

STATEMENT OF QUALIFICATIONS  
TO PROVIDE PROFESSIONAL ENGINEERING SERVICES  
RELATED TO THE DESIGN AND CONSTRUCTION OF THE  
AMES BOULEVARD LIGHTING PROJECT  
(LAPALCO TO BARATARIA)

SOQ NO. 25-007

RESOLUTION NO. 145729



MARCH 7, 2025

Prepared By:





March 7, 2025

Jefferson Parish Purchasing Department  
C/O Ms. Shanna Folse, Purchasing Specialist III  
Jefferson Parish General Government Building  
200 Derbigny Street, Suite 4400  
Gretna, LA 70053

**RE: AMES BOULEVARD LIGHTING PROJECT  
(LAPALCO TO BARATARIA)  
RESOLUTION NO. 145729**

Dear Ms. Folse,

It is our pleasure to submit this response to the Jefferson Parish Council's Request for Qualifications for Professional Engineering Services related to the Design and Construction of the Ames Boulevard Lighting Project (Lapalco to Barataria). PEEC, Inc. is a Civil and Environmental Engineering firm with over 31 years of experience in regard to design of streets and roadway systems, including new roadways, bridges, intersections, geometric layouts and computer modeling. 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.

Our technical ideas and engineering services for roadway design improvements have been used for numerous parishes and municipalities in southeast Louisiana including:

- Design of Johnson Street Drainage Improvements in Jefferson Parish, LA
- Design of Mt. Kennedy Street Drainage Improvements in Jefferson Parish, LA
- King Henry Estates Subdivision Drainage Improvements in Jefferson Parish, LA
- Diversified Foods Drive Roadway Construction in St. Tammany Parish, LA
- Stabilization of Tidewater Road in Plaquemines Parish, LA
- Four Lane New Roadway Project and Modification to the Intersection of LA Highway 1085 and 1077 in St. Tammany Parish, LA
- F. Edward Hebert Blvd. Roadway Design in Plaquemines Parish, LA
- Design of the Roundabout for LA Highway 1085 at Spice Road in St. Tammany Parish, LA
- Design of the Roundabout at Intersection of LA Highway 1085 and LA Highway 21 in St. Tammany Parish, LA
- Design of Roundabout for Roundabout LA Highway 1077 at Northpointe Road in St. Tammany Parish, LA

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 this opportunity to truly improve and enhance this high traffic area. If you have any questions regarding this matter, please contact our office at (504) 347-1900.

Sincerely,

A handwritten signature in blue ink, appearing to read "Mo Saleh". The signature is fluid and cursive, with the first letters of the first and last names being capitalized and prominent.

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

## **Executive Summary of Qualifications**

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. We have had an office located in the City of Westwego in Jefferson Parish since 1993 providing convenient access to the Parish and project sites. Our firm is very knowledgeable with the infrastructure on the West Bank and experienced with roadway design, drainage system design, planning, construction management, and project administration making PEEC a highly qualified firm to provide Professional Engineering Services related to the Design and Construction of the Ames Boulevard Lighting Project. (Lapalco to Barataria)

PEEC offers its clients a wide array of professional civil, environmental, and structural engineering services coupled with exceptional knowledge and experience regarding design of streets and roadway systems, including new roadways, bridges, intersections, geometric layouts, and computer modeling. 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 31 years, PEEC has developed an extensive inventory of background technical information on relevant characteristics which provide valuable information in preparation for street 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, and Sabine Parish 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 routine engineering and related services to Jefferson Parish for this project.

## TEC Professional Services Questionnaire

### A. Project Name and Advertisement Resolution Number:

Provide Professional Engineering Services related to the Design  
and Construction of the Ames Boulevard Lighting Project (Lapalco to Barataria)  
Resolution No. 145729

### B. Firm Name & Address:

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](mailto: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](mailto: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>      </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>  1  </u> Draftsman	<u>      </u> Grant/Funding Specialist
<u>  1  </u> Electrical Engineers	<u>      </u> Mechanical Engineers	<u>      </u> Sanitary Engineers
<u>      </u> Engineer Intern	<u>      </u> Environmental Engineers	
<u>  1  </u> Professional Land Surveyors		<b><u>10 TOTAL</u></b>

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

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

## TEC Professional Services Questionnaire

<b>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.</b>		
1. N/A		
2. N/A		
<b>H. Has this JOINT-VENTURE previously worked together? Please check: N / A</b> YES                      NO		
<b>I. List all subcontractors anticipated for this Project. Please note that <u>all subcontractors must submit a fully completed copy of this questionnaire</u>, 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 _____</b>		
<b>Name &amp; Address:</b>	<b>Specialty:</b>	<b>Worked with Firm Before (Yes or No):</b>
1.		
2.		
3.		
4.		
<b>J. Please specify the total number of support personnel that may assist in the completion of this Project:</b> _____ (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:**

Civil and Environmental Engineer

**Name of Firm with which associated:**

Professional Engineering and Environmental Consultants, Inc.

**Years' experience with this Firm:**

31

**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 (31) years of experience providing engineering services for the design of several major interstate highways (including I-49), bridges, roadways, and overpasses. His responsibilities included field investigations, mechanical, and structural design, preparation of specifications, roadway geometric design, drainage, funding process, construction administration and management, cost analysis, bid quantities, project coordination, and regulatory negotiations for obtaining the required permits. Mr. Saleh will assume the role of Civil and Environmental Engineer on any awarded projects.

At Professional Engineering and Environmental Consultants, Inc., Mr. Saleh's engineering services include providing technical expertise and assistance to many local cities and parish's including Jefferson Parish, City of Westwego, 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, Plaquemines Parish, St. Charles Parish, St. Bernard Parish and St. Tammany Parish.



## **TEC Professional Services Questionnaire**

### **F. Edward Hebert Boulevard Roadway Design**

PEEC was contracted by Plaquemines Parish Government to develop a feasibility and capacity analysis of this roadway. A traffic count and traffic analysis was conducted on the project area which is near an elementary school. It was determined that the best and most cost-effective solution was to design a dedicated turning lane for the school to improve the flow of traffic. Drainage improvements to the roadway were also part of this project. Using survey data obtained in the field, a three-dimensional model was generated to perform corridor modeling, geometric design, drainage system design, and utility relocation related to the improvements. 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.

### **Design of a Roundabout at Intersection of LA Highway 1085 and Ochsner Blvd.**

PEEC developed the feasibility and capacity analysis for this multilane roundabout. PEEC conducted the traffic study, designed the geometric layout, and performed the signal modification. Based on the traffic count, right and left turns were added and signal lighting was designed accordingly to facilitate a smooth flow of traffic. Our firm was fully responsible for this project including preliminary design, final design, preparation of plans and specifications, project management, and computer modeling of the traffic analysis. 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.

### **Design of Four Lane New Roadway and Modification to the Intersection of LA Highway 1085-1077**

PEEC, Inc. developed the feasibility and capacity analysis for (5) multilane roundabouts. ViSim Model utilized to help community visualize the smooth flow of the busy intersection and show reduced wait times when compared to a signal. Our firm was fully responsible for this project including geometric layout, preliminary design, final design, preparation of plans and specifications, project management, and computer modeling of the traffic analysis. 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.

### **Stabilization of Tidewater Road**

Tidewater Road is located in Venice, LA. The road is approximately three miles long and serves as the only access to many offshore related businesses in the area. The average roadway elevation is 2.5' NGVD and is bordered by open water areas on both the north and south side. During high tide and wind events, the surrounding water has reached as high as 4.5' NGVD causing standing water of nearly two feet on the roadway. This has caused extremely dangerous driving conditions for the local residents, workers, and emergency services. PEEC was contracted by Plaquemines Parish Government to analyze the existing situation and determine a solution to the flooding problem that would be both effective and economical for the Parish. PEEC performed historical data research of the tidal ranges and flood events over the past twenty years. PEEC also performed a topographic survey of the roadway. Additionally, a geotechnical investigation was conducted to determine soil consistency and load bearing capacity. Using the data collected and past experience with similar projects, PEEC analyzed four alternatives to alleviate the existing flood problem. Based on effectiveness and cost analysis, a project design was developed which would place earthen levees on each side of the road with crowns at 5.0' NGVD. Along with the levees a series of pump stations with backup generators were sized and spaced to remove rainwater from the roadway. Mr. Saleh was responsible for the design of the earthen levee system to protect the roadway and spacing and location of the pump stations.

### **LA Highway 41 Park and Ride Site**

PEEC, Inc. was hired to provide the line and grade study, develop existing cross sections and contour map of the site, boundary survey, geotechnical analysis, potential alignment and layout, wetland assessment, and 404 Permit application coordination with the USACE. 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**

### **LA Highway 59 Park and Ride Site**

PEEC, Inc. was hired to provide the line and grade study, develop existing cross sections and contour map of the site, boundary survey, geotechnical analysis, potential alignment and layout, wetland assessment, and 404 Permit application coordination with the USACE. 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.

### **Design of Diversified Foods Drive Roadway Project**

The project included the design of a four-lane roadway with a median constructed of concrete including all utilities. This HS-20 concrete roadway system was designed to withstand enough loading to handle heavy tractor-trailer traffic to and from the Diversified Foods facility. 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

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Ronald A. Guidry, President
<b>Project Assignment:</b>
Quality Control Manager
<b>Name of Firm with which associated:</b>
Professional Engineering and Environmental Consultants, Inc.
<b>Years' experience with this Firm:</b>
31
<b>Education: Degree(s)/Year/Specialization:</b>
Associate of Science, Drafting Eng. Technology, Delgado College, 1968
<b>Active registration: Year first registered/discipline:</b>
N/A
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Guidry has been an officer of Professional Engineering and Environmental Consultants, Inc. for over (22) 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 fulfill the role of Quality Control Manager for any awarded projects.</p> <p><b><u>F. Edward Hebert Boulevard Roadway Design</u></b></p> <p>PEEC was contracted by Plaquemines Parish Government to develop a feasibility and capacity analysis of this roadway. A traffic count and traffic analysis was conducted on the project area which is near an elementary school. It was determined that the best and most cost-effective solution was to design a dedicated turning lane for the school to improve the flow of traffic. Drainage improvements to the roadway were also part of this project. Using survey data obtained in the field, a three-dimensional model was generated to perform corridor modeling, geometric design, drainage system design, and utility relocation related to the improvements. 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><b><u>Design of a Roundabout at Intersection of LA Highway 1085 and Ochsner Blvd.</u></b></p> <p>PEEC developed the feasibility and capacity analysis for this multilane roundabout. PEEC conducted the traffic study, designed the geometric layout, and performed the signal modification. Based on the traffic count, right and left turns were added and signal lighting was designed accordingly to facilitate a smooth flow of traffic. Our firm was fully responsible for this project including preliminary design, final design, preparation of plans and specifications, project management, and computer modeling of the traffic analysis. 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**

### **Design of Four Lane New Roadway and Modification to the Intersection of LA Highway 1085-1077**

PEEC, Inc. developed the feasibility and capacity analysis for (5) multilane roundabouts. ViSim Model utilized to help community visualize the smooth flow of the busy intersection and show reduced wait times when compared to a signal. Our firm was fully responsible for this project including geometric layout, preliminary design, final design, preparation of plans and specifications, project management, and computer modeling of the traffic analysis. Mr. Guidry was responsible for cost analysis, project management, project inspection and project close-out.

### **Design of Diversified Foods Drive Roadway Project**

The project included the design of a four-lane roadway with a median constructed of concrete including all utilities. This HS-20 concrete roadway system was designed to withstand enough loading to handle heavy tractor-trailer traffic to and from the Diversified Foods facility. Mr. Guidry was responsible for cost analysis, project management, project inspection and project close-out.

### **Stabilization of Tidewater Road**

Tidewater Road is located in Venice, LA. The road is approximately three miles long and serves as the only access to many offshore related businesses in the area. The average roadway elevation is 2.5' NGVD and is bordered by open water areas on both the north and south side. During high tide and wind events, the surrounding water has reached as high as 4.5' NGVD causing standing water of nearly two feet on the roadway. This has caused extremely dangerous driving conditions for the local residents, workers, and emergency services. PEEC was contracted by Plaquemines Parish Government to analyze the existing situation and determine a solution to the flooding problem that would be both effective and economical for the Parish. PEEC performed historical data research of the tidal ranges and flood events over the past twenty years. PEEC also performed a topographic survey of the roadway. Additionally, a geotechnical investigation was conducted to determine soil consistency and load bearing capacity. Using the data collected and past experience with similar projects, PEEC analyzed four alternatives to alleviate the existing flood problem. Based on effectiveness and cost analysis, a project design was developed which would place earthen levees on each side of the road with crowns at 5.0' NGVD. Along with the levees a series of pump stations with backup generators were sized and spaced to remove rainwater from the roadway. Mr. Guidry was responsible for construction supervision and monitoring, instrumentation, drafting, architectural design, and planning.

State of Louisiana

## **TEC Professional Services Questionnaire**

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Delmar R. Caldwell, P.E.
<b>Project Assignment:</b>
Civil & Environmental Engineer
<b>Name of Firm with which associated:</b>
Professional Engineering and Environmental Consultants, Inc.
<b>Years' experience with this Firm:</b>
31
<b>Education: Degree(s)/Year/Specialization:</b>
B.S., Civil Engineering, Tulane University, 1982
<b>Active registration: Year first registered/discipline:</b>
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.
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Caldwell is a registered Civil Engineer with more than (31) 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 has been involved with the Brownfields programs and securing grants from EPA for the City of Westwego. Mr. Caldwell was responsible for administering the entire program including identifying the under developed and contaminated sites. This included a complete Environmental assessment, impact, clean up and permitting under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA). Mr. Caldwell will fulfill the role of Civil and Environmental Engineer on any awarded projects.</p> <p><b><u>F. Edward Hebert Boulevard Roadway Design</u></b></p> <p>PEEC was contracted by Plaquemines Parish Government to develop a feasibility and capacity analysis of this roadway. A traffic count and traffic analysis was conducted on the project area which is near an elementary school. It was determined that the best and most cost-effective solution was to design a dedicated turning lane for the school to improve the flow of traffic. Drainage improvements to the roadway were also part of this project. Using survey data obtained in the field, a three-dimensional model was generated to perform corridor modeling, geometric design, drainage system design, and utility relocation related to the improvements. Mr. Caldwell was responsible for preparation of plans and specifications, project administration, and construction management.</p>

## **TEC Professional Services Questionnaire**

### **Design of a Roundabout at Intersection of LA Highway 1085 and Ochsner Blvd.**

PEEC developed the feasibility and capacity analysis for this multilane roundabout. PEEC conducted the traffic study, designed the geometric layout, and performed the signal modification. Based on the traffic count, right and left turns were added and signal lighting was designed accordingly to facilitate a smooth flow of traffic. Our firm was fully responsible for this project including preliminary design, final design, preparation of plans and specifications, project management, and computer modeling of the traffic analysis. 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.

### **LA Highway 59 Park and Ride Site**

PEEC, Inc. was hired to provide the line and grade study, develop existing cross sections and contour map of the site, boundary survey, geotechnical analysis, potential alignment and layout, wetland assessment, and 404 Permit application coordination with the USACE. 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.

### **Design of Four Lane New Roadway and Modification to the Intersection of LA Highway 1085-1077**

PEEC, Inc. developed the feasibility and capacity analysis for (5) multilane roundabouts. ViSim Model utilized to help community visualize the smooth flow of the busy intersection and show reduced wait times when compared to a signal. Our firm was fully responsible for this project including geometric layout, preliminary design, final design, preparation of plans and specifications, project management, and computer modeling of the traffic analysis. 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.

### **Design of Diversified Foods Drive Roadway Project**

The project included the design of a four-lane roadway with a median constructed of concrete including all utilities. This HS-20 concrete roadway system was designed to withstand enough loading to handle heavy tractor-trailer traffic to and from the Diversified Foods facility. 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.

### **Stabilization of Tidewater Road**

Tidewater Road is located in Venice, LA. The road is approximately three miles long and serves as the only access to many offshore related businesses in the area. The average roadway elevation is 2.5' NGVD and is bordered by open water areas on both the north and south side. During high tide and wind events, the surrounding water has reached as high as 4.5' NGVD causing standing water of nearly two feet on the roadway. This has caused extremely dangerous driving conditions for the local residents, workers, and emergency services. PEEC was contracted by Plaquemines Parish Government to analyze the existing situation and determine a solution to the flooding problem that would be both effective and economical for the Parish. PEEC performed historical data research of the tidal ranges and flood events over the past twenty years. PEEC also performed a topographic survey of the roadway. Additionally, a geotechnical investigation was conducted to determine soil consistency and load bearing capacity. Using the data collected and past experience with similar projects, PEEC analyzed four alternatives to alleviate the existing flood problem. Based on effectiveness and cost analysis, a project design was developed which would place earthen levees on each side of the road with crowns at 5.0' NGVD. Along with the levees a series of pump stations with backup generators were sized and spaced to remove rainwater from the roadway. Mr. Caldwell was responsible for the drainage study, project coordination, mechanical and subsurface drainage system, and preparation of the specifications.



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Al Almassi
<b>Project Assignment:</b>
Civil Engineer
<b>Name of Firm with which associated:</b>
Professional Engineering and Environmental Consultants, Inc.
<b>Years' experience with this Firm:</b>
28
<b>Education: Degree(s)/Year/Specialization:</b>
B.S., Civil Engineering, University of New Orleans, 1983
<b>Active registration: Year first registered/discipline:</b>
P.E. Texas
<b>Other experience and qualifications relevant to the proposed Project:</b>
<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 on any awarded projects.</p> <p><b><u>LA Highway 59 Park and Ride Site</u></b></p> <p>PEEC, Inc. was hired to provide the line and grade study, develop existing cross sections and contour map of the site, boundary survey, geotechnical analysis, potential alignment and layout, wetland assessment, and 404 Permit application coordination with the USACE. 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. 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><b><u>Design of Four Lane New Roadway and Modification to the Intersection of LA Highway 1085-1077</u></b></p> <p>PEEC, Inc. developed the feasibility and capacity analysis for (5) multilane roundabouts. ViSim Model utilized to help community visualize the smooth flow of the busy intersection and show reduced wait times when compared to a signal. Our firm was fully responsible for this project including geometric layout, preliminary design, final design, preparation of plans and specifications, project management, and computer modeling of the traffic analysis. 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><b><u>Design of Diversified Foods Drive Roadway Project</u></b></p> <p>The project included the design of a four-lane roadway with a median constructed of concrete including all utilities. This HS-20 concrete roadway system was designed to withstand enough loading to handle heavy tractor-trailer traffic to and from the Diversified Foods facility. 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>

## **TEC Professional Services Questionnaire**

### **Stabilization of Tidewater Road**

Tidewater Road is located in Venice, LA. The road is approximately three miles long and serves as the only access to many offshore related businesses in the area. The average roadway elevation is 2.5' NGVD and is bordered by open water areas on both the north and south side. During high tide and wind events, the surrounding water has reached as high as 4.5' NGVD causing standing water of nearly two feet on the roadway. This has caused extremely dangerous driving conditions for the local residents, workers, and emergency services. PEEC was contracted by Plaquemines Parish Government to analyze the existing situation and determine a solution to the flooding problem that would be both effective and economical for the Parish. PEEC performed historical data research of the tidal ranges and flood events over the past twenty years. PEEC also performed a topographic survey of the roadway. Additionally, a geotechnical investigation was conducted to determine soil consistency and load bearing capacity. Using the data collected and past experience with similar projects, PEEC analyzed four alternatives to alleviate the existing flood problem. Based on effectiveness and cost analysis, a project design was developed which would place earthen levees on each side of the road with crowns at 5.0' NGVD. Along with the levees a series of pump stations with backup generators were sized and spaced to remove rainwater from the roadway. 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

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Wes Faulkner, P.E.
<b>Project Assignment:</b>
Electrical Engineer
<b>Name of Firm with which associated:</b>
Professional Engineering and Environmental Consultants, Inc.
<b>Years' experience with this Firm:</b>
19
<b>Education: Degree(s)/Year/Specialization:</b>
B.S., 1964, Electrical Engineering, Louisiana State University
<b>Active registration: Year first registered/discipline:</b>
1966, Electrical Engineering, Louisiana No. 10110
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Faulkner has over 35 years of experience designing lighting, power and control systems for commercial and industrial projects. 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 &amp; Plumbing design of several Jefferson Parish government and also Jefferson Parish School board projects. Mr. Faulkner will assume the role of Electrical Engineer on any projects.</p> <p><b><u>F. Edward Hebert Boulevard Roadway Design</u></b></p> <p>PEEC was contracted by Plaquemines Parish Government to develop a feasibility and capacity analysis of this roadway. A traffic count and traffic analysis was conducted on the project area which is near an elementary school. It was determined that the best and most cost-effective solution was to design a dedicated turning lane for the school to improve the flow of traffic. Drainage improvements to the roadway were also part of this project. Using survey data obtained in the field, a three-dimensional model was generated to perform corridor modeling, geometric design, drainage system design, and utility relocation related to the improvements. Mr. Faulkner was responsible for electrical systems, electrical specifications, utility relocation, and cost analysis.</p> <p><b><u>Design of Diversified Foods Drive Roadway Project</u></b></p> <p>The project included the design of a four-lane roadway with a median constructed of concrete including all utilities. This HS-20 concrete roadway system was designed to withstand enough loading to handle heavy tractor-trailer traffic to and from the Diversified Foods facility. Mr. Faulkner was responsible for electrical systems, electrical specifications, utility relocation, and cost analysis.</p>

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Jeff Meyers
<b>Project Assignment:</b>
Project Manager
<b>Name of Firm with which associated:</b>
Professional Engineering and Environmental Consultants, Inc.
<b>Years' experience with this Firm:</b>
19
<b>Education: Degree(s)/Year/Specialization:</b>
Associates in Drafting and Design, Southeastern Louisiana University, 1999
<b>Active registration: Year first registered/discipline:</b>
N/A
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Meyers has been a Project Manager for several Civil and Environmental 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 fulfill the role of Project Manager on any awarded projects.</p> <p><b><u>F. Edward Hebert Boulevard Roadway Design</u></b></p> <p>PEEC was contracted by Plaquemines Parish Government to develop a feasibility and capacity analysis of this roadway. A traffic count and traffic analysis was conducted on the project area which is near an elementary school. It was determined that the best and most cost-effective solution was to design a dedicated turning lane for the school to improve the flow of traffic. Drainage improvements to the roadway were also part of this project. Using survey data obtained in the field, a three-dimensional model was generated to perform corridor modeling, geometric design, drainage system design, and utility relocation related to the improvements. Mr. Meyers was responsible for the topographical surveying, cost analysis, coordination and design of the project including data conversion, computer mapping, and field investigation.</p> <p><b><u>LA Highway 59 Park and Ride Site</u></b></p> <p>PEEC, Inc. was hired to provide the line and grade study, develop existing cross sections and contour map of the site, boundary survey, geotechnical analysis, potential alignment and layout, wetland assessment, and 404 Permit application coordination with the USACE. 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 Four Lane New Roadway and Modification to the Intersection of LA Highway 1085-1077**

PEEC, Inc. developed the feasibility and capacity analysis for (5) multilane roundabouts. ViSim Model utilized to help community visualize the smooth flow of the busy intersection and show reduced wait times when compared to a signal. Our firm was fully responsible for this project including geometric layout, preliminary design, final design, preparation of plans and specifications, project management, and computer modeling of the traffic analysis. 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 Diversified Foods Drive Roadway Project**

The project included the design of a four-lane roadway with a median constructed of concrete including all utilities. This HS-20 concrete roadway system was designed to withstand enough loading to handle heavy tractor-trailer traffic to and from the Diversified Foods facility. 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

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Stephen Blaskey, P.L.S.
<b>Project Assignment:</b>
Lead Surveyor
<b>Name of Firm with which associated:</b>
Professional Engineering and Environmental Consultants, Inc.
<b>Years' experience with this Firm:</b>
13
<b>Education: Degree(s)/Year/Specialization:</b>
B.S./ 2004 Texas A&M University – Corpus Christi/Geographic Information Science with a Specialization in Geomatics
<b>Active registration: Year first registered/discipline:</b>
Louisiana P.L.S. License No. 5107 – Land Surveyor
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Blaskey has over four 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 Lead Surveyor and oversee all necessary surveying.</p> <p><b><u>F. Edward Hebert Boulevard Roadway Design</u></b> PEEC was contracted by Plaquemines Parish Government to develop a feasibility and capacity analysis of this roadway. A traffic count and traffic analysis was conducted on the project area which is near an elementary school. It was determined that the best and most cost-effective solution was to design a dedicated turning lane for the school to improve the flow of traffic. Drainage improvements to the roadway were also part of this project. Using survey data obtained in the field, a three-dimensional model was generated to perform corridor modeling, geometric design, drainage system design, and utility relocation related to the improvements. Mr. Blaskey's responsibilities included elevation surveys, boundary calculations, and identifying existing pipelines located at the project site.</p> <p><b><u>LA Highway 59 Park and Ride Site</u></b> PEEC, Inc. was hired to provide the line and grade study, develop existing cross sections and contour map of the site, boundary survey, geotechnical analysis, potential alignment and layout, wetland assessment, and 404 Permit application coordination with the USACE. Mr. Blaskey's responsibilities included elevation surveys, boundary calculations, and identifying existing pipelines located at the project site.</p>

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
James Blanchard
<b>Project Assignment:</b>
Project Administrator
<b>Name of Firm with which associated:</b>
Professional Engineering and Environmental Consultants, Inc.
<b>Years' experience with this Firm:</b>
13
<b>Education: Degree(s)/Year/Specialization:</b>
B.G.S./2001 University of New Orleans/Science
<b>Active registration: Year first registered/discipline:</b>
N/A
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>As Project Administrator, Mr. Blanchard is responsible for environmental 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 the role of Project Administrator on any awarded projects.</p> <p><b><u>F. Edward Hebert Boulevard Roadway Design</u></b></p> <p>PEEC was contracted by Plaquemines Parish Government to develop a feasibility and capacity analysis of this roadway. A traffic count and traffic analysis was conducted on the project area which is near an elementary school. It was determined that the best and most cost-effective solution was to design a dedicated turning lane for the school to improve the flow of traffic. Drainage improvements to the roadway were also part of this project. Using survey data obtained in the field, a three-dimensional model was generated to perform corridor modeling, geometric design, drainage system design, and utility relocation related to the improvements. 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> <p><b><u>LA Highway 41 Park and Ride Site</u></b></p> <p>PEEC, Inc. was hired to provide the line and grade study, develop existing cross sections and contour map of the site, boundary survey, geotechnical analysis, potential alignment and layout, wetland assessment, and 404 Permit application coordination with the USACE. 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>

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Derek Pinkley
<b>Project Assignment:</b>
Draftsman/AutoCAD Technician
<b>Name of Firm with which associated:</b>
Professional Engineering and Environmental Consultants, Inc.
<b>Years' experience with this Firm:</b>
14
<b>Education: Degree(s)/Year/Specialization:</b>
B.S. in Computer Science American International University
<b>Active registration: Year first registered/discipline:</b>
N/A
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>As a Draftsman, Mr. Pinkley is responsible for detail design of architectural, structural, mechanical, and electrical drawings using AutoCAD and Microsoft software programs. Mr. Pinkley will fulfill the role of Draftsman on any awarded projects.</p> <p><b><u>F. Edward Hebert Boulevard Roadway Design</u></b> PEEC was contracted by Plaquemines Parish Government to develop a feasibility and capacity analysis of this roadway. A traffic count and traffic analysis was conducted on the project area which is near an elementary school. It was determined that the best and most cost-effective solution was to design a dedicated turning lane for the school to improve the flow of traffic. Drainage improvements to the roadway were also part of this project. Using survey data obtained in the field, a three-dimensional model was generated to perform corridor modeling, geometric design, drainage system design, and utility relocation related to the improvements. Mr. Pinkley's responsibilities included creating AutoCAD drawings of the site plans and specifications for the waterline.</p> <p><b><u>LA Highway 59 Park and Ride Site</u></b> PEEC, Inc. was hired to provide the line and grade study, develop existing cross sections and contour map of the site, boundary survey, geotechnical analysis, potential alignment and layout, wetland assessment, and 404 Permit application coordination with the USACE. Mr. Pinkley was responsible for the AutoCAD drawings and assisting the engineers with the permit applications and topographical surveying.</p>



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
John Domingue
<b>Project Assignment:</b>
Construction Inspector
<b>Name of Firm with which associated:</b>
Professional Engineering and Environmental Consultants, Inc.
<b>Years' experience with this Firm:</b>
12
<b>Education: Degree(s)/Year/Specialization:</b>
Southeastern Louisiana University Continuing Education
<b>Active registration: Year first registered/discipline:</b>
N/A
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>As a Construction Inspector, Mr. Domingue 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. Domingue will fulfill the role of Construction Inspector on any awarded projects.</p> <p><b><u>F. Edward Hebert Boulevard Roadway Design</u></b> PEEC was contracted by Plaquemines Parish Government to develop a feasibility and capacity analysis of this roadway. A traffic count and traffic analysis was conducted on the project area which is near an elementary school. It was determined that the best and most cost-effective solution was to design a dedicated turning lane for the school to improve the flow of traffic. Drainage improvements to the roadway were also part of this project. Using survey data obtained in the field, a three-dimensional model was generated to perform corridor modeling, geometric design, drainage system design, and utility relocation related to the improvements. Mr. Domingue'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><b><u>LA Highway 41 Park and Ride Site</u></b> PEEC, Inc. was hired to provide the line and grade study, develop existing cross sections and contour map of the site, boundary survey, geotechnical analysis, potential alignment and layout, wetland assessment, and 404 Permit application coordination with the USACE. Mr. Domingue'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>



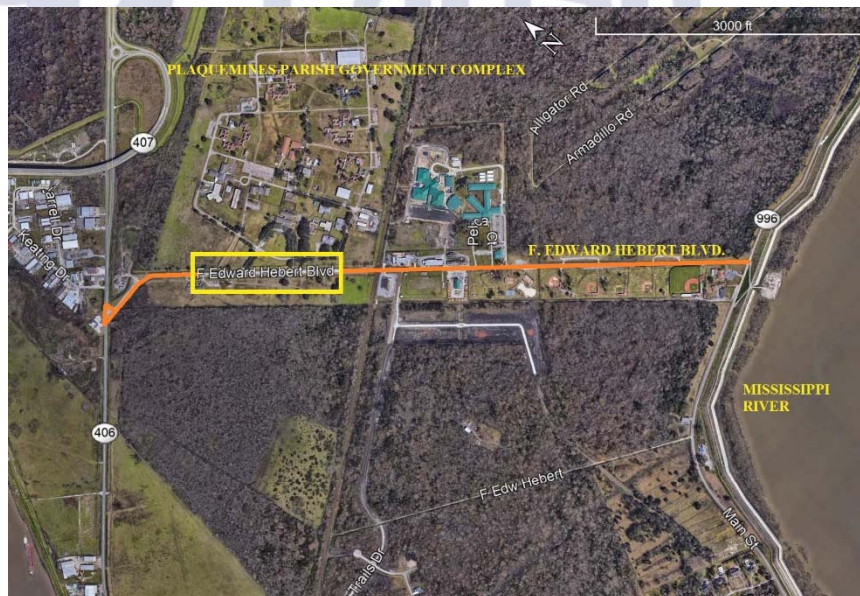
## TEC Professional Services Questionnaire

### PROJECT NO. 1

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>F. Edward Hebert Boulevard Roadway Design State Project No. 742-38-0006</p> <p>Plaquemines Parish Government 102 Avenue G Belle Chasse, LA 70037 Ken Dugas (504) 297-5349</p>	<p>Engineering Design, Hydraulic Modeling, Permitting, and Construction Management</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2013	\$2,000,000	\$2,000,000

PEEC was contracted by Plaquemines Parish Government to develop a feasibility and capacity analysis of this roadway. A traffic count and traffic analysis was conducted on the project area which is near an elementary school. It was determined that the best and most cost-effective solution was to design a dedicated turning lane for the school to improve the flow of traffic. Drainage improvements to the roadway were also part of this project. Using survey data obtained in the field, a three-dimensional model was generated to perform corridor modeling, geometric design, drainage system design, and utility relocation related to the improvements.

Our firm was fully responsible for this project including preliminary design, final design, preparation of plans and specifications, project management, and computer modeling of the traffic analysis.



## TEC Professional Services Questionnaire

<b>PROJECT NO. 2</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
Stabilization of Tidewater Road  Plaquemines Parish Government 102 Avenue G Belle Chasse, LA 70037 Ken Dugas (504) 297-5343	Engineering Design, Hydraulic Modeling, Permitting, and Construction Management	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2005	\$2,000,000	\$2,000,000

Tidewater Road is located in Venice, LA. The road is approximately three miles long and serves as the only access to many offshore related businesses in the area. The average roadway elevation is 2.5' NGVD and is bordered by open water areas on both the north and south side. **During high tide and wind events, the surrounding water has reached as high as 4.5' NGVD causing standing water of nearly two feet on the roadway.** This has caused extremely dangerous driving conditions for the local residents, workers, and emergency services. PEEC was contracted by Plaquemines Parish Government to analyze the existing situation and determine a solution to the flooding problem that would be both effective and economical for the Parish. PEEC performed historical data research of the tidal ranges and flood events over the past twenty years. PEEC also performed a topographic survey of the roadway. Additionally, a geotechnical investigation was conducted to determine soil consistency and load bearing capacity. Using the data collected and past experience with similar projects, PEEC analyzed four alternatives to alleviate the existing flood problem. **Based on effectiveness and cost analysis, a project design was developed which would place earthen levees on each side of the road with crowns at 5.0' NGVD. Along with the levees a series of pump stations with backup generators were sized and spaced to remove rainwater from the roadway.**





## TEC Professional Services Questionnaire

<b>PROJECT NO. 3</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
Design of a Roundabout at Intersection of LA Highway 1085 and LA Highway 1077  St. Tammany Parish Government P.O. Box 628 Covington, LA 70434 Eddie Williams (985) 898-2552	Engineering Design, Hydraulic Modeling, Permitting, and Construction Management	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2010	\$500,000	\$500,000
<p>PEEC developed the feasibility and capacity analysis for this multilane roundabout. PEEC conducted the traffic study, designed the geometric layout, and performed the signal modification. Based on the traffic count, right and left turns were added, and signal lighting was designed accordingly to facilitate a smooth flow of traffic.</p> <p>Our firm was fully responsible for this project including preliminary design, final design, preparation of plans and specifications, project management, and computer modeling of the traffic analysis.</p>		
		




## TEC Professional Services Questionnaire

<b>PROJECT NO. 4</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
Design of Diversified Foods Drive Roadway Project  St. Tammany Parish Government P.O. Box 628 Covington, LA 70434 Eddie Williams (985) 898-2552	Engineering Design, Hydraulic Modeling, Permitting, and Construction Management	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2010	\$500,000	\$500,000
<div style="display: flex; justify-content: space-between;"> <div style="width: 40%;"> <p>The project included the design of a four-lane roadway with a median constructed of concrete including all utilities. <b>This HS-20 concrete roadway system was designed to withstand enough loading to handle heavy tractor-trailer traffic to and from the Diversified Foods facility.</b></p> <p>Our firm was fully responsible for this project including preliminary design, final design, preparation of plans and specifications, project management, project inspection and project close-out.</p> </div> <div style="width: 55%;">   </div> </div>		

## TEC Professional Services Questionnaire



<b>PROJECT NO. 5</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
Design of a Roundabout at Intersection of LA Highway 1085 and Ochsner Blvd.  St. Tammany Parish Government P.O. Box 628 Covington, LA 70434 Eddie Williams (985) 898-2552	Engineering Design, Hydraulic Modeling, Permitting, and Construction Management	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2010	\$500,000	\$500,000
<p>PEEC developed the feasibility and capacity analysis for this multilane roundabout. <b>PEEC conducted the traffic study, designed the geometric layout, and performed the signal modification. Based on the traffic count, right and left turns were added, and signal lighting was designed accordingly to facilitate a smooth flow of traffic.</b></p> <p>Our firm was fully responsible for this project including preliminary design, final design, preparation of plans and specifications, project management, and computer modeling of the traffic analysis.</p> <div style="text-align: center; margin-top: 20px;">  </div>		

## TEC Professional Services Questionnaire

<b>PROJECT NO. 6</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
Design of Johnson Street Drainage Improvements  Jefferson Parish Government 1221 Elmwood Park Blvd. Harahan, LA 70123 Jerry Defraites (504) 347-5745	Engineering Design, Hydraulic Modeling, Permitting, and Construction Management	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2005	\$1,200	\$1,200
<p>Residents in the area 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. <b>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.</b> 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. Upon analysis of the existing conditions, collected data, and modeling results, PEEC determined the best, most economical solution to the problem was a drainage structure large enough to handle the calculated flow of a ten-year storm without any ponding where the street comes to a dead end. <b>Approximately 1,250 feet of undersized existing catch basins and drain lines were removed and replaced with 42-inch RCP along the existing railroad right of way and outfall into an existing ditch. Additionally, 2,000 feet of 6x6 box culvert was placed into the existing outfall ditch to enhance flow and drainage of the entire drainage basin.</b></p> <div style="text-align: center;">  </div>		



## TEC Professional Services Questionnaire

<b>PROJECT NO. 7</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
Design of Mt. Kennedy Street Drainage Improvements  Jefferson Parish Government 1221 Elmwood Park Blvd. Harahan, LA 70123 Jerry Defraites (504) 347-5745	Engineering Design, Hydraulic Modeling, Permitting, and Construction Management	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2014	\$4,000,000	\$4,000,000
<p>Mt. Kennedy is a residential street located on the west bank of the Mississippi River in Jefferson Parish, LA. The residents in the area have experienced street flooding during typical 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. <b>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.</b> PEEC designed a drainage structure large enough to handle the calculated flow of a ten-year storm without any ponding to be installed where the street comes to a dead end. <b>All undersized existing catch basins and drain lines are being removed and replaced with new RCP pipes and manholes along the existing right of way and outfall into an existing ditch. Additionally, 2,000 feet of 10-inch sewer force main is being installed to convey the wastewater.</b></p> <div style="display: flex; justify-content: space-around; align-items: flex-start;">   </div>		



## TEC Professional Services Questionnaire


<b>PROJECT NO. 8</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
Design of Duvic Canal Concrete Bridge and Reshaping Canal  Plaquemines Parish Government 102 Avenue G Belle Chasse, LA 70037 Ken Dugas (504) 297-5343	Engineering Design, Hydraulic Modeling, Permitting, and Construction Management	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2005	\$750,000	\$750,000

**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

<b>PROJECT NO. 9</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p style="text-align: center;">LA Highway 41 Park and Ride Site</p> <p>St. Tammany Parish Government P.O. Box 628 Covington, LA 70434 Eddie Williams (985) 898-2552</p>	<p>Engineering Design, Hydraulic Modeling, Permitting, and Construction Management</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2013	\$1,500,000	\$1,500,000
<p>PEEC, Inc. was hired to provide the line and grade study, develop existing cross sections and contour map of the site, boundary survey, geotechnical analysis, potential alignment and layout, wetland assessment, and 404 Permit application coordination with the USACE. PEEC, Inc. was fully responsible for this project design, preparation of plans and specifications, project management, and construction inspection.</p> <div style="text-align: center; margin-top: 20px;">  </div>		

## TEC Professional Services Questionnaire

### PROJECT NO. 10

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p style="text-align: center;">LA Highway 59 Park and Ride Site</p> <p style="text-align: center;">St. Tammany Parish Government P.O. Box 628 Covington, LA 70434 (985) 898-2552</p>	<p style="text-align: center;">Engineering Design, Hydraulic Modeling, Permitting, and Construction Management</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
<p style="text-align: center;">2011</p>	Entire Project:	Work for which Firm was Responsible:
	<p style="text-align: center;">\$1,500,000</p>	

PEEC, Inc. was hired to provide the line and grade study, develop existing cross sections and contour map of the site, boundary survey, geotechnical analysis, potential alignment and layout, wetland assessment, and 404 Permit application coordination with the USACE. PEEC, Inc. was fully responsible for this project design, preparation of plans and specifications, project management, and construction inspection.



## TEC Professional Services Questionnaire

<b>M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary.</b>		
<b>Parties:</b>		<b>Status/Result of Case:</b>
<b>Plaintiff:</b>	<b>Defendant:</b>	
1. NONE		
2.		
3.		
4.		
<b>N. Use this space to provide any additional information or description of resources supporting Firm's qualifications for the proposed project.</b>		
<ol style="list-style-type: none"> <li>1. Minimum Personnel Requirement: PEEC, Inc. has been providing the most advanced technological solutions for water treatment process to its clients through its well qualified engineers and has performed the projects very efficiently and within budget. As the attached project list attests, PEEC has designed and managed numerous projects of similar size and type. PEEC has been involved as part of several design teams providing its expertise in the design of water treatment and distribution system.</li> <li>2. Minimum Equipment Requirement: PEEC, Inc.'s equipment inventory includes latest state-of-the-art equipment. The firm also possesses all the necessary computing, surveying, and computer software to process field data to conduct computer modeling and prepare design reports. PEEC has adequately trained personnel with extensive experience in the operation and field maintenance of all equipment.</li> <li>3. 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.</li> <li>4. 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.</li> </ol>		



## TEC Professional Services Questionnaire

5. Knowledge of Project Area: PEEC, Inc. is located in Westwego, which is on the West Bank of the Mississippi River, and very close to the project area. The firm has been involved in many projects in the Greater New Orleans Area in the past and is intimately familiar with the project area. All of PEEC, Inc.'s staff also lives in the immediate vicinity of the office location, and are as such familiar with the project area. Past engineering projects in the area have helped PEEC in building up an extensive inventory of background technical information on relevant characteristics of the area, which will be invaluable in preparation for the project design tasks.
6. Past Performance: PEEC, Inc. has successfully completed engineering design, construction management, and surveying services for clients such as Jefferson Parish, Town of Grand Isle, St. Tammany Parish, City of Westwego, Grand Isle Independent Levee District, West Jefferson Levee District, Louisiana Department of Natural Resources, City of Morgan City, Texas Parks and Wildlife, Plaquemines Parish, St. Bernard Parish, St. Charles Parish, the Town of Zwolle and numerous private clients in the past. The firm has performed all assigned tasks on or before time and within the allotted budget. PEEC, Inc. will provide further information and references upon request. PEEC has not been involved in any litigation with Jefferson Parish or any present or past clients.
7. Quality Control Plan: Mo Saleh, P.E. and Ron Guidry 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 periodically 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 prior to submittal. The detailed Quality Control Plan will be furnished upon request.
8. 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: March 7, 2025



Division of Small and Emerging Business Development  
**SEBD CERTIFICATION**

## Professional Engineering and Environmental Consultants, Inc.

is hereby certified as a Small and Emerging Business Enterprise.

This certification is valid beginning 7/26/2021 and supersedes any registration or listing previously issued. At any time there is a change in ownership or control of the firm, notification must be made immediately to the Division of Small and Emerging Business Development.

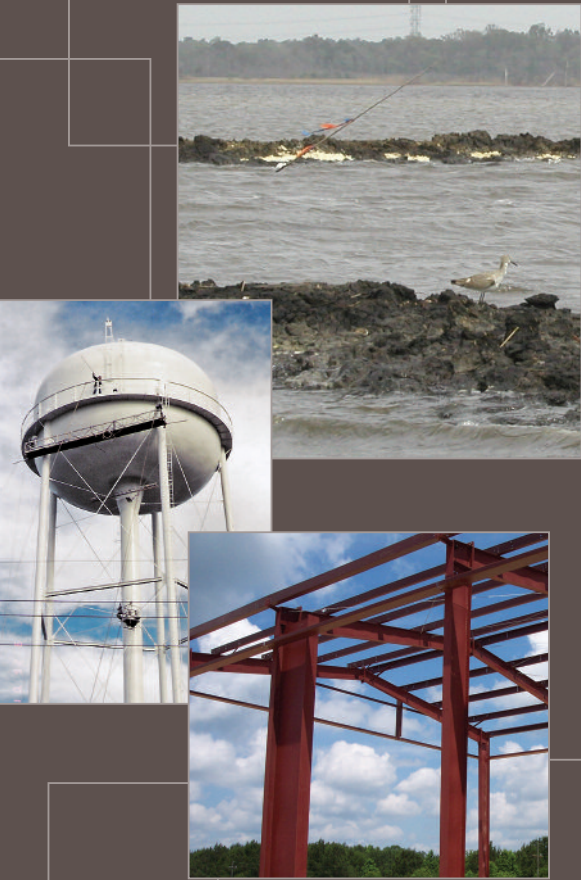
Issued at Baton Rouge, Louisiana 7/26/2021

This certification expires on: 7/26/2031

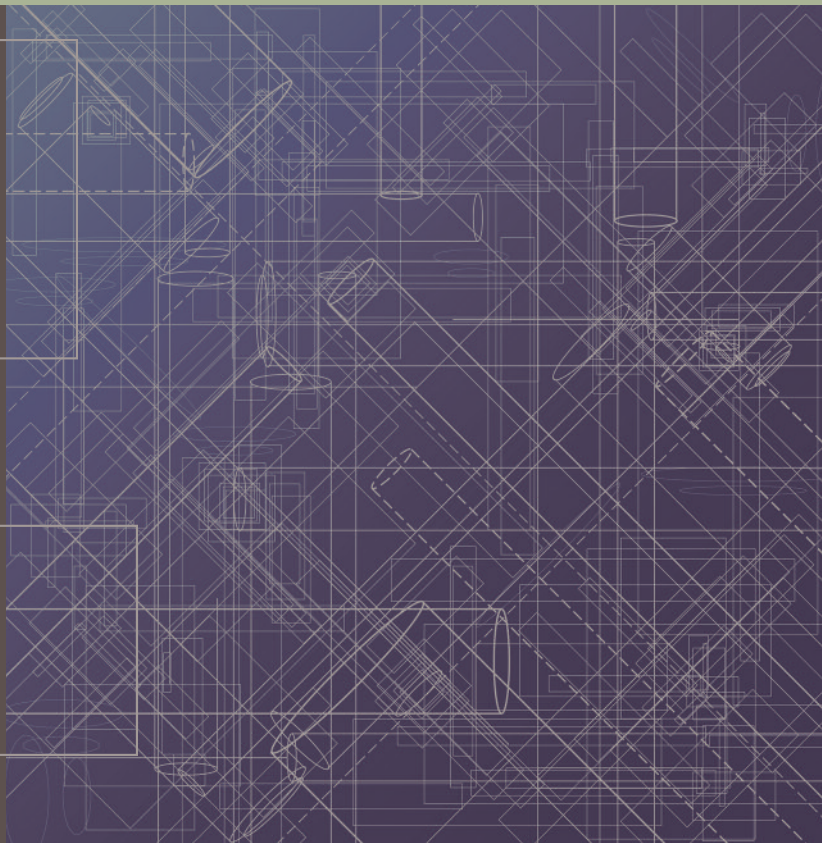
Certification No. 20386

A handwritten signature in black ink, reading "Stephanie Hartman", written over a horizontal line.

Stephanie Hartman,  
Director, Entrepreneurial Services



Engineers | Planners | Environmental Consultants





# SERVICES

Since 1993, PEEC has provided a full range of professional engineering services to clients throughout the Gulf Coast region. Our technical team provides solutions to diverse engineering challenges, from civil and environmental engineering, to coastal restoration initiatives, to construction management. Our approach allows our clients to benefit from the latest technology, innovative solutions, and cost effective ideas. PEEC integrates the appropriate resources and technologies for each client, every time.

## CUSTOMIZING PROJECTS TO FIT THE CLIENT'S NEEDS

Our team of experts performs in-depth feasibility studies that consider all aspects of the project. During this fact-finding phase, our team of experts analyze how the project will affect the environment and community stakeholders. This comprehensive review allows us to present options that truly match our clients' needs.

## FINDING THE FUNDS TO MAKE PROJECTS HAPPEN

When necessary, our staff identifies state and federal funding sources and helps the client secure all needed grants and loans. This service has enabled many of our clients' projects to move from concept to reality.

## MANAGING CONSTRUCTION TO ENSURE SUCCESS

Once our design has been completed and funding has been obtained, we monitor the construction process to make sure that the contractor implements the project in accordance with all approved plans. A pre-bid conference and monthly construction meetings with the contractor are all standard features of PEEC's construction management service. In this way, our staff keeps project construction on schedule and within budget.

## MAXIMIZING RESOURCES THROUGH PROGRAM MANAGEMENT

In addition to construction of one-time projects, PEEC's team also takes a comprehensive look at client infrastructure and offers long-term strategies for making these systems work more efficiently. Our staff makes recommendations about revenue streams, links with economic development, options for improvement in energy efficiency, land use planning, and system operation and maintenance. For example, our assessment of the City of Westwego's sewerage system involved examination of fees, insurance rates, licensing needs, and employee management structure as well as technical recommendations for improving the system's effectiveness.

# Civil Engineering

PEEC has a proven track record of providing the infrastructure that Gulf Coast communities need. Our diverse and experienced staff is skilled in civil, electrical, mechanical, and construction management, enabling us to direct projects from inception to completion.

## Clients

- |                              |                      |
|------------------------------|----------------------|
| ▣ St. Tammany Parish         | ▣ City of Westwego   |
| ▣ Grand Isle Levee Board     | ▣ Town of Grand Isle |
| ▣ Grand Isle Port Commission | ▣ Town of Zwolle     |
| ▣ Plaquemines Parish         | ▣ Jefferson Parish   |
| ▣ West Jefferson Levee Board | ▣ St. Charles Parish |

# Structural

Building strong, building smart — these are watchwords for new construction in the hurricane-prone Gulf Coast. PEEC's approach to structural projects ensures that the finished product exceeds the client's expectations — not just at the ribbon cutting but for many storm seasons to come.

## Clients

- |                                 |                      |
|---------------------------------|----------------------|
| ▣ City of Westwego              | ▣ Town of Zwolle     |
| ▣ Jefferson Parish              | ▣ Town of Grand Isle |
| ▣ Jefferson Parish School Board | ▣ Plaquemines Parish |
| ▣ St. Tammany Parish            |                      |



Drainage Pump Station — Belle Chasse, Louisiana

## LONG-TERM PLANNING YIELDS RESULTS

In Belle Chasse, PEEC developed a master drainage plan using hydraulic modeling and aerial photography to analyze the community's needs. Our plan presented solutions for reducing flooding and preventing property damage. Once the plan was approved, PEEC designed and constructed several projects, including improvements to a major canal that drained the majority of the lower Belle Chasse drainage basin. Our design for slope paving stopped recurring flooding and protected nearby homes from subsidence caused by changes in the water table.

## PROBLEM SOLVING IMPROVES PARISH PUMPING STATION

PEEC's upgrade of the drainage pumps in Plaquemines Parish required a fraction of the budget that other firms proposed. By constructing a steel frame inside the pumping station, among other methods, we were able not only to preserve the original building but keep the pumps in operation while a new diesel engine was installed. The frame was left in place so that the parish can use the same cost effective system whenever the station's engines need to be replaced.

## Civil Engineering Services

- ▣ Drainage System
- ▣ Drainage System Design
- ▣ Stormwater Analysis
- ▣ Hydraulic Modeling
- ▣ Pump Station Design
- ▣ Roadway Design
- ▣ Levee System Design
- ▣ Site Development
- ▣ Local, State, and Federal Funding Assistance
- ▣ Construction Management



Parish Government Facility — St. Tammany Parish, Louisiana

## PRIZE-WINNING DESIGN GIVES MAXIMUM FLEXIBILITY TO CLIENT

Our design and construction of the St. Tammany Parish Government facility won the 1999 Award for Excellence from Associated Builders and Contractors, Inc. Our steel frame design provided an attractive, versatile space that allows the parish to simultaneously use the building as a satellite center for a regional university, a library, and a medical facility.

## HISTORICAL PROPERTY RETURNED TO COMMERCE

Our restoration of a former corner store into the Westwego Historical Museum converted a blighted property into the centerpiece of a new tourist district. PEEC completely restored the turn-of-the-century general store, furnished a period upstairs living quarters, and created a main exhibit area. Since opening its doors in 2000, the museum has welcomed thousands of visitors from around the world.

## Structural Services

- ▣ Bridges — Wooden, Concrete, Steel, and Precast — Design and Construction Management
- ▣ Commercial Facility Design and Construction Management
- ▣ Industrial Facility Design and Construction Management
- ▣ Governmental Facilities and Complex Design and Construction Management and Repair



# Environmental

We bring our expertise to bear on all of the Gulf Coast's most difficult environmental remediation and permitting challenges. Long-standing relationships with regulators allow us to expedite paperwork and pinpoint optimal grant sources, allowing our clients to focus less on red tape and more on improving quality of life for their customers and constituents.



Sludge Volume Reduction – City of Westwego

## Environmental Services

- ▣ 404 Permit Acquisition
- ▣ Wetland Delineation Determination
- ▣ Environmental Impact Statement
- ▣ Environmental Impact Analysis
- ▣ Air Quality Permit
- ▣ MWPP
- ▣ MS4 Permit Acquisition
- ▣ NPDES/LPDES Acquisition
- ▣ Needs and Alternative Analysis
- ▣ Phase I and II Environmental Site Assessment
- ▣ Brownfield Assessment and Remediation

## Clients

- ▣ Citrus Land Company
- ▣ City of Westwego
- ▣ City of Gretna
- ▣ CLL Limited Partnership, Ltd.
- ▣ Daybrook Fisheries
- ▣ Dixie Machine Welding and Metal Works, Inc.
- ▣ Grand Isle Port Commission
- ▣ St. Tammany Parish

### BROWNFIELDS REDEVELOPMENT EXPANDS LOCAL ECONOMIES

PEEC secured \$1.5 million in total EPA Brownfields Funds for the Cities of Gretna and Westwego, Louisiana. Our staff followed up this fundraising success with action on the ground, converting formerly contaminated and abandoned properties into productive sites that are now used for a variety of industrial, recreational, and government uses. The former Malter Chemical site is now slated to be the site of an expanded McCormick Foods facility.

### ASBESTOS REMOVAL ALLOWS EXTENSION OF VITAL ROADWAY

PEEC directed the removal of asbestos along a key traffic corridor in Gretna, Louisiana. Until our remediation was complete, a state financed extension of this corridor could not be completed.

### ENVIRONMENTAL ASSESSMENT AND CLEANUP CONVERT EYESORE INTO VIABLE PROPERTY

PEEC worked with the City of Westwego and citizens to clean up a long-standing hazardous waste site. Now that underground storage tanks, illegal dumping spills, and other contaminated materials have been removed, the city is planning to use the property for the site of the new City Hall.



Wetland Creation Project – Galveston, Texas

## BENEFICIAL USE OF DREDGED MATERIAL PROTECTS SENSITIVE TIDAL ECOSYSTEM

PEEC designed and constructed a 230-acre marsh creation project in Galveston Bay. Our team of experts created 47 half-acre mounds of dredged material planted with vegetation and protected the mounds with breakwaters made of geotubes. Galveston Bay experiences high wave action every day, and in 2008 Hurricane Gustav sent a tidal surge through the area. Our project remained intact despite the storm, while adjacent, unprotected marsh areas were destroyed.

## TERRACING PROJECT CREATES NEW MARSH

An open water area just south of Port Arthur, Texas, Bessie Heights was once the site of healthy wetlands. PEEC restored 100 acres of marsh in Bessie Heights using dredged material arranged in terraces. The project was built in 2002 and remains structurally sound, despite the wave action created by Hurricanes Katrina, Rita, Gustav, and Ike. We expect that the project will eventually build more than 200 acres of wetlands.

## BREAKWATER SYSTEM PROTECTS COAST WHILE ALLOWING NATURAL ECOSYSTEM FUNCTION

PEEC designed a four mile long breakwater system for Grand Isle with a special overlapping design that allows tidal fluctuations to pass through. At the same time, the breakwaters protect the island from storm surge and help reduce erosion. The project was built in 1998 and is functioning as designed despite numerous hits from severe hurricanes.

# Coastal

With wetlands being lost every day and hurricanes arriving in force, the Gulf Coast is ground zero for coastal restoration. PEEC has been at the forefront of the movement to preserve the region's wetlands, and we have successfully implemented unique solutions in a variety of storm-prone habitats.

## Coastal Services

- ▣ Marsh Creation
- ▣ Marsh Enhancement
- ▣ Marsh Protection
- ▣ Barrier Island Protection
- ▣ Levee System Design and Construction
- ▣ Levee System Upgrade and Repair
- ▣ Breakwater System Design and Construction
- ▣ Marsh Management

## Clients

- ▣ Grand Isle Levee District
- ▣ Louisiana Department of Natural Resources
- ▣ Plaquemines Parish Government
- ▣ Texas Parks and Wildlife Department
- ▣ Town of Grand Isle



Breakwater System – Town of Grand Isle, Louisiana



# Water

Sending water where it needs to go—PEEC has pioneered several techniques, now in use throughout the region, to make sure our clients have the water resources when and where they need them.

## Water Services

- ▣ Hydrogeology/Groundwater Modeling
- ▣ Water Well Design
- ▣ Water Intake Structure Design, Construction, and Repair
- ▣ Water Treatment Services
- ▣ Water Distribution Systems
- ▣ Lake and Reservoir Water Quality Management
- ▣ Storm Water Permitting and Compliance
- ▣ Water Resources Management/Water Rights Strategies
- ▣ Water Supply Planning
- ▣ Watershed Management/Source Protection

## Clients

- |                      |                      |
|----------------------|----------------------|
| ▣ City of Westwego   | ▣ Town of Zwolle     |
| ▣ Jefferson Parish   | ▣ St. Charles Parish |
| ▣ Town of Grand Isle | ▣ Plaquemines Parish |



New Water Line – Town of Grand Isle, Louisiana



New Water Line – Town of Grand Isle, Louisiana

## NEW WATER LINE BRINGS CLEAN WATER, ECONOMIC GROWTH TO TOWN

Grand Isle, Louisiana's only inhabited island, is a community of 1500 people that had no direct source of potable water. Residents were forced to purchase water, at high rates. A lack of potable water also made it difficult to accommodate the many tourists who visited the island. In 1999, PEEC installed a 32-mile water line that piped in Mississippi River water to Grand Isle, using an innovative design that maximized the line's durability. Now the town's residents receive up to two million gallons of water a day at a fraction of the rate charged by previous sources. Since the line was installed, eco-tourism in Grand Isle has doubled.

## STREAMLINED SOLUTION PROVIDES MODEL FOR REGION

Grand Isle's water distribution system was at the breaking point when PEEC was hired to bring the system back up to full strength. Along with other measures, we repaired the system's main pipe, whose diameter had shrunk to only six inches due to build up in the line. We used a specialized cleaning device normally used for pipelines to clean out the pipe. Our method effectively doubled the pipe's capacity and is now used by municipalities throughout the area to keep water systems functioning at optimal levels.





Wastewater Treatment Plant – Zwolle, Louisiana

### MICROBIAL ROCK PLANT FILTER PROVIDES CLEAN WATER AT LOW COST TO PARISH

A wastewater treatment plant in St. Tammany Parish was not meeting EPA effluent limits. Rather than constructing a costly new plant, PEEC used a design that employed crushed stone and rock already available within the parish. The four-acre treatment facility was designed to handle 1.5 million gallons of wastewater per day and provided an effluent quality in full compliance with all state and federal regulations.

### SUSTAINABLE MEASURES REDUCE POLLUTANTS AND REDUCE PROJECT BUDGET

The town of Zwolle needed to improve the water quality of a 14.5-acre oxidation pond. PEEC designed a system using plants, which removed nitrogen and added oxygen to the wastewater, thereby cleaning the pond at low cost, with minimal disruption to the neighboring environment.

### MICROBIAL APPLICATION PRODUCES WIN-WIN SOLUTION

The city of Westwego had a wastewater facility that was under functioning due to high sludge volume. PEEC reduced this volume by 50% using an application of specialized microorganisms. In a second phase, we used the microbial detritus this process created and used it as beneficial material for nearby earthen levee tops. The microbial sludge acted as fertilizer, spurring massive vegetation growth, which in turn reduced erosion on the levee and improved the city's storm protection system.

# Wastewater

Wastewater challenges have provided PEEC with opportunities to use innovative and green technologies that not only produce clean effluent, they improve the surrounding environment — all while achieving significant cost savings for our clients.

## Sewer Services

- ▣ Combined Sewer Overflow
- ▣ Design and Rehabilitation of Collection Systems
- ▣ Design and Rehabilitation of Treatment Systems
- ▣ Operability Design Reviews
- ▣ Operations Services
- ▣ Start-up Assistance
- ▣ Inflow/Infiltration Study

## Clients

- |                      |                      |
|----------------------|----------------------|
| ▣ City of Westwego   | ▣ Town of Sarepta    |
| ▣ St. Tammany Parish | ▣ Jefferson Parish   |
| ▣ Town of Zwolle     | ▣ Plaquemines Parish |
| ▣ U.S. Steel         |                      |



Wastewater Treatment Plant – City of Westwego, Louisiana

## PEEC, INC.

### CIVIL

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- Drainage System Design
- Stormwater Analysis
- Hydraulic Modeling
- Pump Station Design
- Roadway Design
- Levee System Design
- Site Development
- Local, State, and Federal Funding Assistance
- Construction Management

### STRUCTURAL

- Bridges—Wooden, Concrete, Steel, and Precast—Design and Construction Management
- Commercial Facility Design and Construction Management
- Industrial Facility Design and Construction Management
- Governmental Facilities and Complex Design and Construction Management

### ENVIRONMENTAL

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- Wetland Delineation Determination
- Environmental Impact Statement
- Environmental Impact Analysis
- Air Quality Permit
- MWPP
- MS4 Permit Acquisition
- NPDES/LPDES Acquisition
- Needs and Alternative Analysis
- Phase I and II Environmental Site Assessment
- Brownfield Assessment and Remediation

### COASTAL

- Marsh Creation
- Marsh Enhancement
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- Levee System Design and Construction
- Levee System Upgrade and Repair
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### WATER

- Hydrogeology/ Groundwater Modeling
- Water Well Design
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- Water Treatment Services
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- Watershed Management/ Source Protection

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