

STATEMENT OF QUALIFICATIONS
FOR THE SUPPLEMENTAL LIST
TO PROVIDE ROUTINE ENGINEERING SERVICES
FOR DRAINAGE PROJECTS IN JEFFERSON PARISH
RESOLUTION NO. 136765



JANUARY 20, 2021

Prepared By:



PROFESSIONAL
ENGINEERING AND
ENVIRONMENTAL
CONSULTANTS, INC.

ENGINEERS, PLANNERS AND ENVIRONMENTAL CONSULTANTS
1065 Muller Parkway, Suite B, Westwego, LA 70094



**PROFESSIONAL
ENGINEERING AND
ENVIRONMENTAL
CONSULTANTS, INC.**

ENGINEERS, PLANNERS AND ENVIRONMENTAL CONSULTANTS

January 20, 2021

Jefferson Parish Purchasing Department
C/O Ms. Sidney Duffy, Buyer II
Joseph S. Yenni Building
1221 Elmwood Park, Suite 404
Jefferson, LA 70123

**RE: SUPPLEMENTAL LIST TO PROVIDE
ROUTINE ENGINEERING SERVICES FOR
DRAINAGE PROJECTS IN JEFFERSON PARISH
(RESOLUTION NO. 136765)**

Dear Ms. Duffy,

It is our pleasure to submit this response to Jefferson Parish Council's Request for Qualifications for Routine Engineering Services for the above-mentioned contracts. PEEC, Inc. is a Civil and Environmental Engineering firm providing vast experience with the design of drainage improvement systems, including design and rehabilitation of pump stations, water conveyance systems, box culverts, hydraulic analysis, modeling, and environmental permitting. Along with this, our familiarity with Jefferson Parish and the proximity of our office makes PEEC a prime candidate to provide the engineering and related services for any awarded projects.

PEEC is a consulting engineering firm capable of providing engineering services for Capital Improvements, CDBG, FEMA, GOHSEP, and other State and Federal funded projects. PEEC has been licensed in the State of Louisiana since 1993 and we are proud of the fact that our firm has not had any record of substandard work nor engaged in any unethical practices in that time.

PEEC has consistently providing state of the art solutions to complex problems facing municipalities and local government bodies. PEEC's innovative approach to problem solving has proven to be economically beneficial to its clients. Such technical ideas have been used for clients such as Jefferson Parish, Town of Grand Isle, St. Tammany Parish, City of Westwego, Plaquemines Parish, St. Bernard Parish, St. Charles Parish, St. James Parish, Lafourche Parish, St. Martin Parish, the Town of Zwolle and numerous other private clients in the past.

We look forward to working with the Council on any future Drainage improvement projects. If you have any questions regarding this matter, please contact our office at (504) 347-1900.

Sincerely,

Mo Saleh, M.S., P.E.,
Principal

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Executive Summary

Professional Engineering and Environmental Consultants, Inc. (PEEC), is a registered professional engineering firm in Louisiana and Texas. PEEC offers highly qualified personnel, state-of-the-art equipment and the latest computer systems and software to our clients. Our office is located in the City of Westwego in Jefferson Parish. Our vast experience with pump stations, water conveyance systems, hydraulic analysis and modeling, planning, construction management, and project administration makes PEEC a highly qualified firm to provide routine engineering services for Drainage projects.

PEEC offers its clients a wide array of professional civil, environmental, and structural engineering services coupled with exceptional knowledge and experience regarding design of drainage improvement. PEEC clients enjoy our professionalism and team work that lead to successful completion of projects from start to finish. Our technical ideas and innovative approach to problem solving has proven to be economically beneficial to its clients.

PEEC is very knowledgeable and proficient with FEMA, Capital Improvements, CDBG, and GOHSEP program administration and management. Our firm has all the necessary personnel with the appropriate expertise, qualifications, and certifications to successfully perform all aspects of this project for Jefferson Parish within budget, and in a timely manner.

Over the past 20 years, PEEC has developed an extensive inventory of background technical information on relevant characteristics which provide valuable information in preparation for drainage improvement project tasks, objectives, and goals. We are intimately familiar with Jefferson Parish having designed and managed the construction of numerous projects including drainage improvements, culvert replacements, and environmental permitting. Our firm recognizes the need for timely completion of projects and has proved itself capable of doing so in the past.

Successful planning and completion of projects in locations such as Jefferson Parish, St. Charles Parish, St. Tammany Parish, St. Bernard Parish, St. Martin Parish, Lafourche Parish, Plaquemines Parish, Sabine Parish, and Galveston County in Texas have proven our ability to consistently provide state of the art solutions to complex problems facing parishes and municipalities.

For these reasons as well as the firm's experience and understanding the nature of the problems confronting southeast Louisiana, Professional Engineering and Environmental Consultants, Inc. is a valuable resource that is very capable and prepared to provide professional engineering and related services to Jefferson Parish for drainage improvement projects.

**Jefferson Parish TEC
Professional Services Questionnaire**

And

Executed Affidavit

For

**Professional Engineering
and Environmental Consultants, Inc.**

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Supplemental List to Provide Routine Engineering Services for Drainage Projects in Jefferson Parish
Resolution No.136765

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

Professional Engineering and Environmental Consultants, Inc.
1065 Muller Parkway Suite B
Westwego, LA 70094

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:

Mo Saleh, M.S., P.E.
Principal
(504) 347-1900
mo@peecinc.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.

Mo Saleh, M.S., P.E.
Principal
(504) 347-1900
mo@peecinc.com

LA P.E. No. 23806 1990, Civil Engineering
LA P.E. No. 23806 1994, Environmental Engineering

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

<u> 2 </u> Administrative	<u> 1 </u> Estimators	<u> </u> Specification Writers
<u> </u> Architects (Licensed)	<u> </u> Geologists	<u> </u> Structural Engineers
<u> </u> Chemical Engineers	<u> </u> Geotechnical Engineers	<u> </u> Graduate Engineers
<u> 3 </u> Civil Engineers	<u> </u> Interior Designers	<u> 1 </u> Project Managers
<u> 1 </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> </u> Sanitary Engineers
<u> </u> Engineer Intern	<u> 1 </u> Environmental Engineers	
<u> 1 </u> Professional Land Surveyors		<u>11</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

Mechanical, Electrical, Plumbing and Piping Design

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

1. N/A

2. N/A

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

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

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

J. Please specify the total number of support personnel that may assist in the completion of this Project: (2)

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:

Mo Saleh, M.S., P.E., Principal

Project Assignment:

Senior Project Engineer; Civil Engineer

Name of Firm with which associated:

Professional Engineering and Environmental Consultants, Inc.

Years' experience with this Firm:

27

Education: Degree(s)/Year/Specialization:

M.S., Civil Engineering (1984), University of New Orleans; B.S., Civil Engineering (1980), University of New Orleans

Active registration: Year first registered/discipline:

Registered Professional Civil Engineer, LA P.E. No.23806; Registered Professional Environmental Engineer, LA P.E. No. 23806; Registered Professional Civil Engineer, FL P.E. No. 42728; Registered Professional Engineer, TX P.E. No. 86026; 40 Hour Hazmat Technician, Levels A, B, C, D, SCBA, SAR, APR, Certificate No. 1007; 8 Hour Hazmat Supervisor, Certificate No. 1012; Underground Storage Tank (UST) Removal Certification.

Other experience and qualifications relevant to the proposed Project:

As a Senior Project Engineer, Mr. Saleh has over (30) years of experience providing engineering services for design or rehabilitation on numerous drainage improvement systems including: pumping stations, major canals, subsurface drainage systems, and drainage basins with control structures, His responsibilities included: hydraulic modeling, hydraulic studies, field investigations, mechanical and structural design of pump stations, preparation of specifications, construction management, cost analysis, project coordination, preparation of operation and maintenance manuals, and regulatory negotiations for obtaining the required permits. Mr. Saleh will assume the role of Senior Project Engineer and oversee all aspects of these projects.

At Professional Engineering and Environmental Consultants, Inc., Mr. Saleh's engineering services include providing technical expertise and assistance to many local municipalities and parishes including: City of Westwego, City of Morgan City, Town of Grand Isle, Town of Zwolle, City of Gretna, Grand Isle Independent Levee District, West Jefferson Levee District, Grand Isle Port Commission, Jefferson Parish, Plaquemines Parish, St. Charles Parish, St. Bernard Parish, and St. Tammany Parish.

TEC Professional Services Questionnaire

Mr. Saleh's experience with drainage projects include:

Design of Stephenville Drainage System Improvements

St. Martin Parish, LA

This community incurs flooding on a regular basis as a result of heavy rainfall events and backwater flooding from the Atchafalaya River and coastal storm surge from the Gulf of Mexico. The Parish received FEMA Hazard Mitigation funds to protect the area and install a new drainage pump station to handle flooding. PEEC was contracted to conduct the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), and prepare the technical report, preliminary plans, cost analysis, final design, and obtain all environmental permits. The drainage system improvements included a water tight system for all sewer manholes to prevent water from intruding the wastewater treatment system; installation of a flap gate at each of the outfalls to prevent flooding from reverse water flow in existing catch basins and outfalls when waterways rise; increasing pumping capacity of existing pump station by lining the sump area, reinforcing walls with sheet piling and replacing the existing pump with a larger capacity pump; installing 1,800 feet of sheet piles to the north side of the canal and a new drainage pump station designed for 160 CFS. Mr. Saleh was the Senior Project Engineer for this project which consisted of hydraulic modeling and design of the drainage improvements based on the hydraulic modeling. He was also responsible for the cost analysis and alternative analysis, construction management, and permitting process.

Primrose (Ellington) Canal Road Crossing Culvert Replacement

St. Charles Parish, LA

PEEC provided engineering services to replace priority road crossing culverts along Primrose Canal. Most of the culverts along this canal were old, failing, undersized, and needed replacing. During significant rainfall events, reduced drainage capacity has resulted in street flooding along with several homes flooded in adjacent subdivisions. With the available grant funding, PEEC was authorized to replace as many as possible, properly sized culverts capable of handling a 100-year rain event. Our firm was responsible for preliminary and final design, bidding, construction management, close out and construction inspection services. Mr. Saleh was the Senior Project Engineer for determining the problem with the drainage and performing the hydraulic modeling for this work. After the hydraulic modeling was completed, he prepared the specifications and was the Senior Project Engineer for the entire project.

West First Street Canal Drainage Improvements

Belle Chasse, LA

PEEC was contracted by Plaquemines Parish Government to study the runoff effects of recent improvements to the West First Street Canal made on the Naval Air Base in Belle Chasse, LA. The focus of this study was to determine the cause of local erosion in the canal and design a drainage system to improve the existing condition. . With the topographic information in hand, PEEC constructed a model of the drainage patterns of the area utilizing HEC-HMS. HEC-RAS was used to analyze the effects of a possible increase of discharge into local drainage ditches. To address this issue, PEEC designed the conversion of the existing earthen canal to a concrete slope-paved canal to handle the increased discharge into the system and prevent future erosion. Mr. Saleh was the Senior Project Engineer responsible for the Plaquemines Parish Drainage Basin evaluation and design of a \$11M slope-paved drainage canal in Belle Chase, LA. He was also responsible for construction management and the permitting process.

Design of Duvic Canal Concrete Bridge and Pump Station Repair

Plaquemines Parish, LA

PEEC developed an innovative design for a new permanent crane structure attached to the existing pump station structure that would allow the drainage department to remove the 6-foot diameter suction assemblies whenever the need for repairs arose. The crane could also be used for lifting equipment onto the pump station deck. The project included bank stabilization and the design and installation of a new HS20-44 rated concrete bridge on Duvic Canal allowing heavy equipment to approach the flood wall and the drainage pump station for repair work. PEEC researched and analyzed the original design and construction of the pump station to determine strength and allowable loading on the existing structure. Geotechnical analysis of the native soils to determine foundation requirements, pile loading, and bedding requirements for improvements was obtained and analyzed by PEEC. Our firm provided the preliminary and final design, plans and specifications, permitting, and managed the construction phase of this project. Mr. Saleh was responsible for the structural and mechanical design of the project and construction management which included: applying for permits, coordinating pre-bid conference, tallying bids, and preparation of the drawings and specifications.

TEC Professional Services Questionnaire

Design of District 1 Drainage Improvements

Lafourche Parish, LA

During Hurricane Gustav the high tides, coupled with the heavy rainfall, forced storm waters back into the discharge pipes causing the pumps to operate improperly. As a result, pumps located in portions of Central Lafourche were forced to pump longer to decrease the water level on the outside of the system to allow the District 1 of 12 Pump Stations to pump water through the discharge pipe and relieve the standing water on the inside of the system. Lafourche Parish received funding under the CDBG Disaster Recovery Program to improve the existing pump stations in Drainage District 1. Environmental permits were prepared and submitted to the LA Corps of Engineers. Pre-Application discussions were engaged in with all participating regulatory agencies to obtain comments and make application adjustments as required. PEEC provided the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), preliminary plans, cost analysis, and final design. The design of the project includes installing 250 LF of steel sheet pile on both sides of an existing drainage levee to eliminate further erosion; installing 100 LF of 24" discharge pipe; 100 LF of 36" discharge pipe; 100 LF of 48" discharge pipe; rehabilitate existing pumps and engines; installing new trash screen to eliminate discharge of debris into the drainage canal; and installing new 24" electric pump, engine, and discharge pipe to increase the pumping capacity from 30,000 GPM to 60,000 GPM. Mr. Saleh was responsible for the structural and mechanical design of the project and construction management which included: applying for permits, coordinating pre-bid conference, tallying bids, and preparation of the drawings and specifications.

Design of District 2 Drainage Improvements

Lafourche Parish, LA

Lafourche Parish received funding under the CDBG Disaster Recovery Program to improve the existing pump stations in Drainage District 2. Due to age and deterioration of this pump station holes have formed in the discharge pipes. During Hurricane Gustav the pump station was not able to produce the necessary pumping capacity needed to relieve the standing water on the inside of the system. The many holes in the discharge pipe allow water to escape from the pipe before it reaches the outside of the system, thereby defeating the purpose of the pumps. Environmental permits were prepared and submitted to the LA Corps of Engineers. Pre-Application discussions were engaged in with all participating regulatory agencies to obtain comments and make application adjustments as required. PEEC provided the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), preliminary plans, cost analysis, and final design. The design of the project includes installing 200 LF of new 36" discharge pipe; rehabilitating the existing pumps and engines; installing a new trash screen to eliminate the discharge of debris into the drainage canal; installing new hand rail and lighting system to ensure worker safety; and refurbishing and installing Parish owned 48" pump. Mr. Saleh was responsible for the structural and mechanical design of the project and construction management which included: applying for permits, coordinating pre-bid conference, tallying bids, and preparation of the drawings and specifications.

Improvements to Drainage Pump Station No. 1

Belle Chasse, LA

The Plaquemines Parish Drainage Department operates the Belle Chasse Drainage Pump Station which had a Caterpillar diesel engine with a 9,000 CFS pumping capacity. Four of the diesel engines were former submarine engines that were originally built in the early 1940's. Due to lack of available parts and sheer age, maintenance of the engines had become increasingly expensive. The department decided that the most cost-effective approach would be to remove the existing engines and replace them with modern diesel engines as funding would allow. The department was able to secure funding for the replacement of one of the engines. The Parish received proposals from engineering firms for the method and estimated cost for the replacement of the engine. PEEC was awarded the contract to design the replacement of the engine. The unique aspect of PEEC's replacement method was the inclusion of an innovative system of permanent cranes within the building that allowed the Parish to remove the engines from within the building in lieu of expensive rental of a crane that would remove the engine from the outside of the pump station by removing wall panels and part of the roof. The major advantage of this design was that it also allowed the replacement of the other three engines as funding allowed without having to repay for crane rental. The crane also allowed the station operators to load and move other heavy equipment. Prior to this movement of such items was cumbersome and dangerous. The new engine was a Caterpillar diesel engine. Mr. Saleh was the Senior Project Engineer responsible for the design of the project and construction management which included: applying for permits, coordinating pre-bid conference, tallying bids, and preparation of the drawings and specifications.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Ronald A. Guidry, President
Project Assignment:
Quality Control Manager
Name of Firm with which associated:
Professional Engineering and Environmental Consultants, Inc.
Years' experience with this Firm:
27
Education: Degree(s)/Year/Specialization:
Associate of Science, Drafting Eng. Technology, Delgado College, 1968
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Guidry has been an officer of Professional Engineering and Environmental Consultants, Inc. for over (20) years and has over (40) years of experience in construction supervision and monitoring, instrumentation, drafting, architectural design, and planning. His education and construction background provides the company with great versatility in quality control and assurance for the various projects. Mr. Guidry will assume the role of Quality Control Manager regarding this project.</p> <p>Primrose (Ellington) Canal Road Crossing Culvert Replacement St. Charles Parish, LA PEEC provided engineering services to replace priority road crossing culverts along Primrose Canal. Most of the culverts along this canal were old, failing, undersized, and needed replacing. During significant rainfall events, reduced drainage capacity has resulted in street flooding along with several homes flooded in adjacent subdivisions. With the available grant funding, PEEC was authorized to replace as many as possible, properly sized culverts capable of handling a 100-year rain event. Our firm was responsible for preliminary and final design, bidding, construction management, close out and construction inspection services. Mr. Guidry was responsible for Quality Control and Assurance, and construction administration which included: review of shop drawings and contractor submittals, calculating quantities, approving contractor invoices, and coordinating the final inspection.</p> <p>West First Street Canal Drainage Improvements Belle Chasse, LA PEEC was contracted by Plaquemines Parish Government to study the runoff effects of recent improvements to the West First Street Canal made on the Naval Air Base in Belle Chasse, LA. The focus of this study was to determine the cause of local erosion in the canal and design a drainage system to improve the existing condition. With the topographic information in hand, PEEC constructed a model of the drainage patterns of the area utilizing HEC-HMS. HEC-RAS was used to analyze the effects of a possible increase of discharge into local drainage ditches. To address this issue, PEEC designed the conversion of the existing earthen canal to a concrete slope-paved canal to handle the increased discharge into the system and prevent future erosion. Mr. Guidry was responsible for construction supervision, monitoring, planning, adhering to state and federal regulations, and quantities of materials used on-site.</p>

TEC Professional Services Questionnaire

Duvic Canal Concrete Bridge and Reshaping Canal

Plaquemines Parish, LA

The project included bank stabilization and the design and installation of a new HS20-44 rated concrete bridge on Duvic Canal allowing heavy equipment to approach the flood wall and the drainage pump station for repair work. Environmental Permits were prepared and submitted to the Corps of Engineers. Pre-Application discussions were engaged in with all participating regulatory agencies to obtain comments and make application adjustments as required. Geotechnical analysis of the native soils to determine foundation requirements, pile loading, and bedding requirements for improvements was obtained and analyzed by PEEC. Our firm provided the preliminary and final design, plans and specifications, permitting, and managed the construction phase of this project. Mr. Guidry was responsible for Quality Control and Assurance, and construction administration which included: review of shop drawings and contractor submittals, calculating quantities, approving contractor invoices, and coordinating the final inspection.

Design of District 1 Drainage Improvements

Lafourche Parish, LA

During Hurricane Gustav the high tides, coupled with the heavy rainfall, forced storm waters back into the discharge pipes causing the pumps to operate improperly. As a result, pumps located in portions of Central Lafourche were forced to pump longer to decrease the water level on the outside of the system to allow the District 1 of 12 Pump Stations to pump water through the discharge pipe and relieve the standing water on the inside of the system. Lafourche Parish received funding under the CDBG Disaster Recovery Program to improve the existing pump stations in Drainage District 1. Environmental permits were prepared and submitted to the LA Corps of Engineers. Pre-Application discussions were engaged in with all participating regulatory agencies to obtain comments and make application adjustments as required. PEEC provided the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), preliminary plans, cost analysis, and final design. The design of the project includes installing 250 LF of steel sheet pile on both sides of an existing drainage levee to eliminate further erosion; installing 100 LF of 24" discharge pipe; 100 LF of 36" discharge pipe; 100 LF of 48" discharge pipe; rehabilitate existing pumps and engines; installing new trash screen to eliminate discharge of debris into the drainage canal; and installing new 24" electric pump, engine, and discharge pipe to increase the pumping capacity from 30,000 GPM to 60,000 GPM. Mr. Guidry was responsible for Quality Control and Assurance, and construction administration which included: review of shop drawings and contractor submittals, calculating quantities, approving contractor invoices, and coordinating the final inspection.

Improvements to Drainage Pump Station No. 1

Belle Chasse, LA

The Plaquemines Parish Drainage Department operates the Belle Chasse Drainage Pump Station which had a Caterpillar diesel engine with a 9,000 CFS pumping capacity. Four of the diesel engines were former submarine engines that were originally built in the early 1940's. Due to lack of available parts and sheer age, maintenance of the engines had become increasingly expensive. The department decided that the most cost-effective approach would be to remove the existing engines and replace them with modern diesel engines as funding would allow. The department was able to secure funding for the replacement of one of the engines. The Parish received proposals from engineering firms for the method and estimated cost for the replacement of the engine. PEEC was awarded the contract to design the replacement of the engine. The unique aspect of PEEC's replacement method was the inclusion of an innovative system of permanent cranes within the building that allowed the Parish to remove the engines from within the building in lieu of expensive rental of a crane that would remove the engine from the outside of the pump station by removing wall panels and part of the roof. The major advantage of this design was that it also allowed the replacement of the other three engines as funding allowed without having to repay for crane rental. The crane also allowed the station operators to load and move other heavy equipment. Prior to this movement of such items was cumbersome and dangerous. The new engine was a Caterpillar diesel engine. Mr. Guidry was responsible for Quality Control and Assurance, and construction administration which included: review of shop drawings and contractor submittals, calculating quantities, approving contractor invoices, and coordinating the final inspection.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Delmar R. Caldwell, P.E.
Project Assignment:
Civil Engineer
Name of Firm with which associated:
Professional Engineering and Environmental Consultants, Inc.
Years' experience with this Firm:
27
Education: Degree(s)/Year/Specialization:
B.S., Civil Engineering, Tulane University, 1982
Active registration: Year first registered/discipline:
Registered Professional Civil Engineer, LA P.E. No. 23127; Registered Professional Environmental Engineer, LA P.E. No. 23127; Registered Professional Civil Engineer, MS P.E. No. 10847; Hazardous Waste Contractor, LA No. 26898; LA DEQ Underground Storage Tank Worker Certificate No. IRC-0539.
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Caldwell is a registered Civil Engineer with more than (30) years of experience in civil and environmental engineering projects. His experience is broad based and includes: office administration and management, construction administration and supervision for major municipal programs. His technical background includes: GIS development and implementation, water and wastewater planning and design, permitting, hydraulic and hydrologic analyses and study. Mr. Caldwell will assume the role of Civil Engineer for this project.</p> <p>Primrose (Ellington) Canal Road Crossing Culvert Replacement St. Charles Parish, LA PEEC provided engineering services to replace priority road crossing culverts along Primrose Canal. Most of the culverts along this canal were old, failing, undersized, and needed replacing. During significant rainfall events, reduced drainage capacity has resulted in street flooding along with several homes flooded in adjacent subdivisions. With the available grant funding, PEEC was authorized to replace as many as possible, properly sized culverts capable of handling a 100-year rain event. Our firm was responsible for preliminary and final design, bidding, construction management, close out and construction inspection services. Mr. Caldwell was responsible for preparation of plans and specifications, project administration, and construction management.</p> <p>West First Street Canal Drainage Improvements Belle Chasse, LA PEEC was contracted by Plaquemines Parish Government to study the runoff effects of recent improvements to the West First Street Canal made on the Naval Air Base in Belle Chasse, LA. The focus of this study was to determine the cause of local erosion in the canal and design a drainage system to improve the existing condition. . With the topographic information in hand, PEEC constructed a model of the drainage patterns of the area utilizing HEC-HMS. HEC-RAS was used to analyze the effects of a possible increase of discharge into local drainage ditches. To address this issue, PEEC designed the conversion of the existing earthen canal to a concrete slope-paved canal to handle the increased discharge into the system and prevent future erosion. Mr. Caldwell was responsible for preparation of plans and specifications, project administration, and construction management.</p>

TEC Professional Services Questionnaire

Design of Duvic Canal Concrete Bridge and Pump Station Repair

Plaquemines Parish, LA

PEEC developed an innovative design for a new permanent crane structure attached to the existing pump station structure that would allow the drainage department to remove the 6-foot diameter suction assemblies whenever the need for repairs arose. The crane could also be used for lifting equipment onto the pump station deck. The project included bank stabilization and the design and installation of a new HS20-44 rated concrete bridge on Duvic Canal allowing heavy equipment to approach the flood wall and the drainage pump station for repair work. PEEC researched and analyzed the original design and construction of the pump station to determine strength and allowable loading on the existing structure. Geotechnical analysis of the native soils to determine foundation requirements, pile loading, and bedding requirements for improvements was obtained and analyzed by PEEC. Our firm provided the preliminary and final design, plans and specifications, permitting, and managed the construction phase of this project. Mr. Caldwell was responsible for construction management which included: applying for permits, coordinating pre-bid conference, tallying bids, and preparation of the drawings and specifications.

Improvements to Drainage Pump Station No. 1

Belle Chasse, LA

The Plaquemines Parish Drainage Department operates the Belle Chasse Drainage Pump Station which had a Caterpillar diesel engine with a 9,000 CFS pumping capacity. Four of the diesel engines were former submarine engines that were originally built in the early 1940's. Due to lack of available parts and sheer age, maintenance of the engines had become increasingly expensive. The department decided that the most cost-effective approach would be to remove the existing engines and replace them with modern diesel engines as funding would allow. The department was able to secure funding for the replacement of one of the engines. The Parish received proposals from engineering firms for the method and estimated cost for the replacement of the engine. PEEC was awarded the contract to design the replacement of the engine. The unique aspect of PEEC's replacement method was the inclusion of an innovative system of permanent cranes within the building that allowed the Parish to remove the engines from within the building in lieu of expensive rental of a crane that would remove the engine from the outside of the pump station by removing wall panels and part of the roof. The major advantage of this design was that it also allowed the replacement of the other three engines as funding allowed without having to repay for crane rental. The crane also allowed the station operators to load and move other heavy equipment. Prior to this movement of such items was cumbersome and dangerous. The new engine was a Caterpillar diesel engine. Mr. Caldwell was responsible for construction management which included: applying for permits, coordinating pre-bid conference, tallying bids, and preparation of the drawings and specifications.

Replace Culverts at Willowdale and Beaupre Crossings

St. Charles Parish, LA

PEEC provided engineering services to replace priority road crossing culverts at Willowdale and Beaupre Blvd. where the roads cross the southernmost drainage canal. The project consisted of installation of 4' by 10' box culverts at Beaupre Drive, installation of 88" by 54" RCPA drainage pipe at Willowdale Blvd., construction of a new asphaltic roadway at Willowdale Blvd., construction of the concrete roadway at Beaupre Drive, construction of the concrete headwalls at Beaupre Drive, new drainage manhole and outfall pipe at Willowdale Blvd., and grouted riprap at both sites. Our firm was responsible for preliminary and final design, bidding, construction management, close out and construction inspection services. Mr. Caldwell was responsible for construction management which included: applying for permits, coordinating pre-bid conference, tallying bids, and preparation of the drawings and specifications.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Dr. Morris Sade, Ph.D., P.H., P.E.
Project Assignment:
Environmental Engineer
Name of Firm with which associated:
Professional Engineering and Environmental Consultants, Inc.
Years' experience with this Firm:
15
Education: Degree(s)/Year/Specialization:
Ph.D./1990/University of Illinois/Civil & Agric. Engineering M.S./1981/University of Arizona/Civil Engineering B.S./ 1971/University of Azerbaijan/Civil & Agric. Engineering
Active registration: Year first registered/discipline:
P.E. 1997, Civil Engineer/Louisiana No. 27412; P.E. 2002, Civil Engineer/Arizona No. 38010; P.E. 2003, Civil Engineer/Texas No. 91381; P.H. 1992, Professional Hydrologist, AIH 990
Other experience and qualifications relevant to the proposed Project:
<p>Dr. Sade has served in various technical and administrative capacities during his many years of experience as a professional engineer. He has multi-disciplinary education and extensive professional experiences in Design, Research and Development, Teaching, Planning and Management in the field of Water Resources and Environmental Engineering, Hydraulics and Hydrology. He has prepared and published numerous technical reports and design projects. He has an established record of knowledge and practical experiences in various physical and environmental aspects of Louisiana's Flat terrain Hydrology, Flood Control Structures, Stormwater Management, Hydrologic and Hydraulic Design (H&H), Soil Erosion, Risk Assessment and Dam Safety Analysis, Coastal Wetlands and Groundwater Technology. He has a broad background in computer modeling and simulation techniques for design of Hydrologic and Hydraulic (H&H) systems and GIS application. He has worked extensively with hydrologic models and has comprehensive working knowledge of HEC1, HEC2, HECRAS, HEC-HMS, HYDRAIN, STORM, SWMM, TR55, WSPRO, SMS, UNET, TABS, RMAX & SED2D, WQRRS, BASINS, QUAL-2E. Dr. Sade will assume the role of Environmental Engineer for any awarded projects.</p> <p>Duvic Canal Concrete Bridge and Reshaping Canal Plaquemines Parish, LA The project included bank stabilization and the design and installation of a new HS20-44 rated concrete bridge on Duvic Canal allowing heavy equipment to approach the flood wall and the drainage pump station for repair work. Environmental Permits were prepared and submitted to the Corps of Engineers. Pre-Application discussions were engaged in with all participating regulatory agencies to obtain comments and make application adjustments as required. Geotechnical analysis of the native soils to determine foundation requirements, pile loading, and bedding requirements for improvements was obtained and analyzed by PEEC. Our firm provided the preliminary and final design, plans and specifications, permitting, and managed the construction phase of this project. Dr. Sade was responsible for environmental permitting and environmental impact assessment.</p>

TEC Professional Services Questionnaire

Design of Stephenville Drainage System Improvements

St. Martin Parish, LA

This community incurs flooding on a regular basis as a result of heavy rainfall events and backwater flooding from the Atchafalaya River and coastal storm surge from the Gulf of Mexico. The Parish received FEMA Hazard Mitigation funds to protect the area and install a new drainage pump station to handle flooding. PEEC was contracted to conduct the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), and prepare the technical report, preliminary plans, cost analysis, final design, and obtain all environmental permits. The drainage system improvements included a water tight system for all sewer manholes to prevent water from intruding the wastewater treatment system; installation of a flap gate at each of the outfalls to prevent flooding from reverse water flow in existing catch basins and outfalls when waterways rise; increasing pumping capacity of existing pump station by lining the sump area, reinforcing walls with sheet piling and replacing the existing pump with a larger capacity pump; installing 1,800 feet of sheet piles to the north side of the canal and a new drainage pump station designed for 160 CFS. Dr. Sade was responsible for environmental permitting and environmental impact assessment.

Design of District 1 Drainage Improvements

Lafourche Parish, LA

During Hurricane Gustav the high tides, coupled with the heavy rainfall, forced storm waters back into the discharge pipes causing the pumps to operate improperly. As a result, pumps located in portions of Central Lafourche were forced to pump longer to decrease the water level on the outside of the system to allow the District 1 of 12 Pump Stations to pump water through the discharge pipe and relieve the standing water on the inside of the system. Lafourche Parish received funding under the CDBG Disaster Recovery Program to improve the existing pump stations in Drainage District 1. Environmental permits were prepared and submitted to the LA Corps of Engineers. Pre-Application discussions were engaged in with all participating regulatory agencies to obtain comments and make application adjustments as required. PEEC provided the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), preliminary plans, cost analysis, and final design. The design of the project includes installing 250 LF of steel sheet pile on both sides of an existing drainage levee to eliminate further erosion; installing 100 LF of 24" discharge pipe; 100 LF of 36" discharge pipe; 100 LF of 48" discharge pipe; rehabilitate existing pumps and engines; installing new trash screen to eliminate discharge of debris into the drainage canal; and installing new 24" electric pump, engine, and discharge pipe to increase the pumping capacity from 30,000 GPM to 60,000 GPM. Dr. Sade was responsible for environmental permitting and environmental impact assessment.

Design of District 2 Drainage Improvements

Lafourche Parish, LA

Lafourche Parish received funding under the CDBG Disaster Recovery Program to improve the existing pump stations in Drainage District 2. Due to age and deterioration of this pump station holes have formed in the discharge pipes. During Hurricane Gustav the pump station was not able to produce the necessary pumping capacity needed to relieve the standing water on the inside of the system. The many holes in the discharge pipe allow water to escape from the pipe before it reaches the outside of the system, thereby defeating the purpose of the pumps. Environmental permits were prepared and submitted to the LA Corps of Engineers. Pre-Application discussions were engaged in with all participating regulatory agencies to obtain comments and make application adjustments as required. PEEC provided the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), preliminary plans, cost analysis, and final design. The design of the project includes installing 200 LF of new 36" discharge pipe; rehabilitating the existing pumps and engines; installing a new trash screen to eliminate the discharge of debris into the drainage canal; installing new hand rail and lighting system to ensure worker safety; and refurbishing and installing Parish owned 48" pump. Dr. Sade was responsible for environmental permitting and environmental impact assessment.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Wes Faulkner, P.E.
Project Assignment:
Electrical Engineer
Name of Firm with which associated:
Professional Engineering and Environmental Consultants, Inc.
Years' experience with this Firm:
15
Education: Degree(s)/Year/Specialization:
B.S., 1964, Electrical Engineering, Louisiana State University
Active registration: Year first registered/discipline:
1966, Electrical Engineering, Louisiana No. 10110
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Faulkner has over 35 years of experience designing lighting, power and control systems for commercial and industrial facilities. Past project facilities include water and wastewater treatment plants, pump stations, lift stations, hospitals, office buildings, and schools. Mr. Faulkner is also experienced in preparing contract documents, plans and specifications, cost estimates, and providing construction management. Mr. Faulkner joined the team of Professional Engineering and Environmental Consultants, Inc. in 2005 as the Electrical and Mechanical Engineer and has been responsible for the Mechanical, Electrical, Piping & Plumbing design of several Jefferson Parish government and also Jefferson Parish School board projects. Mr. Faulkner will assume the role of Electrical Engineer for this project.</p> <p>Design of District 1 Drainage Improvements Lafourche Parish, LA Lafourche Parish received funding under the CDBG Disaster Recovery Program to improve the existing pump stations in Drainage District 1. Environmental permits were prepared and submitted to the LA Corps of Engineers. PEEC provided the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), preliminary plans, cost analysis, and final design. The design of the project includes installing 250 LF of steel sheet pile on both sides of an existing drainage levee to eliminate further erosion; installing 100 LF of 24" discharge pipe; 100 LF of 36" discharge pipe; 100 LF of 48" discharge pipe; rehabilitate existing pumps and engines; installing new trash screen to eliminate discharge of debris into the drainage canal; and installing new 24" electric pump, engine, and discharge pipe to increase the pumping capacity from 30,000 GPM to 60,000 GPM. Mr. Faulkner was responsible for electrical systems, electrical specifications, automatic transfer switches, diesel generator sets, and cost analysis.</p> <p>Design of District 2 Drainage Improvements Lafourche Parish, LA During Hurricane Gustav the pump station was not able to produce the necessary pumping capacity needed to relieve the standing water on the inside of the system. The many holes in the discharge pipe allow water to escape from the pipe before it reaches the outside of the system, thereby defeating the purpose of the pumps. PEEC provided the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), preliminary plans, cost analysis, and final design. The design of the project includes installing 200 LF of new 36" discharge pipe; rehabilitating the existing pumps and engines; installing a new trash screen to eliminate the discharge of debris into the drainage canal; installing new hand rail and lighting system to ensure worker safety; and refurbishing and installing Parish owned 48" pump. Mr. Faulkner was responsible for electrical systems, electrical specifications, automatic transfer switches, diesel generator sets, and cost analysis.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Al Almassi
Project Assignment:
Civil Engineer
Name of Firm with which associated:
Professional Engineering and Environmental Consultants, Inc.
Years' experience with this Firm:
24
Education: Degree(s)/Year/Specialization:
B.S., Civil Engineering, University of New Orleans, 1983
Active registration: Year first registered/discipline:
P.E. Texas
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Almassi is a Civil Engineer with over (30) years of experience in various aspects of the civil and environmental engineering fields. His experience includes: hydraulic analysis, environmental permitting, hydrologic study, topographic survey, creating plans and specifications, and construction administration. Mr. Almassi will assume the role of Civil Engineer for this project.</p> <p>West First Street Canal Drainage Improvements Belle Chasse, LA PEEC was contracted by Plaquemines Parish Government to study the runoff effects of recent improvements to the West First Street Canal made on the Naval Air Base in Belle Chasse, LA. The focus of this study was to determine the cause of local erosion in the canal and design a drainage system to improve the existing condition. . With the topographic information in hand, PEEC constructed a model of the drainage patterns of the area utilizing HEC-HMS. HEC-RAS was used to analyze the effects of a possible increase of discharge into local drainage ditches. To address this issue, PEEC designed the conversion of the existing earthen canal to a concrete slope-paved canal to handle the increased discharge into the system and prevent future erosion. Mr. Almassi was responsible for construction administration which included: the hydraulic calculations, review of shop drawings and contractor submittals, calculating quantities, and coordinating the final inspection.</p> <p>Design of Duvic Canal Concrete Bridge and Pump Station Repair Plaquemines Parish, LA PEEC developed an innovative design for a new permanent crane structure attached to the existing pump station structure that would allow the drainage department to remove the 6-foot diameter suction assemblies whenever the need for repairs arose. The crane could also be used for lifting equipment onto the pump station deck. The project included bank stabilization and the design and installation of a new HS20-44 rated concrete bridge on Duvic Canal allowing heavy equipment to approach the flood wall and the drainage pump station for repair work. PEEC researched and analyzed the original design and construction of the pump station to determine strength and allowable loading on the existing structure. Geotechnical analysis of the native soils to determine foundation requirements, pile loading, and bedding requirements for improvements was obtained and analyzed by PEEC. Our firm provided the preliminary and final design, plans and specifications, permitting, and managed the construction phase of this project. Mr. Almassi was responsible for review of shop drawings and contractor submittals, calculating quantities, and coordinating the final inspection.</p>

TEC Professional Services Questionnaire

Improvements to Drainage Pump Station No. 1

Belle Chasse, LA

The Plaquemines Parish Drainage Department operates the Belle Chasse Drainage Pump Station which had a Caterpillar diesel engine with a 9,000 CFS pumping capacity. Four of the diesel engines were former submarine engines that were originally built in the early 1940's. Due to lack of available parts and sheer age, maintenance of the engines had become increasingly expensive. The department decided that the most cost-effective approach would be to remove the existing engines and replace them with modern diesel engines as funding would allow. The department was able to secure funding for the replacement of one of the engines. The Parish received proposals from engineering firms for the method and estimated cost for the replacement of the engine. PEEC was awarded the contract to design the replacement of the engine. The unique aspect of PEEC's replacement method was the inclusion of an innovative system of permanent cranes within the building that allowed the Parish to remove the engines from within the building in lieu of expensive rental of a crane that would remove the engine from the outside of the pump station by removing wall panels and part of the roof. The major advantage of this design was that it also allowed the replacement of the other three engines as funding allowed without having to repay for crane rental. The crane also allowed the station operators to load and move other heavy equipment. Prior to this movement of such items was cumbersome and dangerous. The new engine was a Caterpillar diesel engine. Mr. Almassi was responsible for the preparation of plans and specifications, hydraulic calculations, design of the new system, construction inspection, and obtaining all necessary permits.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Jeff Meyers
Project Assignment:
Project Manager
Name of Firm with which associated:
Professional Engineering and Environmental Consultants, Inc.
Years' experience with this Firm:
15
Education: Degree(s)/Year/Specialization:
Associates in Drafting and Design, Southeastern Louisiana University, 1999
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Meyers has been the Project Manager and Designer for several Civil and Structural engineering projects with PEEC. His responsibilities include managing the design team, coordination with the client, coordination and design of the project including data conversion, computer mapping, field investigation, and the historical review of the site; supervision of the construction phase, preparation of the specifications, cost analysis, and preparation of operation and maintenance manuals, and regulatory negotiations for obtaining the required permits. Mr. Meyers will assume the role of Project Manager for this project.</p> <p>Design of Stephenville Drainage System Improvements St. Martin Parish, LA The Parish received FEMA Hazard Mitigation funds to protect the area and install a new drainage pump station to handle flooding. PEEC was contracted to conduct the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), and prepare the technical report, preliminary plans, cost analysis, final design, and obtain all environmental permits. The drainage system improvements included a water tight system for all sewer manholes to prevent water from intruding the wastewater treatment system; installation of a flap gate at each of the outfalls to prevent flooding from reverse water flow in existing catch basins and outfalls when waterways rise; increasing pumping capacity of existing pump station by lining the sump area, reinforcing walls with sheet piling and replacing the existing pump with a larger capacity pump; installing 1,800 feet of sheet piles to the north side of the canal and a new drainage pump station designed for 160 CFS. Mr. Meyers was responsible for the topographical surveying, cost analysis, preparation of the drawings and specifications, coordination and design of the project including data conversion, computer mapping, field investigation, and coordination of this project with the client.</p> <p>Primrose (Ellington) Canal Road Crossing Culvert Replacement St. Charles Parish, LA PEEC provided engineering services to replace priority road crossing culverts along Primrose Canal. Most of the culverts along this canal were old, failing, undersized, and needed replacing. During significant rainfall events, reduced drainage capacity has resulted in street flooding along with several homes flooded in adjacent subdivisions. Our firm was responsible for preliminary and final design, bidding, construction management, close out and construction inspection services. Mr. Meyers was responsible for the topographical surveying, cost analysis, preparation of the drawings and specifications, coordination and design of the project including data conversion, computer mapping, field investigation, and coordination of this project with the client.</p>

TEC Professional Services Questionnaire

Design of District 1 Drainage Improvements

Lafourche Parish, LA

During Hurricane Gustav the high tides, coupled with the heavy rainfall, forced storm waters back into the discharge pipes causing the pumps to operate improperly. As a result, pumps located in portions of Central Lafourche were forced to pump longer to decrease the water level on the outside of the system to allow the District 1 of 12 Pump Stations to pump water through the discharge pipe and relieve the standing water on the inside of the system. Lafourche Parish received funding under the CDBG Disaster Recovery Program to improve the existing pump stations in Drainage District 1. Environmental permits were prepared and submitted to the LA Corps of Engineers. Pre-Application discussions were engaged in with all participating regulatory agencies to obtain comments and make application adjustments as required. PEEC provided the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), preliminary plans, cost analysis, and final design. The design of the project includes installing 250 LF of steel sheet pile on both sides of an existing drainage levee to eliminate further erosion; installing 100 LF of 24" discharge pipe; 100 LF of 36" discharge pipe; 100 LF of 48" discharge pipe; rehabilitate existing pumps and engines; installing new trash screen to eliminate discharge of debris into the drainage canal; and installing new 24" electric pump, engine, and discharge pipe to increase the pumping capacity from 30,000 GPM to 60,000 GPM. Mr. Meyers was responsible for the topographical surveying, cost analysis, preparation of the drawings and specifications, coordination and design of the project including data conversion, computer mapping, field investigation, and coordination of this project with the client.

Design of District 2 Drainage Improvements

Lafourche Parish, LA

Lafourche Parish received funding under the CDBG Disaster Recovery Program to improve the existing pump stations in Drainage District 2. Due to age and deterioration of this pump station holes have formed in the discharge pipes. During Hurricane Gustav the pump station was not able to produce the necessary pumping capacity needed to relieve the standing water on the inside of the system. The many holes in the discharge pipe allow water to escape from the pipe before it reaches the outside of the system, thereby defeating the purpose of the pumps. Environmental permits were prepared and submitted to the LA Corps of Engineers. Pre-Application discussions were engaged in with all participating regulatory agencies to obtain comments and make application adjustments as required. PEEC provided the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), preliminary plans, cost analysis, and final design. The design of the project includes installing 200 LF of new 36" discharge pipe; rehabilitating the existing pumps and engines; installing a new trash screen to eliminate the discharge of debris into the drainage canal; installing new hand rail and lighting system to ensure worker safety; and refurbishing and installing Parish owned 48" pump. Mr. Meyers was responsible for the topographical surveying, cost analysis, preparation of the drawings and specifications, coordination and design of the project including data conversion, computer mapping, field investigation, and coordination of this project with the client.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
James Blanchard
Project Assignment:
Project Administrator
Name of Firm with which associated:
Professional Engineering and Environmental Consultants, Inc.
Years' experience with this Firm:
9
Education: Degree(s)/Year/Specialization:
B.G.S./2001 University of New Orleans/Science
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>As Project Administrator, Mr. Blanchard is responsible for permitting; preparing front end and technical specifications; compliance with guidelines, specifications, and bidding documents; coordinating the contractor bid process; coordinating with the engineer(s) and clients; reconciling any issues with residents and parish officials; project administration; and historical data research. Mr. Blanchard will fulfill this role on this project.</p> <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p>Design of Stephenville Drainage System Improvements</p> <p>The Parish received FEMA Hazard Mitigation funds to protect the area and install a new drainage pump station to handle flooding. PEEC was contracted to conduct the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), and prepare the technical report, preliminary plans, cost analysis, final design, and obtain all environmental permits. The drainage system improvements included a water tight system for all sewer manholes to prevent water from intruding the wastewater treatment system; installation of a flap gate at each of the outfalls to prevent flooding from reverse water flow in existing catch basins and outfalls when waterways rise; increasing pumping capacity of existing pump station by lining the sump area, reinforcing walls with sheet piling and replacing the existing pump with a larger capacity pump; installing 1,800 feet of sheet piles to the north side of the canal and a new drainage pump station designed for 160 CFS. Mr. Blanchard was responsible for preparation of project specifications, compliance with project specifications, coordinating contractor bid process, tallying bids, historical data review, applying for permits, and project administration.</p> </div> <div style="width: 35%; text-align: right;"> <p>St. Martin Parish, LA</p> </div> </div> <div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p>Primrose (Ellington) Canal Road Crossing Culvert Replacement</p> <p>PEEC provided engineering services to replace priority road crossing culverts along Primrose Canal. During significant rainfall events, reduced drainage capacity has resulted in street flooding along with several homes flooded in adjacent subdivisions. Our firm was responsible for preliminary and final design, bidding, construction management, close out and construction inspection services. Mr. Blanchard was responsible for preparation of project specifications, compliance with project specifications, coordinating contractor bid process, tallying bids, applying for permits, and project administration.</p> </div> <div style="width: 35%; text-align: right;"> <p>St. Charles Parish, LA</p> </div> </div>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Stephen Blaskey, P.L.S.
Project Assignment:
Lead Surveyor
Name of Firm with which associated:
Professional Engineering and Environmental Consultants, Inc.
Years' experience with this Firm:
9
Education: Degree(s)/Year/Specialization:
B.S./ 2004 Texas A&M University – Corpus Christi/Geographic Information Science with a Specialization in Geomatics
Active registration: Year first registered/discipline:
Louisiana P.L.S. License No. 5107 – Land Surveyor
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Blaskey has over nine years of experience as Surveyor for PEEC, Inc. His responsibilities include surveying operations, boundary calculations, and use of GIS software. Mr. Blaskey will assume the role of Land Surveyor and provide all necessary surveying.</p> <p>Design of Stephenville Drainage System Improvements St. Martin Parish, LA The Parish received FEMA Hazard Mitigation funds to protect the area and install a new drainage pump station to handle flooding. PEEC was contracted to conduct the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), and prepare the technical report, preliminary plans, cost analysis, final design, and obtain all environmental permits. The drainage system improvements included a water tight system for all sewer manholes to prevent water from intruding the wastewater treatment system; installation of a flap gate at each of the outfalls to prevent flooding from reverse water flow in existing catch basins and outfalls when waterways rise; increasing pumping capacity of existing pump station by lining the sump area, reinforcing walls with sheet piling and replacing the existing pump with a larger capacity pump; installing 1,800 feet of sheet piles to the north side of the canal and a new drainage pump station designed for 160 CFS. Mr. Blaskey's responsibilities included elevation surveys, boundary calculations, and identifying existing pipelines located at the project site.</p> <p>Primrose (Ellington) Canal Road Crossing Culvert Replacement St. Charles Parish, LA PEEC provided engineering services to replace priority road crossing culverts along Primrose Canal. Most of the culverts along this canal were old, failing, undersized, and needed replacing. During significant rainfall events, reduced drainage capacity has resulted in street flooding along with several homes flooded in adjacent subdivisions. Our firm was responsible for preliminary and final design, bidding, construction management, close out and construction inspection services. Mr. Blaskey's responsibilities included elevation surveys, boundary calculations, and identifying existing pipelines located at the project site.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Derek Pinkley
Project Assignment:
Estimator
Name of Firm with which associated:
Professional Engineering and Environmental Consultants, Inc.
Years' experience with this Firm:
10
Education: Degree(s)/Year/Specialization:
B.S. in Computer Science American International University
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>As the Estimator, Mr. Pinkley is responsible for gathering information and requirements, reviewing preliminary plans, and updating plans and specifications using AutoCAD and Microsoft software programs. Mr. Pinkley will fulfill this role on this project.</p> <p>Design of Stephenville Drainage System Improvements St. Martin Parish, LA The Parish received FEMA Hazard Mitigation funds to protect the area and install a new drainage pump station to handle flooding. PEEC was contracted to conduct the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), and prepare the technical report, preliminary plans, cost analysis, final design, and obtain all environmental permits. The drainage system improvements included a water tight system for all sewer manholes to prevent water from intruding the wastewater treatment system; installation of a flap gate at each of the outfalls to prevent flooding from reverse water flow in existing catch basins and outfalls when waterways rise; increasing pumping capacity of existing pump station by lining the sump area, reinforcing walls with sheet piling and replacing the existing pump with a larger capacity pump; installing 1,800 feet of sheet piles to the north side of the canal and a new drainage pump station designed for 160 CFS. Mr. Pinkley was responsible for plans and specifications associated with this project, calculating quantities and estimates, and preparing all needed documentation for advertising the project and the bid phase.</p> <p>Primrose (Ellington) Canal Road Crossing Culvert Replacement St. Charles Parish, LA PEEC provided engineering services to replace priority road crossing culverts along Primrose Canal. During significant rainfall events, reduced drainage capacity has resulted in street flooding along with several homes flooded in adjacent subdivisions. Our firm was responsible for preliminary and final design, bidding, construction management, close out and construction inspection services. Mr. Pinkley was responsible for plans and specifications associated with this project, calculating quantities and estimates, and preparing all needed documentation for advertising the project and the bid phase.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Larry Vicari
Project Assignment:
Construction Inspector
Name of Firm with which associated:
Professional Engineering and Environmental Consultants, Inc.
Years' experience with this Firm:
8
Education: Degree(s)/Year/Specialization:
Southeastern Louisiana University Continuing Education
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
<p>As a Construction Inspector, Mr. Vicari has been responsible for investigating the construction work at all stages to identify problems, report potential problems and take timely action to solve problems, and ensure completion of the project in a timely manner. Mr. Vicari will fulfill the role of Construction Inspector on this project.</p> <p>Primrose (Ellington) Canal Road Crossing Culvert Replacement St. Charles Parish, LA PEEC provided engineering services to replace priority road crossing culverts along Primrose Canal. Most of the culverts along this canal were old, failing, undersized, and needed replacing. During significant rainfall events, reduced drainage capacity has resulted in street flooding along with several homes flooded in adjacent subdivisions. With the available grant funding, PEEC was authorized to replace as many as possible, properly sized culverts capable of handling a 100-year rain event. Our firm was responsible for preliminary and final design, bidding, construction management, close out and construction inspection services. Mr. Vicari's responsibilities included observing and investigating construction at all stages to identify problems, report potential problems and takes timely action to solve problems; and inspecting all work in progress to ensure construction is in compliance with project plans and specifications.</p> <p>Canal 10 Drainage Improvements St. Charles Parish, LA PEEC provided engineering services to replace west bank high priority road crossing culverts. Many of these culverts located on large canals are either too small or have reached the end of their usual life. Engineering services included conducting a drainage study, determining appropriate size of replacements, design, bidding, and construction management. Mr. Vicari's responsibilities included observing and investigating construction at all stages to identify problems, report potential problems and takes timely action to solve problems; and inspecting all work in progress to ensure construction is in compliance with project plans and specifications.</p>

TEC Professional Services Questionnaire

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

PROJECT NO. 1

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Primrose (Ellington) Canal Road Crossing Culvert Replacement St. Charles Parish, LA St. Charles Parish Government 301 Third Street Luling, LA 70070 Sam Scholle (985) 783-5102	Engineering design of the entire project, hydraulic modeling, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2015	\$2,000,000	\$2,000,000

Project Description

PEEC provided engineering services to replace priority road crossing culverts along Primrose Canal. Most of the culverts along this canal were old, failing, undersized, and needed replacing. During significant rainfall events, reduced drainage capacity has resulted in street flooding along with several homes flooded in adjacent subdivisions. With the available grant funding, PEEC was authorized to replace as many as possible, properly sized culverts capable of handling a 100-year rain event. Our firm was responsible for preliminary and final design, bidding, construction management, close out and construction inspection services.



TEC Professional Services Questionnaire

PROJECT NO. 2		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Stephensville Drainage System Improvements St. Martin Parish, LA St. Martin Parish Government 301 West Port Street St. Martinville, LA 70582 Guy Cormier (337) 342-3995	Engineering design of the entire project, hydraulic modeling, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020	\$3,100,000	\$3,100,000

Project Description

This community incurs flooding on a regular basis as a result of heavy rainfall events and backwater flooding from the Atchafalaya River and coastal storm surge from the Gulf of Mexico. The Parish received FEMA Hazard Mitigation funds to protect the area and install a new drainage pump station to handle flooding. PEEC was contracted to conduct the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), and prepare the technical report, preliminary plans, cost analysis, final design, and obtain all environmental permits.

The drainage system improvements included a water tight system for all sewer manholes to prevent water from intruding the wastewater treatment system; installation of a flap gate at each of the outfalls to prevent flooding from reverse water flow in existing catch basins and outfalls when waterways rise; increasing pumping capacity of existing pump station by lining the sump area, reinforcing walls with sheet piles and replacing the existing pump with a larger capacity pump; installing 1,800 feet of sheet piles to the north side of the canal and a new drainage pump station designed for 160 CFS.



BAYOU ESTATE DRAINAGE IMPROVEMENTS

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Design of District 1 Drainage Improvements Lafourche Parish, LA Lafourche Parish Government 402 Green Street Thibodaux, LA 70301 Don Edwards (985) 696-5846	Engineering design of the entire project, hydraulic modeling, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2014	\$1,350,000	\$1,350,000

Project Description

During Hurricane Gustav the high tides, coupled with the heavy rainfall, forced storm waters back into the discharge pipes causing the pumps to operate improperly. As a result, pumps located in portions of Central Lafourche were forced to pump longer to decrease the water level on the outside of the system to allow the District 1 of 12 Pump Stations to pump water through the discharge pipe and relieve the standing water on the inside of the system. Lafourche Parish received funding under the CDBG Disaster Recovery Program to improve the existing pump stations in Drainage District 1. Environmental permits were prepared and submitted to the LA Corps of Engineers. Pre-Application discussions were engaged in with all participating regulatory agencies to obtain comments and make application adjustments as required. PEEC provided the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), preliminary plans, cost analysis, and final design. The design of the project includes installing 250 LF of steel sheet pile on both sides of an existing drainage levee to eliminate further erosion; installing 100 LF of 24" discharge pipe; 100 LF of 36" discharge pipe; 100 LF of 48" discharge pipe; rehabilitate existing pumps and engines; installing new trash screen to eliminate discharge of debris into the drainage canal; and installing new 24" electric pump, engine, and discharge pipe to increase the pumping capacity from 30,000 GPM to 60,000 GPM.



TEC Professional Services Questionnaire

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Design of District 2 Drainage Improvements Lafourche Parish, LA Lafourche Parish Government 402 Green Street Thibodaux, LA 70301 Don Edwards (985) 696-5846	Engineering design of the entire project, hydraulic modeling, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2014	\$1,395,000	\$1,395,000

Project Description

Lafourche Parish received funding under the CDBG Disaster Recovery Program to improve the existing pump stations in Drainage District 2. Due to age and deterioration of this pump station holes have formed in the discharge pipes. During Hurricane Gustav the pump station was not able to produce the necessary pumping capacity needed to relieve the standing water on the inside of the system. The many holes in the discharge pipe allow water to escape from the pipe before it reaches the outside of the system, thereby defeating the purpose of the pumps. Environmental permits were prepared and submitted to the LA Corps of Engineers. Pre-Application discussions were engaged in with all participating regulatory agencies to obtain comments and make application adjustments as required. PEEC provided the topographic survey, geotechnical analysis, hydraulics and hydrology study (H&H Study), preliminary plans, cost analysis, and final design.

The design of the project includes installing 200 linear feet of new 36" discharge pipe; rehabilitating the existing pumps and engines; installing a new trash screen to eliminate the discharge of debris into the drainage canal; installing new hand rail and lighting system to ensure worker safety; and refurbishing and installing a Parish-owned 48" pump. This project also included installing 250 feet of steel sheet pile on both sides of the existing drainage canal to eliminate erosion.



TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
West First Street Canal Drainage Improvements Belle Chasse, LA Plaquemines Parish Government 102 Avenue G Belle Chasse, LA 70037 Ken Dugas (504) 297-5343	Engineering design of the entire project, hydraulic modeling, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2009	\$11,000,000	\$11,000,000

Project Description

PEEC was contracted by Plaquemines Parish Government to study the runoff effects of recent improvements to the West First Street Canal made on the Naval Air Base in Belle Chasse, LA. The Parish and the Air Base agreed to conduct a computer modeling and analysis of the drainage basin and improve the West First Street Drainage Canal. **The focus of this study was to determine the cause of local erosion in the canal and design a drainage system to improve the existing condition.** The Parish and the Air Base have a contract which indicates the amount the Air Base shall pay the Parish annually for runoff originating on the Air Base draining into Parish canals. The Contract had not been modified for improvements or inflation since 1978. With the topographic information in hand, PEEC constructed a model of the drainage patterns of the area utilizing HEC-HMS. HECRAS was used to analyze the effects of a possible increase of discharge into local drainage ditches. The computer model indicated that the runoff calculations that were used for the contract were considerably lower than the figures that should have been used. To address this issue, **PEEC designed the conversion of the existing earthen canal to a concrete slope-paved canal to handle the increased discharge into the system and prevent future erosion.**



TEC Professional Services Questionnaire

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Duvic Canal Concrete Bridge and Reshaping Canal Plaquemines Parish, LA Plaquemines Parish Government 102 Avenue G Belle Chasse, LA 70037 Ken Dugas (504) 297-5343	Engineering design of the entire project, hydraulic modeling, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2005	\$750,000	\$750,000

Project Description

The project included bank stabilization and the design and installation of a new HS20-44 rated concrete bridge on Duvic Canal allowing heavy equipment to approach the flood wall and the drainage pump station for repair work. Environmental Permits were prepared and submitted to the Corps of Engineers. Pre-Application discussions were engaged in with all participating regulatory agencies to obtain comments and make application adjustments as required.

Geotechnical analysis of the native soils to determine foundation requirements, pile loading, and bedding requirements for improvements was obtained and analyzed by PEEC. **Our firm provided the preliminary and final design, plans and specifications, permitting, and managed the construction phase of this project.**



TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Replace Culverts at Willowdale and Beaupre Crossings St. Charles Parish, LA St. Charles Parish Government 301 Third Street Luling, LA 70070 Sam Scholle (985) 783-5102	Engineering design of the entire project, hydraulic modeling, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2013	\$312,000	\$312,000

Project Description

PEEC provided engineering services to replace priority road crossing culverts at Willowdale and Beaupre Blvd. where the roads cross the southernmost drainage canal. The project consisted of installation of 4' by 10' box culverts at Beaupre Drive, installation of 88" by 54" RCPA drainage pipe at Willowdale Blvd., construction of a new asphaltic roadway at Willowdale Blvd., construction of the concrete roadway at Beaupre Drive, construction of the concrete headwalls at Beaupre Drive, new drainage manhole and outfall pipe at Willowdale Blvd., and grouted riprap at both sites. Our firm was responsible for preliminary and final design, bidding, construction management, close out and construction inspection services.



TEC Professional Services Questionnaire

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Michael Drive Drainage Improvements St. Charles Parish, LA St. Charles Parish Government 15045 River Road Hahnville, LA 70057 Greg Schultz (985) 331-4473	Engineering design of the entire project, hydraulic modeling, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2011	\$180,000	\$180,000

Project Description

St. Charles Parish Government authorized PEEC to design and manage construction of the Michael Drive Drainage Improvements. This project included replacing the existing culverts with new concrete box culverts, providing erosion control material at each end of the culverts, and related roadway improvements.



TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Improvements to Drainage Pump Station No. 1 Belle Chasse, LA Plaquemines Parish Government 102 Avenue G Belle Chasse, LA 70037 Ken Dugas (504) 297-5343	Engineering design of the entire project, hydraulic modeling, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2001	\$454,000	\$454,000

Project Description

The Plaquemines Parish Drainage Department operates the Belle Chasse Drainage Pump Station which had a Caterpillar diesel engine with a 9,000 CFS pumping capacity. Four of the diesel engines were former submarine engines that were originally built in the early 1940's. Due to lack of available parts and sheer age, maintenance of the engines had become increasingly expensive. The department decided that the most cost-effective approach would be to remove the existing engines and replace them with modern diesel engines as funding would allow. The department was able to secure funding for the replacement of one of the engines. The Parish received proposals from engineering firms for the method and estimated cost for the replacement of the engine. **PEEC was awarded the contract to design the replacement of the engine. The unique aspect of PEEC's replacement method was the inclusion of an innovative system of permanent cranes within the building that allowed the Parish to remove the engines from within the building in lieu of expensive rental of a crane that would remove the engine from the outside of the pump station by removing wall panels and part of the roof. The major advantage of this design was that it also allowed the replacement of the other three engines as funding allowed without having to repay for crane rental. The crane also allowed the station operators to load and move other heavy equipment.** Prior to this movement of such items was cumbersome and dangerous. The new engine was a Caterpillar diesel engine.



TEC Professional Services Questionnaire

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Canal 10 Drainage Improvements St. Charles Parish, LA St. Charles Parish Government 301 Third Street Luling, LA 70070 Sam Scholle (985) 783-5102	Engineering design of the entire project, hydraulic modeling, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2013	\$1,000,000	\$200,000



Project Description

PEEC provided engineering services to replace west bank high priority road crossing culverts. Many of these culverts located on large canals are either too small or have reached the end of their usual life. Engineering services included conducting a drainage study, determining appropriate size of replacements, design, bidding, and construction management.



TEC Professional Services Questionnaire

Work by PEEC, Inc. performed directly for or selected by Jefferson Parish

PROJECT NO. 1		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Lafitte Library Conversion to the Police Station Project No. 576-26-0028 (331) Jefferson Parish Government 1221 Elmwood Park Blvd. Harahan, LA 70123	Engineering design of the entire project, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2010	\$550,000	\$550,000
<p>The existing Library at the Town of Lafitte was damaged during Hurricane Katrina and the Parish decided to convert the existing library into a Police Station and construct a new library for the Town of Lafitte. PEEC obtained all necessary data and permits for this project prior to start of construction. PEEC was responsible for application services, preliminary and final design, project plans and specifications, permit approvals, opinion of total project costs, bidding services, construction administration, topographic surveying, geotechnical engineering, and construction inspection.</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;">   </div>		

TEC Professional Services Questionnaire

PROJECT NO. 2		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Central Avenue Waterline Phase II Project No. 2014-001-WR Jefferson Parish Government 1221 Elmwood Park Blvd. Harahan, LA 70123	Engineering design of the entire project, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2016	\$2,000,000	\$2,000,000

Jefferson Parish Government contracted with PEEC to design and install a 12-inch waterline from Karen Avenue to Jefferson Highway along Central Avenue. PEEC obtained topographic surveying and locations of current improvements and utilities located in the area. Geotechnical analysis of the native soils to determine foundation and bedding requirements for the needed waterline was also required. Utilizing this information, the design of a solution was underway. PEEC is responsible for preliminary and final design, project plans and specifications, permit approvals, opinion of total project costs, bidding services, construction administration, topographic surveying, geotechnical engineering, and construction inspection.



TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Mt. Kennedy Drainage Improvements Project No. 2008-035-DR Jefferson Parish Government 1221 Elmwood Park Blvd. Harahan, LA 70123	Engineering design of the entire project, hydraulic modeling, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2015	\$4,000,000	\$4,000,000

Mt. Kennedy is a residential street located on the Westbank of Jefferson Parish, LA. The residents in the area have experienced street flooding during typical rain events and house and automobile flooding during significant rain events. Jefferson Parish Government contracted with PEEC to analyze the situation and determine the best possible solution to the problem. PEEC obtained topographic surveying and locations of current improvements in the area including drainage size and utility location of the drainage area. Geotechnical analysis of the native soils to determine foundation and bedding requirements for any needed drainage upgrades was also required. Utilizing this information, the design of a solution was underway. With the topographic information in hand, PEEC constructed a model of the drainage patterns of the area utilizing HEC-HMS. HEC-RAS was used to analyze the effects of a possible increase of discharge into local drainage ditches. Upon analysis of the existing conditions, collected data and modeling results, PEEC determined the best, most economical solution to the problem. A proposed drainage structure large enough to handle the calculated flow of a ten-year storm with no ponding will be installed at the dead-end area. All undersized existing catch basins and drain lines will be removed and replaced with new RCP pipes and manholes along the existing right of way and outfall into an existing ditch.



TEC Professional Services Questionnaire

PROJECT NO. 4

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Johnson Street Drainage Improvements Project No. 2003-038-DR Jefferson Parish Government 1221 Elmwood Park Blvd. Harahan, LA 70123	Engineering design of the entire project, hydraulic modeling, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2004	\$4,000,000	\$4,000,000

Johnson Street is a residential street located in Metairie, La. The end of the street dead-ends at the rear of a commercial facility. Since the development of the commercial facility, the residents in the area have experienced street flooding during typical rain events and house and automobile flooding during significant rain events. Jefferson Parish Government contracted with PEEC to analyze the situation and determine the best possible solution to the problem. PEEC obtained topographic surveying and locations of current improvements in the area including drainage size and utility location of the drainage area. Geotechnical analysis of the native soils to determine foundation and bedding requirements for any needed drainage upgrades was also required. Utilizing this information, the design of a solution was underway. With the topographic information in hand, PEEC constructed a model of the drainage patterns of the area utilizing HEC-HMS. HEC-RAS was used to analyze the effects of a possible increase of discharge into local drainage ditches. A portion of the proposed improvements had to be located within an existing railroad right of way. PEEC prepared all permit documentation in order to facilitate an entry agreement between Jefferson Parish Government and the Railroad company.

Phase I - Upon analysis of the existing conditions, collected data and modeling results, PEEC determined the best, most economical solution to the problem. A proposed drainage structure large enough to handle the calculated flow of a ten-year storm with no ponding was installed at the dead-end area. 1,250 feet of undersized existing catch basins and drain lines were removed and replaced with 42" RCP along the existing railroad right of way and outfall into an existing ditch. Phase II - Approximately 2,000 of 6x6 box culvert was placed into the existing outfall ditch to enhance flow and drainage of the entire drainage basin.



TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
6 th Street Drainage Improvements Jefferson Parish Government 1221 Elmwood Park Blvd. Harahan, LA 70123	Engineering design of the entire project, hydraulic modeling, cost analysis, permitting, and construction inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2008	\$300,000	\$300,000

6th Street is a residential street located in Marrero, La. The area has experienced street flooding during typical rain events and house and automobile flooding during significant rain events. Jefferson Parish Government contracted with PEEC to analyze the situation and determine the best possible solution to the problem. PEEC obtained topographic surveying and locations of current improvements in the area including drainage size and utility location of the drainage area. Geotechnical analysis of the native soils to determine foundation and bedding requirements for any needed drainage upgrades was also required. PEEC was responsible for application services, preliminary and final design, project plans and specifications, permit approvals, opinion of total project costs, bidding services, construction administration, topographic surveying, geotechnical engineering, and construction inspection.



TEC Professional Services Questionnaire

M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.		
Plaintiff:	Parties: Defendant:	Status/Result of Case:
1. 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.		
<p>1. Professional Qualifications: PEEC, Inc. is staffed with the right mix of engineers, technicians, administrators, and field personnel to successfully complete all types engineering projects. All the engineers listed are Louisiana certified registered engineers with extensive experience in their respective fields. The academic credentials of personnel range from B.S. to Ph.D. in civil, mechanical, electrical, structural, environmental engineering, land surveying, and in biological and geological sciences. Selected personnel also possess certification for underground storage tank (UST) closure, hazardous waste supervision, and as hazardous material technician. The CAD design department of PEEC, Inc. is well staffed with personnel with extensive experience in complex projects.</p> <p>2. Capacity for Timely Completion of Projects: The current work load of PEEC, Inc. is at the average level it has been for the past 3 years. Accordingly, with our track record of timely completion of projects, we feel that any proposed project will not pose any undue burden on the firm's resources. PEEC has completed all of its previous projects in a timely manner as directed by contract agreements.</p> <p>3. Quality Control Plan: PEEC has a Health, Safety, Security, and Environmental Policy (HSSE) in place in accordance with OSHA Standards and Regulations. Mo Saleh, M.S., P.E. (Principal) and Ron Guidry (President) are the Quality Control Managers for all projects. Their responsibilities in this position include manpower scheduling, budgeting, and technical oversight. Background research and engineering design performed by project engineers are checked by the QC Manager. Quality Control also includes verification of sample analysis results with expected value. All drafting output is checked by the QC Manager before submittal. Similarly, all surveying reports are checked, sealed, and signed by the registered land surveyor.</p> <p>4. PEEC, Inc. has all the necessary personnel with the appropriate qualifications and certifications to successfully complete the proposed project efficiently and within budget. As the following project list attests, PEEC has designed and managed numerous projects of similar size and type. The firm also possesses all the necessary computing, surveying, and office software to process field data and prepare design reports. PEEC has adequately trained personnel with extensive experience in the operation and field maintenance of all equipment.</p>		

TEC Professional Services Questionnaire

PEEC and its staff are experienced in completing FEMA funded projects and some of the similar projects are stated below:

1. Design and Computer Modeling for Master Drainage Plan in Belle Chasse.
2. Design of the Avenue G Pump Station in Plaquemines Parish.
3. Design of the Belle Chasse Drainage Pump Station in Plaquemines Parish.
4. Design of the Drainage Pump Stations in Grand Isle.
5. Design of the Drainage Pump Station for the City of Westwego.
6. Design of the Mt. Kennedy Drainage Improvements in Jefferson Parish.
7. Design of the Johnson Street Drainage Improvements in Jefferson Parish.
8. Design of the Dianne Pump Station Bar Screen in St. Charles Parish.

PEEC and its staff have extensive knowledge and experience in drainage projects. **PEEC has extensive experience in hydraulic modeling, watershed studies, impact studies, hydrologic surveying, and drainage work permitting.**

Some of these projects are stated below:

1. Hydraulic Modeling and Design of the Drainage System Improvements for Stephenville, LA in St. Martin Parish including the drainage pump stations, installing sheet piles, and design of an earthen levee system.
2. Hydraulic Modeling and Design of the Drainage System for the Town of Grand Isle, including the construction of the breakwaters and earthen levee system along with the drainage pump stations.
3. Hydraulic modeling and Design of the Drainage Improvements for the City of Westwego.
4. Harvey Canal Levee System Contingency Plan.
5. Hydraulic Modeling and Design of the Johnson Street Drainage Improvements in Jefferson Parish.
6. Hydraulic Modeling and Design of the Michael Drive Canal Improvements in St. Charles Parish.
7. Hydraulic Modeling and Design of the Willowdale Drainage Improvements in St. Charles Parish
8. Hydraulic Modeling and Design of the Primrose Drainage Improvements in St. Charles Parish
9. Hydraulic Modeling and Design of Canal Number 10 Drainage Improvements in St. Charles Parish
10. Hydraulic Modeling and Design of the Oak Street Drainage Study in St. Charles Parish
11. Hydraulic Modeling for the Master Drainage System for Belle Chasse Drainage Area in Plaquemines Parish
12. Hydraulic Modeling for the Master Drainage System for Engineers Road Drainage Area in Plaquemines Parish
13. Design of Bar Screen and Rake System for the Diane Pump Station in St. Charles Parish
14. Hydraulic Modeling and Drainage Design for Jesuit Bend Drainage Improvements in Plaquemines Parish
15. Hydraulic Modeling and Drainage Design for Main Street and Avenue G Drainage Improvements in Plaquemines Parish.

5. STATEMENT OF MAXIMUM FEE: PEEC's rates are established upon contract is awarded or per project but typically do not exceed 15% of the project's construction cost. PEEC will negotiate specific fees on a project-by-project basis with its clients.

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

Signature: Mo Saleh Print Name: Mo Saleh, M.S., P.E.

Title: Principal/Senior Project Engineer Date: January 20, 2021

Statement of Qualifications

AFFIDAVIT

STATE OF LOUISIANA

PARISH/COUNTY OF JEFFERSON

BEFORE ME, the undersigned authority, personally came and appeared: Mo Saleh, M.S., P.E. ,
(Affiant) who after being by me duly sworn, deposed and said that he/she is the fully authorized
Principal of Professional Engineering and Environmental Consultants, Inc. (Entity),
the party who submitted a Statement of Qualifications (SOQ) to provide routine engineering
services for Drainage Projects in Jefferson Parish for a two-year period. (Resolution No. 136765)
(Briefly describe the services the SOQ will cover), to the Parish of Jefferson.

Affiant further said:

Campaign Contribution Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A X

Attached hereto is a list of all campaign contributions, including the date and amount of each contribution, made to current or former elected officials of the Parish of Jefferson by Entity, Affiant, and/or officers, directors and owners, including employees, owning 25% or more of the Entity during the two-year period immediately preceding the date of this affidavit or the current term of the elected official, whichever is greater. Further, Entity, Affiant, and/or Entity Owners have not made any contributions to or in support of current or former members of the Jefferson Parish Council or the Jefferson Parish President through or in the name of another person or legal entity, either directly or indirectly.

Choice B

there are **NO** campaign contributions made which would require disclosure under Choice A of this section.

Affiant further said:

Debt Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all debts owed by the affiant to any elected or appointed official of the Parish of Jefferson, and any and all debts owed by any elected or appointed official of the Parish to the Affiant.

Choice B X There are **NO** debts which would require disclosure under Choice A of this section.

Affiant further said:

Solicitation of Campaign Contribution Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Attached hereto is a list of all elected officials of the Parish of Jefferson, whether still holding office at the time of the affidavit or not, where the elected official, individually, either by **telephone or by personal contact**, solicited a campaign contribution or other monetary consideration from the Entity, including the Entity's officers, directors and owners, and employees owning twenty-five percent (25%) or more of the Entity, during the two-year period immediately preceding the date the affidavit is signed. Further, to the extent known to the Affiant, the date of any such solicitation is included on the attached list.

Choice B X there are **NO** solicitations for campaign contributions which would require disclosure under Choice A of this section.

Affiant further said:

Subcontractor Disclosures

(Choose A or B, if option A is indicated please include the required attachment):

Choice A _____ Affiant further said that attached is a listing of all subcontractors, excluding full time employees, who may assist in providing professional services for the aforementioned SOQ.

Choice B X There are **NO** subcontractors which would require disclosure under Choice A of this section.

Affiant further said:

That Affiant has employed no person, corporation, firm, association, or other organization, either directly or indirectly, to secure the public contract under which he received payment, other than persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project or in securing the public contract were in the regular course of their duties for Affiant; and

[The remainder of this page is intentionally left blank.]

That no part of the contract price received by Affiant was paid or will be paid to any person, corporation, firm, association, or other organization for soliciting the contract, other than the payment of their normal compensation to persons regularly employed by the Affiant whose services in connection with the construction, alteration or demolition of the public building or project were in the regular course of their duties for Affiant.

Mo Saleh

Signature of Affiant

Mo Saleh, M.S., P.E.

Printed Name of Affiant

SWORN AND SUBSCRIBED TO BEFORE ME

ON THE 18th DAY OF January, 2021.

R. Cooper

Notary Public

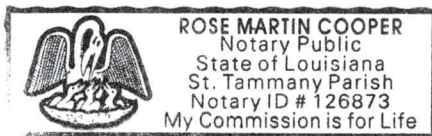
Rose M. Cooper

Printed Name of Notary

126873

Notary/Bar Roll Number

My commission expires With Death.



**POLITICAL CONTRIBUTIONS MADE TO JEFFERSON PARISH OFFICIALS
BY PROFESSIONAL ENGINEERING AND ENVIRONMENTAL CONSULTANTS, INC.
BETWEEN JULY 2019 AND PRESENT DAY**

[illegible]