefront Wetlands Restoration Project, Mandeville, LA: Situated between two "hard" shorelines, a mature cypress forest is rapidly eroding. The Mandeville Lakefront Wetlands Restoration Project will prevent further degradation of the existing wetlands and restore a functioning wetlands ecosystem within the area. Storm water from the Galvez and Massena outfalls will be directed through created wetlands, improving water quality within Lake Pontchartrain. Mr. Gillen completed project review and QA/QC on the project.

Kingwood Regional Drainage/Detention Study & Improvement, Harris County, TX: The project consists of a conceptual Watershed Plan to identify strategies for mitigation of existing flooding problems and to address improved drainage infrastructure required to achieve 100-year channel level-of-service within the Kingwood Area study limits. The limits of study encompass 32.3 miles of stream. Mr. Gillen completed project review and QA/QC on the project.

CS-87: Calcasieu-Sabine Large-Scale Marsh & Hydrologic Restoration, Cameron Parish, LA: Design Integration Services that include a combination of initial project management activities, initial data gap analysis preliminary data collection, design integration planning, including project E&D work breakdown structure and cost estimates, optimization planning and initial optimization tasks, and other project planning. Mr. Gillen assisted with program and project management, project alternative evaluations, conceptual designs, and environmental compliance.

Mid-Basin Sediment Diversion Program, Plaquemines Parish, LA: Multi-billion dollar program consisting of the Mid-Barataria (BA-153) and Mid-Breton (BS-030) Sediment Diversion projects. These are large scale civil works projects proposed to divert 75,000 and 50,000 cfs, respectively, from the Mississippi River to deliver sediment to degrading marshes south of New Orleans. Mr. Gillen served as the State's project engineer, working with design contractors and the Construction Manager at Risk (CMAR) contractors on both projects to optimize project designs for constructability and performance.

Barataria Basin Ridge and Marsh Creation Project - Spanish Pass Increment (BA-203), Venice, LA: Large-scale (1,600 acre) marsh and ridge restoration project in Plaquemines Parish, LA. Mr. Gillen served as the CPRA Engineer for this project, providing extensive input on project design that helped shape the project bid package. Participated in bidding and construction activities. Responded to Contractor RFI's, attended bi-weekly construction meetings, and approved field orders and change orders.

Cameron-Creole Freshwater Introduction Project (CS-49), Cameron Parish, LA: Project engineer for a freshwater introduction project intended to reduce salinities in an impounded marsh in Cameron Parish, LA. Design of flapgated sheetpile weir structure, rip rap channel protection, and conveyance channel improvements. Input during construction to ensure that project features were being built as shown in the project documents.

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Don Lancaster, PE *Engineering Manager*

Project Assignment:

Senior Project Engineer

Name of Firm with which associated:**Years' experience with this Firm:**

24 years (*41 total*)

Education: Degree(s)/Year/Specialization:

BS / 1982 / Civil Engineering

Active registration: Year first registered/discipline:

1987 / Professional Engineer - Civil, LA 22821

Other experience and qualifications relevant to the proposed Project:

Don has over 40 years of experience in civil engineering and project management. He manages Neel-Schaffer's offices in Mandeville and New Orleans, LA, as well as overseeing some of the company's largest design, bid and construction administration projects.

He has extensive experience in program and project management for large and small municipal and port related projects that include programming, design, bidding and construction administration. His civil background includes ports; roads and bridges; streetscapes; structural; and water and wastewater.

Don has extensive experience in preparing contract documents for construction projects. He has coordinated and worked with many local, state and federal agencies, including the Sewerage and Water Board of New Orleans, United States Corps of Engineers, Louisiana Department of Transportation and Development, the New Orleans Levee District, the Port of Gulfport, the Coastal Protection and Restoration Authority and numerous cities, parishes and counties.

RELEVANT EXPERIENCE

CS-87 Calcasieu-Sabine Large-Scale Marsh and Hydrologic Restoration Project: Engineer for Design Integration Services that include a combination of initial project management activities, initial data gap analysis preliminary data collection, design integration planning, including project E&D work breakdown structure and cost estimates, optimization planning and initial optimization tasks, and other project planning.

PO-184: St. Tammany Storm Surge Risk Reduction Project: Engineer for a CPRA project providing conceptual engineering for a Slidell Ring Levee including levee segments in east Slidell from Lakeshore Estates to Kingspoint and from Kingspoint to US Hwy 190. The project considered the feasibility of alternative alignments and provided conceptual planning and engineering for the required alignment features. It included a data collection report with project feature locations, layouts, environmental considerations, hydrologic and hydraulic considerations, and construction method considerations.

TEC Professional Services Questionnaire

It also provided a design documentation report with a basis of design, details of the conceptual design stages, example calculations for all relevant disciplines, conceptual level engineer's estimate of probable construction cost, site layouts, conceptual O&M plans, construction considerations, a summary of benefits and impacts and cost comparison for the recommended alternatives.

St. Tammany Parish Coastal Protection Master Plan: Project lead for collaborative effort between St. Tammany Parish Government (STPG) and the St. Tammany Levee, Drainage and Conservation District (STLDCD), with funding from CPRA through an Intergovernmental Agreement. Neel-Schaffer's Team is assisting in this effort. The scope of services is divided into three tasks. Task I consist of collecting and organizing existing flood control assets and associated project data into a GIS data base. Task II is a gap analysis and Task III is a project feasibility analyses and engineering design.

Port of Gulfport Restoration, Gulfport MS: Project Manager for the planning, design, bidding, and construction management of the general engineering for this \$570 million restoration program. Supervise and oversee the engineering and support staff responsible for design of this program to elevate the Port of Gulfport site from its existing elevation of 10 feet above mean sea level (MSL) to 25 feet MSL, which will protect the Port from future storm surges. Work includes an 84-acre expansion of the West Pier by filling the water bottom; relocating tenant facilities; new construction and renovation to create an expandable, modern container terminal; and road and rail upgrades required to support the expanded modernized facility.

Calcasieu Salinity Control - Joe's Cut & West Pass, CPRA, Calcasieu Parish, LA (RSIQ 2016-2019): Mr. Lancaster is NSI's Project manager overseeing and coordinating all aspects of the engineering project. As NSI team leader, develops and coordinates the work plan, civil design, project team meetings, and coordinates with sub-consultants.

Tag Along Creek Drainage Analysis, St. Tammany Parish, LA: Project Manager, Responsible for engineering deliverables for a drainage analysis of Tag Along Creek, a tributary to Bayou Lacombe, for the purpose of determining causes of flooding and developing a solution to afford flood relief for residents of Cloverland Acres Subdivision.

Bayou Mandeville Maintenance Dredging, 3-Year Task Order Contract: Engineering. Officer-in-Charge for this task order contract which has included two task orders to date. One task order provides debris screen improvements at the Teche Vermilion Pump Station. The Bayou Mandeville Maintenance Dredging task includes dredging of a 1-mile-long preexisting access channel from Lake Lery into Bayou Mandeville with the disposal to supplement the Western Bank of Lake Lery.

Mandeville Lakefront Wetlands Restoration, Mandeville, LA: Project Manager for Lakefront Wetlands Restoration Project will prevent further degradation of the existing wetlands and restore a functioning wetlands ecosystem within the area. Storm water from the Galvez and Massena outfalls will be directed through created wetlands, improving water quality within Lake Pontchartrain. The project established a best practice for creation of new wetlands, provided engineering concepts in support of multiple storm water routing alternatives and coastal engineering concepts for the design of a storm-resistant shoreline closure with an integral bike path and pedestrian link between Old Mandeville and Sunset Point Park.

Salt Aire Shoreline Restoration, Mobile County, AL: Mr. Lancaster provided Quality Assurance and Quality Control for the preparation of Construction Documents (Plans, Specifications, and Engineer's Opinion of Probable Cost) for the Coastal Engineering Design of the Shoreline Protection and Restoration Project.

High Water Level Flood Protection Bridges, USACE New Orleans, LA: Project Manager, designed flood protection bridges for the Orleans Avenue Canal, which is part of the City of New Orleans Hurricane Flood Protection System. Work included new bridges, floodwalls (I-walls and T-Walls), levees, and roadway approaches. These new bridges tie into the Hurricane Levee Protection System and allow the roads to remain open during flood conditions.

The Groves, Pelican Park, Mandeville, LA: Project Manager for programming, schematic design, final design, bidding and construction phase services for this \$1.8 million green space and multi-generational park project for Pelican Park in Mandeville, Louisiana. The project was funded by St. Tammany Parish, Recreation District. No. 1

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Nick Ferlito, Jr., PE, PTOE *Louisiana Area Manager*

Project Assignment:

Project Principal

Name of Firm with which associated:**Years' experience with this Firm:**

28 years (29 total)

Education: Degree(s)/Year/Specialization:

BS / 1993 / Civil Engineering
MS / 1996 / Civil Engineering

Active registration: Year first registered/discipline:

1998 / Professional Engineer – Civil, LA #28001

Other experience and qualifications relevant to the proposed Project:

Mr. Ferlito joined Neel-Schaffer in 1996. He is a Senior Vice President and serves as Louisiana Area Manager, overseeing all responsibilities for the state.

An ITE-certified Professional Traffic Operations Engineer, he has more than 30 years of experience and manages a wide range of traffic and transportation projects. He has served as a project manager for many intersection/corridor signal timing studies, signal design projects, safety studies and other traffic engineering related projects for public and private projects.

Mr. Ferlito is experienced with numerous traffic engineering software packages, including HCS, CORSIM, SYNCHRO, Tru-Traffic (TSPPDraft), and SIDRA. He also completed the Naztec TS1/TS2 Controller 2-Day training course. He has also completed the NEPA and Transportation Decision Making course (2004), the Highway Safety Manual Workshop (2011) as well as LADOTD's Traffic Engineering Process and Report (TEPR) training.

RELEVANT EXPERIENCE

I-10 & I-12 College Drive Flyover Ramp Design-Build, Baton Rouge, LA: Project Manager for Interchange Modification Report, Transportation Management Plan (TMP) and ITR of MOT Plans for the proposed College Drive Ramp improvements. The IMR was prepared in accordance with DOTD's TEPR and FHWA Policy Points. The IMR analysis was performed using Vissim software. In addition, the TMP was prepared for the various maintenance of traffic phases. Analysis used in the TMP included HCS analysis for detour evaluations and Dynameq (Mesoscopic Modeling) for evaluating various MOT strategies. The project also includes signal modification plans at College Drive and the I-10 WB off ramp. (July 2020 – Present)

US 80 Feasibility Study, Haughton, LA: Stage 0/Traffic & Safety Study (S.P. No. 44-10504, T.O. No. H.014044.1) Project

TEC Professional Services Questionnaire

Manager for the preparation of a Stage 0 Report in support of safety improvements along US 80 corridor, specifically in the vicinity of Bellevue Road and Mid South Loop Road. All analysis performed in HCS for this study. The traffic study was performed in accordance with DOTD's TEPR.

Kansas Lane-Garrett Road Connector and I-20 Improvements, Monroe, LA: (S.P. No. H.004774.5 & H.007300.6) Project Manager/Traffic Lead for the preparation of a Level 4 Transportation Management Plan, review of MOT plans, design of temporary and permanent traffic signals and design of the relocation of DOTD ITS fiber optic trunk line.

I-49 South at Verot School Road, Lafayette, LA: (S.P. No. H.011235.5) Traffic Lead that performed Traffic QA/QC on the preparation of a Transportation Management Plan and design of temporary and permanent traffic signals.

MOVEBR Harding Boulevard at Interstate I-110: Project Manager for traffic engineering for intersection improvements for Harding Boulevard at I-110 to analyze the existing and projected future No Build conditions for operational and safety issues, and developed Tier 1 design solutions that mitigate those issues.

MOVEBR College Drive Enhancements: Project Manager for a traffic study that addressed pedestrian mobility and transit accommodations. The overall project plan incorporated planned LADOTD improvement projects at Interstate 10 which include a Design-Build project to modify the westbound offramp and other ramp terminal improvements implemented by the I-10 widening CMAR project.

MOVEBR N. Sherwood Forest Extension: Project Manager for design report for the extension of the existing North Sherwood Forest Drive from its current northern terminus at Greenwell Springs Road to the intersection of Joor Road at Mickens Road.

College Drive Enhancement Project (Perkins Road to I-10), Baton Rouge, LA (MOVEBR Project 19-EN-HC-0033): Project Manager for the Traffic Study component for the study of the College Drive corridor. The Traffic Study is being prepared in accordance with DOTD' TEPR and includes performing all analysis in Vissim to evaluate various alternatives. In addition to corridor improvements, a tiered analysis will be performed to evaluate various interchange alternatives for I-10 at College Drive. Dynameq will also be used to evaluate off system and connectivity alternatives within the study area.

LA 385 Feasibility Study, Lake Charles, LA: Stage 0/Traffic & Safety Study (S.P. No. 44-4402, T.O. No. H.012685.1) Developed a Stage 0 Report in support of safety improvements along with the LA 385 (Ryan Street) corridor between LA 3186 south of I-10 to Eddy Street north of I-10, including the LA 385 interchange with I-10. Traffic Engineering Manager

LA 6 Feasibility Study, Natchitoches, LA: Stage 0 / Traffic & Safety Study (S.P. 44-4402, T.O. No. H.012307.1) Prepared and coordinated a formal Stage 0, including a comprehensive safety analysis and traffic study for the purpose of analyzing existing and future conditions along the LA 6 corridor between Parish Road 542 west of I-49 to LA 3278 east of I-49, including the LA 6 interchange with I-49 to determine feasible alternatives that will preserve and enhance mobility and safety. Traffic Engineering Manager

District 05 Safety Investment Plan, DOTD District 05 (SPN 4400010504, Task No, H.014295.1). Project Manager for this study. Coordinated the evaluation of crashes on the state and local highway networks using variations in crash statistics to identify possible roadway issues and potential low-cost safety improvements.

IDIQ Contract for Safety Studies (44-10504) District 08 Safety Investment Plan: Developed a District-wide Safety Investment Plan for low cost improvements for HPSI locations, abnormal intersections, roadway departure locations and local roads. Crash history was evaluated at over 70 locations, countermeasures were identified and B/C analysis was performed using CMFs and estimated construction cost for potential low cost improvements at each location.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Steve Hazen, PE <i>Senior Project Manager</i>
Project Assignment:
Structural Engineer
Name of Firm with which associated:

Years' experience with this Firm:
16 years (<i>49 total</i>)
Education: Degree(s)/Year/Specialization:
BS / 1974 / Civil Engineering
Active registration: Year first registered/discipline:
1979 / Professional Engineer - Civil, LA 18087
Other experience and qualifications relevant to the proposed Project:
<p>Steve joined Neel-Schaffer in 2008 and has nearly 50 years of experience. He has worked as a Structural, Hydraulics and Soils Engineer with a primary focus on highway and railway bridges, structural design for buildings, facilities, hydrological analysis, and drainage design for projects. He recently served as the structural designer for several facilities at the Port of Gulfport as well as many bridge and roadway projects in Harris County, TX.</p> <p>RELATED EXPERIENCE</p> <p>Mandeville Lakefront Wetlands Restoration: Senior Structural Engineer. Situated between two “hard” shorelines, a mature cypress forest is rapidly eroding. The project will prevent further degradation of the existing wetlands and restore a functioning wetlands ecosystem within the area. Storm water from the Galvez and Massena outfalls will be directed through created wetlands, improving water quality within Lake Pontchartrain.</p> <p>Calcasieu-Sabine Large-Scale Marsh and Hydrologic Restoration Project: Senior Structural Engineer. Design Integration Services that include a combination of initial project management activities, initial data gap analysis preliminary data collection, design integration planning, including project E&D work breakdown structure and cost estimates, optimization planning and initial optimization tasks, and other project planning.</p> <p>Slidell Ring Levee: Slidell East Segments (PO-184): Senior Structural Engineer. Feasibility evaluation of alternative alignments for flood protection and resiliency for the eastern side of Slidell and conceptual planning and engineering for the required alignment features. Provide Independent Technical Review of conceptual design alternatives and development of capital and construction costs for project features. Review of structural conflicts and land right issues associated with conceptual alignments.</p> <p>Port of Gulfport Restoration: Senior Project Engineer responsible for the structural design of three vehicle maintenance and repair buildings, three gate interchange structures, Customs and Border Patrol building and cross dock inspection facility for the Mississippi State Port Authority.</p>

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Calcasieu Salinity Control - Joe's Cut & West Pass, CPRA, Calcasieu Parish, LA (RSIQ 2016-2019): Steve is NSI's primary manager overseeing and coordinating all aspects of the structural engineering components of the project for Joe's Cut. Assists, develops and coordinates the civil design, and coordinates with sub-consultants for the design of West Pass.

Design of hurricane protection levees in Rockefeller Wildlife Refuge in Cameron Parish: Mr. Hazen provided engineering design services for the elevation of hurricane protection levees at the Rockefeller refuge in Southwestern Louisiana. Marsh settlement led to existing levee grades being lower than the required elevation for the desired level of protection.

Inspection of Mississippi river levees during flooding, Belle Chase to Venice, LA: Mr. Hazen performed structural/geotechnical field inspection and evaluation services of various flood risk reduction system components downriver of New Orleans, LA. Specifically he performed an armoring and erosion control study that included erosion monitoring, armoring analysis, and design recommendations that included the use of concrete slope paving and baffle boards.

Design of channel improvement to Bayou Pierre in Shreveport from 70th street to Industrial loop: Mr. Hazen performed hydraulic design of the channel and improvements utilizing the U.S. Army Corps of Engineers, Hydraulic Engineering Center's (HEC) suite of models.

Analysis of Gilbert Bayou channel improvements in Caddo Parish for FEMA LOMR application: Mr. Hazen performed analysis using USACE HEC software for the Caddo Parish Commission to design improvements to the channel of Gilbert Bayou.

Analysis of Bayou Pierre and floodway at Robson for Caddo/Bossier Port for submittal to FEMA: Mr. Hazen performed hydraulic design using USACE HEC software to evaluate hydraulic impacts on the floodway of improvements at the Caddo/Bossier Port.

Hydraulic design of slab span bridges and culverts for timed project Hwy 167. Quitman to Lincoln Parish Line: Mr. Hazen utilized USACE HEC-RAS and LADOTD Hydraulics software for the analysis and design process of bridges and culverts associated with the roadway design.

LA 371 Bridge over Red River at Coushatta, LA: Project Engineer responsible for design of steel cross frames and lateral bracing for non-redundant steel plate girders, concrete approach piers designed to withstand barge impacts, and voided concrete slab approach span design. Pier design included steel H-pile design for barge impact and design of concrete tremie seals. Other work included detailing of miscellaneous steel items, quality control of drawings and review of shop drawings. Two designs were provided for the bridge, one being a concrete segmental bridge and the other a steel plate girder bridge. The steel plate girder bridge was constructed. At the bridge location the Red River is navigable so all main piers and approach column bents in the river were designed to resist the extreme loading from barge impact. The two column approach bents were connected with concrete walls designed in accordance with barge impact criteria provided by LaDOTD.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Amanda Phillips, PE *Senior Project Engineer*

Project Assignment:

Senior Project Engineer

Name of Firm with which associated:**Years' experience with this Firm:**

4 years (22 total)

Education: Degree(s)/Year/Specialization:

BS / 2000 / Biological Engineering

Active registration: Year first registered/discipline:

2005 / Professional Engineer - Civil, LA 31764

Other experience and qualifications relevant to the proposed Project:

Amanda joined Neel-Schaffer in 2020 and serves as a Senior Project Manager in the Coastal Science and Engineering department. Amanda has 20 years of design and construction experience on a wide variety of coastal restoration projects.

In addition to design work, she has spent more than 10 years working and learning the world of marine construction. This fast paced, real-world experience has provided her with successes and failures of inland waterway and heavy civil construction critical to furthering her understanding coastal engineering and construction challenges.

Her background in biological engineering coupled with her years of construction experience, has provided a unique lens with which to view coastal projects. She is currently pursuing a Master's in Coastal Engineering and Sciences at the University of New Orleans.

RELEVANT EXPERIENCE

Mandeville Lakefront Wetlands Restoration: Engineer of Record. Update of project design to include changes to existing conditions since original design. Design provides a reduction of water surface elevations for the 50, 100-, and 500-yr storm events through reduction in wave heights and addresses future erosion by significantly reducing the open water fetch from Lake Pontchartrain at the project site. Design reroutes urban stormwaters through the wetlands allowing suspended sediment to settle within the lagoon and marsh areas and will mitigate the effects of saltwater intrusion on the existing wetlands. The newly created wetlands will increase faunal habitats, support fisheries, support bird usage, improve primary productivity at the base of the food chain and improve carbon sequestration and watershed storage.

St. Tammany Parish Sustainable Growth Pilot Study: Technical Advisor. Study to detail the hydrology and hydraulics of three drainage basins within the study area to consider future development as related to types, conditions, densities, and regulatory structure associated with the developments. Additionally, the goal is to review regulation of stormwater

TEC Professional Services Questionnaire

management within the study area to avoid additional flood risk and or mitigate flooding within the existing drainage basins associated with the study area as related to existing and future developments.

Slidell Ring Levee: Slidell East Segments (PO-184): Senior Project Engineer. Feasibility evaluation of alternative alignments for flood protection and resiliency for the eastern side of Slidell and conceptual planning and engineering for the required alignment features. Provide Independent Technical Review of conceptual design alternatives and development of capital and construction costs for project features. Review of structural conflicts and land right issues associated with conceptual alignments.

St. Tammany Parish Coastal Master Plan (PO-167), St. Tammany Parish, LA: Senior Project Engineer. Updates to the 2012 Northshore Hurricane and Flood Protection Study with newly completed and current proposed projects as well as coordination with state and federal agencies for the development of independent project feasibility evaluations for the development of a Master Plan within the Coastal Zone of St. Tammany Parish. Development and evaluation of conceptual alignments and estimated capital and construction costs of proposed alignments to determine project priority and viability. Development of conceptual design analysis summary report.

University Lakes Flood Risk Reduction Design: Senior Project Engineer – Dredging and Constructability Coordination with Construction Manager at Risk (CMAR). Improvements to water quality and flood risk reduction potential for the Louisiana State University (LSU) Lakes System. Development and constructability review for dredging of the 6 Lakes. Provide Independent Technical Review of conceptual design alternatives and development of construction costs for project features. Coordination with CMAR Contractor for Constructability concerns and issues during the development of Dredging Plans and Specifications.

Calcasieu-Sabine Large-Scale Marsh and Hydrologic Restoration Project: Senior Project Engineer. Design Integration Services that include a combination of initial project management activities, initial data gap analysis preliminary data collection, design integration planning, including project E&D work breakdown structure and cost estimates, optimization planning and initial optimization tasks, and other project planning.

Bayou Mandeville Dredging: Project Engineer. Coordinated work of subconsultants for hydrographic surveying of existing channel for this Louisiana Coastal Restoration & Protection Authority (CPRA) project. Provided recommendations to client for project path forward based on survey data and client needs.

Teche-Vermillion Debris Screen: Project Engineer. Coordinated with client to determine project issues and researched options utilizing client input for this CPRA project. Developed scopes of work for geotechnical subcontractor and provided design and oversight of debris screen of a temporary nature as chosen by client.

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Warren Huggins, PE <i>Civil Engineer</i>
Project Assignment:
Civil Engineer
Name of Firm with which associated:

Years' experience with this Firm:
11 years (<i>12 total</i>)
Education: Degree(s)/Year/Specialization:
BS / 2012 / Civil Engineering
Active registration: Year first registered/discipline:
2018 / Professional Engineer - Civil, LA 42443
Other experience and qualifications relevant to the proposed Project:
<p>Warren joined Neel-Schaffer in 2013 and works out of the firm's New Orleans and Mandeville, LA, offices. He has assisted in the design of several FEMA-funded Recovery Roads Program projects in New Orleans that include roadway and sidewalk rehabilitation, ADA ramp improvements, water line replacement, and drainage improvements. Warren also has assisted in airport design and planning, developed FAA bid documents, and developed engineer's estimates.</p> <p>RELATED EXPERIENCE</p> <p>Port of Gulfport Restoration Program – West Pier Construction Phases 1, 2, and 3, West Pier Facilities, Gulfport, MS: Construction of over \$160 million in port improvements including demolition, grading, storm drainage and site utilities, paving and roadway construction, electrical and site lighting, striping, railroad construction, transit shed, administration, and maintenance and repair buildings. Responsibilities include developing construction constraints and sequencing plans for all projects, design of some site utilities, and cost estimation duties.</p> <p>Calcasieu Salinity Control - Joe's Cut & West Pass, CPRA, Calcasieu Parish, LA (RSIQ 2016-2019): Designing control structures to limit salinities being introduced through the Calcasieu Ship Channel (CSC) into Calcasieu Lake and surrounding wetlands to reduce the rate of wetland loss within the project area. Duties include cost and quantity estimating, creating drawings such as plan/profiles, cross sections, and details, and coordinating with sub consultants on project features.</p> <p>Salt Aire Shoreline Restoration – Mobile County, AL: Design of a living breakwater and shoreline restoration, using dredged fill and concrete-unit-based wave attenuation structures, to prevent shoreline retreat of the Salt Aire Property and Goat Island in Mobile Bay. Duties included assisting the coastal engineer in the design and preparation of plans, such as existing conditions, proposed layouts, cross sections, typical sections, signage and details.</p>

TEC Professional Services Questionnaire

Concordia Parish Drainage, Concordia Parish, LA: Created hydraulic models of the system of Bayous and canals (approx. 60 mi) that provide for the stormwater drainage of Concordia Parish. Assisted in developing maps that illustrate the parish-wide inundation changes that result from several proposed drainage improvements.

Repurpose Green Field Five, Pelican Park, Mandeville, LA: For Recreation District No. 1, planning and design for repurposing the Green Field Five to an adult focused recreation area with a walking trail adjacent to a created pond, Bocce Ball and Pickleball courts, designed drainage improvements and other amenities. Construction engineering services included response to requests for information, submittal review and biweekly progress meetings. Construction cost is approximately \$1,600,000.

FEMA-funded Recovery Roads Program, Lower Ninth Ward Quad 2, New Orleans: Engineer Intern. Comprehensive recovery strategy to repair Hurricane Katrina related damages on and beneath city managed streets throughout New Orleans. Responsibilities include determination of storm related repairs to streets, sidewalks and ADA ramps through FEMA scoping. Coordination with the Sewerage and Water Board of New Orleans Water Line Replacement Program to incorporate water line and drainage improvements into the project.

Waterline Replacement Program, Mid-City and City Park Neighborhoods, New Orleans, LA: Engineer Intern. Part of a larger Citywide, multi-year infrastructure repair/recovery effort funded by FEMA to restore the city's distribution system. Responsibilities include plan/profile design of new waterlines and drainage improvements on over 60 city blocks.

Lower Ninth Ward Streetscape Phase II, New Orleans, LA: Engineer Intern. The second and final phase of "streetscape" beautification on North Claiborne Avenue. Responsibilities included design of ADA ramps, landscaping, art plazas and previous concrete for pedestrian walkways throughout the neutral ground.

South Jahncke Avenue Water Line Improvements, Covington, LA: Engineer Intern. Water distribution improvements that include replacing 1,600 feet of 4-inch water main with a 10-inch water main. Responsibilities include plan/profile design of new water main and pavement replacement.

Port of Gulfport (MS) Restoration Program, West Pier Construction Phase I and West Pier Facilities: Engineer Intern. Construction of \$110 million in port improvements, including demolition, grading, storm drainage and site utilities, paving and roadway construction, electrical and site lighting, striping, railroad construction, transit shed, administration buildings, and maintenance and repair buildings. Responsibilities included developing construction constraints and sequencing plans for both projects.

Water Line Replacement Program – Mid-City, City Park, and Dixon Neighborhoods, New Orleans, LA: Part of a larger City-wide, multi-year infrastructure repair/recovery effort funded by FEMA to restore the city's water distribution system. Responsibilities include plan/profile design of new waterlines and drainage repairs on over 65 city blocks.

Lower Ninth Ward Streetscape Phase II, New Orleans, LA: The second and final phase of "streetscape" beautification on North Claiborne Ave. in the Lower Ninth Ward neighborhood. Responsibilities included design of ADA ramps, landscaping, art plazas and previous concrete pedestrian walkways throughout the neutral ground and assistance with construction services. Construction cost is approximately \$535,000.

Broad and Lafitte St. Streetscape, New Orleans, LA: "Streetscape" beautification project that ties in with the Lafitte Greenway Bicycle and Pedestrian Path project making the Mid-City neighborhood more accessible for pedestrians. Responsibilities included design of ADA ramps, striping with the addition of bike lines, street lighting additions and improvements, and landscaping and assisting with construction services. Construction cost is approximately \$540,000.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Christopher M. Trebisky, PE, PLS, PP *Senior Project Manager*

Project Assignment:

Civil Engineer

Name of Firm with which associated:**Years' experience with this Firm:**

12 years (*25 total*)

Education: Degree(s)/Year/Specialization:

BS / 2003 / Environmental Engineering
BS / 2010 / Engineering Technology-Surveying

Active registration: Year first registered/discipline:

2013 / Professional Engineer – MS 21207
2014 / Professional Surveyor – MS 25446

Other experience and qualifications relevant to the proposed Project:

Christopher joined Neel-Schaffer in 2012 and serves as a Senior Project Manager on a variety of site/civil and engineering projects. His areas of expertise include site planning, design, transportation design, topographic and title surveying, sanitary and storm drainage systems, and recreation design. Before joining Neel-Schaffer, he worked for 13 years as a project manager for a New Jersey-based consulting firm.

In addition, he has experience in writing specifications, bidding and contracting construction work, meeting construction schedules and construction inspection. Christopher is skilled in project budgeting and cost analysis with an excellent background in estimating. Besides engineering and surveying practices, he holds expertise in the field of green construction as a LEED Accredited Professional.

RELATED EXPERIENCE

Port of Gulfport Restoration, West Pier Site Improvements, Phase I, Gulfport, MS: Project Engineer. Engineering design and construction services for Phase I of a 95-acre Port expansion. Responsible for overall site design, stormwater management and pavement design, with construction costs exceeding \$60 million.

Port of Gulfport Restoration, West Pier Site Improvements, Phase 2, Gulfport, MS: Project Engineer. Engineering design and construction services for Phase 2 of a 50-acre Port expansion. Responsible for overall site design, stormwater management and pavement design, with construction costs exceeding \$30 million.

City of Vicksburg Port Expansion, Vicksburg, MS: Preliminary Engineering Design and Environmental Permitting for the protection of approximately 1,800 Acres for the development of a multi-modal port in the City of Vicksburg. The project includes the construction approximately 5 miles of levee protection adjacent to the Mississippi River, the development of a slackwater port, and infrastructure to support industrial development vital to the City.

TEC Professional Services Questionnaire

Amazon Warehouse Civil Site Design, Madison County, MS: Project Manager. Neel-Schaffer was contracted by the Trammell Crow Company to provide complete engineering design and construction management services for a 2.7 million-square foot warehouse near Canton (MS) for Amazon, a one of the top four e-commerce and information technology companies in the United States. The 70-acre site will be the first anchor building for an 850-acre megasite industrial park near Interstate 55 being developed by the Madison County Economic Development Authority. Construction began on the massive ARS Sort Facility on August 1, 2020 and is expected to take 13 months to complete. Neel-Schaffer provided complete civil site design and permitting services on an expedited schedule and is now providing construction management services. Neel-Schaffer sister firms Maptech and SoilTech Consultants provided survey and geotechnical engineering services, respectively.

Vicksburg Sports Force Parks, Vicksburg, MS: Neel-Schaffer provided a wide variety of services for the construction of Sports Force Parks on the Mississippi, a new \$20 million multi-use complex that opened in February 2019 in Vicksburg near the Mississippi River. Services include civil site design for grading, drainage, and layout for the new complex. Neel-Schaffer also provided construction engineering and inspection during the construction phase, survey through sister firm Maptech, and water and wastewater design through subconsultant SOL Engineering.

Rankin Trails Amphitheater and Baseball Park Project, Brandon MS: Project Manager. Engineering design and construction services for a 75-acre recreational facility, including the provision of 10 baseball fields with state-of-the-art lighting, concession buildings, parking areas and an 8,000-seat amphitheater. Responsible for overall site design, grading and stormwater management and pavement design with construction costs exceeding \$20 million.

Continental Tire, Hinds County, MS: Project Engineer. Preliminary engineering design and planning services for the new \$2.4 billion Continental Tire facility under construction near Clinton. This project included the overall site and drainage layout required to obtain a Section 401 Water Quality permit. The scope also included the design of earthwork models to aid in the development of construction cost estimates for the plant, scheduled to open in late 2019.

Shiloh Park Improvements Project, Brandon, MS: Project Manager. Engineering design and construction services for the reconstruction of a 110-acre recreational facility, including the provision of three new soccer fields, one football field, and miscellaneous parking lots. The project also included converting eight baseball fields to softball fields, and the provision of state-of-the-art lighting systems. Responsible for overall site design, grading, stormwater management and pavement design, with construction costs exceeding \$4 million.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Leah Selcer, PE <i>Civil Engineer</i>
Project Assignment:
Civil/Coastal Engineer
Name of Firm with which associated:

Years' experience with this Firm:
4 (10 total)
Education: Degree(s)/Year/Specialization:
BS / 2014 / Civil Engineering
Active registration: Year first registered/discipline:
2019 / Professional Engineer - Civil, LA 43492
Other experience and qualifications relevant to the proposed Project:
<p>Leah joined Neel-Schaffer's Baton Rouge office in 2020. With an extensive and diverse experience working for consulting firms on a variety of Civil Engineering projects, her focus is providing Coastal Engineering services for NSI clients.</p> <p>She has a broad range of project engineering and management experience, providing design, planning, and budgeting services for multiple projects. She is also experienced in preparing permits, plans and specifications, design calculations, reports, and presentations for a variety of civil engineering projects.</p> <p>She has assisted in the engineering and design of several complex civil, coastal and water resources projects for coastal ports, parish governments, LADOTD, CPRA, as well as private developers.</p> <p>RELEVANT EXPERIENCE</p> <p>Mandeville Lakefront Wetlands Restoration: Situated between two "hard" shorelines, a mature cypress forest is rapidly eroding. The Mandeville Lakefront Wetlands Restoration Project will prevent further degradation of the existing wetlands and restore a functioning wetlands ecosystem within the area. Storm water from the Galvez and Massena outfalls will be directed through created wetlands, improving water quality within Lake Pontchartrain.</p> <p>Slidell Ring Levee: Slidell East Segments (PO-184): Project Engineer. Feasibility evaluation of alternative alignments for flood protection for the eastern side of Slidell and conceptual planning and engineering for the required alignment features. The project also included hydrologic and hydraulic considerations and conceptual modeling for two drainage pump stations are required along proposed levee segment to manage the rainfall captured within the flood protection systems during gate closure events to address inland or upstream flooding. Conceptual level of analysis was performed for the sizing of these pump stations.</p>

TEC Professional Services Questionnaire

Coastal Processes Study for Lillian Park: The Coastal Processes Study for the Lillian Park Beach Habitat and Shoreline Protection Project evaluates the existing conditions and associated coastal processes. By establishing the existing conditions related to wave action, sediment deposition, erosion, and degradation of littoral environments, conceptual alternative solutions can be developed, evaluated, and selected to provide a sustainable shoreline and boat ramp.

St. Tammany Parish Coastal Master Plan (PO-167): Project Engineer. Neel-Schaffer tasks include updating the GEC 2012 Northshore Hurricane and Flood Protection Study with newly completed and current proposed projects, gather information on multiple projects by different agencies and jurisdictions. Perform a gap analysis to identify new projects, and a benefit/cost analysis of proposed projects will be completed to determine project priority and viability. NSI is currently performing a Conceptual project Alternatives and Feasibility Analysis as a part of Task III.

Calcasieu-Sabine Large-Scale Marsh and Hydrologic Restoration Project: Project Engineer for Design Integration Services that include a combination of initial project management activities, initial data gap analysis preliminary data collection, design integration planning. Main project tasks involve evaluation of the flow capacity of the existing drainage system, provide design conditions to drive local hydraulic modeling for culverts, and hydrologic structure design optimization. Hydrologic structure design optimization includes development of hydrologic structure alternatives, analysis and determination of preferred structure type, construction logistics and constructability evaluation, conceptual level estimates of quantities, construction, and operations/maintenance costs, and conceptual pump station evaluation.

University Lakes Flood Risk Reduction Design: Dredging and Constructability Coordination with Construction Manager at Risk (CMAR). Improvements to water quality and flood risk reduction potential for the Louisiana State University (LSU) Lakes System. Development and constructability review for dredging of the 6 Lakes. Provide internal Independent Technical Review of conceptual design alternatives and development of construction costs for project features. Coordination with CMAR Contractor for Constructability concerns and issues during the development of Dredging Plans and Specifications.

Calcasieu Salinity Control - Joe's Cut & West Pass: Project Engineer. Designing control structures to limit salinities being introduced through the Calcasieu Ship Channel (CSC) into Calcasieu Lake and surrounding wetlands to reduce the rate of wetland loss within the project area. Duties include calculations for estimated scour and rip-rap sizing.

Jackson County Board of Supervisors Dredging Program, Group 4: In response to the disaster damages as a result of Hurricane Nate (FEMA EM-3393), Neel-Schaffer was selected by the Jackson County Board of Supervisors to provide professional civil engineering and monitoring services for the dredging, debris and sediment removal of approximately 12,000 linear feet of navigable channels. The project also includes design services necessary to restore navigation aids to acceptable operations.

Upper Terrebonne Basin Watershed Plan/EA, Upper Delta Soil & Water Conservation District: Ms. Selcer was the project engineer responsible for preparing a hydrologic and hydraulic analysis as part of the Watershed Plan and EA for the Upper Terrebonne Basin Watershed using HEC HMS for storm water runoff calculations and HEC RAS for required channel improvements. The total flood protection project area encompasses seven HUC 12 watersheds totaling approximately 225,072 acres.

Petite Caillou Drainage Project, Terrebonne Parish, LA: Project Engineer. This project consisted of the design 450 cfs drainage pump station to reduce flooding due to excessive rainfall. Ms. Selcer performed site design of the pump station and the hydraulic calculations of the conveyance channel. Ms. Selcer prepared preliminary construction plans and estimate of probable cost.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Shane Seeger, EI <i>Civil/Coastal Engineer</i>
Project Assignment:
Civil/Coastal Engineering
Name of Firm with which associated:

Years' experience with this Firm:
4 (4 total)
Education: Degree(s)/Year/Specialization:
BS / 2022 / Environmental Engineering
Active registration: Year first registered/discipline:
2022 / Engineering Intern - LA 35169
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Shane Seeger has four years of engineering experience as a student intern at Neel-Schaffer's Baton Rouge office. He has experience assisting and with design and document preparation in the Coastal and Water Resources field. Projects he works on include drainage, the design and implementation of habitat restoration, marsh creation, shoreline protection, hydrologic restoration, and flood protection in Coastal Louisiana.</p> <p>RELATED EXPERIENCE</p> <p>Mandeville Lakefront Wetlands Restoration Project, Mandeville, LA: Situated between two "hard" shorelines, a mature cypress forest is rapidly eroding. The Mandeville Lakefront Wetlands Restoration Project will prevent further degradation of the existing wetlands and restore a functioning wetlands ecosystem within the area. Storm water from the Galvez and Massena outfalls will be directed through created wetlands, improving water quality within Lake Pontchartrain.</p> <p>PO-184: St. Tammany Storm Surge Risk Reduction Project: Feasibility evaluation of alternative alignments for flood protection for the eastern side of Slidell and conceptual planning and engineering for the required alignment features.</p> <p>PO-167: St. Tammany Parish Coastal Protection Master Plan, St. Tammany Parish, LA: Neel-Schaffer tasks include updating the GEC 2012 Northshore Hurricane and Flood Protection Study with newly completed and current proposed projects, gather information on multiple projects by different agencies and jurisdictions. Perform a gap analysis to identify new projects, and a benefit/cost analysis of proposed projects will be completed to determine project priority and viability. NSI is currently performing a Conceptual project Alternatives and Feasibility Analysis as a part of Task III.</p> <p>CS-87 Calcasieu-Sabine Large-Scale Marsh and Hydrologic Restoration Project: Project Engineer for Design Integration Services that include a combination of initial project management activities, initial data gap analysis preliminary data collection, design integration planning, including project E&D work breakdown structure and cost estimates, optimization</p>

TEC Professional Services Questionnaire

planning and initial optimization tasks, and other project planning tasks.

Coastal Processes Study for the Lillian Park Beach Habitat and Shoreline Protection Project: The Coastal Processes Study for the Lillian Park Beach Habitat and Shoreline Protection Project evaluates the existing conditions and associated coastal processes. By establishing the existing conditions related to wave action, sediment deposition, erosion, and degradation of littoral environments, conceptual alternative solutions can be developed, evaluated, and selected to provide a sustainable shoreline and boat ramp.



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Sahar Haddadian, PE, PhD, CFM, WEDG <i>Coastal Engineer</i>
Project Assignment:
Coastal Engineer
Name of Firm with which associated:

Years' experience with this Firm:
2 (11 total)
Education: Degree(s)/Year/Specialization:
BS / 2011 / Civil & Structural Engineering MS / 2013 / Civil & Hydraulic Engineering PhD / 2020 / Civil & Coastal Engineering
Active registration: Year first registered/discipline:
2024 / Professional Engineer - Civil, LA 48648
Other experience and qualifications relevant to the proposed Project:
<p>Ms. Haddadian joined Neel-Schaffer in 2022 and serves as a Coastal Engineer responsible for coastal engineering analyses, numerical modeling, and the design of coastal structures.</p> <p>Sahar has three years of experience, and her expertise ranges from project inception to construction, including: feasibility studies, field investigations, cost estimates, comprehensive coastal engineering analyses, numerical modeling, and structural design.</p>
RELATED EXPERIENCE
<p>MDOT SCOUR Analysis for US-84 and SR-15 Bridges Over Tallahala Creek, MS: Provided quality assessment of two-dimensional numerical modeling of river hydraulics and bridge scour analysis using SMS-SRH2D software</p> <p>SCDOT Scour Analysis for US-301 Bridge Over Savannah River, SC: Sahar was in charge of two-dimensional numerical modeling of river hydraulics and determining the bridge scour depth and extent for the proposed bridge replacement using SMS- SRH2D software.</p> <p>SCDOT Scour Analysis for US-278 EB/WB Bridge Over Okatee River, SC: Sahar was in charge of developing a two-dimensional hydraulic numerical model to estimate the 100- and 500-year river hydraulics for bridge scour calculations using SMS-SRH2D software.</p> <p>St. Tammany Parish Slidell Breakwater Restoration Feasibility Study, Slidell, LA: Sahar was in charge of evaluating the feasibility of constructing shoreline protection and habitat development through the construction of segmented breakwaters along Lake Pontchartrain's southeast shoreline. Sahar analyzed the existing conditions (water levels, subsidence, sea level rise) and coastal processes (wind and wave climate during normal and extreme conditions) on site to determine the real and ongoing negative consequences to the immediate shoreline and littoral habitat found within</p>

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the study area.

St. Tammany Parish Coastal Master Plan, LA: Sahar was in charge of conducting flooding analysis using a two-dimensional HEC-RAS model to evaluate the vulnerable areas during existing conditions and determine the size of proposed pump stations to reduce flooding risk within the project site.

Austal USA South Access Road, Mobile, AL: Sahar was in charge of conducting a two-dimensional HEC-RAS model to evaluate the changes in water surface elevation within the vicinity of the project site due to the widening of the connector road located on Pinto Pass that connects the South end of the Austal Complex to Dunlap Drive.

Marine Industries Association of Palm Beach County Peanut Island Flood Shoal Dredging Project, Riviera Beach, FL: Sahar was in charge of coastal analysis and dredge design for the Peanut Island dredging project. The analysis focused on the potential effects of dredging, such as sand accretion, reduction of sediment, and how long until the project needs to be dredged again.

Miami-Dade County Haulover and Crandon Park Sea Level Rise Mitigation Plan, Miami, FL: Sahar prepared flood inundation and sea level rise analysis for the Haulover Park Sea Level Rise Mitigation Plan. This plan will lead to the development of mitigation solutions and cost estimates to address the effects of sea level rise that impact the public's use of amenities.

Government of the Bahamas/Engineering & Technical Services Glass Window Bridge Coastal Engineering, Eleuthera, The Bahamas: The project included the reconstruction of existing bridge and roadway, which provides sole access between northern and southern regions of the island. Sahar was responsible for modeling of wave propagation and extreme tide events.

Clifton Point LNG Facility, New Province, The Bahamas: The project included Coastal Engineering analysis in determining the hydrodynamic conditions in the Project site. The goal was to determine the sediment transport processes during the construction of the pier and the fate of potential oil spills during the operational phase. Sahar was responsible for hydraulic analysis and the modeling of sediment transport and oil spill.

FDOT District 1 Sea Level Rise, Miami, FL: The project included the sea level rise analysis and determination of the potential future flooding. Sahar was responsible for determining the King tide in the project area and conducting sea level rise analysis to determine possible areas and roads that would experience flooding.

Sunset Harbor Yacht Club wave screen, City of Miami Beach, FL: The project included the construction of a new wave screen on the seaward side of the existing deck. Sahar was responsible for analyzing wave characteristics both within and outside the perimeter of the existing wave attenuator for the Sunset Harbor Yacht Club, and calculating the wave load and wave attenuation to properly design the wave screen.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Levi Roady, EIT *Coastal Engineer*

Project Assignment:

Coastal Engineer

Name of Firm with which associated:**Years' experience with this Firm:**

2 (4 total)

Education: Degree(s)/Year/Specialization:

BS / 2020 / Ocean Engineering

Active registration: Year first registered/discipline:

2020 / Engineer in Training – TX 74553

Other experience and qualifications relevant to the proposed Project:

Mr. Roady joined Neel-Schaffer in 2022 and serves as an Engineer in Training with the Coastal Engineering Group.

Levi has two years of experience with the Army Corps of Engineer Galveston District.

Based in Texas, Levi works on drainage and coastal projects along the Gulf of Mexico.

RELATED EXPERIENCE

CS-87 Calcasieu-Sabine Large-Scale Marsh and Hydrologic Restoration, Cameron, LA: Graduate Coastal Engineer. Due to the effects of sea level rise, and several major hurricanes, the Calcasieu-Cameron watershed has suffered from significant land loss since the 1970s. Although several marsh restoration projects have occurred in the region in order to restore lost land, CS-87 is the largest scale marsh-restoration project that has been proposed in the region, with benefits for the entire 65,000 acre watershed. Levi has assisted the Baton Rouge office with the design of marsh creation areas for this project, including research and design of the pipeline corridors used to transport sediment, and the borrow areas where material will be drawn from. Additionally, Levi has created a report to document the corridor creation process, and all preliminary requirements of design.

Kingwood (TX) Diversion Ditch Conveyance Improvement Study: Graduate Coastal Engineer. The Kingwood Subdivision experienced severe flooding during both Hurricane Harvey and Tropical Storm Imelda. During these events, the existing Kingwood Diversion Ditch was not able to completely divert flow from the Ben's Branch channel, which resulted in increased flooding in the subdivision. The goal of this project is to improve the capacity of the diversion ditch. Levi assisted by compiling the preliminary engineering report for the project, and coordinating other reports and appendices for delivery to the client.

District Comparative Analysis, Galveston, TX: With the initiation of the "Ike Dike" Texas Coastal Study, and a massive

TEC Professional Services Questionnaire

influx of funding to the district from BBA-18, the comparatively small district of SWG needed to hire new talent that would suit the needs of the Galveston District as they changed their focus from maintenance dredging to new construction. As a student intern with the district's Internal Review group, Levi's report, known as the District Comparative Analysis (DCA), compared the distribution of employees and hiring trends throughout the COE, placing an emphasis on districts that were well-established, specialized in civil works, or conducted operations on the coast. This resulted in a review of 12 of the 36 COE Districts in the Continental United States. Portions of the DCA were used by the SWG commander in a briefing to the Chief of Engineers. The same analysis was used in an analysis by SWD Headquarters Internal Review, where it was presented to 16 Districts from 3 Divisions and was accepted as CPE for professional credit.

Placement Area Classification, Galveston, TX: As an H&H Engineer with the Corps of Engineers, Levi worked with the Operations group, using ArcGIS and topographic imagery to outline every sediment placement area along the GIWW, and determine how much sediment volume each placement area contained. This was used to help create a unified classification system for the GIWW's many sediment placement areas, and determine the total volume for placement remaining along the GIWW. This was in turn used to inform the development of several large dredging projects along the GIWW, and how the placement areas along the GIWW would need to be developed in order to ensure channels could expand to accommodate larger cargo vessels.

PA-118A, Matagorda, TX: Junior H&H Engineer. Levi performed an initial visit to the site, along with other junior geotechnical and structural engineers, to ascertain site conditions of the existing levees and drainage structures. After review was completed, the team worked to design a new outlet structure, in order to accommodate levee raises which would allow dredging operations in the GIWW to continue for the next 10 years.

PA 11, Beaumont, TX: Junior H&H Engineer. On the other end of the GIWW, Levi and a team of other junior engineers visited the site to ascertain site conditions of the existing levees and drainage structures, on behalf of senior coastal engineers. PA 11 was a much larger area than PA-118A, and its outlet structures were in significantly worse condition, making this placement area a much more challenging project. After review was completed, the design team worked to design multiple new outlet structures, in order to accommodate levee raises which would allow dredging operations in the GIWW to continue for the next 10 years.

Texas Coastal Study, Galveston, TX: While not the primary author of the study, Levi worked alongside H&H Engineer Himangshu Das on documentation of the Texas Coastal Study, known as the "Ike Dike," to ensure grammatical accuracy and formatting consistency. Additionally, Levi ensured the accuracy of information in the body between multiple authors, and implemented accurate citations into the text in order to prepare the study for public delivery.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
<i>Christina Lenel Civil Engineering Technician</i>
Project Assignment:
Civil Engineering Technician
Name of Firm with which associated:

Years' experience with this Firm:
3 (15 total)
Education: Degree(s)/Year/Specialization:
BS / 2010 / Industrial Technology
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>Christina Lenel joined Neel-Schaffer and serves as an Engineering Technician in the Mandeville (LA) office. She has more than 10 years of experience as a CAD Tech and Construction Inspector and provides both services for Neel-Schaffer. She joined the firm after working the last seven years for the Louisiana Department of Transportation and Development.</p> <p>Christina's experience includes monitoring construction progress, verifying work performed adhered to plans and specifications, producing daily work reports and estimate quantities, producing As-Built drawings and project closeout submittal packages. She has worked on a variety of projects including new roundabout construction, roadway widening and new roadway construction, installation of embankment and base course, soil cement, asphalt paving, concrete paving, subsurface drainage, and bridge construction.</p>
RELATED EXPERIENCE
<p>Mandeville Lakefront Wetlands Restoration: Civil Designer for Lakefront Wetlands Restoration Project that will prevent further degradation of the wetlands and restore a functioning wetlands ecosystem within the area. Storm water from the Galvez and Massena outfalls will be directed through created wetlands, improving water quality within Lake Pontchartrain. The project established a best practice for creation of new wetlands, provided engineering concepts in support of multiple storm water routing alternatives and coastal engineering concepts for the design of a storm-resistant shoreline closure with an integral bike path and pedestrian link between Old Mandeville and Sunset Point Park.</p>
<p>PO-167: St. Tammany Parish Coastal Master Plan: Civil Designer. NSI tasks include updating the GEC 2012 Northshore Hurricane and Flood Protection Study with newly completed and current proposed projects, gather information on multiple projects by different agencies and jurisdictions. Perform a gap analysis to identify new projects, and a benefit/cost analysis of proposed projects will be completed to determine project priority and viability. NSI is currently performing a</p>

TEC Professional Services Questionnaire

Conceptual project Alternatives and Feasibility Analysis as a part of Task III.

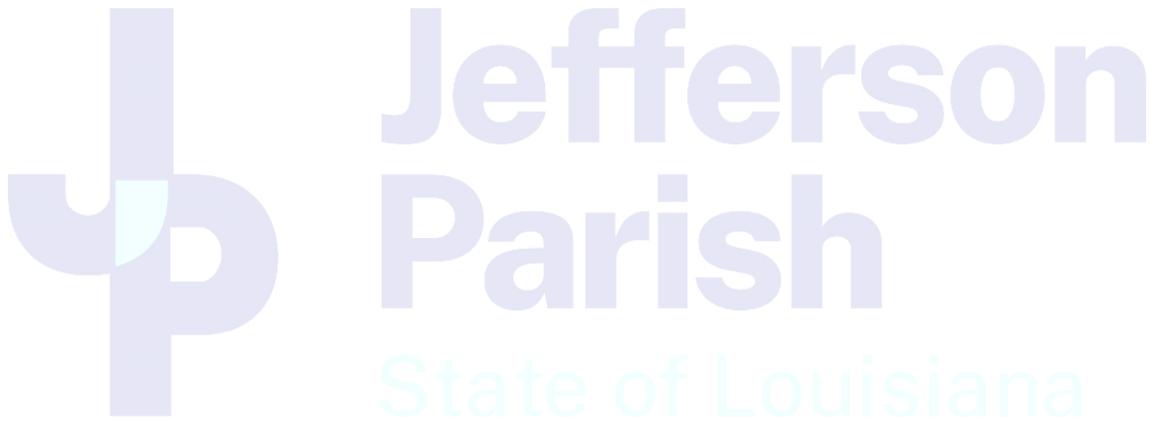
Construction Inspection

US 190: Collins Blvd Right Turn Lane @ Lee Road, Covington, LA: Constructing new turn lane, mill and overlay, embankment and base course, asphalt paving, subsurface drainage.

LA 1085 & LA 1077 Roundabout, Covington, LA: Construct new Roundabout, embankment and base course, asphalt paving and widening, subsurface drainage, Concrete paving.

LA 3228: US 190 to N. Causeway Blvd, Mandeville, LA: Widen to three lanes, embankment and base course, asphalt paving and widening, subsurface drainage, concrete pavement.

LA 59: Roundabout @ Sharp Road, Mandeville, LA: Construct new Roundabout, embankment & base course, asphalt paving and widening, subsurface drainage, concrete paving.



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Mike Phillips, PE, CFM <i>Senior Project Manager</i>
Project Assignment:
Hydrology & Hydraulics
Name of Firm with which associated:

Years' experience with this Firm:
21 years (21 total)
Education: Degree(s)/Year/Specialization:
BS / 2000 / Civil Engineering
Active registration: Year first registered/discipline:
2009 / Professional Engineer - Civil, LA 34600
Other experience and qualifications relevant to the proposed Project:
<p>Mike joined Neel-Schaffer in 2000 and has 21 years of experience as a Project Engineer/Manager for municipal and DOT on-call contracts involving drainage and flooding problems that require responsiveness, technical expertise, and public relations capability. He manages Neel-Schaffer's hydrology & hydraulics discipline, providing services for clients throughout Neel-Schaffer's nine-state footprint.</p> <p>Mike has extensive experience performing drainage/flood damage inspections after flood events. He routinely performs complex and large-scale hydrologic & hydraulic modeling and flood control infrastructure improvement designs for municipal and private clients. He has managed and performed on-call contracts consisting of complex analyses for DOTs in Alabama, Georgia, and Tennessee, and the US Army Corps of Engineers (Memphis, Little Rock, and Vicksburg Districts).</p> <p>Mike has performed numerous high-profile FEMA Flood Insurance Study Updates and Map Revisions for municipalities and private clients. He is very familiar with FEMA National Flood Insurance Program Regulations; and he is an ASFPM Certified Floodplain Manager.</p> <p>Mike is proficient in the latest hydrologic & hydraulic computer models, including GIS-based applications for hydraulics & hydrology (steady and unsteady flow). He has extensive experience collecting drainage inventory and inspection data using hand-held GPS data collectors with mobile ArcGIS applications. He has extensive experience in plans and details preparation using Microstation and AutoCAD and is very proficient in the use of ArcGIS software.</p>
RELATED EXPERIENCE
<p>Mandeville Lakefront Wetlands Restoration: Lead Hydraulic Engineer responsible for hydrologic and hydraulic (H&H) modeling of alternatives for shoreline closure and marsh creation immediately east of Sunset Point Park. Existing canals south of Galvez Street and east of Massena Street were analyzed and alternatives were developed to route canal flows through the proposed cypress wetlands at various storm levels. Extensive coordination was required with coastal</p>

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engineering sub consultant in the exchange of data used for both H&H and wave height numerical modeling. Multiple options for horizontal alignment and cross-sectional geometry of proposed channels through the wetlands were analyzed, as well as options to incorporate a public walking trail through the wetland area.

Brownsitch Road Widening Project, Slidell, LA: Project Engineer responsible for development and calibration of hydrologic and hydraulic models of the upper region of the W-14 Canal watershed that drains to the channel outfall alongside Brownsitch Road. Steady flow models were developed and used to analyze multiple scenarios for design of a subsurface box culvert to capture and convey watershed runoff into the W-14 Canal. Also, localized upstream drainage improvements were analyzed in an effort to reduce the size/cost of the proposed box culvert. The proposed roadway was proposed to be widened to 3-lane capacity and its profile raised to provide access for emergency vehicles during the 100-year storm event. Downstream impacts along the W-14 Canal were analyzed to assess downstream effects and several alternatives were presented to mitigate the increases in discharge.

South Central Drainage Master Plan (LA 1088 and LA 434 Corridor Studies): Project Engineer responsible for performing detailed watershed analyses and hydrologic models for Bayou Lacombe and Bayou Castine drainage basins north of I-12 (60 sq. mi. area). Conceptual engineering design was performed for seven proposed regional detention ponds, and utilization of an existing 60-acre borrow pit lake, to provide regional detention to accommodate future short-term (5-10 year) and long-term (10-20 year) development scenarios, while meeting Parish design requirements for future buildout within areas expected to experience significant growth. Detailed reports and cost estimates were prepared and incorporated into the Plan.

Tag Along Creek Drainage Analysis: Project Engineer responsible for performing an unsteady flow (EPA-SWMM 5) model of Tag Along Creek, a tributary to Bayou Lacombe, for the purpose of determining causes of residential and street flooding along Cloverland Drive and developing multiple alternatives to mitigate the flooding. Alternatives included dredging the existing 2.6-acre Sunrise Lake upstream of the Cloverland Acres Subdivision, constructing regional detention ponds north of N. Pontchartrain Drive, and constructing a bypass canal to divert flood flows to the north of the residential area. The diversion canal was determined to be the most viable option since it was the least expensive and offered 1.5-ft of reduction in the 10-year water levels in the existing creek channel and removed eleven homes from flooding in that event. Construction plans were developed in 2015 and the final model was updated according to the plans.

Cypress Creek and Black Creek Drainage Analyses, Jackson County, Biloxi, Mississippi: Project Hydraulics Engineer responsible for performing drainage analyses of Cypress Creek and Black Creek to determine cause(s) of flooding to homes and streets and provide solutions to alleviate flooding to the maximum extent practicable using the most cost-effective approach. An unsteady flow (EPA-SWMM 5) model of the creeks were developed to analyze existing conditions and multiple flood reduction alternatives. Detailed reports and cost estimates were prepared and presented to County Commissioners.

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Colby Curtis, PE <i>Hydrology & Hydraulics</i>
Project Assignment:
<i>Hydrology and Hydraulics Engineer</i>
Name of Firm with which associated:
 NEEL-SCHAFFER <i>Solutions you can build upon</i>
Years' experience with this Firm:
1 year (4 total)
Education: Degree(s)/Year/Specialization:
BS / 2020 / Civil Engineering
Active registration: Year first registered/discipline:
2024 / Professional Engineer - Civil, LA 49117
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Curtis joined Neel-Schaffer's New Orleans office in July 2023 and serves as an Engineer Intern in the Water Resources Group.</p> <p>Prior to joining Neel-Schaffer, he worked for three years at the United States Army Corps of Engineers in the Hydraulics Branch for both the Vicksburg and New Orleans District offices.</p> <p>RELATED EXPERIENCE</p> <p>St. Tammany Parish Grande Maison Subdivision Drainage: Addressing subdivision flooding issue in Mandeville, LA. Contributed writing Existing Data Memo, Modeling Report, prepared client presentation, reviewed HEC-RAS and PCSWMM model, and created plan sheets for proposed alternatives.</p> <p>East Baton Rouge Parish Port Hudson-Pride Road Bank Scour: Near the crossing of the Comite River, the Port Hudson-Pride Road was experiencing erosion, weakening bank stabilization along the north side of the road. To mitigate this, developed a HEC-RAS 2D model to analyze velocities in the bend in the existing condition as well as testing multiple river training structures in the model to provide the client with the most stable and cost-effective option. Calculated rip rap Gradations and design parameters for a potential bendway weir.</p> <p>New Orleans Department of Public Works DeSaix Bridge Replacement: Design of a replacement bridge in Bayou St. John, City of New Orleans. Obtained needed permitting to begin construction phase of project. Reviewed submittals and RFIs, checked monthly quantities usage, updated meeting notes, created invoice letters for contractors and subconsultants.</p> <p>St. Tammany Parish Pelican Park Water Well and Tank: The park experienced a pump failure at an existing well during the Aug 2023 drought. Built an InfoWater Pro Water System model to evaluate their current system as well as the benefits</p>

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of adding another well. The model also evaluated installing fire hydrants and increasing the system's pipe size.

Bossier City, LA Jimmie Davis Bridge: Internal technical review of the Drainage Calculations for the proposed ditches, culverts, inlets, and storm drains.

Murphy, TX Maxwell Creek No Rise Study: The city is adding two pedestrian bridges on either side of East FM 44 road at the crossing of Maxwell Creek as well as low crossing a half mile downstream. A hydraulic analysis was performed to document any increase in water surface elevation and mitigate this increase in the stream due to these added obstructions to meet the FEMA required No Rise condition.

Haltom City, TX Huddleston Street No Rise Study: The city is repaving Huddleston Street as well as adding curb and gutter, inlets and storm drains, and sidewalks on either side. The street crosses Stream WB4, which flows through a culvert. A hydrologic and hydraulic analysis was performed to document the changes in runoff and mitigate any increase in water surface elevation in the stream to meet the FEMA required No Rise condition.

New Orleans Sewerage and Water Board Saltwater Intrusion: The saltwater wedge moving up the Mississippi River posed a threat to the City of New Orleans' drinking water as it receives its supply from two intakes on both banks. Helped with preliminary design plans, permitting for the Algiers Intake, and with the initial pipe layout options for the Carrollton Intake in a tight timeframe to meet the Sewerage and Water Board's urgent needs.

City of New Orleans Green Infrastructure Toolkit: Performed an audit and made revisions to the City's standard details, specifications, toolkit calculator, and general guidance document. The details and specifications of focus for NSI's effort were porous concrete pavement, edge restraints, cleanouts, and pavers for sidewalks, alley ways, and parking lanes.

McComb, MS, Donna Heights Drainage: Addressing subdivision flooding issue in McComb, MS. Calculated hydrologic runoff and hydraulic routing. Built HEC-RAS model to reflect existing conditions and to propose alternative solutions to problem.

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Greg Taylor, RPG Senior Environmental Geologist

Project Assignment:

Environmental & Permitting

Name of Firm with which associated:



Years' experience with this Firm:

16 years (23 total)

Education: Degree(s)/Year/Specialization:

BS / 1986 / Geology

Active registration: Year first registered/discipline:

1998 / Professional Geologist #861

Other experience and qualifications relevant to the proposed Project:

Greg joined Neel-Schaffer in 2007 after transferring from Neel-Schaffer sister firm SoilTech Consultants. He has more than 30 years of experience and has conducted environmental assessments and remediations throughout Mississippi, Louisiana, Tennessee, Alabama, Arkansas, Florida, and Iowa.

Accomplishing these tasks required interfacing with regulatory agencies, preparing work plans/cost estimates, supervising all phases of field work, interpreting laboratory analytical data, preparing/reviewing project reports and making recommendations for future site activities, as needed.

Greg has been a key project manager in conducting environmental assessments and remediations at MDOT right-of-way acquisition sites and MDEQ, Federal LUST and state trust funds.

RELATED EXPERIENCE

US 90 Pearl River Bridges Environmental Assessment (NO. H.000284 & NO. H.000286), St. Tammany Parish, LA and Hancock County, MS: Work includes the preparation of an Environmental Assessment, as well as line and grade engineering for fixed and movable span bridge alternatives for the West Pearl and East Pearl Rivers and fixed span concepts for the three middle rivers. Alternatives include placement of new bridges on the existing alignments utilizing temporary bypass structures, as well as alternatives supporting upstream and downstream bridge concepts. For the East Pearl River both concrete and steel span structures were considered. Work also includes navigation studies and supporting environmental studies.

Soil and Groundwater Assessment, Gas Saver, Hattiesburg, MS, MGPTF Facility ID No. 7792: The Gas Saver is an inactive facility and the USTs were removed in the 1990s. In May 2019, soil borings drilled on public right-of-way adjacent to the Gas Saver encountered gasoline odors in soil. Mr. Taylor served as the project manager on behalf of the registered tank owner to conduct a subsurface investigation under the Mississippi Groundwater Protection Trust Fund. Delineation of

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petroleum hydrocarbons should be complete in May 2020 along with recommendations for future site activities. Mr. Taylor's duties as Project Manager included preparing work plans and cost estimates, supervising field crews (soil borings and monitor wells), preparing assessment reports, and preparing project invoices.

Soil and Groundwater Assessment and Remediation, Quick Stop, Vicksburg, MS, MGPTF Facility ID No. 10261: The Quick Stop is an active UST facility that had historical high vapor readings in tank bed leak detection wells. A subsequent Preliminary Subsurface Investigation (May 2018) and a Phase II Contamination Investigation (February 2019) delineated the extent of petroleum hydrocarbon impacts and identified three monitor wells containing free phase gasoline. Remedial measures were implemented as periodic vacuum recovery of free phase gasoline, groundwater, and vapor from the wells containing free product. As of April 2020, only one well contained free product and at a thickness of a sheen. We anticipate the remedial activities will be complete in the Fall of 2020 with confirmatory sampling events conducted the first half of 2021. Mr. Taylor's duties as Project Manager included preparing work plans and cost estimates, supervising field crews (soil borings and monitor wells), preparing assessment reports, and preparing project invoices.

Soil and Groundwater Assessments, Active and Former Service Stations, Highway 11, Picayune, MS: The Pit Stop, Rick's Swimming Pool Service, Ladner Property, US Highway 11, Picayune, MS: Mr. Taylor served as the project manager for soil and groundwater assessments at two former service stations and one active service station along US Highway 11 in Picayune. The work was performed for MDOT under a Master Contract for Environmental Services in connection with MDOT plans to acquire additional right-of-way for improvements to US Highway 11. Mr. Taylor duties as Project Manager included preparing work plans and cost estimates, establishing work schedules, supervising field crews and sampling activities, decommissioning monitor wells in accordance with regulatory requirements, conducting meetings and presentations for MDOT and regulatory personnel and preparing assessment reports and recommendations. Project outcomes included two sites with no contamination and one site having contamination with further assessment and potential remediation conducted under Mississippi's Underground Storage Tank Trust Fund.

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Barry Brupbacher <i>Senior Project Manager</i>
Project Assignment:
Environmental & Permitting
Name of Firm with which associated:

Years' experience with this Firm:
17 years (50 total)
Education: Degree(s)/Year/Specialization:
BA / 1972 / Political Science MS / 1990 / Urban Studies from the College of Urban and Public Affairs
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>Barry has over 45 years of diversified planning experience performing in both public and private sector consulting. His public sector work includes servicing as Executive Director of South-Central Planning and Development Commission and as Planning Director for the City of Slidell, LA. His broad range of experience includes project development and the preparation of Stage 0 and Stage 1 Environmental Assessments (NEPA documents) for flood protection, roadway, freight rail and transit projects, as well as passenger rail planning, transportation planning, roadway alignment studies, zoning, and land use planning.</p> <p>Barry completed NHI course No. 142005, <i>NEPA and Transportation Decision Making</i> and NTI Course, <i>Managing the Environmental Process</i>. As part of his work on NEPA Environmental Assessments and Environmental Impact Statement, he is responsible for related public involvement.</p> <p>RELATED EXPERIENCE</p> <p>Mandeville Lakefront Wetlands Restoration Project, Mandeville, LA: Planning manager through permitting. Situated between two "hard" shorelines, a mature cypress forest is rapidly eroding. The Mandeville Lakefront Wetlands Restoration Project will prevent further degradation of the existing wetlands and restore a functioning wetlands ecosystem within the area. Storm water from the Galvez and Massena outfalls will be directed through created wetlands, improving water quality within Lake Pontchartrain.</p> <p>St. Tammany Parish Sustainable Growth Pilot Study: Hydrology modeling of a 2,900-acre area bounded by I-12 on the north, LA 59 on the east, Sharp Road on the south and Causeway / US 190 on the west. The work also includes code review and the development of code revisions focused on wetlands preservation. It is anticipated that one alternative hydrology model will incorporate the wetlands preservation code revision. Project Planner.</p>

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US 90 Pearl River Bridges Environmental Assessment (H.000284 & NO. H.000286), St. Tammany Parish, LA and Hancock County, MS: Work includes the preparation of an Environmental Assessment, as well as line and grade engineering for fixed and movable span bridge alternatives for the West Pearl and East Pearl Rivers and fixed span concepts for the three middle rivers. Alternatives include placement of new bridges on the existing alignments utilizing temporary bypass structures, as well as alternatives supporting upstream and downstream bridge concepts. For the East Pearl River both concrete and steel span structures were considered. Work also includes public involvement, navigation studies and supporting environmental studies. Project Manager.

St. Tammany Parish Resiliency Program (Focus Area Master Plans), (Contract No. 13-03), St. Tammany Parish, LA: Deliverables include short, medium, and 20-year demographic forecast, projections of developable area within RPC traffic analysis zones considering potential wetlands, floodplains and other environmental constraints, and recommendations for transportation utility and drainage infrastructure. Project Manager

St. Tammany Parish Coastal Protection Master Plan, St. Tammany Parish, LA: Neel-Schaffer tasks include: updating the GEC 2012 Northshore Hurricane and Flood Protection Study with newly completed and current proposed projects, gather information on multiple projects by different agencies and jurisdictions. Perform a gap analysis to identify new projects, and a benefit/cost analysis of proposed projects will be completed to determine project priority and viability. NSI is currently performing a Conceptual project Alternatives and Feasibility Analysis as a part of Task III.

South Central Area Drainage Master Plan, St. Tammany Parish, Louisiana, LA: Project includes base hydrology model for Bayou Lacombe and Bayou Cain drainage basins north of I-12 (60 sq. mi. area); conceptual engineering for detention ponds to support near term (5-10 year) development scenario. Project also provides analysis of potential environment constraints using GIS based habitat models for wetlands and species of concern. Project Manager

Mandeville Bypass, St. Tammany Parish, LA: The Mandeville Bypass will provide a new 3-mile median section roadway with bike path connecting LA 1088 near its interchange with I-12 and US 190 near Fontainebleau Park. Mr. Brupbacher led the environmental planning for the project which includes analysis of potential wetlands and potential impacts to a Threatened and Endangered species, the Red Cockaded Woodpecker as well as the public involvement, developing traffic forecasts, providing traffic analysis and providing design services for concept routes.

Southcity Parkway Extension: Phase 1 - Robley Drive to Kaliste Saloom Road, Lafayette Parish, LA: Public Involvement and NEPA studies supporting Environmental Assessment developed in conformance with USCG guidance, engineering line and grade and technical environmental studies supporting the design and construction of Southcity Parkway extension from current terminus west of the Vermillion River to Kaliste Saloom Road including a crossing of the Vermillion River. Project Manager.

Route LA 182 (North University Avenue) Widening Environmental Assessment: I-10 to West Pont des Mouton Road (LCG No. 500-10-034, State Project No. H.009335), Lafayette Parish, LA: Project supports the widening of LA 182 to four lane capacity. The Study / EA included Public Involvement, traffic studies, environmental screening and alternative concepts for widening the 2-mile route. Project Manager.

South Central Area Drainage Master Plan, St. Tammany Parish, Louisiana, LA: Project includes base hydrology model for Bayou Lacombe and Bayou Cain drainage basins north of I-12 (60 sq. mi. area); conceptual engineering for detention ponds to support near term (5-10 year) development scenario. Project also provides analysis of potential environment constraints using GIS based habitat models for wetlands and species of concern. Project Manager.

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Emily Hudson <i>Administrative Services Manager</i>
Project Assignment:
Deputy Grant Manager
Name of Firm with which associated:
 NEEL-SCHAFFER <i>Solutions you can build upon</i>
Years' experience with this Firm:
15 years (18 total)
Education: Degree(s)/Year/Specialization:
BA / 2005 / Photography
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>Emily joined Neel-Schaffer in 2009. Her project management responsibilities include preparation of invoices and schedules, document control and other duties. Her position also includes administrative responsibilities, GIS applications, and IT technical support. While at NSI, she has been involved with the public outreach stage in developing Metropolitan Transportation Plans and has created land-use and transportation maps based on information gathered in the public meetings. Her diverse skills make her an asset to our project team.</p> <p>RELEVANT EXPERIENCE</p> <p>Port of Gulfport Expansion, Gulfport, MS: Section 3 Coordinator. Responsible for preparing and submitting Neel-Schaffer's monthly status reports, submitting subconsultants' monthly status reports, ensuring Neel-Schaffer's compliance with Section 3, ensuring subconsultant compliance with Section 3, including conducting subconsultant monitoring, securing Section 3 documentation from new subs (project plan, business certification, and project roster) and explaining Section 3 to ensure future compliance, posting Section 3 covered job openings on WINGS, and advertising as appropriate when subconsultant needs arise.</p> <p>Lower Ninth Ward Streetscape, New Orleans, LA: Responsibilities include document control, Primavera P6 scheduling, maintaining deliverables on a SharePoint site, Section 3 compliance, subconsultant management and monitoring, specification management, and project administration for streetscape design.</p> <p>The Groves at Pelican Park, St. Tammany Parish, LA: Responsibilities include document control, Primavera P6 scheduling, maintaining deliverables on a SharePoint site, Section 3 compliance, subconsultant management and monitoring, specification management, and project administration for conversion of existing ball field to a multi-use facility.</p> <p>Recovery Roads Program, Lower Ninth Ward Northeast Group A & B, New Orleans, LA: Responsibilities include document control, Primavera P6 scheduling, maintaining deliverables on a SharePoint site, Section 3 compliance, subconsultant management and monitoring, specification management, and project administration for design of streets,</p>

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sidewalks, ADA ramps, water / sanitary sewer / drainage systems for the Sewerage and Water Board of New Orleans.

Safe Haven Blue Green Campus Master Plan, St. Tammany Parish, LA: Responsibilities include document control, scheduling, maintaining deliverables on a SharePoint site, Section 3 compliance, subconsultant management and monitoring, specification management, and project administration for assessment of the existing site.

DeSaix Blvd Bridge Replacement, New Orleans, LA: Responsibilities include document control, Primavera P6 scheduling, maintaining deliverables on a SharePoint site, Section 3 compliance, subconsultant management and monitoring, specification management, and project administration for the bridge replacement project.

The Port of Gulfport Restoration Program, Gulfport, MS: Work is issued in task orders in support of the restoration of public infrastructure and publicly owned facilities damaged or destroyed by Hurricane Katrina. Responsibilities include document control, Primavera P6 scheduling, maintaining deliverables on a SharePoint site, Section 3 compliance, subconsultant management and monitoring, specification management, and project administration.

CPRA Calcasieu-Sabine Large-Scale Marsh & Hydrologic Restoration Project, Cameron Parish, LA: Handles billing for design Integration Services that include a combination of initial project management activities, initial data gap analysis preliminary data collection, design integration planning, including project E&D work breakdown structure and cost estimates, optimization planning and initial optimization tasks, and other project planning tasks including supporting CPRA's RESTORE grant amendment requests.



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

PROJECT NO. 1

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p style="text-align: center;">St. Tammany Parish Coastal Master Plan (PO-167) <i>St. Tammany Parish, LA</i></p> <p style="text-align: center;">St. Tammany Parish Laura B. Gatlin, Project Manager lcbeach@stpgov.org 985-898-2552</p>	<p>In 2018, St. Tammany Parish took an important step toward resiliency developing their first comprehensive flood protection plan. Planning was a collaborative effort between St. Tammany Parish Government and the St. Tammany Levee Board, made possible with \$2 million in funding from the Coastal Protection and Restoration Authority through an intergovernmental agreement. To assist with this effort, NSI was selected as the prime consultant to develop the master plan. Contracted Tasks include:</p> <p>Task I Collection and Organization of Existing Flood Control Assets and Project Data: Work includes compilation of a GIS data base documenting all major flood control assets, (completed, current, and future projects). The GIS database that was developed also provides documentation of streams, hydraulic units repetitive loss data and other features.</p> <p>Task II Flood Control Assets and Gap Analysis: Work includes performing a gap analysis to identify areas are vulnerable to tidal surge, flooding and wetland loss/reduction; review current models to determine data gaps; Documentation of historical losses from structure flooding, infrastructure damage, and wetland loss in the gap areas. Review and evaluation of current coastal storm surge and wave models (ADCIRC, and WHAFIS) to determine data gaps, including but not limited to geographical area, data, cross-sections, and model runs.</p> <p>Task III Conceptual & Preliminary Engineering on Project Alternatives (projected to be contracted for this phase): This task is part of Phase III efforts and included a desktop assessment of the proposed flood protection segments to identify feasibility level issues within the project vicinity. The Project Alternative Development considered the number of structures protected, the costs of land acquisition and construction, and negative environmental impacts. Additionally, the Project Team considered multiple levels of protection for each area reviewed. These levels include the 25-year, 50-year, and 100-year levels of protection. The levels are associated with the chance of exceedance for the 4 percent, 2 percent, and 1 percent respectively, for coastal storm surge in any given year. Projects that were engineered included levees, pump stations, floodgates, shoreline protection features, marsh and beach restoration and coastal breakwaters.</p>	
Completion Date <i>(Actual or estimated):</i>	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2023	\$2,000,000	\$2,000,000

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PROJECT NO. 2		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p style="text-align: center;">Slidell Ring Levee: Slidell East Segments (PO-184) Slidell, LA</p> <p>Louisiana Coastal Protection and Restoration Authority Jas Singh Jas.singh@la.gov 225.342.4102</p>	<p>The Slidell Ring Levee: East Segments Project, in St. Tammany Parish, Louisiana, includes levee segments that provide flood protection and storm surge risk reduction around for the eastern side of the City of Slidell.</p> <p>The project is part of the CPRA's 2017 <i>Louisiana's Comprehensive Master Plan for a Sustainable Coast</i> and evaluates alternative levee alignments to close gaps in the existing Slidell Ring Levee System and complete this storm surge risk reduction system. The Slidell Hurricane Protection system protects thousands of houses and businesses from a 100-year storm event. Many of these structures have been previously flooded and are considered repetitive losses by FEMA.</p> <p>Conceptual alternative alignments were developed with consideration of cost-effectiveness while achieving project design criteria and goals while utilizing sound engineering principles. The analysis included analytical, empirical and/or limited modeling using the existing data and understanding of the project alternatives developed. Eight conceptual level alternatives were evaluated with respect to landownership, utility conflicts, and right of way requirements for the possible alignments to minimize potential impacts while still meeting the project goals and objectives. A Basis of Design Report was developed to establish comprehensive design criteria for the levees, gate structures, and pumping station complexes as part of this project. A review of compiled data sets and guidance documents was also prepared.</p> <p>As significant component of this study, biologists conducted literature reviews to gain insight on existing conditions and the species known to occur in the Study Area. Data was obtained from various federal and state agency websites such as the US Fish and Wildlife Services, National Oceanic and Atmospheric Administration, National Marine Fisheries Service, US Dept. of Agriculture Natural Resources Conservation Service, LA Dept. of Wildlife and Fisheries, and the Gulf of Mexico Fisheries Management Council.</p> <p>The environmental assessment also included habitat classifications; fish and wildlife resources; threatened and endangered species; and other natural and archeological sites in the area. Wetland areas along with various waters of the US were identified for Section 404 permitting requirements along with potential mitigation requirements associated with wetland alterations. Federally protected wildlife species were identified and recommendations for avoidance or minimization of damage were developed to provide justification for alternative alignments. Multiple site visits were taken to corroborate literature review.</p>	
<p style="text-align: center;">Completion Date <i>(Actual or estimated):</i></p>	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2022	\$287,000	\$287,000

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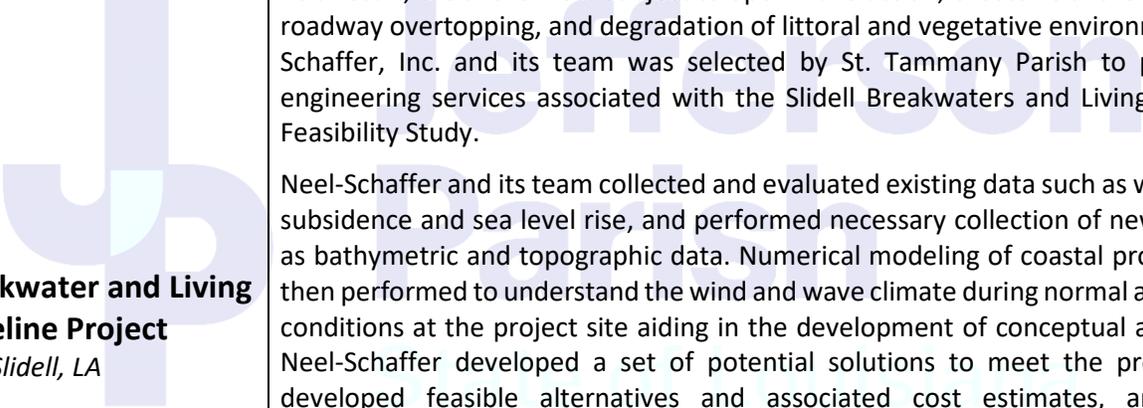
PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Mandeville Lakefront Wetlands Restoration <i>Mandeville, LA</i></p> <p>City of Mandeville Public Works Department Keith LaGrange, Director klagrange@cityofmandeville.com 985-624-3169</p>	<p>Mandeville Lakefront Wetlands project is a whole ecosystem restoration project where multiple habitat types are protected, restored, and created. The project site is situated between two "hard" shorelines, south of a mature cypress forest that is rapidly eroding. This project prevents further degradation of the existing wetlands and restores a functioning ecosystem.</p> <p>A coastal protection berm closure mitigates erosion from wave action from Lake Pontchartrain while also providing functionality by connecting the two "hard" shorelines with a multi-use recreational path. The berm shoreline protection feature provides a reduction of water surface elevations for the 50-, 100-, and 500-yr event through reduction in wave heights and addresses future erosion by significantly reducing the open water fetch from Lake Pontchartrain at the project site.</p> <p>In addition, the project also provides flood protection through the dredging of a diversion channel which will receive the urban runoff from the Galvez and Massena Channel. This diversion channel will direct the waters through the existing intertidal marsh and newly created marsh area. This rerouting of stormwaters through the wetlands allows suspended sediment to settle within the lagoon and marsh areas and will mitigate the effects of saltwater intrusion on the existing wetlands. Mott MacDonald was a subconsultant and provided coastal modeling and support services for coastal engineering.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2022	\$4,000,000	\$350,000

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Calcasieu-Sabine Large-Scale Marsh and Hydrologic Restoration Project <i>Cameron Parish, LA</i></p> <p>Louisiana Coastal and Protection Restoration Authority Jessica Diez Jessica.diez@la.gov 225.342.1477</p>	<p>The State of Louisiana's CPRA selected Neel-Schaffer to provide program management services and develop a project design and design integration services to support the Cameron-Creole Watershed (CCW). The CCW is a marsh system located in southwest Louisiana and is experiencing extensive loss of marsh habitat over the past century. Flood stress from elevated water levels over the marsh is the dominant factor in the marsh loss, although historically saltwater intrusion has played a significant role in marsh degradation.</p> <p>The purpose of the project is to develop an understanding of the hydraulics of the system; evaluate options to improve the ability to manage the water level in the CCW; and reduce marsh and land loss within the CCW. The project features proposed to reduce flood stress include a lake-rim drainage structures that enable the marshes to drain into Calcasieu Lake more frequently and a large-scale marsh creation and nourishment. These features will benefit the entire 65,000-acre Cameron Creole</p>	

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	Watershed, which is the subregion of the Calcasieu-Sabine Basin where the original project benefits were predicted to be most concentrated.	
Completion Date <i>(Actual or estimated):</i>	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Estimated 2025	\$261,000,000	\$1,100,000

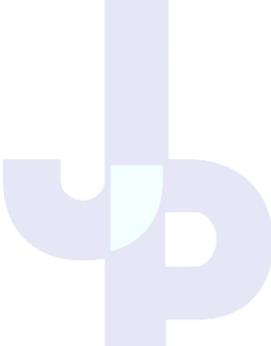
PROJECT NO. 5

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:
<div style="text-align: center;">  <p>Slidell Breakwater and Living Shoreline Project <i>Slidell, LA</i></p> <p>St. Tammany Parish Government Randy Pausina 985-898-2529 rbpausina@stpgov.org</p> </div>	<p>The Slidell Breakwaters and Living Shorelines Feasibility Study, for St. Tammany Parish, is a study to determine the feasibility of mitigating the shoreline impacts from the wave environment found along the Lake Pontchartrain shoreline south of the city of Slidell, Louisiana. The project shoreline, spanning roughly six miles, is currently experiencing adverse impacts due to direct, unattenuated, high-energy wave actions. As a result, the shoreline is subject to open wave action, excessive shoreline erosion, roadway overtopping, and degradation of littoral and vegetative environments. Neel Schaffer, Inc. and its team was selected by St. Tammany Parish to provide the engineering services associated with the Slidell Breakwaters and Living Shorelines Feasibility Study.</p> <p>Neel-Schaffer and its team collected and evaluated existing data such as water levels, subsidence and sea level rise, and performed necessary collection of new data such as bathymetric and topographic data. Numerical modeling of coastal processes was then performed to understand the wind and wave climate during normal and extreme conditions at the project site aiding in the development of conceptual alternatives. Neel-Schaffer developed a set of potential solutions to meet the project goals, developed feasible alternatives and associated cost estimates, and provide recommendations on a preferred solution for overall sustainability of the project area.</p> <p>Through the reduction of storm-induced, high-energy waves reaching the project site, the segmented, rubble-mounded breakwaters would address the real and ongoing negative consequences to the immediate shoreline</p> <p>and submerged-aquatic vegetative (SAV) habitat found within the study area. Neel-Schaffer recognized, through a phased construction approach, that the shoreline protection benefits would gain with each phase; however, the environmental benefits would develop immediately following construction of the living shoreline phases. The two living shoreline phases would install stone riprap along the footprint of the final structures but at a submerged elevation in Phase 1 and one foot above normal water level for Phase 2. These two construction phases provide a calmer water environment to restore the natural sediment transport through the area and enhance the conditions needed for subaquatic vegetation to thrive. These SAV benefits are critical foraging and breeding habitat for multiple endangered species found within the project area.</p>

TEC Professional Services Questionnaire

	Neel-Schaffer also recognized the engineering benefits of the phased construction approach. By placing the stone material within the footprint of the final structure, the structural settlement and soil strengths are improved over time allowing the successive phases to have minimal elevation changes. This process also provides the opportunity to maximize construction funding over multiple funding cycles and sources. The overall project recommendations provide coastal resilience to the greater Slidell community by addressing the ongoing erosion along the shoreline while also providing additional critically needed fisheries habitat.	
Completion Date <i>(Actual or estimated):</i>	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2025 (Estimated)	\$9,000,000	\$350,000 (Fee)

PROJECT NO. 6

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:
 <p style="text-align: center;">Coastal Processes Study for Lillian Park <i>Baldwin County, AL</i></p> <p>Baldwin County Highway Department Seth Peterson, Project Manager 251-970-4055 speterson@baldwincountyal.gov</p>	<p>Neel-Schaffer studied the coastal process occurring at Lillian Park along Perdido Bay in Alabama. Lillian Park Beach and boat launch were constructed to facilitate greater public access to and enjoyment of the natural resources of the Perdido River watershed and the Gulf of Mexico. Erosion of adjacent bay shoreline due to wave energy, loss and reduction of the nearshore habitat and degradation of the littoral habitat are occurring at this location. Additionally, sedimentation is occurring in the boat ramp, hindering water access.</p> <p>The Coastal Processes Study for the Lillian Park Beach Habitat and Shoreline Protection Project evaluated the existing conditions and associated coastal processes found at Lillian Park. The focus of the study and alternatives was to provide a safe and viable park facility, minimize the overall operations and maintenance of the park facility, and provide suitable public access for boats, fisherman, and enthusiasts to the natural resource. The project work tasks included the collection and evaluation of existing data, analysis of coastal processes, and development of conceptual alternatives to meet the project goals.</p> <p>The existing conditions related to wave action, sediment deposition, erosion, and degradation of littoral environments were studied, and the Neel-Schaffer Project Team developed and evaluated Conceptual alternative solutions. The study concluded with conceptual level alternative solutions as well as estimated capital costs comparisons for the various alternatives. The Coastal Process Study analysis provided a basis to develop alternatives that will provide benefits to the functions and maintenance operations at the existing boat launch and improvements to the natural habitat found at Lillian Park.</p> <p>NSI was recently selected by Baldwin County to complete the detailed engineering and design phase of the recommended project alternative.</p>
	Estimated Cost:

TEC Professional Services Questionnaire

Completion Date <i>(Actual or estimated):</i>	Entire Project:	Work for which Firm was Responsible:
2024	\$1,200,000	\$313,000

PROJECT NO. 7

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>West Hancock County Nearshore Habitat Restoration Project <i>Hancock County, MS</i></p> <p style="text-align: center;">MDEQ Tina Nations, PhD 601-961-5051 TNations@mdeq.ms.gov</p>	<p>Neel-Schaffer is currently conducting design of the West Hancock County Nearshore Habitat Restoration Project for the Mississippi Department of Environmental Quality (MDEQ). This project, located offshore of Buccaneer State Park near Waveland, MS, is funded by the National Fish and Wildlife Foundation (NFWF) Gulf Environmental Benefit Fund (GEBF) and was approved in 2013 as one of several projects intended to compensate for natural resources damages that occurred as a result of the 2010 Deepwater Horizon oil spill. The project aims to re-establish coastal habitats to increase productivity of fish and benthic organisms including red and black drum, spotted seatrout, and oysters. This is being accomplished by designing submerged artificial reefs using rock substrates and manufactured reef products to create sub-tidal habitat enhancements for benthic organisms and fish. The overall outcome of this project is to develop plans and acquire permits for the eventual implementation of artificial reefs which would re-establish these important coastal habitats. The NSI team has conducted bathymetric survey, performed a geotechnical investigation, analyzed habitat requirements, and selected cultch materials and manufactured reef products. A preliminary design has been submitted and is currently being refined. Design is scheduled for completion in Fall of 2024 with construction in early 2025.</p>	
Completion Date <i>(Actual or estimated):</i>	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2025 (Estimated)	\$20,000,000	\$900,000 (Fee)

PROJECT NO. 8

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Jackson County Coastal Dredging Project <i>Jackson County, MS</i></p> <p>Jackson County Board of Supervisors Matthew Hosey, Project Manager 228-769-3088 matthew_hosey@co.jackson.ms.us</p>	<p>In 2017 Hurricane Nate deposited debris throughout Jackson County Navigable Waterways. Storm surge and runoff caused by Hurricane Nate deposited sediments in five channels including Graveline Bayou Waterway, Vaughndale Bayou Waterway, Sandalwood Bayou Waterway, Cedar Point Bayou Waterway, and Bayou Chicot Waterway.</p> <p>In response to the disaster damages as a result of Hurricane Nate (FEMA EM-3393), NSI was selected by the Jackson County Board of Supervisors to provide professional civil engineering and monitoring services for the dredging, debris</p>	

TEC Professional Services Questionnaire

	and sediment removal of approximately 12,000 linear feet of navigable channels. The project also includes design services necessary to restore navigation aids to acceptable operations.	
Completion Date <i>(Actual or estimated):</i>	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2021	\$1,500,000	\$168,500

PROJECT NO. 9

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p style="text-align: center;">Mid-Barataria Sediment Diversion <i>Plaquemines Parish, LA</i></p> <p style="text-align: center;">Coastal Protection and Restoration Authority Glenn Ledet (225) 400-4012 Glenn.Ledet@la.gov</p>	<p>The Mid-Barataria Sediment Diversion is a large-scale sediment diversion project that aims to deliver up to 75,000 cfs of sediment-laden water from the Mississippi River into the Barataria Basin. The project is one of the largest civil works and environmental restoration projects ever designed and constructed in the U.S. When fully implemented, it is expected to create up to 30,000 acres of new wetlands.</p> <p>The project consists of multiple components including a headworks gate structure at the Mississippi River Levee, new highway and railroad bridges, a conveyance channel, guide levees, and inverted siphon to maintain existing drainage patterns in addition to other ancillary features.</p> <p>NSI is serving as Deputy Project Manager for construction administration (CA) and quality assurance (QA) activities. This role is a critical component to ensure the project's successful execution and adherence to the highest standards of safety and quality. A significant component of NSI's involvement is overseeing the construction of a new railroad bridge; however, we are also involved in oversight of multiple other project components. CA activities include project site safety, quality management, project controls, invoicing and payment, and administration of contract claims and change orders. QA activities include planning, inspections, and testing.</p> <p>Through meticulous construction administration and rigorous quality assurance protocols, we are committed to contributing to the success of the Mid-Barataria Sediment Diversion Project. Our efforts will help restore vital coastal ecosystems, protect local communities, and support sustainable economic growth in the region.</p>	
Completion Date <i>(Actual or estimated):</i>	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2029 (est.)	\$1,800,000,000	\$1,800,000,000

PROJECT NO. 10

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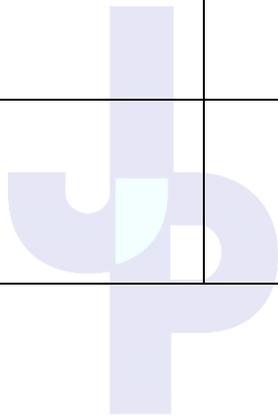
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p style="text-align: center;">University Lakes Flood Risk Reduction Design Services <i>Baton Rouge, LA</i></p> <p>Brian Lennie, Stantec Project Manager 262 643-9061 Brian.Lennie@stantec.com</p> 	<p>The University Lakes connect Louisiana State University with the surrounding neighborhoods, act as a gateway to the State's Flagship University, and have served as an iconic feature for the community for nearly a century. They act as a symbol of the city and state for both those who are local, as well as the tens of thousands of I-10 drivers crossing the lakes each day. Located in the heart of Baton Rouge, the University Lakes are surrounded by local roads, private residences, and university facilities. This urban environment provides construction challenges such as narrow access locations, limited storage locations, and significant pedestrian and vehicle interactions with construction equipment.</p> <p>The University Lakes Restoration project goal is to provide flood risk reduction for the surrounding community and improve water quality within the University Lakes System. Neel-Schaffer is a subconsultant to Stantec with the role of providing hydrology analysis, dredging design, and the lake shoreline restoration.</p> <p>Additionally, the project will utilize an alternative delivery method, Construction Management at Risk to expedite the project's schedule. With years of experience in alternative delivery methods, Neel-Schaffer will bridge between the Owner and the contractor for the Construction Management and Implementation Phase of the project.</p> <p>NSI is also tasked with the design for reuse of the dredged material with consideration for the natural habitats for fisheries and migratory birds that are currently utilizing the University Lakes system. In addition to dredge design, the project will provide an opportunity to improve existing recreational facilities for pedestrians and cyclists around the lakes.</p> <p>With attention to both the ecosystem and human scale, the Lakes can continue to be a point of pride for the University—and when complete will provide a marked improvement to the quality of life for all of Baton Rouge.</p>	
<p style="text-align: center;">Completion Date <i>(Actual or estimated):</i></p>	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2023	\$30,000,000	\$330,000

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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.		
2.		
3.		
4.		

N/A



Jefferson
Parish
State of Louisiana

TEC Professional Services Questionnaire

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



37 Offices | 9 States



Neel-Schaffer is a multi-disciplined engineering and planning firm that was founded in 1983 and today is one of the largest private, employee-owned firms in the South, with nearly 500 employees working out of 37 offices across nine states. A multi-disciplined engineering and planning firm, it encompasses a group of specialized companies with offices in Louisiana, Mississippi, Alabama, Florida, Georgia, Kentucky, Tennessee, and Texas. We provide engineering, emergency management, landscape architecture, environmental, surveying, geotechnical, strategic planning, and community development services to clients throughout the Southeast and Southwest.

Engineering News-Record has listed Neel-Schaffer among the Top 500 Design Firms in the United States annually since 1994, ranking 202 in 2024. Our corporate structure emphasizes local service, with a regional touch. It allows our engineers, geologists, biologists, technicians, and project managers to maintain deeply local connections with clients in the many communities we serve, while having the resources of a much larger regional firm at their disposal. This allows us to provide a full-service approach to program development, design, and construction management for your project.

COASTAL SCIENCE & ENGINEERING

Neel-Schaffer employs a highly qualified team of professionals skilled in a variety of coastal science and engineering disciplines. This multi-disciplinary approach allows for a more holistic blend of experience and services to meet every client's coastal needs.

A local presence ensures our work is informed and coordinated with the issues, governance, and opportunities unique to that region. As a result, we have been able to form effective partnerships with government agencies, non-profits, and other private companies, administering coastal initiatives to meet their needs and those of coastal communities.

We continue to seek opportunities to develop innovative partnerships, and to effectively develop forward-thinking ideas that help create and maintain a resilient Gulf Coast.

COASTAL SERVICES

Coastal Engineering, Science, and Planning:

- Modeling—Hydrodynamic, Wave, Sediment Transport & Morphology
- Coastal Master Plan Development

TEC Professional Services Questionnaire

- Permitting
- Coastal Wetland Science
- Coastal Program Management
- Construction Administration and Inspection

Coastal Engineering Design:

- Shoreline Restoration Design
- Flood Protection Design (Levees, Pump Stations, etc.)
- Diversion and Hydrologic Restoration Design
- Marsh Creation Design
- Dredged Fill Analysis and Placement

PROFESSIONAL TRAINING AND EXPERIENCE

Neel-Schaffer provides coastal and water resources engineers that are fully capable of conducting the most complex coastal engineering and design for coastal structures and hydrologic and hydraulic analyses. Our engineers utilize state-of-the-art modeling and GIS applications in all phases of water resources planning and engineering, including hydrodynamic, hydrologic, hydraulic, wave mechanics, and water quality analysis. Neel-Schaffer software competency includes Delft3D Flow, Delft3D-Wave (SWAN), HEC-RAS, HEC-2, WSPRO, HY-8, RiverCAD, HEC-6T, CulvertMaster, EPA-SWMM, MIKE URBAN, HEC-1, HEC-HMS, StormCAD, PondPack, FlowMaster, HydraFlow, LADOTD HYDRO6020, AutoCAD Storm & Sanitary Analysis, and custom GIS-based applications for hydraulics and hydrology. Typical coastal hydrodynamic and hydraulic projects include:

- Sediment Transport and Morphology Analyses
- Shoreline Stabilization, Protection and Restoration
- Coastal Restoration and Protection Master Planning
- Marsh Creation
- Coastal Hard Structure Engineering (Breakwater, Groins)
- Flood Damage Reduction Structures
- Streambank Erosion Protection
- Marine Structures
- Flood Insurance Studies (FIS)
- Hydrodynamic/Hydraulic Modeling
- Biological and Environmental Assessments of Wetlands
- Dredging

KEY PERSONNEL

Dain Gillen, PE joined Neel-Schaffer in 2023 as a Senior Project Manager with 20 years of experience in the field of Water Resources and Coastal Engineering. Prior to joining Neel-Schaffer, Mr. Gillen served as Engineer Manager for a staff of 10 engineers and technicians for the Louisiana Coastal Protection and Restoration Authority (CPRA). In this role, he was responsible for oversight of project planning, development, design, and construction of large-scale ecosystem restoration and flood risk reduction projects. He also has previous experience with many civil works and flood control projects during design and construction. Mr. Gillen has worked for state and Federal agencies and private engineering firms, giving him a diverse background and ability to communicate effectively with multiple stakeholders.

Nick Ferlito, Jr., PE, PTOE joined Neel-Schaffer in 1996. He is a Senior Vice President and serves as Louisiana Area Manager, overseeing all responsibilities for the state. An ITE-certified Professional Traffic Operations Engineer, he has more than 30 years of experience and manages a wide range of traffic and transportation projects. He has served as a project manager for many intersection/corridor signal timing studies, signal design projects, safety studies and other traffic engineering related projects for public and private projects. Mr. Ferlito is experienced with numerous traffic

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engineering software packages, including HCS, CORSIM, SYNCHRO, Tru-Traffic (TSPPDraft), and SIDRA. He also completed the Naztec TS1/TS2 Controller 2-Day training course. He has also completed the NEPA and Transportation Decision Making course (2004), the Highway Safety Manual Workshop (2011) as well as LADOTD's Traffic Engineering Process and Report (TEPR) training.

Don Lancaster, PE manages Neel-Schaffer's Mandeville office and has over 40 years of experience in civil engineering and project management. He is the Civil Design Manager for Neel-Schaffer's Louisiana offices and serves as the manager for Neel-Schaffer's current work as part of the \$570 million Port of Gulfport (MS) Restoration project. The design is completed and construction on new port facilities will be completed in September 2018. Prior to joining Neel-Schaffer in 2003, Mr. Lancaster was Design Manager for a national firm overseeing the Sewerage and Water Board of New Orleans' Sewer System Evaluation and Rehabilitation Program (SSERP) and the Sewerage and Water Board's (S&WB) Sewer System Rehabilitation for Hurricane Katrina Emergency Recovery Efforts. Soon after joining Neel-Schaffer, he managed the design and construction of over \$55 million of roadway, water, sewer and gas system repairs to Bay St. Louis (MS) infrastructure. This effort was funded by FEMA and is intended to restore the City infrastructure that was severely damaged in Hurricane Katrina.

Amanda Phillips, PE is a licensed civil engineer with over 20 years of coastal design and construction experience. She has designed and constructed numerous coastal projects throughout southern Louisiana. These projects include breakwater design, marsh creation projects, island restoration, inland waterways dredging, shoreline protection, levee construction and many other heavy civil construction project types. In addition to design work, Mrs. Phillips has spent more than 10 years working and learning the world of marine construction. This fast paced, real-world experience has provided her with successes and failures of inland waterway and heavy civil construction critical to furthering her understanding coastal engineering and construction challenges. This invaluable knowledge includes equipment usage and techniques, safety and hazard understanding, sediment resource and material management. Her background in biological engineering coupled with her years of construction experience, has provided a unique lens with which to view coastal projects. She is currently pursuing a Master's in Coastal Engineering and Sciences at the University of New Orleans.

Leah Selcer, PE has ten years of engineering experience. She has a broad range of project engineering and management experience, providing design, planning and budgeting, permits, plans and specifications, design calculations, reports and presentations for a variety of projects. Ms. Selcer has assisted in the engineering and design of several complex civil, water resources, and coastal projects for coastal ports, parish governments, the LaDOTD and the CPRA. Her experience includes hydrologic and hydraulic calculations and studies using water modeling software, USACE HEC Software (HEC-RAS and HEC-HMS), LADOTD HYDR 2009 (All programs), CulvertMaster, HydroCAD, HYDROWIN, and Civil3D Hydraulic Analysis Programs.

SIZE OF FIRM

Neel-Schaffer has over 600 professional and technical employees, including planners and engineers with specialization in roadway and bridge design. We have 47 staff members located in Louisiana offering the services of 24 registered Professional Engineers.

CAPACITY FOR TIMELY COMPLETION

Neel-Schaffer has a current monthly billing capacity in excess of \$5 million. As the following chart indicates, we can easily assimilate additional projects into our current workload.

PAST PERFORMANCE

In its performance rating of Neel-Schaffer, the US Army Corps of Engineers, Vicksburg District, concluded that we "consistently produced well organized, well-engineered, professional work." The rating also noted "their engineers and managers were a pleasure to work with. Their spirit of cooperation was a major asset to the contract. They not only met the specifics of their work orders but also were anxious to meet any reasonable desires of the Government

TEC Professional Services Questionnaire

representatives. This was especially noteworthy in maintaining milestone dates when government-furnished data was not available when specified and by beating several of their submission dates. Neel-Schaffer, Inc. is highly recommended for future work...”

In addition, NSI has been selected repeatedly by LADOTD for on-going retainer contracts over the past 12 years. We think this is an excellent indication of our performance ability on public contracts and our reputation as a consultant of choice by public agencies. We are currently working under three active retainer contracts with LADOTD. We also hold a retainer contract with the City of New Orleans Department of Public Works, The Sewerage and Water Board of New Orleans, the CPRA to provide Engineering Services for Coastal Restoration Projects, the Lafayette MPO to provide Roundabout Feasibility Studies, and Ascension Parish in support of their MOVE Ascension transportation program.

To continue improving our services, Neel-Schaffer recently surveyed our clients. We received over 100 responses to our survey involving mostly public clients and were pleased to find that the vast majority are satisfied with our commitment and performance and will more than likely retain our company again. Below is a summary:

- 92% are “likely” or “very likely” to recommend Neel-Schaffer
- 94% rated Neel-Schaffer as “easy” or “very easy” to do business with
- 95% are “satisfied” or “very satisfied” that Neel-Schaffer’s deliverables meet your needs
- 96% are “satisfied” or “very satisfied” with Neel-Schaffer’s project management capabilities
- 91% rated the overall value you receive from Neel-Schaffer as “good” or “very good”

LOCATION OF PRINCIPLE OFFICE

Our New Orleans LA office, located at 1340 Poydras Street, Suite 1950 will undertake the design for required improvements with support provided by other Neel-Schaffer offices as required.

ANALYSIS OF WORK RESULTING IN LITIGATION

Neel-Schaffer has not previously worked for Jefferson Parish; and we have never entered litigation with Jefferson Parish or other public sector clients.

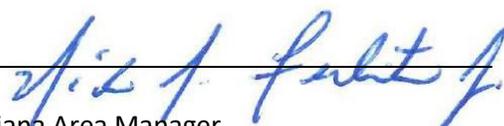
PRIOR SUCCESSFUL COMPLETION OF PROJECTS

NSI employs a highly qualified team of professionals skilled in a variety of coastal science and coastal engineering disciplines. Our multi-disciplinary approach allows for a more holistic blend of experience and services to meet every client’s coastal needs.

Our local presence ensures our work is informed and coordinated with the issues, governance, and opportunities unique to that region. As a result, we have been able to form effective partnerships with government agencies, non-profits, and other private companies, administering coastal initiatives to meet their needs and those of communities.

Neel-Schaffer routinely provides services on an *on-call* basis for our clients. We currently are providing services to CPRA for a three-year multiple task order award contract. We also hold four on-call contracts with LADOTD to provide various services. Our St. Tammany Coastal Master Plan is performed as a Task Order contract and most of our work on Corps of Engineers projects has been performed under task order contracts.

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

Signature: 
Title: Louisiana Area Manager

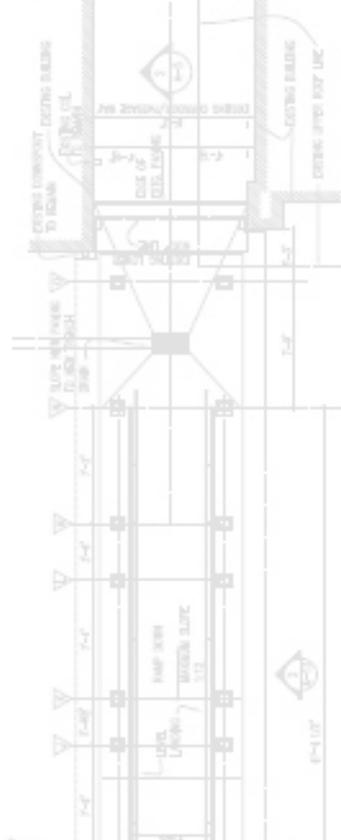
Print Name: Nick Ferlito Jr., PE, PTOE

Date: July 16, 2024



WINDOW OPENING SCHEDULE

MAIN USE	SYMBOL	DESCRIPTION	REMARKS
A	1'-0" x 3'-0"	FIXED FRAME AND OPERABLE	COORDINATE WITH HANGING AND ROOF DRAINAGE DETAILS & WALLS SECTION
B	1'-0" x 3'-0"	FIXED FRAME AND OPERABLE	COORDINATE WITH HANGING AND ROOF DRAINAGE DETAILS & WALLS SECTION
C	1'-0" x 3'-0"	FIXED FRAME AND OPERABLE	COORDINATE WITH HANGING AND ROOF DRAINAGE DETAILS & WALLS SECTION
D	1'-0" x 3'-0"	FIXED FRAME AND OPERABLE	COORDINATE WITH HANGING AND ROOF DRAINAGE DETAILS & WALLS SECTION
E	1'-0" x 3'-0"	FIXED FRAME AND OPERABLE	COORDINATE WITH HANGING AND ROOF DRAINAGE DETAILS & WALLS SECTION



DOOR OPENING SCHEDULE

DESCRIPTION	TYPE	FINISH	REMARKS
1.00 1'-0" x 3'-0" 1'-0" x 3'-0"	1'-0" x 3'-0"	1'-0" x 3'-0"	COORDINATE WITH HANGING AND ROOF DRAINAGE
1.01 1'-0" x 3'-0" 1'-0" x 3'-0"	1'-0" x 3'-0"	1'-0" x 3'-0"	COORDINATE WITH HANGING AND ROOF DRAINAGE
1.02 1'-0" x 3'-0" 1'-0" x 3'-0"	1'-0" x 3'-0"	1'-0" x 3'-0"	COORDINATE WITH HANGING AND ROOF DRAINAGE
1.03 1'-0" x 3'-0" 1'-0" x 3'-0"	1'-0" x 3'-0"	1'-0" x 3'-0"	COORDINATE WITH HANGING AND ROOF DRAINAGE
1.04 1'-0" x 3'-0" 1'-0" x 3'-0"	1'-0" x 3'-0"	1'-0" x 3'-0"	COORDINATE WITH HANGING AND ROOF DRAINAGE
1.05 1'-0" x 3'-0" 1'-0" x 3'-0"	1'-0" x 3'-0"	1'-0" x 3'-0"	COORDINATE WITH HANGING AND ROOF DRAINAGE
1.06 1'-0" x 3'-0" 1'-0" x 3'-0"	1'-0" x 3'-0"	1'-0" x 3'-0"	COORDINATE WITH HANGING AND ROOF DRAINAGE
1.07 1'-0" x 3'-0" 1'-0" x 3'-0"	1'-0" x 3'-0"	1'-0" x 3'-0"	COORDINATE WITH HANGING AND ROOF DRAINAGE
1.08 1'-0" x 3'-0" 1'-0" x 3'-0"	1'-0" x 3'-0"	1'-0" x 3'-0"	COORDINATE WITH HANGING AND ROOF DRAINAGE
1.09 1'-0" x 3'-0" 1'-0" x 3'-0"	1'-0" x 3'-0"	1'-0" x 3'-0"	COORDINATE WITH HANGING AND ROOF DRAINAGE
1.10 1'-0" x 3'-0" 1'-0" x 3'-0"	1'-0" x 3'-0"	1'-0" x 3'-0"	COORDINATE WITH HANGING AND ROOF DRAINAGE

FINISH SCHEDULE

FLOOR	BASE	WALLS	CEILING	REMARKS
1.00	1'-0" x 3'-0"	1'-0" x 3'-0"	1'-0" x 3'-0"	COORDINATE WITH HANGING AND ROOF DRAINAGE
1.01	1'-0" x 3'-0"	1'-0" x 3'-0"	1'-0" x 3'-0"	COORDINATE WITH HANGING AND ROOF DRAINAGE
1.02	1'-0" x 3'-0"	1'-0" x 3'-0"	1'-0" x 3'-0"	COORDINATE WITH HANGING AND ROOF DRAINAGE
1.03	1'-0" x 3'-0"	1'-0" x 3'-0"	1'-0" x 3'-0"	COORDINATE WITH HANGING AND ROOF DRAINAGE
1.04	1'-0" x 3'-0"	1'-0" x 3'-0"	1'-0" x 3'-0"	COORDINATE WITH HANGING AND ROOF DRAINAGE
1.05	1'-0" x 3'-0"	1'-0" x 3'-0"	1'-0" x 3'-0"	COORDINATE WITH HANGING AND ROOF DRAINAGE
1.06	1'-0" x 3'-0"	1'-0" x 3'-0"	1'-0" x 3'-0"	COORDINATE WITH HANGING AND ROOF DRAINAGE
1.07	1'-0" x 3'-0"	1'-0" x 3'-0"	1'-0" x 3'-0"	COORDINATE WITH HANGING AND ROOF DRAINAGE
1.08	1'-0" x 3'-0"	1'-0" x 3'-0"	1'-0" x 3'-0"	COORDINATE WITH HANGING AND ROOF DRAINAGE
1.09	1'-0" x 3'-0"	1'-0" x 3'-0"	1'-0" x 3'-0"	COORDINATE WITH HANGING AND ROOF DRAINAGE
1.10	1'-0" x 3'-0"	1'-0" x 3'-0"	1'-0" x 3'-0"	COORDINATE WITH HANGING AND ROOF DRAINAGE

"Improving the



PRINCIPAL of our World
Infrastructure

Architecture ♦ Engineering ♦ Construction

