

## **Technical Evaluation Committee (TEC) Questionnaire**

### **Instructions**

- The Technical Evaluation Committee (TEC) Questionnaire shall be used for professional services related to architecture, engineering, or survey projects.
- **The TEC Questionnaire should be completely filled out. Complete and attach ALL sections. Insert “N/A” or “None” if a section does not apply or if there is no information to provide.**
- Questionnaire must be signed by an authorized representative of the Firm. Failure to sign the questionnaire shall result in disqualification of proposer pursuant to J.P. Code of Ordinances Sec. 2-928.
- All subcontractors must be listed in the appropriate section of the Questionnaire. Each subcontractor must provide a complete copy of the TEC Questionnaire, applicable licenses, and any other information required by the advertisement. Failure to provide the subcontractors' complete questionnaire(s), applicable licenses, and any other information required by the advertisement shall result in disqualification of proposer pursuant to J.P. Code of Ordinances Sec. 2-928.
- If additional pages are needed, attach them to the questionnaire and include all applicable information that is required by the questionnaire.

## TEC Professional Services Questionnaire

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

**B. Firm Name & Address:**

**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:**

**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.**

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

<input type="checkbox"/> Administrative	<input type="checkbox"/> Estimators	<input type="checkbox"/> Specification Writers
<input type="checkbox"/> Architects (Licensed)	<input type="checkbox"/> Geologists	<input type="checkbox"/> Structural Engineers
<input type="checkbox"/> Chemical Engineers	<input type="checkbox"/> Geotechnical Engineers	<input type="checkbox"/> Graduate Engineers
<input type="checkbox"/> Civil Engineers	<input type="checkbox"/> Interior Designers	<input type="checkbox"/> Project Managers
<input type="checkbox"/> Construction Inspectors	<input type="checkbox"/> Landscape Architects	<input type="checkbox"/> Clerical
<input type="checkbox"/> Ecologists	<input type="checkbox"/> Land Surveyor	<input type="checkbox"/> Grant/Funding Specialist
<input type="checkbox"/> Electrical Engineers	<input type="checkbox"/> Mechanical Engineers	<input type="checkbox"/> Sanitary Engineers
<input type="checkbox"/> Engineer Intern	<input type="checkbox"/> Environmental Engineers	
<input type="checkbox"/> Professional Land Surveyors		<input type="checkbox"/> <b>TOTAL</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

**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.

2.

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

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

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

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

\_\_\_\_\_

## 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:**

**Project Assignment:**

**Name of Firm with which associated:**

**Years' experience with this Firm:**

**Education: Degree(s)/Year/Specialization:**

**Active registration: Year first registered/discipline:**

**Other experience and qualifications relevant to the proposed Project:**

## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Project Assignment:	
Name of Firm with which associated:	
Years' experience with this Firm:	
Education: Degree(s)/Year/Specialization:	
Active registration: Year first registered/discipline:	
Other experience and qualifications relevant to the proposed Project:	

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Project Assignment:</b>
<b>Name of Firm with which associated:</b>
<b>Years' experience with this Firm:</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>Active registration: Year first registered/discipline:</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>

## TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Project Assignment:	
Name of Firm with which associated:	
Years' experience with this Firm:	
Education: Degree(s)/Year/Specialization:	
Active registration: Year first registered/discipline:	
Other experience and qualifications relevant to the proposed Project:	

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Project Assignment:</b>
<b>Name of Firm with which associated:</b>
<b>Years' experience with this Firm:</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>Active registration: Year first registered/discipline:</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>



## 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:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

### PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

## 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>	
<b>Completion Date (Actual or estimated)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>

<b>PROJECT NO. 4</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>

## 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>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>

<b>PROJECT NO. 6</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>

## 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>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>

<b>PROJECT NO. 8</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>

## 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>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>

<b>PROJECT NO. 10</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>

## TEC Professional Services Questionnaire

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

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

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

Jefferson Parish  
State of Louisiana

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

Signature:  Print Name: \_\_\_\_\_

Title: \_\_\_\_\_ Date: \_\_\_\_\_

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- If additional pages are needed, attach them to the questionnaire and include all applicable information that is required by the questionnaire.

## TEC Professional Services Questionnaire

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

SOQ 23-006 – Design and Construction Administration of a New East Bank Jefferson Parish Animal Adoption & Services Facility

**B. Firm Name & Address:**

Marrero, Couvillon & Associates, LLC.  
3525 Hessmer Ave., Suite 304  
Metairie, LA 70001

**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:**

Greg DeCoursey, AIA  
Vice President  
Project Manager/Architect  
(504) 834-3448  
[gdecoursey@mca-llc.com](mailto:gdecoursey@mca-llc.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.**

Greg DeCoursey, AIA  
Vice President  
Project Manager/Architect  
(504) 834-3448  
[gdecoursey@mca-llc.com](mailto:gdecoursey@mca-llc.com)

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

<u>7</u> Administrative	<u>1</u> Estimators	<u>    </u> Specification Writers
<u>1</u> Architects (Licensed)	<u>    </u> Geologists	<u>1</u> Structural Engineers
<u>    </u> Chemical Engineers	<u>    </u> Geotechnical Engineers	<u>    </u> Graduate Engineers
<u>    </u> Civil Engineers	<u>    </u> Interior Designers	<u>2</u> Project Managers
<u>    </u> Construction Inspectors	<u>    </u> Landscape Architects	<u>    </u> Clerical
<u>    </u> Ecologists	<u>    </u> Land Surveyor	<u>    </u> Grant/Funding Specialist
<u>4</u> Electrical Engineers	<u>6</u> Mechanical Engineers	<u>    </u> Sanitary Engineers
<u>    </u> Engineer Intern	<u>    </u> Environmental Engineers	<u>5</u> Designers
<u>    </u> Professional Land Surveyors	<u>2</u> CADD Operators	<u>29</u> TOTAL

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

**If marked “No” skip to Section I. If marked “yes” complete Sections G-H.**



## TEC Professional Services Questionnaire

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

1. N/A

2.

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

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

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

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

### **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:**

Greg DeCoursey, AIA – Sr. Architect, Project Manager

**Project Assignment:**

Project Manager

**Name of Firm with which associated:**

Marrero, Couvillon & Associates, LLC.

**Years' experience with this Firm:**

27

**Education: Degree(s)/Year/Specialization:**

Bachelor of Architecture / 1977 / Architecture Masters of Architecture / 1982 / Architecture

**Active registration: Year first registered/discipline:**

1980 Architecture

**Other experience and qualifications relevant to the proposed Project:**

Mr. DeCoursey has experience as both an Architect and Project Manager performing services, for projects of all types. Mr. DeCoursey has performed services for Engineering Projects for Facility Planning & Control, the Louisiana Department of Transportation and Development, the City of New Orleans, and for other Public Works and Private Sector Commercial projects. Projects in which Mr. DeCoursey participated, relevant to the requirements in this solicitation are:

- **Alliance for Sustainable Wildlife Center, New Orleans, LA** – Audubon Nature Institute and San Diego Zoo Global announced a partnership to replenish animal populations that face possible extinction. The Alliance for Sustainable Wildlife will devise strategies to ensure sustainable populations of unique and endangered zoo animals. Located at the Audubon Center for the Research of Endangered Species site in New Orleans, the Alliance will be a haven for more than two dozen endangered and threatened mammal and bird species, including whooping cranes, okapis, and Maisai giraffes. Torre Design Consortium was selected as the Architect for this project and Marrero, Couvillon, & Associates, LLC partnered to provide MEP design of the facilities. The scope of work includes lighting, power, HVAC, plumbing, and fire alarm systems for the animal enclosures and habitats.
- **Audubon Zoo, Asian Elephant Exhibit and Cool Zoo II, New Orleans, LA** – For these projects at the Audubon Zoo in New Orleans, Marrero, Couvillon & Associates provided mechanical and electrical design services. The overall projects encompassed several major scope items – a new exhibit area for the Asian Elephants adjacent to the new elephant night house; a new night house and exhibit area for the orangutans, which utilizes the former elephant night house; and an expansion of the children's water park at the zoo, Cool Zoo, including construction of restroom concession facilities and a water feature, Lazy River. Working as sub to architect, Torre Design Consortium, MCA designed all the mechanical and electrical systems for those facilities. At the Asian Elephant exhibit, MCA designed pumping systems for the waterfall and river that are part of the habitat, as well as electrical distribution to equipment and lighting. For the orangutan night house and exhibit, MCA designed HVAC and plumbing systems, lighting and electrical power distribution, sprinkler system and fire alarm. Mechanical systems designed by MCA at the Cool Zoo expansion include HVAC and plumbing systems for restroom and concession facilities and ventilation and plumbing for the Lazy River Alligator House.
- **City Bark, Dog Park in New Orleans City Park** – City Bark is a dog park that is located in New Orleans City Park. It provides a large, enclosed recreation area for dogs. Marrero, Couvillon & Associates provided mechanical and electrical design services for the pavilion located in this facility. Heating/ventilation at restroom facilities, as well plumbing for facilities for both humans and canines, formed the basis of mechanical work. Electrical design included lighting and power distribution. This project was funded primarily through donations and MCA donated most of its services to help the cause.
- **St. Tammany Parish Animal Services Isolation Building, LaCombe, LA** - The St. Tammany Parish Animal Services provides a safe, clean facility for stray animals and unwanted pets. The Isolation Building houses animals, generally dogs, who for various reasons, including legal, need to be separated from the general population. Marrero, Couvillon & Associates is providing architectural, mechanical and electrical design services for building upgrades. Mechanical engineering services include a new, code compliant HVAC system, and plumbing for a new kennel system that is being installed in the facility. Electrical engineering services include new lighting, and power distribution modifications for the HVAC system. Architectural services include necessary modifications for mechanical work, and rodent control modifications.

## **TEC Professional Services Questionnaire**

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Kimball M. Schlafly, P.E., Sr. Electrical Engineer
<b>Project Assignment:</b>
Sr. Electrical Engineer
<b>Name of Firm with which associated:</b>
Marrero, Couvillon & Associates, LLC.
<b>Years' experience with this Firm:</b>
3
<b>Education: Degree(s)/Year/Specialization:</b>
Bachelor of Science / 1988 / Electrical Engineering
<b>Active registration: Year first registered/discipline:</b>
1993 Electrical Engineer
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Schlafly has over 34 years of engineering experience in electrical engineering, project engineering and project management. He has been responsible for various projects requiring design of lighting, low and medium voltage power distribution, standby and emergency power systems, telecommunications, fire alarm, access control, video surveillance, and theatrical audio/visual and lighting systems. Mr. Schlafly has worked on projects with clients in both the public and private sector, such as the Recovery School District in New Orleans, Facility Planning and Control in Baton Rouge, Tulane University, Loyola University, University of New Orleans, as well as with various Architects, Engineering firms, and building owners. Prior to joining Marrero, Couvillon &amp; Associates, Mr. Schlafly was managing partner of his own firm, working for contractors and owners on design-build projects as well as architects on design-bid projects.</p> <ul style="list-style-type: none"> <li>• <b>St. Tammany Parish Animal Services Isolation Building, LaCombe, LA</b> - The St. Tammany Parish Animal Services provides a safe, clean facility for stray animals and unwanted pets. The Isolation Building houses animals, generally dogs, who for various reasons, including legal, need to be separated from the general population. Marrero, Couvillon &amp; Associates is providing architectural, mechanical and electrical design services for building upgrades. Mechanical engineering services include a new, code compliant HVAC system, and plumbing for a new kennel system that is being installed in the facility. Electrical engineering services include new lighting, and power distribution modifications for the HVAC system. Architectural services include necessary modifications for mechanical work, and rodent control modifications.</li> <li>• <b>Ellis Marsalis Center for Music, New Orleans, Louisiana</b> - New facility consisting of theater, recording studio, music practice rooms, and community outreach spaces. Provided design for new electrical service and distribution, lighting, fire alarm, access control integrated electronic security systems, and telecommunications distribution. Design and installation included acoustically isolated zones, dedicated technical power distribution, theatrical lighting, and an audio system designed by Telaske out of Chicago. Subsequent work included power quality analysis to determine source of surges from utility and force appropriate repairs to stop the surges.</li> <li>• <b>City Hall and Civil Courts Mechanical and Electrical Upgrades - New Orleans, Louisiana</b> - MCA is providing mechanical and electrical engineering services for upgrades to HVAC, mechanical, electrical and plumbing systems at the City of New Orleans City Hall and Civil Courts Buildings, which includes: demolition and replacement of chiller compressors, renovation of 8 elevators which included partial demolition and reconstruction of the equipment elevator rooms, fire alarm upgrades and replacements, main switchgear repairs, repairs and upgrades to the emergency power systems, and replacement of 3 generators.</li> <li>• <b>Jones Creek Regional Branch Renovations &amp; Additions, East Baton Rouge Parish, LA</b>- MCA was responsible for the Mechanical, Electrical, Plumbing and Fire Protection for the Renovations and Additions to the Jones Creek Regional Branch Library. Design included a complete interior renovation of this existing 35,200 sf library branch and a new 3,200 sf addition. The scope included the addition of a new HVAC system for the expansion, as this was more economical than expanding the existing system, new roofing, new storefronts and curtainwall, new finishes throughout, new lighting, upgraded HVAC system, fire alarm and sprinkler systems, new FF&amp;E package, and site drainage modifications. Space planning and functional improvements included a new entry sequence for book return and check out, redesigned teen and children's areas, redesigned book stack layout, renovated restrooms and staff lounge, updated meeting rooms, increased study rooms and collaborative spaces, new conference room, new digital lab and quiet spaces for reading. As one of the most trafficked libraries in East Baton Rouge Parish, it was a requirement that the facility remain open for the duration of construction. Careful coordination between the Owner, Design Team, and Contractor insured that the building remained open, on schedule, and on budget to produce a successful result.</li> </ul>

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Christian Schade, P.E., Sr. Electrical Engineer
<b>Project Assignment:</b>
Sr. Electrical Engineer
<b>Name of Firm with which associated:</b>
Marrero, Couvillon & Associates, LLC.
<b>Years' experience with this Firm:</b>
6
<b>Education: Degree(s)/Year/Specialization:</b>
Bachelor of Science / 1993 / Electrical Engineering
<b>Active registration: Year first registered/discipline:</b>
2006 Electrical Engineering
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Schade's experience as an Electrical Engineer includes: Power system analysis, consisting of load flow, fault, arc flash and coordination studies using SKM Power Tools for Windows and ETAP. Proficient with incident energy level method of Arc Flash calculations per NFPA 70E, 2015 version. Electrical design support for small to medium size projects in industrial facilities, including installation of new pumps, agitators, metering equipment, lighting and power distribution centers. Design of utility switchyards up to 230 KV and protective relaying. Electrical design support for architectural type projects, such as office buildings, restaurants, hotels, and marinas. A few projects Mr. Schade has worked on include:</p> <ul style="list-style-type: none"> <li>• <b>St. Tammany Parish Animal Services Isolation Building, LaCombe, LA</b> - The St. Tammany Parish Animal Services provides a safe, clean facility for stray animals and unwanted pets. The Isolation Building houses animals, generally dogs, who for various reasons, including legal, need to be separated from the general population. Marrero, Couvillon &amp; Associates is providing architectural, mechanical and electrical design services for building upgrades. Mechanical engineering services include a new, code compliant HVAC system, and plumbing for a new kennel system that is being installed in the facility. Electrical engineering services include new lighting, and power distribution modifications for the HVAC system. Architectural services include necessary modifications for mechanical work, and rodent control modifications.</li> <li>• <b>Low Barrier Shelter, New Orleans, Louisiana</b> – MCA has worked with architect The Mathes Group on a homeless shelter project for the City of New Orleans. The facility provides year-round, 24 hour shelter for homeless adults with minimal restrictions. The work involved demolition and build-out within an existing building that was previously used for medical purposes. MCA provided engineering design for HVAC, plumbing, fire protection and electrical systems for the project.</li> <li>• <b>New Orleans Sewerage and Water Board Head House Renovation/Repurposing Critical Services Facility Center, EOC and Safe House (Resiliency Complex), New Orleans, Louisiana</b> – Renovation of an existing early 20th century 3-story building for use as Emergency Operations Building for the S&amp;WB, including Operations Center, office spaces and temporary living quarters. A new InFill Building, also 3-stories, will be built adjacent to the Safe House to provide a kitchen facility and additional office spaces. MCA is handling the Mechanical, Electrical, Plumbing and Fire Protection design.</li> <li>• <b>Jones Creek Regional Branch Renovations &amp; Additions, East Baton Rouge Parish, LA</b>- MCA was responsible for the Mechanical, Electrical, Plumbing and Fire Protection for the Renovations and Additions to the Jones Creek Regional Branch Library. Design included a complete interior renovation of this existing 35,200 sf library branch and a new 3,200 sf addition. The scope included the addition of a new HVAC system for the expansion, as this was more economical than expanding the existing system, new roofing, new storefronts and curtainwall, new finishes throughout, new lighting, upgraded HVAC system, fire alarm and sprinkler systems, new FF&amp;E package, and site drainage modifications. Space planning and functional improvements included a new entry sequence for book return and check out, redesigned teen and children's areas, redesigned book stack layout, renovated restrooms and staff lounge, updated meeting rooms, increased study rooms and collaborative spaces, new conference room, new digital lab and quiet spaces for reading. As one of the most trafficked libraries in East Baton Rouge Parish, it was a requirement that the facility remain open for the duration of construction. Careful coordination between the Owner, Design Team, and Contractor insured that the building remained open, on schedule, and on budget to produce a successful result.</li> </ul>



## **TEC Professional Services Questionnaire**

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Brian Miller, P.E., Vice President of Engineering
<b>Project Assignment:</b>
Sr. Mechanical Engineer
<b>Name of Firm with which associated:</b>
Marrero, Couvillon & Associates, LLC.
<b>Years' experience with this Firm:</b>
7
<b>Education: Degree(s)/Year/Specialization:</b>
Bachelor of Science / 1986 / Mechanical Engineering
<b>Active registration: Year first registered/discipline:</b>
1995 Mechanical Engineer
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Miller has over 28 years of engineering experience in mechanical engineering, project engineering and project management. He has been responsible for various projects ranging from HVAC systems design to wastewater pump stations. Projects relevant to the requirement in this solicitation are:</p> <ul style="list-style-type: none"> <li>• <b>Jones Creek Library, Baton Rouge, Louisiana</b> – MCA was responsible for the Mechanical, Electrical, Plumbing and Fire Protection for the Renovations and Additions to the Jones Creek Regional Branch Library. Design included a complete interior renovation of this existing 35,200 sf library branch and a new 3,200 sf addition. The scope included the addition of a new HVAC system for the expansion, as this was more economical than expanding the existing system, new roofing, new storefronts and curtainwall, new finishes throughout, new lighting, upgraded HVAC system, fire alarm and sprinkler systems, new FF&amp;E package, and site drainage modifications. Space planning and functional improvements included a new entry sequence for book return and check out, redesigned teen and children's areas, redesigned book stack layout, renovated restrooms and staff lounge, updated meeting rooms, increased study rooms and collaborative spaces, new conference room, new digital lab and quiet spaces for reading. As one of the most trafficked libraries in East Baton Rouge Parish, it was a requirement that the facility remain open for the duration of construction. Careful coordination between the Owner, Design Team, and Contractor insured that the building remained open, on schedule, and on budget to produce a successful result.</li> <li>• <b>Louisiana Wetlands Education Center, Town of Jean Lafitte, Louisiana</b> – MCA is providing mechanical plumbing, electrical and fire protection engineering design services for this facility which will “promote preservation, conservation and adaptation related to wetland ecosystems, using its location in the Jean Lafitte area as an outdoor classroom.” The Louisiana Wetlands Education Center, including programming for all ages, will provide educational opportunities regarding the unique ecosystems of coastal Louisiana. The facility will be utilized for research and will provide a meeting location for interested parties/institutions.” MCA is responsible for HVAC, plumbing, lighting, electrical power distribution and fire protection system.</li> <li>• <b>Alliance for Sustainable Wildlife Center, New Orleans, LA</b> – Audubon Nature Institute and San Diego Zoo Global announced a partnership to replenish animal populations that face possible extinction. The Alliance for Sustainable Wildlife will devise strategies to ensure sustainable populations of unique and endangered zoo animals. Located at the Audubon Center for the Research of Endangered Species site in New Orleans, the Alliance will be a haven for more than two dozen endangered and threatened mammal and bird species, including whooping cranes, okapis, and Maisai giraffes. Torre Design Consortium was selected as the Architect for this project and Marrero, Couvillon, &amp; Associates, LLC partnered to provide MEP design of the facilities. The scope of work includes lighting, power, HVAC, plumbing, and fire alarm systems for the animal enclosures and habitats.</li> <li>• <b>Audubon Zoo Sea Lion Pond</b> – The existing Sea Lion Pond/Exhibit at the Audubon Zoo in New Orleans was in need of equipment replacement/upgrade. Marrero, Couvillon &amp; Associates is providing mechanical and electrical engineering services for part of this work. MCA designed the installation of an additional chiller, part of a system to maintain the pool water temperature in the comfort level for the sea lions. MCA also designed ventilation for an exhibit equipment room and electrical distribution systems for the new chiller and ventilation fan.</li> <li>• <b>New Orleans Sewerage and Water Board Head House Renovation/Repurposing Critical Services Facility Center, EOC and Safe House (Resiliency Complex), New Orleans, Louisiana</b> – Renovation of an existing early 20th century 3-story building for use as Emergency Operations Building for the S&amp;WB, including Operations Center, office spaces and temporary living quarters. A new InFill Building, also 3-stories, will be built adjacent to the Safe House to provide a kitchen facility and additional office spaces. MCA is handling the Mechanical, Electrical, Plumbing and Fire Protection design.</li> </ul>


## **TEC Professional Services Questionnaire**

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Chad Blanchard, Mechanical Engineer
<b>Project Assignment:</b>
Mechanical Engineer
<b>Name of Firm with which associated:</b>
Marrero, Couvillon & Associates, LLC.
<b>Years' experience with this Firm:</b>
7
<b>Education: Degree(s)/Year/Specialization:</b>
Bachelor of Science / 2007 / Mechanical Engineering
<b>Active registration: Year first registered/discipline:</b>
N/A
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Blanchard received his Bachelor of Science Degree in Mechanical Engineering from Louisiana Tech University in 2007.. Mr. Blanchard is a member of the American Society of Mechanical Engineers and ASHRAE, and he is certified LEED AP. Mr. Blanchard has been responsible for various projects ranging from QA/QC of mechanical work and HVAC systems design, to performing studies of mechanical systems in various facilities. Mechanical projects Mr. Blanchard has been responsible for since he joined MCA include:</p> <ul style="list-style-type: none"> <li>• <b>Jones Creek Library, Baton Rouge, Louisiana</b> – MCA was responsible for the Mechanical, Electrical, Plumbing and Fire Protection for the Renovations and Additions to the Jones Creek Regional Branch Library. Design included a complete interior renovation of this existing 35,200 sf library branch and a new 3,200 sf addition. The scope included the addition of a new HVAC system for the expansion, as this was more economical than expanding the existing system, new roofing, new storefronts and curtainwall, new finishes throughout, new lighting, upgraded HVAC system, fire alarm and sprinkler systems, new FF&amp;E package, and site drainage modifications. Space planning and functional improvements included a new entry sequence for book return and check out, redesigned teen and children's areas, redesigned book stack layout, renovated restrooms and staff lounge, updated meeting rooms, increased study rooms and collaborative spaces, new conference room, new digital lab and quiet spaces for reading. As one of the most trafficked libraries in East Baton Rouge Parish, it was a requirement that the facility remain open for the duration of construction. Careful coordination between the Owner, Design Team, and Contractor insured that the building remained open, on schedule, and on budget to produce a successful result.</li> <li>• <b>Louisiana Wetlands Education Center, Town of Jean Lafitte, Louisiana</b> – MCA is providing mechanical plumbing, electrical and fire protection engineering design services for this facility which will “promote preservation, conservation and adaptation related to wetland ecosystems, using its location in the Jean Lafitte area as an outdoor classroom.” The Louisiana Wetlands Education Center, including programming for all ages, will provide educational opportunities regarding the unique ecosystems of coastal Louisiana. The facility will be utilized for research and will provide a meeting location for interested parties/institutions.” MCA is responsible for HVAC, plumbing, lighting, electrical power distribution and fire protection systems</li> <li>• <b>Alliance for Sustainable Wildlife Center, New Orleans, LA</b> – Audubon Nature Institute and San Diego Zoo Global announced a partnership to replenish animal populations that face possible extinction. The Alliance for Sustainable Wildlife will devise strategies to ensure sustainable populations of unique and endangered zoo animals. Located at the Audubon Center for the Research of Endangered Species site in New Orleans, the Alliance will be a haven for more than two dozen endangered and threatened mammal and bird species, including whooping cranes, okapis, and Maisai giraffes. Torre Design Consortium was selected as the Architect for this project and Marrero, Couvillon, &amp; Associates, LLC partnered to provide MEP design of the facilities. The scope of work includes lighting, power, HVAC, plumbing, and fire alarm systems for the animal enclosures and habitats.</li> <li>• <b>Youth Study Center, New Orleans, Louisiana</b> - MCA provided electrical and mechanical design services for a new building of approximately 38,250 square feet, to include 28 sleeping units with sink/toilet combination with high security detention cell doors and locks; two classrooms; a clinic area; activity areas, day area (adjacent to the detention cells); two Social Workers offices, Guard Office, uni-sex restrooms, Electric/IT room, utility room, Custodial room, MP storage, visitor/reception area and outdoor recreation yard.</li> </ul>

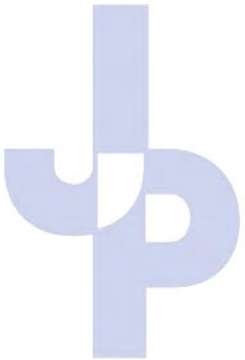

## TEC Professional Services Questionnaire

**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:	
<p>St. Tammany Parish Animal Services Isolation Building LaCombe, LA</p> <p>St. Tammany Parish Government Rob Bremer 985-871-4500</p>	<p>The St. Tammany Parish Animal Services provides a safe, clean facility for stray animals and unwanted pets. The Isolation Building houses animals, generally dogs, who for various reasons, including legal, need to be separated from the general population. Marrero, Couvillon &amp; Associates is providing architectural, mechanical and electrical design services for building upgrades. Mechanical engineering services include a new, code compliant HVAC system, and plumbing for a new kennel system that is being installed in the facility. Electrical engineering services include new lighting, and power distribution modifications for the HVAC system. Architectural services include necessary modifications for mechanical work, and rodent control modifications.</p>	
<p style="text-align: center;">  </p>	<p style="font-size: 2em; margin: 0;">Jefferson Parish</p> <p style="font-size: 1.5em; margin: 0;">State of Louisiana</p>	
<p><b>Completion Date (Actual or estimated):</b></p>	<p><b>Estimated Cost:</b></p>	
	<p><b>Entire Project:</b></p>	<p><b>Work for which Firm was Responsible:</b></p>
<p>2023</p>	<p>\$125,000</p>	<p>\$30,000</p>

## 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>	
<p>Alliance for Sustainable Wildlife Center New Orleans, Louisiana</p> <p>Audubon Nature Institute/ Audubon Commission Steve Durand (504) 861-2537</p>	<p>Audubon Nature Institute and San Diego Zoo Global created a partnership to replenish animal populations that face possible extinction. The Alliance for Sustainable Wildlife devised strategies to ensure sustainable populations of unique and endangered zoo animals. Located at the Audubon Center for the Research of Endangered Species site in New Orleans, the Alliance is a haven for more than two dozen endangered and threatened mammal and bird species, including whooping cranes, okapis, and Maisai giraffes. Torre Design Consortium was selected as the Architect for this project and Marrero, Couvillon, &amp; Associates, LLC partnered to provide MEP design of the facilities. The scope of work includes lighting, power, HVAC, plumbing, and fire alarm systems for the animal enclosures and habitats.</p> <div style="text-align: center; margin-top: 20px;">  <div style="display: inline-block; vertical-align: middle;"> <h1 style="margin: 0;">Jefferson Parish</h1> <h2 style="margin: 0;">State of Louisiana</h2> </div> </div> <div style="text-align: center; margin-top: 20px;">  </div>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2016	\$11,000,000	\$3,100,000





## 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>	
<p>Asian Elephant Exhibit &amp; Cool Zoo II New Orleans, Louisiana</p> <p>Audubon Nature Institute/ Audubon Commission Steve Durand (504) 861-2537</p>	<p>For these projects at the Audubon Zoo in New Orleans, Marrero, Couvillon &amp; Associates provided mechanical and electrical design services. The overall projects encompassed several major scope items – a new exhibit area for the Asian Elephants adjacent to the new elephant night house; a new night house and exhibit area for the orangutans, which utilizes the former elephant night house; and an expansion of the children's water park at the zoo, Cool Zoo, including construction of restroom concession facilities and a water feature, Lazy River. Working as sub to architect, Torre Design Consortium, MCA designed all the mechanical and electrical systems for those facilities.</p> <p>At the Asian Elephant exhibit, MCA designed pumping systems for the waterfall and river that are part of the habitat, as well as electrical distribution to equipment and lighting. For the orangutan night house and exhibit, MCA designed HVAC and plumbing systems, lighting and electrical power distribution, sprinkler system and fire alarm. Mechanical systems designed by MCA at the Cool Zoo expansion include HVAC and plumbing systems for restroom and concession facilities and ventilation and plumbing for the Lazy River Alligator House. Lighting and power to restroom, concession and alligator house facilities, as well as general site lighting and power distribution were included in MCA's electrical scope of work. Electrical design also included reconfiguration of major, existing site power distribution systems to clear areas for new construction.</p> <div style="display: flex; justify-content: space-around; align-items: center; margin-top: 20px;">   </div>	
<b>Completion Date (Actual or estimated)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2015	\$13,000,000	\$2,800,000





## 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>	
<p>Dog Park - New Orleans City Park, New Orleans, LA</p> <p>New Orleans City Park Meg Adams 504-483-9367</p>	<p>MCA is providing electrical and instrumentation engineering for a new 1,000 HP, 36" pump at the East Bank Wastewater Treatment Plant Effluent Pump Station, similar in configuration and capacity to the two existing 1,000 HP 36" pumps. MCA will also be providing electrical and instrumentation engineering for the modifications of the Effluent Pump Station pump discharge header to accommodate the new pump and to allow improvements to the flow of the parallel effluent force mains. MCA is providing electrical engineering and design to specify the new motor, drive and control, and their integration with the currently planned upgrades of the Effluent Pump Station electrical system. MCA is also providing electrical system modeling and upsizing of one substation transformer &amp; relocating another transformer to accommodate the additional electrical load due to the new 1000 HP pump.</p>	
		
		
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2009	UNKNOWN	\$400,000

## 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>	
<p>Sea Lion Pond New Orleans, Louisiana</p> <p>Audubon Nature Institute/ Audubon Commission Steve Durand (504) 861-2537</p>	<p>The existing Sea Lion Pond/Exhibit at the Audubon Zoo in New Orleans was in need of equipment replacement/upgrade. Marrero, Couvillon &amp; Associates is providing mechanical and electrical engineering services for part of this work. MCA designed the installation of an additional chiller, part of a system to maintain the pool water temperature in the comfort level for the sea lions. MCA also designed ventilation for an exhibit equipment room and electrical distribution systems for the new chiller and ventilation fan.</p> <div style="text-align: center; margin-top: 20px;">  <div style="display: inline-block; vertical-align: middle; text-align: left;"> <h1 style="margin: 0;">Jefferson Parish</h1> <h2 style="margin: 0;">State of Louisiana</h2> </div> </div> <div style="text-align: center; margin-top: 20px;">  </div>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2014	UNKNOWN	\$500,000

## 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>	
<p>City of New Orleans Youth Study Center New Orleans, LA</p> <p>City of New Orleans NANO, LLC. Ian A. Dreyer RA, NCARB (504) 486-3272</p>	<p>Addition of 24 beds to the existing new Orleans youth services center, a centrally located juvenile justice campus in new Orleans. MCA is providing electrical and mechanical design services for a new building of approximately 38,250 square feet, to include 28 sleeping units with sink/toilet combination with high security detention cell doors and locks; two classrooms; a clinic area; activity areas, day area (by the detention cells); two social workers offices, guard office, uni-sex restrooms, electric/it room, utility room, custodial room, MP storage, visitor/reception area, outdoor recreation yard and emergency power. This addition was constructed in addition to building "d" of the existing YSC center connected via a new passageway into the existing youth study center courtyard entrance.</p>	
		
		
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2018	\$12,000,000	\$2,500,000





## 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>	
<p>New Orleans Sewerage and Water Board Resiliency Complex New Orleans, Louisiana</p> <p>Sewerage and Water Board of New Orleans Ray Battaglia, P.E. (504) 865-0454</p>	<p>New Orleans Sewerage and Water Board Head House Renovation/Repurposing Critical Services Facility Center, EOC and Safe House (Resiliency Complex), New Orleans, Louisiana - – Renovation of an existing early 20th century 3-story building for use as Emergency Operations Building for the S&amp;WB, including Operations Center, office spaces, water quality testing lab, laundry and temporary living quarters. A new InFill Building, also 3-stories, will be built adjacent to the Safe House to provide a kitchen facility and additional office spaces. Marrero, Couvillon &amp; Associates is handling the Mechanical, Electrical, Plumbing and Fire Protection design.</p>	
<div style="display: flex; justify-content: space-around; align-items: center;">  <div style="text-align: center;"> <h1 style="margin: 0;">Jefferson Parish</h1> <h2 style="margin: 0;">State of Louisiana</h2> </div> </div>		
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2022	\$14,000,000	\$4,200,000






# TEC Professional Services Questionnaire

## PROJECT NO. 8

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Louisiana Wetland Education Center Lafitte, Louisiana</p> <p>Town of Jean Lafitte Mayor Timothy P. Kerner 504-689-2208</p>	<p>The Louisiana Wetland Education Center in the Town of Jean Lafitte will be an approximately 4,500 square foot interactive educational facility that will educate both local and national visitors on the importance of wetlands and wetlands restoration through the use of state-of-the-art exhibits and interactive displays. The project had several funding sources including National Restoration Damage Assessment (NRDA), LA SAFE, Louisiana Capital Outlay, and Jefferson Parish.</p> <p>Evans-Graves Engineers (EG) serves as the project manager and lead civil engineer for the project. Specific duties have included project development and agency consultation, site planning, design of preliminary and final plans, wetlands delineation oversight and coordination, permitting, and construction administration.</p> <div data-bbox="203 772 1421 1291">  </div> <div data-bbox="646 1297 1502 1722">  </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2022	\$2,500,000	\$200,000

## TEC Professional Services Questionnaire

### PROJECT NO. 9

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Jones Creek Regional Branch Library Renovations and Additions Baton Rouge, Louisiana</p> <p>East Baton Rouge Parish Spencer Watts (225) 231-3700</p>	<p>MCA was responsible for the Mechanical, Electrical, Plumbing and Fire Protection for the Renovations and Additions to the Jones Creek Regional Branch Library. Design included a complete interior renovation of this existing 35,200 sf library branch and a new 3,200 sf addition. The scope included the addition of a new HVAC system for the expansion, as this was more economical than expanding the existing system, new roofing, new storefronts and curtainwall, new finishes throughout, new lighting, upgraded HVAC system, fire alarm and sprinkler systems, new FF&amp;E package, and site drainage modifications. Space planning and functional improvements included a new entry sequence for book return and check out, redesigned teen and children's areas, redesigned book stack layout, renovated restrooms and staff lounge, updated meeting rooms, increased study rooms and collaborative spaces, new conference room, new digital lab and quiet spaces for reading. As one of the most trafficked libraries in East Baton Rouge Parish, it was a requirement that the facility remain open for the duration of construction. Careful coordination between the Owner, Design Team, and Contractor insured that the building remained open, on schedule, and on budget to produce a successful result.</p>	
		
		
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020	\$3,900,000	\$103,251

# TEC Professional Services Questionnaire

## PROJECT NO. 10

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Low Barrier Shelter New Orleans, Louisiana City of New Orleans 1300 Perdido Street, Suite 6E15 New Orleans, LA 70112 Subconsultant to Mathes Group Tony Alfortish (504) 586-9303</p> <div data-bbox="323 791 568 1152" data-label="Image"> </div>	<p>Marrero, Couvillon &amp; Associates has provided mechanical and electrical engineering design for a homeless shelter for the City of New Orleans. The facility provides year round, 24 hours shelter for homeless adults with minimal restrictions. The work involved demolition and build-out within an existing building that was previously used for medical purposes. MCA provided engineering design for HVAC, plumbing, fire protection and electrical systems for the project. This facility is part of a larger building that is mostly unoccupied. The design effort included tracing down all domestic water systems and tying into existing supply systems and redesign of all plumbing in the shelter.</p> <div data-bbox="643 791 1321 1157" data-label="Image"> </div> <div data-bbox="704 1180 1435 1726" data-label="Image"> </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018	\$1,750,000	\$700,000



## **TEC Professional Services Questionnaire**

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

<b>Parties:</b>		<b>Status/Result of Case:</b>
<b>Plaintiff:</b>	<b>Defendant:</b>	
<b>1.</b> None		
<b>2.</b>		
<b>3.</b>		
<b>4.</b>		

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

**MARRERO, COUVILLON & ASSOCIATES, LLC (MCA)** MARRERO, COUVILLON & ASSOCIATES, LLC (MCA) is an engineering design consulting firm with over forty years of experience. Our engineering services include electrical, mechanical and plumbing (MEP) disciplines. Services within these disciplines include:

- Investigation/Evaluation/Recommendations for existing systems
- Design of new or upgraded MEP systems
- Construction Administration services
- Field Inspection services.

The firm is current with today's rapidly changing design technologies. In this regard, MCA offers design documentation in Revit, AutoCAD and Microstation.

Founded in Baton Rouge in 1968 by Hugo A. Marrero, Sr., P.E, MCA operates a second location in Metairie, La. The Metairie location is managed by Greg DeCoursey, A.I.A. Our in-house architect serves as a beneficial liaison between our engineering design teams and the over-all project concept.

MCA's certification as a Disadvantaged Business Enterprise (DBE) by the Unified Certification Program of the Louis Armstrong New Orleans International Airport, and the Louisiana Department Of Transportation And Development (DOTD) adds value to many publicly funded projects. Additional certifications include:

- State and Local Disadvantaged Business Enterprise (SLDBE)
- Small Entrepreneurship – Hudson Initiative
- Small and Emerging Business Development (SEBD)
- Small Business Administration 8A (SBA 8a)

In addition to our capacity as prime consultant on projects for owners, contractors, and governmental agencies, Marrero, Couvillon also performs engineering services as a sub-consultant to other design professionals. Our work covers a diverse range of public, commercial and industrial projects; large and small including:

- Sewerage and Drainage
- Historical Renovations
- Parks and Recreation, including zoos
- Commercial facilities such as hotels and restaurants
- Government facilities
- Airports – terminals, hangars, airfield power/lighting
- Highways, Bridges and Tunnels
- Industry, including sugar processing facilities and petrochemical installations
- Universities and schools.

## TEC Professional Services Questionnaire

MCA's team of experienced engineers, design technicians, Computer Aided Design/Drafting (CADD) staff, field technicians and specification writers work under the supervision of experienced project managers to develop professional construction documents used for the execution of engineering projects.

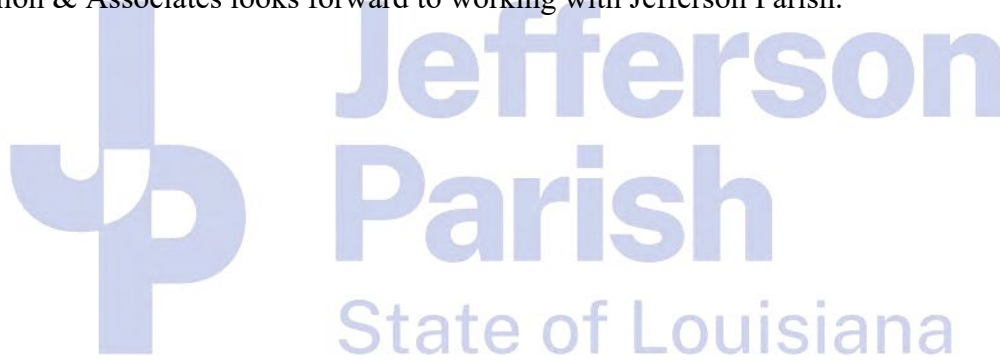
1. **Professional training and experience in relation to the type of work required for the routine engineering services.** The team of professionals at Marrero, Couvillon & Associates, LLC. has varied and extensive experience in providing electrical engineering services as prime consultant, or as subconsultants. Our engineering team has over 200 years of combined experience. As evident in our project experience in Section L, MCA has performed similar projects of all types and sizes.
2. **Size of firm.** Marrero, Couvillon & Associates has two complete departments for Mechanical Engineering and Electrical Engineering. Each department is run by a licensed Professional Engineer. Each department has designers and CAD technicians to proficiently handle the field visits, meetings, drawings and specifications meeting all code requirements to complete these projects safely, efficiently and to meet the needs of the Jefferson Parish. Our staff of 35 professionals are prepared to serve.
3. **Workload.** Presently MCA is seeking to diversify and expand its present workload and would welcome the opportunity to serve Jefferson Parish. As depicted in the chart below many of our project are in CA services, or nearing completion. The staff of MCA recognizes the required activities for this project and concludes that MCA has the capacity to meet the requirements to develop all aspects of the work associated with this project. MCA staff assigned to this project will be scheduled with all of the time necessary to provide services required, at the time when they are needed.

Project Name and Location	Current Status
City Hall & Civil Courts MEP Upgrades	CA Services
US 11 Bridge Rehabilitation	CA Services
LA Tuna Federal Bureau of Prisons	Design
Fort Worth Bureau of Prisons Modernize Electrical System	Design
New Orleans Police Department Firing Ranges	CA Services
Galveston 14th Street Drainage Improvements	CA Services
DeQuincy Airport T Hangars	Design
Skelly Rupp Stadium	Design
Lafayette Terminal Construction Administration	CA Services
Union Station Passenger Terminal Chiller Central Plant	CA Services
Municipal Court Renovations	Design
Treme Community Center Elevator Accessibility	Bidding
Avenger Field Lighting	Bidding
Natchitoches Airport Runway 7025 Rehab	Design
NWWTP Effluent Pump Station	Design
Department of Environmental Services Building Renovation	Design
Bluebonnet Boulevard Lighting	Design
Terrace Avenue Lighting	Design
VA Hospital Building Renovations	CA Services
North Boulevard Corridor Enhancement	Design

## TEC Professional Services Questionnaire

4. **Past Performance on Jefferson Parish contracts.** Marrero, Couvillon & Associates welcomes the opportunity to provide engineering services for Jefferson Parish. We were the subconsultants on the Bayou Segnette Pumping Station project. We were subconsultants on the West Esplanade F8-4, F\*-5 Lift Station project and the Upper LA 45 Tidal Storm Surge Protection Project. We have not worked as a prime to the parish for many years. We have, however, been involved with many projects within Jefferson Parish, including projects for the design of the New Terminal for the Louis Armstrong International Airport in Kenner, and the rehabilitation of Harvey Canal Tunnel.
5. **Location of the principal office.** Marrero, Couvillon & Associates offers two locations to best meet our client needs. Our Metairie office located at 3525 Hessmer Ave. will serve as our headquarters for this project.
6. **Adversarial Legal proceedings between the Parish and the firm.** MCA has never encountered an adversarial situation with Jefferson Parish and plans to keep it that way.
7. **References for successful completion of projects.** MCA is pleased to provide references for projects of similar nature. Please refer to Section L, Work by Firm, Project owner names and contact information.

Marrero, Couvillon & Associates looks forward to working with Jefferson Parish.



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

Signature:  \_\_\_\_\_ Print Name: Greg DeCoursey, AIA  
Title: Project Manager \_\_\_\_\_ Date: March 27, 2023

## **Technical Evaluation Committee (TEC) Questionnaire**

### **Instructions**

- The Technical Evaluation Committee (TEC) Questionnaire shall be used for professional services related to architecture, engineering, or survey projects.
- **The TEC Questionnaire should be completely filled out. Complete and attach ALL sections. Insert “N/A” or “None” if a section does not apply or if there is no information to provide.**
- Questionnaire must be signed by an authorized representative of the Firm. Failure to sign the questionnaire shall result in disqualification of proposer pursuant to J.P. Code of Ordinances Sec. 2-928.
- All subcontractors must be listed in the appropriate section of the Questionnaire. Each subcontractor must provide a complete copy of the TEC Questionnaire, applicable licenses, and any other information required by the advertisement. Failure to provide the subcontractors' complete questionnaire(s), applicable licenses, and any other information required by the advertisement shall result in disqualification of proposer pursuant to J.P. Code of Ordinances Sec. 2-928.
- If additional pages are needed, attach them to the questionnaire and include all applicable information that is required by the questionnaire.

## TEC Professional Services Questionnaire

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

SOQ 23-006 Design and Construction Administration of a New East Bank Jefferson Parish Animal Adoption & Services Facility. Resolution No. 141465

**B. Firm Name & Address:**

Carubba Engineering Inc  
3400 Hessmer Avenue  
Metairie, Louisiana 70002

**C. Name, title and contact information of Principal, as defined in Section 2-926 of the Jefferson Parish Code of Ordinances, who is a registered, licensed architect, professional engineer, or surveyor in the State of Louisiana:**

Roy M. Carubba, PE #24653  
504.888.1490  
roy@carubbaengineering.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.**

R. Alan Harris, PE #39532  
504.888.1490  
alan@carubbaengineering.com

Matthew T. Dauphin, PE #41793  
504.888.1490  
matt@carubbaengineering.com

Emma H. Taylor, PE #45695  
504.888.1490  
emma@carubbaengineering.com

**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>1</u> Graduate Engineers
<u>4</u> Civil Engineers	<u>    </u> Interior Designers	<u>2</u> Project Managers
<u>    </u> Construction Inspectors	<u>    </u> Landscape Architects	<u>    </u> Clerical
<u>    </u> Ecologists	<u>    </u> Land Surveyor	<u>    </u> Grant/Funding Specialist
<u>    </u> Electrical Engineers	<u>    </u> Mechanical Engineers	<u>    </u> Sanitary Engineers
<u>1</u> Engineer Intern	<u>    </u> Environmental Engineers	
<u>    </u> Professional Land Surveyors		<u>10</u> <b>TOTAL</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

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

1.  
N/A

2.  
N/A

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

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

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

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

11 \_\_\_\_\_

## 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:**

Roy M. Carubba, PE  
Principal Engineer

**Project Assignment:**

Principal in charge. Review and coordinate work efforts.

**Name of Firm with which associated:**

Carubba Engineering, Inc

**Years' experience with this Firm:**

30 years

**Education: Degree(s)/Year/Specialization:**

Bachelor of Science/1986/Civil Engineering

**Active registration: Year first registered/discipline:**

1991/Professional Civil Engineer

**Other experience and qualifications relevant to the proposed Project:**

See Curriculum Vitae attached

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
R. Alan Harris, PE Senior Civil Engineer
<b>Project Assignment:</b>
Design engineering and coordination of work efforts.
<b>Name of Firm with which associated:</b>
Carubba Engineering, Inc
<b>Years' experience with this Firm:</b>
13 years
<b>Education: Degree(s)/Year/Specialization:</b>
Bachelor of Science/2010/Civil Engineering
<b>Active registration: Year first registered/discipline:</b>
2015/Professional Civil Engineer
<b>Other experience and qualifications relevant to the proposed Project:</b>
See Curriculum Vitae attached



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Matthew T. Dauphin, PE Lead Civil Engineer
<b>Project Assignment:</b>
Design engineering and coordination of work efforts.
<b>Name of Firm with which associated:</b>
Carubba Engineering, Inc
<b>Years' experience with this Firm:</b>
12 years
<b>Education: Degree(s)/Year/Specialization:</b>
Bachelor of Science/2013/Civil Engineering
<b>Active registration: Year first registered/discipline:</b>
2017/Professional Civil Engineer
<b>Other experience and qualifications relevant to the proposed Project:</b>
See Curriculum Vitae attached

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Emma H. Taylor, PE Profesional Engineer
<b>Project Assignment:</b>
Design engineering, calculations, and field work
<b>Name of Firm with which associated:</b>
Carubba Engineering, Inc
<b>Years' experience with this Firm:</b>
7 years
<b>Education: Degree(s)/Year/Specialization:</b>
Bachelor of Science/2017/Civil Engineering
<b>Active registration: Year first registered/discipline:</b>
2021/Professional Civil Engineer
<b>Other experience and qualifications relevant to the proposed Project:</b>
See Curriculum Vitae attached

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Remy J. Rehage, EI Engineer Intern
<b>Project Assignment:</b>
Design calculations, field work, and drafting.
<b>Name of Firm with which associated:</b>
Carubba Engineering, Inc
<b>Years' experience with this Firm:</b>
8 years
<b>Education: Degree(s)/Year/Specialization:</b>
Bachelor of Science/2015/Civil Engineering
<b>Active registration: Year first registered/discipline:</b>
2018/Engineering Intern
<b>Other experience and qualifications relevant to the proposed Project:</b>
See Curriculum Vitae attached

## 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:	
NOLA Motorsports Park Nicolle Boulevard Avondale, LA	700 acre commercial development. Design of 16, two-story steel frames with reinforced concrete pile foundations. Design of water, sewer, paving, grading, and drainage.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2012	\$65,000,000.00	\$15,000,000.00

### PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Jefferson Parish Fire Training Facility, Avondale, LA Client: Murray Architects 13760 River Road Destrehan, LA 70047 Michael Tabb AIA 985.764.7275	Design of single story steel frame building with deep pile foundation	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2011	\$5,500,000.00	\$2,500,000.00

## 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>	
St. Mary Academy, New Orleans, LA Client: Rozaz-Ward Architects 1100 Poydras Street, Suite 3550, New Orleans, LA 70163 Charles Ward 504.524.4375	Design of 7, two-story structural steel frames with deep pile foundations, along with paving, grading, drainage, water, and sewer design for the campus.	
<b>Completion Date (Actual or estimated)</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2007	\$31,000,000.00	\$10,000,000.00

<b>PROJECT NO. 4</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
Dependable Storage, Jefferson, LA Owner: Dependable Storage 327 South Rampart Street New Orleans, LA 70112 Dave Bauman 50.251.9573	Design and construction management of an 80,000 square foot self storage facility in Jefferson Parish. Services included architectural, civil, and structural engineering design.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2014	\$6,700,000.00	\$6,700,000.00

## 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>	
St. Charles Parish Sheriff's Office and Training Facility, Hahnville, LA Client: Murray Architects 13760 River Road Destrehan, LA 70047 Michael Tabb AIA 985.764.7275	Design of a 46,000 square foot, three-story steel and concrete frame with deep pile foundation.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2013	\$5,000,000.00	\$2,300,000.00

<b>PROJECT NO. 6</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
New Orleans Libraries - Lakeview, Algiers, New Orleans East, and Gentilly Client: Gibbs Construction 5736 Citrus Boulevard #200 New Orleans, LA 70123 Brian Bertucci 504.733.4336	Design of 4, two-story structural steel frames with deep pile foundation and steel framing for four separate libraries. Also designed paving, grading, drainage, water, and sewer.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2010	\$23,500,000.00	\$7,500,000.00



## 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>	
Lakeshore Library Jefferson Parish 1000 West Esplanade Avenue Metairie, LA 70005	Design of single-story, steel frame, paving, grading, drainage, water, and sewer.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2011	\$3,000,000.00	\$1,200,000.00

<b>PROJECT NO. 8</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
Torah Academy 5210 West Esplanade Avenue Metairie, LA 70006 Owner: Torah Academy Client: Rozaz Ward Architects 1100 Poydras Street, Suite 3550 New Orleans, LA 70113	Design of single-story, steel frame building, deep foundation, steel framing, paving, grading, and drainage, water, and sewer.	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2014	\$1,800,000.00	\$975,000.00

## 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>	
Audi New Orleans 3400 North Causeway Boulevard Metairie, LA Client: Mouton Long Turner Architects 601 Papworth Avenue #200 Metairie, LA 70005	Addition to existing steel frame and construction of new two-story, structural steel building with deep piles in foundation. Also design, paving, grading, and drainage engineering.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2014	\$7,200,000.00	\$2,000,000.00

<b>PROJECT NO. 10</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
Paretti Dealerships Veterans Boulevard, Metairie, LA	Renovation and addition to existing automobile dealership. Architectural and engineering services; permitting, code research, drainage study, water and sewer plans, deep foundation and steel framing plans for proposed addition. Analysis of existing structure for code compliance.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2019	\$10,650,000.00	\$5,450,000.00

## TEC Professional Services Questionnaire

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

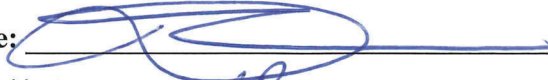

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1. N/A	N/A	N/A
2.		
3.		
4.		

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

Carubba Engineering, Inc. (CEI) is a full service civil and structural engineering firm specializing in production of detailed design drawings and specifications for industrial, commercial, marine and institutional clients in Louisiana and the Gulf Coast region. CEI has completed over 6,000 projects ranging from small residential additions to high-rise towers, as well as, deep water docks and site master plans. We are proficient in the following sub disciplines of civil engineering:

Deep foundation design - industrial, commercial, marine, and residential  
 Structural steel - industrial, commercial, and marine  
 Infrastructure including water (potable and fire), sewer (landside and marine), roadways, drainage and storm water management  
 Special metals - aluminum, carbon fiber, and special alloys  
 Site development including master planning  
 Comprehensive drainage studies and hydrologic analysis  
 We are also capable of providing crucial construction related services integral to bringing large, industrial projects to successful completion.  
 Construction budgeting  
 Permitting (Federal, State, and local) for construction, environmental, and operations  
 Construction management and construction administration

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

Signature:  Print Name: Roy M. Carubba  
 Title: President  Date: 3.29.2023

## **Roy M. Carubba, P.E.**

3400 Hessmer Avenue  
Metairie, LA 70002  
504-888-1490

### **EDUCATION**

B.S. Civil Engineering, University of New Orleans, 1986

### **PROFESSIONAL REGISTRATION**

Louisiana	24653	New York	092167-1
Mississippi	14131	NCEES	17082
Texas	102621	North Carolina	44789
Florida	79776	Pennsylvania	090845
Michigan	6201069614	Tennessee	103297
New Jersey	24GE05131000	Maryland	49270
Georgia	025580		

### **AREAS OF EXPERTISE**

Civil, Marine, and Structural Engineering, Project Management, Cost Evaluation, Project Feasibility, Forensic Analysis

### **PROFESSIONAL EXPERIENCE**

*Carubba Engineering, Inc.*

*President  
1993-Present*

- Proficient in all aspects of engineering design and analysis of structural steel, concrete, and timber, as well as special metals and materials
- Marine engineering experience extends to structural design of deep-water dock design (including heavy weather mooring analysis), mooring and breasting dolphins, access roads, and fenders
- Dry bulk designs for grain, fertilizer, crushed stone, coal, and other commodities common to region
- Structural engineering experience includes design of multi-story frames (both concrete and steel), deep foundations, structures in coastal regions requiring high wind designs, and designs with special metals
- Civil engineering expertise includes comprehensive drainage studies for site development, paving, grading and drainage designs, sewer and water supply
- Forensic Engineering for cause and origin of structural failures of buildings, retaining walls, paving, foundations (separate and apart from buildings)
- Third party building inspections for Jefferson Parish and St. Charles Parish (post Katrina) including complete building inspections at all phases of construction, special inspections for plumbing and electrical, and code interpretation for purposes variances

*Wink, Inc.*

*Project Manager  
1990-1993*

- Project management for various waste-water drainage projects, refinery wide drainage study
- Project manager for \$20 million new dock construction
- \$3.2 million maintenance shop renovation and expansion, as well as numerous industrial and commercial projects in the lower Mississippi River Region

*Riverplex International  
Dry Bulk Terminal*

*Facility Engineer  
1988-1990*

- Engineer responsible for design, procurement, and construction management of new conveyor belts, new 50,000 square foot storage slabs, belts, loaders and spouts
- Project manager for construction of a new barge mounted midstream-unloading crane, numerous facility special projects related operation and maintenance of the terminal including new maintenance shops, storage warehouse and office complex

*Barnes Engineering, Inc.*

*Design Engineer  
1988*

- Design of various heavy marine structures and industrial buildings for various clients in the lower Mississippi River Region
- Design of mooring and breasting dolphins, fenders for deep water docks along Mississippi River
- Design of dry bulk conveying systems including structural (bents, trusses, and foundations) and mechanical

*U.R.S. Consultants, Inc.*

*Civil Engineer  
1987-1988*

- Inspection and field construction of new floodwall through Pontchartrain Beach
- Structural Design Engineer for LADOTD highway bridges as well as numerous commercial buildings

*River Consulting, Inc.*

*Design Engineer  
1986-1987*

- Designed various structures for industrial clients, including warehouses, maintenance buildings, office complexes and control rooms, pump houses, and storage buildings

## **KEY PROJECTS**

- **NOLA Oil Terminal, Myrtle Grove, LA-** Liquid bulk storage facility with ocean-going barge and post-Panamax vessel deep water docks. Pile supported concrete storage tank and building foundations. Steel monopile and pile-cluster marine dolphins for vessel mooring and breasting. Structural steel hose towers and loading arm capable marine platforms. Secondary levee containment at storage tanks. Subsurface drainage and utilities. Construction cost \$656,000,000.
- **Waterloo Dry Bulk Terminal, Geismar, LA-** Deep foundation and steel framing design for 1,500 linear feet of conveyor system designed to carry 800 tons/hour aggregate over rail and highways. Design also features 144-foot free span truss design. Construction cost \$20,000,000.
- **NOLA Motorsports Park, Avondale, LA -** Complete in 2012 the NOLA Motorsports Park boasts one of the longest club car racing type circuits in the country. The \$80,000,000 Park facilities are comprised of multiple tracks, race control towers, club house, service garages, fueling services and other amenities utilized by group and individual racing enthusiasts across the southern region of the United States. Overall management for the planning, permitting and approval processes required to begin and continue construction of the phased facility. Construction cost \$75,000,000.
- **Slip B LNG Terminal, Golden Meadow, LA –** Liquid natural gas storage and fueling facility constructed of deep foundations and retention areas. Below-grade impoundment storage with 90,000 gallon capacity excavated by means of steel sheet piles and concrete anchoring system. Design of pipe rack systems using structural steel framing and continuous grade beam foundation. Soil supported equipment pad foundations. Design of above-grade concrete containment walls. Support pedestals for three LNG storage tanks (750,000 lbs. each) elevated 13 feet above grade. Construction cost \$10,000,000.
- **New York Rising, New York-** Elevation of residences to updated FEMA Base flood elevation requirements through “New York Rising” federal program. Design of deep foundation systems using helical pile and grade beam construction. Over 150 residences raised. Construction cost \$22,000,000.
- **Coastal Petroleum Tank Farm, Braithwaite, LA-** Foundation design for 11,000 square foot petroleum tank farm, 15,000 square foot petroleum storage warehouse, and over 2,000 linear feet of barge accessible dock with appropriate mooring and breasting dolphins. Construction cost \$10,000,000.
- **Dominica Dock, Dominica-** Reinforced concrete dock structure used for tourist and marine-going vessels. Deep marine foundations and footings. Design of repair-methods using corrosion resistant materials. Construction cost \$4,000,000.
- **Bulk Storage Facility & Refinery, Grand Bahama, The Bahamas-** Bulk storage terminal, petroleum refinery, ship berth, and appropriate site development. Approximate 700-acre site for development of 20 million barrel storage terminal and 750,000 barrel per day refinery terminal, with appropriate facilities for operations as well as structures required for refinery operations. Ship berthing structure designed to accept VLCC and ULCC sized vessels



located in approximately 100 feet of water. Estimated total construction cost \$1,900,000,000.

- **Planation View Medical Offices, Destrehan, LA** – 65,000 square foot three story steel and concrete building, supported by deep foundation, structural and light gauge steel framing, elevated concrete. Construction cost \$6,000,000.
- **St. Charles Parish Sheriff's Training Facility, Luling, LA** – 46,000 square foot multi-story steel and concrete building consisting of offices, meeting rooms, and open area training rooms. Structure is supported by deep wooden pile foundation, steel framing designed for gravity and lateral loads, elevated concrete floors designed to span between steel bar joists and provide rigidity throughout building. Construction cost \$3,000,000.
- **Holiday Inn, Morgan City, LA** – 80,000 square foot four story wooden framed hotel with long span steel structures. Structure is supported by reinforced concrete slab resting on deep foundation. Building was analyzed for and designed to resist 130 MPH hurricane region wind design. Pool is designed to withstand passive and active hydraulic pressure due to the close proximity and variable water table. Construction cost \$2,500,000.
- **Fuel Storage Tanks, Sewer and Water board New Orleans, LA** – Foundation design for (2) 500,000 gallon fuel storage tanks. Value engineered foundation plans to save municipality approximately 30% of overall budget. Reduced total concrete by 40% and concrete reinforcement by 60%. Also reduced completion time by 4 months of 18-month project. Construction cost 6,500,000.
- **Aurora Village Retail Shopping Center, Algiers, LA** – 65,000 square foot retail shopping center; pre-engineered metal frames supported by reinforced concrete grade beams and pile caps, both resting on deep wooden piles; reinforced concrete floor slab economically designed by 2 ways analysis per ACI standards; light gauge metal façade and parapet designed per owner specifications. Construction cost \$5,000,000.
- **700 Baronne Street, New Orleans, LA** – 9,000 square foot retail/residential building in historic New Orleans; existing wooden and masonry elements analysis; connection of existing wooden to new composite wooden members as required for code compliance; steel framing as required. Construction cost \$1,500,000.
- **Stephens Garage, New Orleans, LA** - Analysis of a 130,000 square foot, five-story, eighty-year-old concrete cast in place structure for occupancy change and future use from parking garage to residential living. Foundation analysis of existing piles and footing for additional story load. New foundation and framing design for new adjacent five story car elevator, including lateral and dynamic loading associated with vehicular traffic. Construction cost 14,000,000.
- **Audi Dealership, Lafayette, LA** - 40,000 square foot multi-story steel and concrete building consisting of mezzanines, offices, meeting rooms, and show rooms. Structure is supported by a soil supported foundation, steel framing designed for gravity and lateral loads, elevated concrete decking designed to span between structural steel joists and provide rigidity throughout building. Construction cost \$7,000,000.

- **LaQuinta Inn & Suites, Galliano, LA** - 52,000 square foot four story steel framed hotel with long span steel structures above first floor lobby and meeting rooms. Structure is supported by reinforced concrete slab resting on deep foundation. Building was analyzed for and designed to resist 120 MPH hurricane region wind design. Design of framing using composite beam systems. Construction cost \$12,000,000.
- **Gray Insurance Office Building, Metairie, LA** – New 32,000 square foot four story office building with elevated concrete framing at second floor and structural steel framing above. Framing connected to two existing adjacent buildings via structural steel walkways. Lateral analysis and structural modification for renovation of the two neighboring buildings. Design of deep foundation using timber piles with grade beams and pile caps. Construction cost \$13,000,000.

**R. Alan Harris, P.E. MLE**

3400 Hessmer Avenue  
Metairie, LA 70002  
504-888-1490

**EDUCATION**

B.S. Civil Engineering, University of New Orleans, 2010

**PROFESSIONAL REGISTRATION**

NCEES	65392	Florida	83878
Louisiana	39532	New York	096732
Alabama	35748-E	North Carolina	44703
Arkansas	17012	South Carolina	33188
Mississippi	27090	Tennessee	119060
Indiana	11700675	Texas	128041

**AREAS OF EXPERTISE**

Civil Engineering, Structural Engineering, Marine Engineering, Deep and Shallow Foundation Design, Structural Steel, Lateral Analysis and Design, Long Span Truss Design, Drafting, Project Management, Hydraulic Drainage Design, Water Retention Design, Open Channel Design, Cost Evaluation, Project Feasibility, Project Coordination, Code Compliance, Forensic engineering expertise, includes Hurricane Harvey, Isaac, Gustav, Katrina, and Rita with subsequent assessments to existing structures for the forces of nature, that include hydrodynamic forces and cyclic wind forces. Also certified in legal system as an expert witness and provided testimony for similar load cases listed herein.

**PROFESSIONAL EXPERIENCE**

*Carubba Engineering, Inc.*

*2010 - Present*

- Proficient in all aspects of design of structural steel, concrete and timber, as well as special metals and materials
- Structural framing design experience includes design of single and multi-story frames (concrete, steel, and wood), marine structures (docks, fenders, mooring and breasting dolphins), structures in coastal regions requiring high wind designs, and designs with special metals
- Structural foundation design for both shallow and deep foundations. Deep foundations designed using wood, steel, concrete, and auger piles. Shallow foundations supported by pre-consolidated soils and other means of soil improvements used to design residential, commercial, and industrial buildings and roadways.
- Civil engineering expertise includes comprehensive drainage studies for site development, paving, grading and drainage designs, sewer and water supply

## **KEY PROJECTS**

- **Waterloo Dry Bulk Terminal, Geismar, Louisiana** - Deep foundation steel framing design for 1,500 linear feet of conveyor system design to carry 800 tons/hour aggregate over rail and highways. Design also features 144-foot free span truss design. Construction cost \$20,000,000.00.
- **Coastal Petroleum Tank Farm, Braithwaite, Louisiana** - Foundation design for 11,000 square foot petroleum tank farm, 15,000 square foot petroleum storage warehouse, and over 2,000 linear feet of barge accessible dock with appropriate mooring and breasting dolphins. Construction cost \$10,000,000.00.
- **Dominica Dock, Dominica** - Reinforced concrete dock structure used for tourist and marine-going vessels. Deep marine foundations and footings. Design of repair-methods using corrosion resistant materials. Construction cost \$4,000,000.00.
- **Bulk Storage Facility & Refinery, Grand Bahama, The Bahamas** - Bulk storage terminal, petroleum refinery, ship berth, and appropriate site development. Approximate 700 acre site for development of 20 million barrel storage terminal and 750,000 barrel per day refinery terminal, with appropriate facilities for operations as well as structures required for refinery operations. Ship berthing structure designed to accept VLCC and ULCC sized vessels located in approximately 100 feet of water. Estimated total construction Cost \$1,900,000,000.00
- **Planation View Medical Offices, Destrehan, Louisiana** - 65,000 square foot three story steel and concrete building, supported by deep foundation, structural and light gauge steel framing, elevated concrete. Construction cost \$6,000,000.00.
- **St. Charles Parish Sheriff's Training Facility, Luling, Louisiana** – 46,000 square foot multi-story steel and concrete building consisting of offices, meeting rooms, and open area training rooms. Structure is supported by deep wooden pile foundation, steel framing designed for gravity and lateral loads, elevated concrete floors designed to span between steel bar joists and provide rigidity throughout building. Construction cost \$3,000,000.00.
- **Holiday Inn, Morgan City, Louisiana** – 80,000 square foot four story wooden framed hotel with long span steel structures Structure is supported by reinforced concrete slab resting on deep foundation. Building was analyzed for and designed to resist 130 MPH hurricane region wind design. Pool is designed to withstand passive and active hydraulic pressure due to the close proximity and variable water table. Construction cost \$2,500,000.00.
- **Fuel Storage Tanks, Sewer and Water board New Orleans, Louisiana** - Foundation design for (2) 500,000 gallon fuel storage tanks. Value engineered foundation plans to save municipality approximately 30% of overall budget. Reduced total concrete by 40% and concrete reinforcement by 60%. Also reduced completion time by 4 months of 18-month project.
- **Aurora Village Retail Shopping Center, Algiers, Louisiana** – 65,000 square foot retail shopping center; pre-engineered metal frames supported by reinforced concrete grade beams and pile caps, both resting on deep wooden piles; reinforced concrete floor slab

economically designed by 2 ways analysis per ACI standards; light gauge metal façade and parapet designed per owner specifications. Construction cost \$5,000,000.00.

- **700 Baronne Street, New Orleans, Louisiana** – 9,000 square foot retail/residential building in historic New Orleans; existing wooden and masonry elements analysis; connection of existing wooden to new composite wooden members as required for code compliance; steel framing as required. Construction cost \$1,500,000.00.
- **Buckeye Partners, Ingleside, Texas** – Design of 250 foot long cofferdam to retain 40 feet of intercoastal water way at the entrance to a four acre graving dock. Analysis of the existing graving docks, walls, slab, and all components associated with safe occupancy of such. Schedule, contact negotiation, and ten months of daily on site observation of the graving dock construction and engineering associated with the adjacent sixty acre marine facility. Construction cost \$60,000,000.00.
- **Stephens Garage, New Orleans, Louisiana** - Analysis of a 130,000 square foot, five-story, eighty year old concrete cast in place structure for occupancy change and future use from parking garage to residential living. Foundation analysis of existing piles and footing for additional story load. New foundation and framing design for new adjacent five story car elevator, including lateral and dynamic loading associated with vehicular traffic. Construction cost \$20,000,000.00.

## **Matthew Dauphin, P.E.**

3400 Hessmer Avenue  
Metairie, LA 70002  
504-888-1490

### **EDUCATION**

B.S. Civil Engineering, University of New Orleans, 2013

### **PROFESSIONAL REGISTRATION**

Louisiana	P.E. 41793	Florida	P.E. 83875
Alabama	P.E. 37037	NCEES	14-227-91
Arkansas	P.E. 17886	Mississippi	P.E. 28618
Indiana	P.E. 11700677	Michigan	P.E. 6201069620
Texas	P.E. 127979		

Autodesk Certified Professional: No. 00358633

### **AREAS OF EXPERTISE**

#### **Engineering**

Civil Engineering, Marine Engineering, Structural Engineering, Project Management, Project Feasibility, Project Coordination, Cold-Formed Steel Design, Structural Steel Design, Lateral Analysis and Design, Hydraulic Drainage Design, Water Retention Design, Open Channel Design, Deep and Shallow Foundation Design, Storefront/Curtain Wall Analysis.

#### **Drafting**

Proficiency in drafting and modeling software including AutoCAD and Revit, code research for municipalities in all areas of construction, site inspection, and shop drawing review.

### **PROFESSIONAL EXPERIENCE**

*Carubba Engineering, Inc.*

*2011-Present*

- Proficient in all aspects of design of structural steel, concrete and timber, as well as special metals and materials
- Structural design experience includes design of multi-story frames (both concrete and steel), deep foundations, marine structures (docks, fenders, mooring and breasting dolphins), structures in coastal regions requiring high wind designs, and designs with special metals
- Civil engineering expertise includes comprehensive drainage studies for site development, paving, grading and drainage designs, sewer and water supply

### **KEY PROJECTS**

- **Slip B LNG Terminal, Golden Meadow, LA** – Liquid natural gas storage and fueling facility constructed of deep foundations and retention areas. Below-grade impoundment storage with 90,000 gallon capacity excavated by means of steel sheet piles and concrete anchoring system. Design of pipe rack systems using structural steel framing and continuous grade beam foundation. Soil supported equipment pad foundations. Design of above-grade



concrete containment walls. Support pedestals for three LNG storage tanks (750,000 lbs. each) elevated 13 feet above grade. Construction cost \$10,000,000.00

- **NOLA Oil Terminal, Myrtle Grove, LA-** Liquid bulk storage facility with ocean-going barge and post-panamax vessel deep water docks. Pile supported concrete storage tank and building foundations. Steel monopile and pile-cluster marine dolphins for vessel mooring and breasting. Structural steel hose towers and loading arm capable marine platforms. Secondary levee containment at storage tanks. Subsurface drainage and utilities. Construction Cost \$40,000,000.
- **Dominica Dock, Dominica-** Reinforced concrete dock structure used for tourist and marine-going vessels. Deep marine foundations and footings. Design of repair-methods using corrosion resistant materials. Construction cost \$4,000,000.00.
- **New York Rising, New York-** Elevation of residences to updated FEMA Base flood elevation requirements through “New York Rising” federal program. Design of deep foundation systems using helical pile and grade beam construction. Over 150 residences raised. Construction cost \$22,000,000.00.
- **Audi Dealership, Lafayette, LA** - 40,000 square foot multi-story steel and concrete building consisting of mezzanines, offices, meeting rooms, and show rooms. Structure is supported by a soil supported foundation, steel framing designed for gravity and lateral loads, elevated concrete decking designed to span between structural steel joists and provide rigidity throughout building. Construction cost \$7,000,000.00.
- **LaQuinta Inn & Suites, Galliano, LA** - 52,000 square foot four story steel framed hotel with long span steel structures above first floor lobby and meeting rooms. Structure is supported by reinforced concrete slab resting on deep foundation. Building was analyzed for and designed to resist 120 MPH hurricane region wind design. Design of framing using composite beam systems. Construction cost \$12,000,000.00.
- **Gray Insurance Office Building, Metairie, LA** – New 32,000 square foot four story office building with elevated concrete framing at second floor and structural steel framing above. Framing connected to two existing adjacent buildings via structural steel walkways. Lateral analysis and structural modification for renovation of the two neighboring buildings. Design of deep foundation using timber piles with grade beams and pile caps. Construction cost \$13,000,000.00.
- **St. Charles Parish Sheriff's Training Facility, Luling, LA** – 46,000 square foot multi-story steel and concrete building consisting of offices, meeting rooms, and open area training rooms. Structure is supported by deep wooden pile foundation, steel framing designed for gravity and lateral loads, elevated concrete floors designed to span between steel bar joists and provide rigidity throughout building. Construction cost \$3,000,000.00.
- **Plantation View Medical Offices, Destrehan, LA** – 65,000 square foot three story steel and concrete building, supported by deep foundation, structural and light gauge steel framing, elevated concrete. Construction cost \$6,000,000.00.

## **Emma H. Taylor, P.E.**

Carubba Engineering, Inc.  
3400 Hessmer Avenue  
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504-888-1490

### **EDUCATION**

B.S. Civil Engineering, University of New Orleans, 2017

### **PROFESSIONAL REGISTRATION**

Louisiana  
NCEES

P.E. 45695  
1773982

Mississippi

P.E. 32589

### **AREAS OF EXPERTISE**

Civil Engineering, Structural Engineering, Project Coordination, Cold-Formed Steel Design, Structural Steel Design, Lateral Analysis and Design, Deep and Shallow Foundation Design, Forensic Engineering

### **PROFESSIONAL EXPERIENCE**

*Carubba Engineering Inc*

*2016-Present*

- Proficient in all aspects of design of structural steel, concrete and timber, as well as special metals and materials
- Forensic experience includes structural and construction research, report development, and analysis
- Structural design experience includes design of multi-story frames, deep and shallow foundations, structures in coastal regions requiring high wind designs, and designs with special metals
- Civil design experience includes comprehensive drainage studies for site development, paving, grading and drainage designs
- Construction experience includes field observation for construction administration, project management, and as-built verification
- Modeling/drafting experience includes AutoCAD and Sketchup modeling

*Terracon Consultants Inc*

*2015-2016*

- Proficient in soil testing and identification for a variety of soil types, including clay, sand, and organic soil
- Testing experience and calculations include soil elasticity, plasticity, strength, and moisture retaining properties

### **KEY PROJECTS**

- **Superdome Interior Renovation, New Orleans, Louisiana** – Select demolition of existing concrete ramps and floor slabs in four quadrants and on all levels of the Superdome interior. Analyzed existing structure and designed shoring systems for the purpose of supporting heavy demolition equipment, creating demolition sequences, and shoring the

existing structure for the duration of the demolition phases. Performed construction administration duties including submittals, RFI's, and change requests.

- **Hard Rock Hotel Collapse, New Orleans, Louisiana** - Expert witness research, reports, and analysis. Review and organization of all construction documents for the project including emails, letters, reports, RFI's, submittals, shop drawings, plans, sections, details, meeting agendas, meeting minutes, daily reports, etc. Produced five (5) reports and their associated exhibits for forensic production to our client.
- **Superdome Garage Repairs, New Orleans, Louisiana** - Four (4) existing 420,000 square foot concrete parking garages connected to the Superdome. Investigated, documented, and quantified areas requiring repair, established a construction estimate for the owner based on the four (4) project phases, site visits to verify repairs, numbered repairs/organized them by the type of repair required, quantified materials required for repair for estimating purposes, performed inspections at different construction milestones/produced field reports on the progress made.
- **2000 Tulane Avenue, New Orleans, Louisiana** - New 2,400 square foot (first floor) multi-use/multi-story concrete structure converting the ground floor parking to commercial space. Analyzed existing loads/structure. Designed concrete grade beam and slab additions, masonry exterior wall infill to resist required lateral loading from flood waters, and steel canopy moment frame at entrances.
- **616 Conti Street, New Orleans, Louisiana** - Renovated 5,000 square foot multi-story timber and steel frame on shallow foundation commercial restaurant and bar in the historic French Quarter. Analyzed existing building loads. Designed concrete shallow foundation integral with existing corbel footings, additional timber/steel framing integral with the existing load bearing masonry to accommodate the new loads and floor plan. Performed project management and construction administration duties.
- **Southeastern Freight, Destrehan, Louisiana** - New twenty-nine acre civil design for a trucking/freight facility. Designed subsurface drainage (catch basins/piping), gutter flow curbs, hydraulic analysis using rational method, reinforced concrete paving, and paved open-channel drainage structures.
- **World War II Museum Expansion, New Orleans, Louisiana** - Analyze and design moment and shear bracing, column, and girder connections for two new steel buildings surrounding the museum. Connections included, both, bolted and welded connections using wide flange, tube, and pipe sections.
- **Franklin Avenue Baptist Church, New Orleans, Louisiana** - New 95,000 square foot worship center and classrooms. Designed glazing connections, framing, and thirty-five foot tall curtainwall system for hurricane wind loading.
- **Civic Towers Renovation, Miami, Florida** - Construction administration for a multi-story concrete and steel framed apartment buildings in high wind speed area. Observed each metal stud panel fabricated in shop per shop drawings and each window for correct anchor requirement per Miami-Dade County wind requirements. Managed progress reports during months of fabrication and shipment of panels to the job site. Designed the anchors and

framing required for new doors in both high-rise towers for Miami-Dade County wind requirements.

- **Hurricane/Flood Reports and Inspections, (Multiple Cities) Texas and Louisiana** - Project management for over eighty inspections of damaged residences. Organized and submitted reports for homes damaged by wind, flood, and rain.
- **6000 Jefferson Highway, Harahan, Louisiana** - New 17,000 square foot pre-engineered metal building expansion. Designed a shallow foundation system on clay loam soils integral to existing structure.

### **FORENSIC ENGINEERING**

- Robichaux and Hoffmann v Baker Pile Driving & Site Work, LLC, St. Tammany Parish, Gray Insurance Company of Louisiana, Volkert, Inc, ABC Insurance Company, Terracon, Inc, and XYZ Insurance Company, 22nd Judicial District Court, St. Tammany, Louisiana, 2022
- Michael L Eckstein et al v Steven A Becnel et al, Civil District Court, New Orleans, 2022
- Cajun Cuisine v Hard Rock Construction, Civil District Court, Orleans Parish, Louisiana, 2021
- 1031 Canal Development LLC v Citadel Builders LLC et al, Civil District Court, Orleans Parish, Louisiana, 2020
- Clark v Protective Insurance, JTM Transport, DOTD, 19th Judicial District Court, East Baton Rouge Parish, Louisiana, 2019
- Pete Vicari General Contractors LLC v The Town of Jean Lafitte, Meyer Engineers LTD & XYZ Insurance Company, 24th Judicial District Court, Jefferson Parish, Louisiana, 2018
- Dr. Mary Maitland DeLand v Bankers Insurance Company; Eagan Insurance Agency LLC; Wayne M. Labiche Engineering LLC; Wayne M. Labiche; and Colonial Claims LLC, 24th Judicial District Court, Jefferson Parish, Louisiana, Supreme Court of Louisiana, 2018
- MSS v DOTD Simmons et al v DOTD, Miller et al v DOTD, 5th Judicial District, Richland Parish, Louisiana, 2018
- CDW v New Bridge, Civil District Court, Orleans Parish, Louisiana, 2017
- Specter Car Wash v Certain Underwriters, 24th Judicial District Court, Jefferson Parish, Louisiana, 2017
- Rob Ryan and Kristie Ryan v LaSalle School LLC, Civil District Court, Orleans Parish, Louisiana, 2016
- Gustave J Labarre Jr et al v Occidental Chemical et al, 23rd Judicial District Court, Assumption Parish, Louisiana, 2016
- Civic Center Site Development LLC dba Holiday Inn Downtown Superdome v Certain Underwriters at Lloyds, London (Consortium #9226), et al

## **Remy Rehage, E.I.**

Carubba Engineering, Inc.  
3400 Hessmer Avenue  
Metairie, LA 70002  
504-888-1490

### **EDUCATION**

B.S. Civil Engineering, University of New Orleans, 2015

### **PROFESSIONAL REGISTRATION**

LAPELS-Louisiana

E.I. 33786

### **AREAS OF EXPERTISE**

#### **Engineering**

Civil Engineering, Structural Engineering, Cold-Formed Steel Design, Structural Steel Design, Structural Aluminum Design, Lateral Analysis and Design, Hydraulic Drainage Design, Water Retention Design, Open Channel Design, Deep and Shallow Foundation Design, Storefront/Curtain Wall Analysis.

### **PROFESSIONAL EXPERIENCE**

*Carubba Engineering, Inc.*

*2015-Present*

- Proficient in all aspects of design of structural steel, concrete and timber, as well as special metals and materials
- Structural design experience includes design of multi-story frames, deep foundations, structures in coastal regions requiring high wind designs, and designs with special metals
- Civil engineering expertise includes comprehensive drainage studies for site development, paving, grading and drainage designs, sewer and water supply
- Field observation for construction administration and as-built verification

### **KEY PROJECTS**

- **Paretti Dealerships, Metairie, Louisiana** - 22,000 square foot two story steel frame building, supported by deep foundation; lateral bracing design, pile spacing and pile cap analysis.
- **Belle Chasse Primary School, Belle Chasse, Louisiana** - Steel framed school addition requiring detailed analysis of existing steel framing. Located damaged and out-of-place steel members in field. Document and report list of damages for repair/recalculation. Calculations for over 100 deviations of as-built connections and conditions including eccentrically loaded weld groups, out of plumb columns, damaged joists and steel beams, base plate design for canopy columns.
- **Rooms To Go, Covington, Louisiana** - Analysis and design of moment and shear bracing, column, and girder connections for new 37,000 square foot steel framed retail building.

Calculations included both bolted and welded connections using W, tube, and pipe sections, as well as, truss members.

- **Burger King (Multiple), Mid-South United States** - Over thirty new Burger King restaurants in multiple states including Mississippi, Louisiana, Tennessee, Kentucky, Arkansas, and Virginia. Research general code and loading requirements, shear wall analysis, steel beam design, steel framing, and shop drawing analysis/check.
- **Alcove Storage, Austin, Texas** - Deep/shallow foundation design of a three story, 99,927 square foot storage facility with basement; deep foundation piles of thirty feet long cast-in-place concrete.
- **Southeastern Freight, Destrehan, Louisiana** - Drainage impact analysis of an eighteen acre undeveloped site to fully developed with structures and paving; water retention and culvert design.
- **700 Baronne Street, New Orleans, Louisiana** - 9,000 square foot retail/residential building in historic New Orleans; existing wooden and masonry element analysis; connection of existing wood to new composite wooden members as required for code compliance; steel framing as required for roof penthouse/pool addition.
- **International Shipholding, New Orleans, Louisiana** - Multi-story steel framed retail/office building with store front and multi-story curtain wall glazing. Determined pressures on the glazing systems, aluminum mullion analysis, and anchor configurations for framing of windows and doors.