

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		___ TOTAL

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

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

TEC Professional Services Questionnaire

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

1.

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:

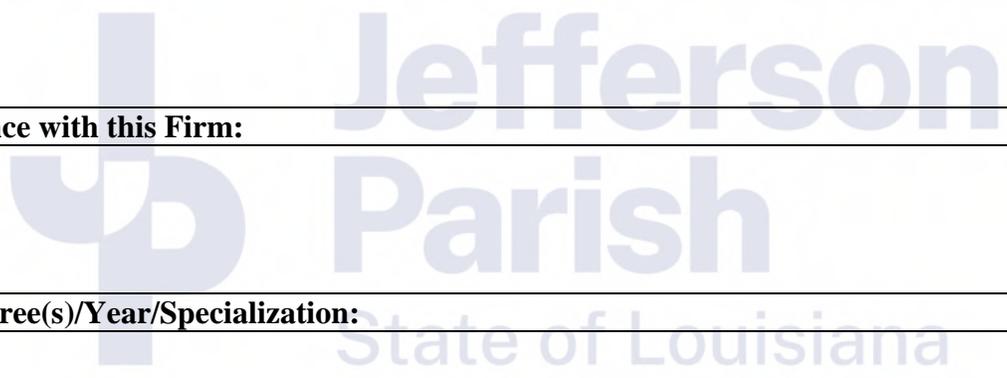
Name of Firm with which associated:

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:

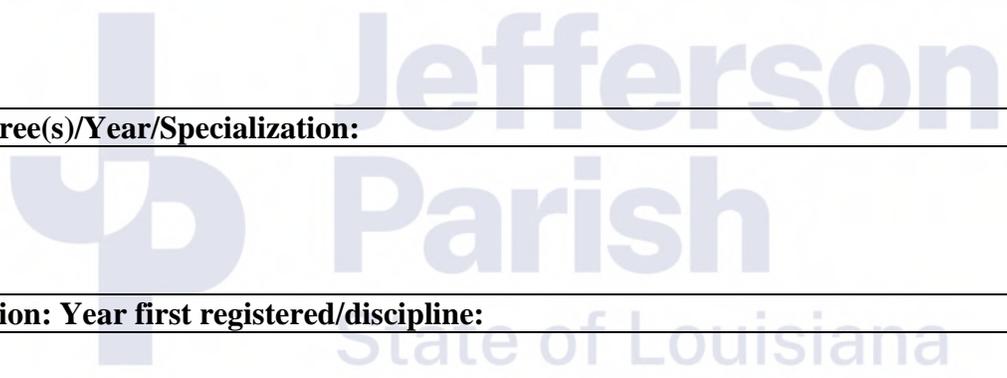


TEC Professional Services Questionnaire

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

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

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

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

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

PROJECT NO. 3		
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. 4		
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

PROJECT NO. 5		
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. 6		
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

PROJECT NO. 7		
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. 8		
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

PROJECT NO. 9		
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. 10		
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:

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:

Professional Architectural and Engineering Services on an "As Needed" Basis for Architectural Type Projects Located Throughout the Parish, Resolution No. 140999

B. Firm Name & Address:

Crumb Engineering, LLC
4609 Fairfield Street
Metairie, LA 70006

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:

Jason T. Crumb, PE
President, Crumb Engineering, LLC
jcrumb@crumbengineering.com
504-455-4450 (office)
504-388-8921 (cell)

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.

Jason T. Crumb, PE
President, Crumb Engineering, LLC
jcrumb@crumbengineering.com
504-455-4450 (office)
504-388-8921 (cell)

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

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

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

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

TEC Professional Services Questionnaire

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

1.
N/A

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. N/A		
2.		
3.		

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

5

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:

Jason T. Crumb, President, PE

Project Assignment:

Mechanical Engineer

Name of Firm with which associated:

Crumb Engineering

Years' experience with this Firm:

15

Education: Degree(s)/Year/Specialization:

Bachelor of Science/1992/Mechanical Engineering

Active registration: Year first registered/discipline:

1998/Mechanical Engineering

Other experience and qualifications relevant to the proposed Project:

- United States Green Building Council - LEED Accredited Professional
- Completed (2) ASHRAE courses on BACnet and building automated systems.
- Completed ASHRAE Design Class - Hot & Humid Climates

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Jason T. Crumb, PE

Project Assignment:

Mechanical Engineer

Name of Firm with which associated:

Crumb Engineering, LLC

Years' experience with this Firm:

15

Education: Degree(s)/Year/Specialization:

Bachelor of Science/1992/Mechanical Engineer

Active registration: Year first registered/discipline:

1998/ Mechanical Engineer

Other experience and qualifications relevant to the proposed Project:

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title: Jason Crumb, Jr.
Project Assignment: Engineer Intern
Name of Firm with which associated: Crumb Engineering, LLC
Years' experience with this Firm: 5
Education: Degree(s)/Year/Specialization: Bachelor of Science/2021/Mechanical Engineering
Active registration: Year first registered/discipline: N/A
Other experience and qualifications relevant to the proposed Project: 5 years of internship for design and CAD operation

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
N/A
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:
N/A
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

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:	
Gaslight/Village de Jardin New Orleans, LA Owner: State of Louisiana 1201 N. Third St, Suite 7-160 Baton Rouge, LA 70802	Crumb Engineering designed all mechanical and electrical systems including fire alarm and automatic wet sprinkler system. The total development is 11.4 acres in size with 224 living units. The project consisted of multi-family senior housing including individual houses, (6) 8-unit townhouse buildings and (2) 5-story apartment complexes.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2012	\$42 million	\$8 million

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
St. Amant Freshman Academy St. Amant, LA Owner: Ascension Parish School Board 9690 Airline Highway Sorrento, LA 70778	Mechanical and Electrical engineering. 100,000 square foot building, design included voice evacuation fire alarm systems and automatic wet sprinkler system.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2016	\$20 million	\$3.5 million

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
Phyllis Wheatley Elementary New Orleans, LA Owner: Recovery School District 1615 Poydras Street New Orleans, LA 70112	Mechanical Engineer for Recovery School District 98,000 square foot school consisted of classrooms, a library, a cafeteria and a gymnasium building with an NC 25 Gymnasium HVAC system and large choral and music rooms with NC 25 HVAC systems. The project utilized state of the art indoor air quality controls and was submitted to be LEED silver certified.	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2014	\$24 million	\$4 million

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
APSB Office Warehouse Ascension Parish, LA Owner: Ascension Parish School Board 9690 Airline Highway Sorrento, LA 70778	Mechanical Engineering	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020	\$4 million	\$700,000

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Delgado Nursing and Allied Health New Orleans, LA Owner: Delgado Community College 615 City Park Avenue New Orleans, LA 70119	Mechanical Engineer for new 120,000 square foot building with modern classrooms, state of the art labs and simulated hospital.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Spring 2023	\$38 million	\$6 million

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Belle Terre Library Marrero, LA Owner: Jefferson Parish	Mechanical Engineering	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2021	\$1 million	\$200,000

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
N/A		
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

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

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
N/A		
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:

PROJECT NO. 10		
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

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

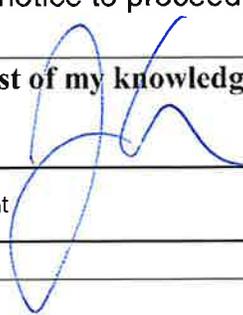
Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1. N/A		
2.		
3.		
4.		

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

Our President and Professional Engineer, Jason T. Crumb, has over 30 years of experience in the engineering sector. Crumb Engineering has been in existence for 15 years, and has designed over 700 projects of all sizes. Crumb Engineering understands the relationship between the consultants and the clients as well as between the client and the contractor.

The firm strives to provide a cost-effective, maintenance friendly design while working with all parties to ensure the successful implementation of the project. Crumb Engineering, LLC actively involves the client to determine what preferences and special requirements are desired on the project. With this information, design calculations and code studies are performed. With any project, there are different levels of energy efficiency, maintenance and comfort. These will be discussed with the client along with an estimated cost for each so the best value for the client can be determined. Crumb Engineering is available immediately to staff small or large projects. We typically commence design within one week after a notice to proceed is issued.

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

Signature:  _____ Print Name: Jason T. Crumb
 Title: President _____ Date: 01/17/2023

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:

Professional Architectural Services on an As-Needed Basis; Resolution No. 140999

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:

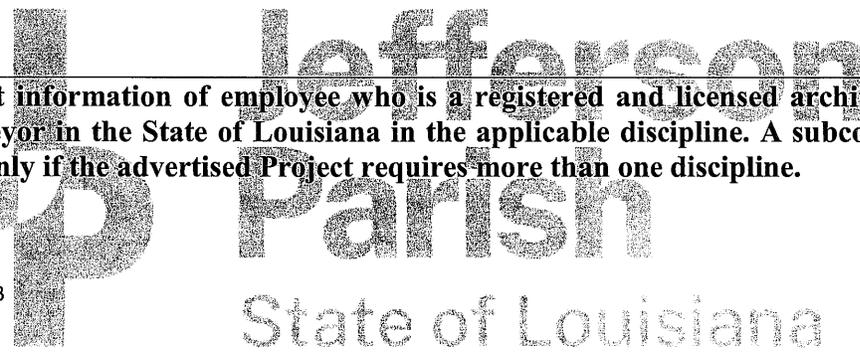
Roy M. Carubba, PE #24653
504.888.1490
roy@carubbaengineering.com

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> TOTAL |

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

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

TEC Professional Services Questionnaire

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

1.
N/A

2.
N/A

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

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

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

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

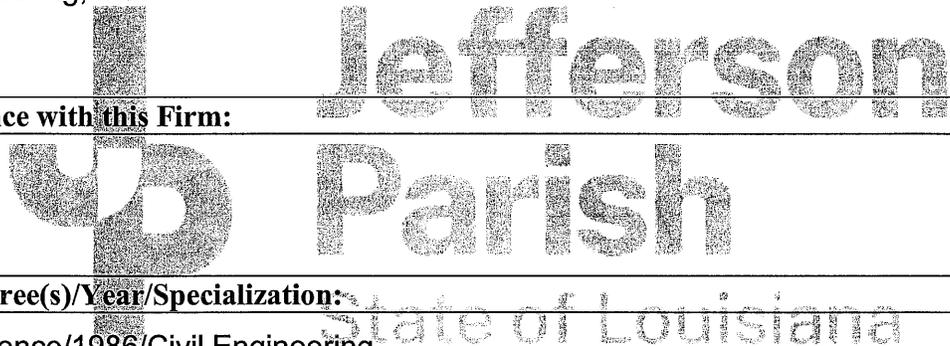
11 _____

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.

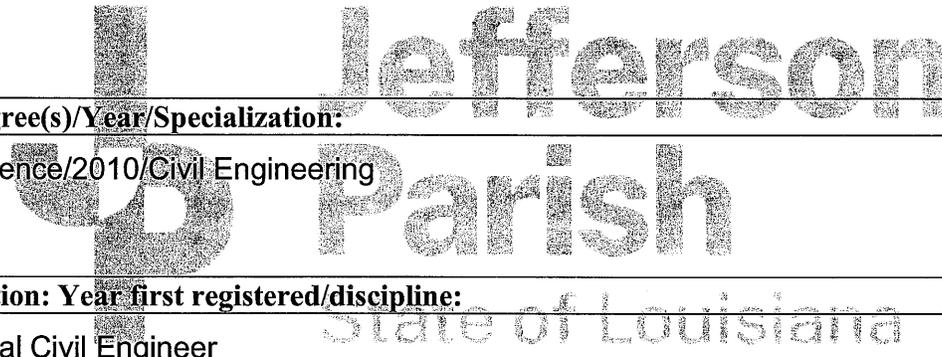
PROFESSIONAL IN CHARGE OF PROJECT:

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



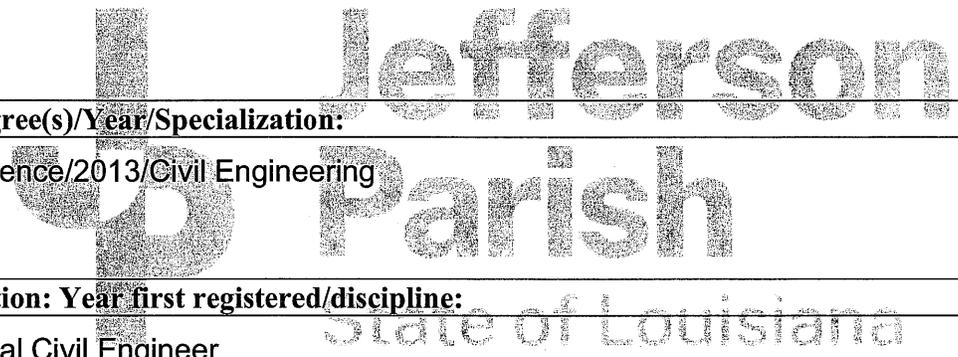
TEC Professional Services Questionnaire

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



TEC Professional Services Questionnaire

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

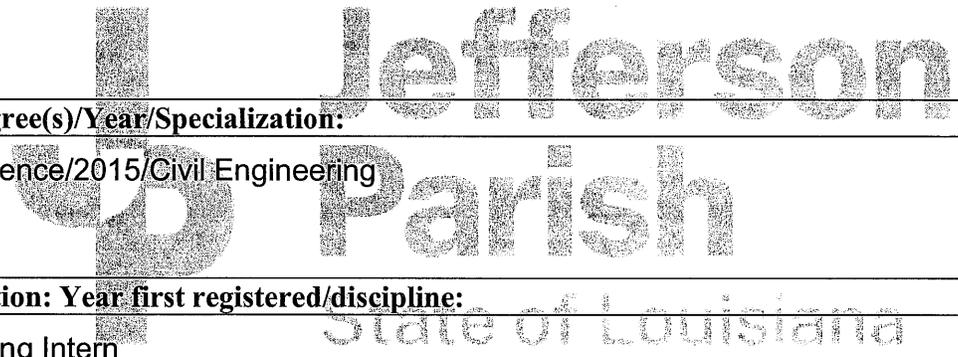


TEC Professional Services Questionnaire

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

TEC Professional Services Questionnaire

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

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
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.	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2007	\$31,000,000.00	\$10,000,000.00

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
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.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2014	\$6,700,000.00	\$6,700,000.00

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
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.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2013	\$5,000,000.00	\$2,300,000.00

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
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.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2010	\$23,500,000.00	\$7,500,000.00

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Lakeshore Library Jefferson Parish 1000 West Esplanade Avenue Metairie, LA 70005	Design of single-story, steel frame, paving, grading, drainage, water, and sewer.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2011	\$3,000,000.00	\$1,200,000.00

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
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.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2014	\$1,800,000.00	\$975,000.00

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
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

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
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

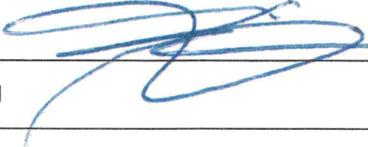
We are also capable of providing crucial construction related services integral to bringing large, industrial projects to successful completion.

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: Principal Date: 1.16.2023

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, contract 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
Metairie, LA 70002
504-888-1490

EDUCATION

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

PROFESSIONAL REGISTRATION

Louisiana

P.E. 45695

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.