



**Barowka and Bonura**

Engineers and Consultants, L.L.C.

## **Request for Qualification Statements for Engineering Services for the Pine Bluff Road Drainage Improvements Project**

The primary contact and the person authorized by the Proposer to contractually obligate the Proposer is Mr. Jeffrey Bonura, P.E., Partner. Mr. Bonura can be reached at (504) 828-0030, by fax (504) 828-8006, or [jbonura@bbecllc.com](mailto:jbonura@bbecllc.com). Our office address is 209 Canal Street, Metairie, LA 70005.

Federal Tax Identification Number: 72-1361020

**Prepared for:**

**Livingston Parish Government Bldg.  
Attention: Heather Crain, Grant Coordinator**  
20355 Government Blvd.  
Livingston, Louisiana 70754

**Prepared by:**

**Barowka and Bonura  
Engineers and Consultants, LLC**  
209 Canal Street  
Metairie, Louisiana 70005  
(504) 828-0030

**Response Due: Thursday, June 6, 2019 @ 3:00 p.m.**

June 6, 2019

Heather Crain, Grant Coordinator  
Livingston Parish Government Bldg.  
20355 Government Blvd.  
Livingston, LA 70754

**SUBJECT: Request for Qualification Statement for Engineering Services for the  
Pine Bluff Road Drainage Improvement Project**

Dear Ms. Crain:

Barowka and Bonura Engineers and Consultants, L.L.C. (BBEC) appreciates the opportunity to submit this Request for qualification statement for engineering services for the Pine Bluff Road Drainage Improvement Project.

a. We understand the project purpose is to improve drainage in the project area and provide a reliable street for access by means of a street that doesn't flood. We understand that under the FEMA HMGP program, the hydraulic and hydrologic studies need to demonstrate an improvement in overall conditions so that a benefit cost analysis remains above 1. We will likely have to demonstrate that floods from the Amite River are not a factor, which we can do. The design and environmental permitting are typical for project in the area and south Louisiana.

b. BBEC meets the appropriate state licensing requirements to practice in the State of Louisiana (BBEC License No. EF.0002141).

c. BBEC has not engaged in any unethical practices within the last five years, or ever.

d. If awarded the contract, BBEC acknowledges its complete responsibility for the entire contract, including payment of any and all charges resulting from said contract.

e. BBEC assists several municipalities in their hazard mitigation projects. We currently help the City of New Orleans, with its major drainage projects, maintain the HMGP funding by making recommendations to the projects to keep the BCA above 1. Without a  $BCA \geq 1$ , the project will not get funded for construction. BBEC did the H&H and design of a very similar project in Plaquemines Parish, Louisiana, where we had to address impact by the Mississippi River, tidal flooding, and rainfall on the drainage in the area and the elevation of the only access road to the area used.

**Barowka and Bonura  
Engineers and Consultants, L.L.C.**

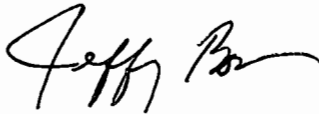
BBEC teamed with McLin Taylor, Inc. to perform the needed surveying for the project. Being in Livingston Parish, McLin Taylor provides a wealth of knowledge regarding the local conditions to be expected.

f. Mr. Jeffrey Bonura is authorized to provide information of this nature in the name of BBEC.

Once again, we sincerely appreciate the opportunity to submit this Statement of Qualifications to Plaquemines Parish and we look forward to serving you.

Very truly yours,

**BAROWKA AND BONURA ENGINEERS AND CONSULTANTS, L.L.C.**

A handwritten signature in black ink, appearing to read "Jeff Bonura", written in a cursive style.

Jeffrey Bonura, P.E.  
Partner

## SECTION 1 – BACKGROUND AND EXPERIENCE

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Pine Bluff Road Drainage Improvements Project

# BACKGROUND AND EXPERIENCE

## A. FULL LEGAL NAME:

Barowka and Bonura Engineers and Consultants, L.L.C.

## DUNS NUMBER:

799776992

## DATE OF ESTABLISHMENT:

1997

## TYPE OF ENTITY AND BUSINESS EXPERTISE:

### ENGINEERING SERVICES (GENERAL)

Barowka and Bonura Engineers and Consultants, L.L.C. (BBEC) is an engineering consulting firm specializing in disaster program management, grant submittal and compliance, project management, civil engineering design and construction management, and computer consulting services. Our experience includes managing various public works projects through construction and ensuring that a quality project is completed on time, within budget, while minimizing disruption to the surrounding public. Our services include the design, planning, implementation, and construction of gravity drainage canals; the elevation and stabilization of parish roadways, including the designing of upgrades to the existing drainage system, hydrologic and hydraulic study of the existing drainage system to assess the reduction of flooding due to the contemplated improvements to the parish road; and providing recommendations for improvements to increase system capacity and reduce the risk of flooding.

## SHORT HISTORY:

### Foundation

The roots of BBEC began in November of 1993 when Walt Barowka and Tony Bonura formed Barowka and Bonura Integrators (BBI) with the intentions of marketing their skills as computer system managers, network managers, geographic information system



(GIS) consultants, system control and data acquisition (SCADA) consultants, and database designers. BBI's first client was Calcasieu Parish, which procured the services of BBEC through a competitive bid process, to create municipal address coverage for the Parish's GIS system.

**Expansion**

The spring of 1997 saw BBI become BBEC, with the addition of Jeff Bonura, an experienced licensed civil engineer, to its leadership team. The concept was to create a company offering engineering services with the skills of an established computer consulting firm enhancing the capabilities of the engineering side of the business. This model has served BBEC's clients well and is still the model in use today.

**CURRENT OWNERSHIP STRUCTURE:**

BBEC is a Limited Liability Company with three equal owners including Jeffrey Bonura, P.E., Walt Barowka and Tony Bonura. There has not been any recent or materially significant proposed change in ownership.

b. What follows are related projects previously completed or currently being worked on by our BBEC staff. Letters of recommendations can be found in Section 4 (Attachments).

**Client Reference:**

**Plaquemines Parish Government**  
**Department of Engineering and Public Works**  
**333 F. Edward Hebert Blvd., Bldg. 500**  
**Belle Chasse, LA 70037**  
**Ken Dugas @ [kdugas@ppgov.net](mailto:kdugas@ppgov.net)**  
**(504) 297-5343**

***HMGP Elevation of Coast Guard Road, Phase I (Project No. 1603x-075-0010), Plaquemines Parish, LA***

Approximately 0.2 miles of the existing section of Coast Guard Road in Venice, beginning with its intersection with Tidewater Road, between longitude/latitude 29.258072/-89.367031 and 29.253624/-89.35847, was addressed under this project. The work included the design for the addition of appropriate earth materials to elevate the roadway base with stabilization from its current elevation of +3' NGVD to an elevation of +5' NGVD. In its previous condition, this roadway experienced overtopping with flood waters regularly whenever the stage of the Mississippi River at Venice exceeds +4' NGVD. Additionally, the existing drainage system was upgraded in order to increase the outflow capacity, replacing the current 24"/30" diameter piping with 36" piping.

In accordance with Executive Order 11988, Plaquemines Parish Government determined that the entirety of the project area is located within the 100-year floodplain, and in accordance with Executive Order 11990, that the project had the potential to impact the wetlands in the area.

Phase I of the HMGP Elevation of Coast Guard Road consisted of:

- Hydrologic and Hydraulic (H&H) study to identify the existing drainage system, the need for project upgrades, and the anticipated benefits to be derived from the proposed upgrades;
- Environmental Review;
- Design the upgrades including the recommendations of the H&H Study and prepare the bid and construction documents; and
- Preliminary and revised cost estimates.

**Client Reference:**

**St. Bernard Parish Government  
Department of Hazard Mitigation  
8201 West Judge Perez Drive  
Chalmette, LA 70043  
Michael Hunnicutt @ mhunnicutt@sbpg.net  
(504) 278-4223**

***Widening / Stabilization of Congressman Hebert, Creely, and Bluebird Canals, St. Bernard Parish, LA (Funding Source: FEMA Hazard Mitigation Grant Program)***

The project includes increasing the capacity and improves the stability of Congressman Hebert, Creely, and Bluebird Canals, that consists of 11,600 linear feet of open canal and culverts ranging from 4-feet bottom width to 16-feet bottom width channels. BBEC coordinated with St. Bernard Parish, Lake Borgne Basin Levee District, and the Louisiana Department of Transportation and Development to obtain information regarding the existing drainage plan. BBEC performed a hydrologic and hydraulic analysis of the existing system to evaluate the entire area for the 5-year, 10-year, and 25-year storms. BBEC established the design cross sections for the channels, which included concrete u-channels, concrete box culverts, and round and arched pipe, and concrete lined trapezoidal sections, depending on the availability of land and other conditions. BBEC obtained the necessary USACE, LDNR, SLFPA-E, and CPRA permits required to construct the contract. 90% Final Designs have been submitted to the client.

BBEC is currently helping St. Bernard Parish demonstrate a BCA  $\geq 1$ .



**Client Reference:****St. Tammany Parish Government****P.O. Box 628****Covington, LA 70434*****Cypress Park Subdivision Drainage Evaluation, St. Tammany Parish, LA***

BBEC performed a hydraulic and hydrologic study of the Erindale Heights and Cypress Park Subdivisions (about 450 acres of single-family residential property). The study consisted of developing a computer model of the hydrology and drainage system consisting of natural channels, open ditches, closed conduits, and culverts. BBEC evaluated the 5, 10, 25, 50, and 100 year storms, and developed several alternatives for addressing the flooding concerns. BBEC provided pros and cons, permitting concerns, and construction cost estimates related to the alternatives. The alternatives considered included elevation adjustments to open channels, increased closed conduit usage and size of existing closed conduits, levees, and pump stations.

**Client Reference:**

**St. Bernard Parish**

**Department of Public Works**

**1125 E. St Bernard Hwy.**

**Chalmette, LA 70043**

**Donald R Bourgeois, Jr., @ [dbourgeois@sbgp.net](mailto:dbourgeois@sbgp.net)**

**(504) 962-9103**

***Project Worksheet 20824 – Storm Drains, Jean Lafitte Parkway Drainage Line Repairs/Replacement, St. Bernard Parish, LA (Project Funding: FEMA PA Funding)***

The project consists of the complete replacement of about 4,200 linear feet of 72-inch to 96-inch drain pipe, with drainage structures and smaller lateral lines to collect stormwater from existing roadway catch basins. The project also include the replacement of roadway intersections where the drain line crosses streets. The project bid was \$3.9 million. The work is currently under construction, at about 30% complete. BBEC performed all design, bidding, and is performing the construction services for the project. In addition to the normal design services, BBEC obtained a Coastal Use Permit determination, and USACE wetlands permit determination, and a SLFPA-E (regional levee district) permit for the project.

**Client Reference:****Jefferson Parish Government****Department of Drainage****1221 Elmwood Park Blvd., Suite 907****Jefferson, LA 70123****Mitchell Theriot, P.E., Director @MTheriot@jeffparish.net****(504) 736-6753*****Waggaman Area Drainage Study, Jefferson Parish, LA***

BBEC performed a hydrologic study for three separate residential subdivisions in Waggaman, Louisiana: Waggaman, South Kenner, and Manor Lane. The Waggaman subdivision is bounded by River Road to the north, Live Oak Boulevard to the south, Saul's Canal to the west, and Dandelion Ditch to the east. South Kenner subdivision is bounded by River Road to the north, North Railroad Canal to the south, Saul's Canal to the east, and another subdivision to the west. The Manor Lane subdivision is bounded by River Road to the north, North Railroad Canal to the south, Latigue Road Ditch to the west, and Modern Farms Road Ditch to the east. BBEC utilized the Storm Water Management Model (SWMM) to evaluate the existing subsurface drainage capacities for each subdivision and to examine if the existing system was able handle a 10-year design storm. BBEC developed a hydrologic and hydraulic model for each area and recommended subsurface improvements based on the SWMM model to handle a 10-year design storm.

**Client Reference:****Lafourche Parish Government****Grants & Economic Development****402 Green Street****Thibodaux, LA 70301****Lionel Lagarde, Jr. @ [lagardelj@lafourchegov.org](mailto:lagardelj@lafourchegov.org)****(985) 493-6673*****Hazard Mitigation Assistance, Elevation of Four (4) Residential Structures (HMGP #1786-057-0007), Lafourche Parish, LA (Funding Source: FEMA Hazard Mitigation Grant Program and U.S. HUD Community Development Block Grant)***

The FEMA Hazard Mitigation Grant for the Elevation of Four (4) Residential Structure project includes all professional services necessary for the implementation of the FEMA HMGP #1786-057-0007 grant. The properties included in this project are located in Bayou Blue, Des Allemands, Lockport and Thibodaux and require that the structure be elevated to or above the base flood elevation. BBEC's services include Grant Administration and Construction Observation.

As part of the Grant Administration services performed, BBEC:

- Conducts public and individual meetings to assist homeowners with the program requirements for elevation;
- Coordinates with the Governor's Office of Homeland Security and Emergency Preparedness and FEMA for elevations;
- Complies with all grant program mandates and documentation requirements for elevations;
- Reviews detailed drawings submitted by property owners showing character and extent of the work to be performed by the Contractor;
- Prepares specifications;
- Furnishes the Parish with documents and design data as may be required;
- Advises the Parish of any adjustments of the cost estimate for the project; and
- Prepares proposal forms and assist in the preparation of contract documents.

As part of the Construction Observation services performed, BBEC:

- Conducts pre-construction planning for compliance with building codes and coordinates with the Permit Office for any specialized design issues;
- Makes project eligibility determinations for elevations;
- Conducts contract closings between homeowner, contractors, and Lafourche Parish;
- Conducts financial tracking of program funds and homeowner payments;

- Inspects construction for compliance with program requirements and to approve milestone payment requests from contractors;
- Conducts change orders requested by homeowner;
- Conducts final inspection;
- Develops and submit progress reports to the Parish and the State; and
- Provides in Progress Reviews as required to keep the Parish informed on project progress.

***Flood Mitigation Assistance Grant, Elevation of eight (8) structures under SRL/RL Elevation Project, Lafourche Parish, LA (Funding Source: FEMA Flood Mitigation Assistance Grant Program and U.S. HUD Community Development Block Grant)***

**Client Reference:****City of New Orleans****Office of Homeland Security and Emergency Preparedness****Hazard Mitigation Office****1300 Perdido Street, 9<sup>th</sup> Floor****New Orleans, LA 70112****Ryan Mast, Hazard Mitigation Administrator @ [rcmast@nola.gov](mailto:rcmast@nola.gov)****(504) 658-8740**

***FEMA Hazard Mitigation Assistance Consultant (Project No. 2130-02035), Benefit Cost Analysis (BCA) for HMGP 1603-0426 Broadmoor Stormwater Drainage Project, City of New Orleans, LA (Funding Source: FEMA Hazard Mitigation Grant Program)***

BBEC assisted the City of New Orleans with performing Benefit-Cost Analyses which reflected the life-cycle cost for the resulting projects. At the time the City engaged BBEC, the benefit cost ratio, calculated by others, did not meet FEMA's requirements for approving of Phase II of these projects. BBEC worked with City officials and FEMA representatives to develop an alternative method to calculating the benefit cost ratio based on the depth damage functions provided by the United States Army Corps of Engineers. By using this method and incorporating approved cost guidance, BBEC worked with the design engineers to focus on those areas that generated the greatest benefit. BBEC performed a Benefit-Cost Analysis on the resulting model that resulted in a benefit cost ratio of 1 or greater.

BBEC performed the below noted scope of services:

- Collected property information for structures located in the effective design area necessary to calculate project benefits for the BCA.
- Developed a report of the property data collected.
- Evaluated all existing data and providing recommendations for additional necessary data.
- Completed data entry and preparation for FEMA's Damage Frequency Module for BCA.
- Analyzing the resulting data set for the BCA and making/performing revisions, as needed.
- Updated BCA and providing additional information based on revision recommendations.

**Client Reference:****City of New Orleans****Office of Homeland Security and Emergency Preparedness****Hazard Mitigation Office****1300 Perdido Street, 9<sup>th</sup> Floor****New Orleans, LA 70112****Ryan Mast, Hazard Mitigation Administrator @ [rcmast@nola.gov](mailto:rcmast@nola.gov)****(504) 658-8740**

***FEMA Hazard Mitigation Assistance Consultant (Project No. 2130-02035), Generator Application, City of New Orleans, LA (Funding Source: FEMA Hazard Mitigation Grant Program)***

BBEC assisted the City of New Orleans with preparing an amendment proposal for the HMGP 1786 Statewide Generator Project for Critical Facilities. At the time the City engaged BBEC, the City had only thirty (30) days to submit the application for consideration. Once the sites were identified, BBEC conducted site visits and prepared the application documents. BBEC activities also included the following:

- Developing a clear Scope of Work, including description of the ground disturbance including underground wiring, size of generator or automatic transfer switch and its function;
- Providing an accurate Address for the facility and the latitude/longitude for the building and generator/ automatic transfer switch sites;
- Providing color photographs of the Front, Back and Side Angles of the Facility, as well as for the generator/automatic transfer switch site;
- Providing aerial imagery (such as Google Earth) and a clearly marked construction layout of the generator/automatic transfer switch site construction;
- Creating a map of the facility;
- Providing a Flood Insurance Rate Map (FIRM);
- Developing a detailed budget for each generator or automatic transfer switch; and
- Developing a detailed specification sheet(s) for the generators or automatic transfer switch.

**Client Reference:****City of New Orleans****Office of Homeland Security and Emergency Preparedness****Hazard Mitigation Office****1300 Perdido Street, 9<sup>th</sup> Floor****New Orleans, LA 70112****Ryan Mast, Hazard Mitigation Administrator @ [rcmast@nola.gov](mailto:rcmast@nola.gov)****(504) 658-8740**

***FEMA Hazard Mitigation Assistance Consultant (Project No. 2130-02035), Benefit Cost Analysis (BCA) for HMGP 1607-0120 Mirabeau Water Garden Green Infrastructure Project, City of New Orleans, LA (Funding Source: FEMA Hazard Mitigation Grant Program)***

BBEC assisted the City of New Orleans with performing Benefit-Cost Analyses which reflected the life-cycle cost for the resulting projects. At the time the City engaged BBEC, the benefit cost ratio, calculated by others, did not meet FEMA's requirements for approving of Phase II of these projects. BBEC worked with City officials and FEMA representatives to develop an alternative method to calculating the benefit cost ratio based on the depth damage functions provided by the United States Army Corps of Engineers. By using this method and incorporating approved cost guidance, BBEC worked with the design engineers to focus on those areas that generated the greatest benefit. BBEC performed a Benefit-Cost Analysis on the resulting model that resulted in a benefit cost ratio of 1 or greater.

BBEC performed the below noted scope of services:

- Collected property information for structures located in the effective design area necessary to calculate project benefits for the BCA.
- Developed a report of the property data collected.
- Evaluated all existing data and providing recommendations for additional necessary data.
- Completed data entry and preparation for FEMA's Damage Frequency Module for BCA.
- Analyzing the resulting data set for the BCA and making/performing revisions, as needed.
- Updated BCA and providing additional information based on revision recommendations.



**Client Reference:****City of New Orleans****Office of Homeland Security and Emergency Preparedness****Hazard Mitigation Office****1300 Perdido Street, 9<sup>th</sup> Floor****New Orleans, LA 70112****Ryan Mast, Hazard Mitigation Administrator @ [rcmast@nola.gov](mailto:rcmast@nola.gov)****(504) 658-8740*****FEMA Hazard Mitigation Assistance Consultant (Project No. 2130-02035), Benefit Cost Analysis (BCA) for HMGP 1603-0430 Lakeview Drainage Project, City of New Orleans, LA (Funding Source: FEMA Hazard Mitigation Program)***

BBEC assisted the City of New Orleans with performing Benefit-Cost Analyses which reflected the life-cycle cost for the resulting projects. At the time the City engaged BBEC, the benefit cost ratio, calculated by others, did not meet FEMA's requirements for approving of Phase II of these projects. BBEC worked with City officials and FEMA representatives to develop an alternative method to calculating the benefit cost ratio based on the depth damage functions provided by the United States Army Corps of Engineers. By using this method and incorporating approved cost guidance, BBEC worked with the design engineers to focus on those areas that generated the greatest benefit. BBEC performed a Benefit-Cost Analysis on the resulting model that resulted in a benefit cost ratio of 1 or greater.

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- Analyzing the resulting data set for the BCA and making/performing revisions, as needed.
- Updated BCA and providing additional information based on revision recommendations.

**Client Reference:****City of New Orleans****Office of Homeland Security and Emergency Preparedness****Hazard Mitigation Office****1300 Perdido Street, 9<sup>th</sup> Floor****New Orleans, LA 70112****Ryan Mast, Hazard Mitigation Administrator @ [rcmast@nola.gov](mailto:rcmast@nola.gov)****(504) 658-8740*****FEMA Hazard Mitigation Assistance Consultant (Project No. 2130-02035), Benefit Cost Analysis (BCA) for HMGP City Park Green Infrastructure Project, City of New Orleans, LA (Funding Source: FEMA Hazard Mitigation Grant Program)***

BBEC assisted the City of New Orleans with performing Benefit-Cost Analyses which reflected the life-cycle cost for the resulting projects. At the time the City engaged BBEC, the benefit cost ratio, calculated by others, did not meet FEMA's requirements for approving of Phase II of these projects. BBEC worked with City officials and FEMA representatives to develop an alternative method to calculating the benefit cost ratio based on the depth damage functions provided by the United States Army Corps of Engineers. By using this method and incorporating approved cost guidance, BBEC worked with the design engineers to focus on those areas that generated the greatest benefit. BBEC performed a Benefit-Cost Analysis on the resulting model that resulted in a benefit cost ratio of 1 or greater.

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- Completed data entry and preparation for FEMA's Damage Frequency Module for BCA.
- Analyzing the resulting data set for the BCA and making/performing revisions, as needed.
- Updated BCA and providing additional information based on revision recommendations.

**Client Reference:**

**City of New Orleans**

**Office of Homeland Security and Emergency Preparedness**

**Hazard Mitigation Office**

**1300 Perdido Street, 9<sup>th</sup> Floor**

**New Orleans, LA 70112**

**Ryan Mast, Hazard Mitigation Administrator @ [rcmast@nola.gov](mailto:rcmast@nola.gov)**

**(504) 658-8740**

***FEMA Hazard Mitigation Assistance Consultant (Project No. 2130-02035), Project Management for DR1603 and DR1607 HMGP Grant Funding, City of New Orleans, LA (Funding Source: FEMA Hazard Mitigation Grant Program)***

BBEC is currently providing grant management services for the City of New Orleans for this project which was left incomplete by prior consultants.

**Client Reference:****City of New Orleans****Office of Homeland Security and Emergency Preparedness****Hazard Mitigation Office****1300 Perdido Street, 9<sup>th</sup> Floor****New Orleans, LA 70112****Ryan Mast, Hazard Mitigation Administrator @ [rcmast@nola.gov](mailto:rcmast@nola.gov)****(504) 658-8740**

***FEMA Hazard Mitigation Assistance Consultant (Project No. 2130-02035), Benefit Cost Analysis (BCA) for HMGP 1603-0429 St. Roch Drainage Project, City of New Orleans, LA (Funding Source: FEMA Hazard Mitigation Grant Program)***

BBEC assisted the City of New Orleans with performing Benefit-Cost Analyses which reflected the life-cycle cost for the resulting projects. At the time the City engaged BBEC, the benefit cost ratio, calculated by others, did not meet FEMA's requirements for approving of Phase II of these projects. BBEC worked with City officials and FEMA representatives to develop an alternative method to calculating the benefit cost ratio based on the depth damage functions provided by the United States Army Corps of Engineers. By using this method and incorporating approved cost guidance, BBEC worked with the design engineers to focus on those areas that generated the greatest benefit. BBEC performed a Benefit-Cost Analysis on the resulting model that resulted in a benefit cost ratio of 1 or greater.

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- Completed data entry and preparation for FEMA's Damage Frequency Module for BCA.
- Analyzing the resulting data set for the BCA and making/performing revisions, as needed.
- Updated BCA and providing additional information based on revision recommendations.

**Client Reference:**  
**State of Louisiana**  
**Craig Taffaro**  
**(504) 284-2071**

***Private Residential Structure Elevation Project, Statewide, LA (Funding Source: FEMA Hazard Mitigation Grant Program)***

BBEC provided professional engineering, program management, construction monitoring, observation of construction methods, code enforcement compliance, and general monitoring services in association with construction contractors elevating and/or reconstructing residential structures for eligible construction activities through the Hazard Mitigation Grant Program (HMGP). BBEC performed the following services:

- Assisted in conducting the orientation for Hazard Mitigation Grant Program (HMGP) standards of conduct for construction contractors.
- Performed site visits at designated project milestones as tasked by HMGP Management.
- Outlined expectations and requirements of the construction process including, but not limited to, project schedule, scope of work, etc.
- Provided support and review of engineering plans and cost estimates as tasked by HMGP Management.
- Uploaded documentation of site visit information.
- Reviewed construction contractor's plans and/or revisions for grant and engineering guidelines, mitigation measures, requirements, grant eligibility, and licenses and insurances, as needed.
- Explained construction cost estimates and plan review criteria to homeowner and/or construction contractor.
- Identified potential obstacles for implementation of construction contractor's and/or engineer's plans and drawings.
- Inspected the interior of the residential structure and reported on findings regarding adequacy of construction methods and adherence to construction contractor's plan and applicable codes for geographic area and FEMA regulations.
- Coordinated with external agencies as necessary to determine compliance with the specific rules and requirements applicable to construction as a result of being funded under HMGP.
- Conducted site visits per designated milestone tasking or HMGP assignment and prepared written status reports which included photographs, field notes, measurements, and any additional pertinent information.

- Prepared cost estimates for all work which was completed at the residential structure and any remaining work needed to complete the elevation and/or reconstruction in accordance with the Elevation Cost Guidance (ECG) established for the HMGP.
- Provided support in compiling completed work verification including, but not limited to, verifying elevation certificates, certificates of compliance, permitting, scope of work, etc.
- Provided engineering and/or construction consultation of projects involved in disputes.
- Provided daily communication between construction contractor and the program liason to validate work product and to report any construction concerns identified in the field with regard to the specific rules and requirements applicable to construction projects as a result of being funded under the HMGP.
- Prepared written reports detailing any findings, deficiencies, recommendations, and determinations regarding the adequacy of the construction methods.
- Provided daily reports detailing the progress such as, number of milestone observations completed, schedule of milestone observations, list of milestones observations requiring no further work, and number of milestones that have undergone QA/QC.
- Provided weekly reports that detailed progress of the cumulative activities to date including milestone observations, cost assessments, project assessments completed, uploaded, and undergone quality control, summary of hours worked for all approved staff, and listing all properties that have been visited and status of the sites.

**Client Reference:****St. Bernard Parish Government****Department of Recovery****8201 W. Judge Perez Drive****Chalmette, LA 70043****Guy McInnis @ [presidentmcinnis@sbpg.net](mailto:presidentmcinnis@sbpg.net)****(504) 278-4227*****FEMA Hazard Mitigation Grant Village Square Site Clearance, Phases 1, 2 and 3, St. Bernard Parish, LA (Funding Source: FEMA Hazard Mitigation Grant Program)***

BBEC managed the Village Square Site Clearance, Phases I, II and III, a project that consisted of the removal and recycling of concrete slab foundations and other pavement, removal of hazardous trees, clearing sites, fill and grade of sites to promote proper drainage. In preparation for concrete recycling, BBEC ensured that the contractors complied with all regulatory requirements for the disposal of concrete slab foundations and other pavement in a recycling facility. BBEC managed the project from scope development through reimbursement for the purpose of meeting all requirements of the FEMA Hazard Mitigation Grant Program. Those requirements included, but were not limited to: collecting and reporting the scope of disaster, scope of services to be covered, cost estimate based on cost reasonableness in accordance with the Code of Federal Regulations (44 CFR Part 13, Uniform Administrative Requirements for Grants and Cooperative Agreements to State and Local Governments). Subsequent coordination with the Governor's Office of Homeland Security secured the necessary funding allocated to this work.

BBEC managed the project from scope development through reimbursement for the purpose of meeting all requirements of the FEMA Hazard Mitigation Grant Program for the abatement and removal of 123 building slabs and 3 structures (Phase I: 89 Slabs, Phase II: 31 Slabs, Phase III: 3 Slabs and 3 Structures). The project included specifying requirements of a SWPPP and overseeing the implementation of that plan.

**Client Reference:****Louisiana Land Trust****11100 Mead Road, Suite 200****Baron Rouge, LA 70816****Michael Taylor @ [mtaylor@lalandtrust.us](mailto:mtaylor@lalandtrust.us)****(225) 395-0777*****Louisiana Land Trust Demolition Program, Statewide, LA (Funding Source: Community Development Block Grant)***

The Road Home Corporation dba Louisiana Land Trust (LLT) is a non-profit organization chartered under the authority of Louisiana Revised Statute 40:600.63. LLT has been charged with the acquisition, disposition, purchase, demolition, renovation, improvement, leasing, or expansion of housing stock, including but not limited to housing stock as described by the Road Home Program designed by the Louisiana Recovery Authority and funded by the U.S. Department of Housing and Urban Development's Community Development Block Grant (CDBG) Program.

BBEC was the primary sub-consultant to the Louisiana Land Trust for providing program management and oversight of LLT's demolition program and related activities undertaken in support of recovery, blight removal, property disposition, and redevelopment.

Program management services provided by BBEC included:

- Procurement of demolition contractors on behalf of LLT
- Oversight and monitoring of contractors' operations
- Coordination of environmental services
- Management of the related permit process

The total number of properties involved was approximately 8,700 residential properties owned by LLT throughout South Louisiana, with about 90% of them concentrated in the New Orleans metropolitan area. BBEC also assisted in the management of a separate program in St. Bernard Parish to remove slabs from properties where structure had previously been removed as part of Hurricane Katrina cleanup operations.

Specific responsibilities of BBEC throughout this project included:

- Developing an operational plan that addresses quality control, fraud, waste, mismanagement, estimated costs of demolition and debris removal work, record-keeping, reporting, closeout with time lines for project completion.





- Developing a management information system to track each site until close out
- Reviewing each property and developing a scope of work for each site to remove all structures, foundations, drives, etc.
- Reviewing environmental clearances on each property
- Completing bid documents
- Providing Resident Project Representation for all projects
- Negotiating, issuing and administering contracts for demolition, debris removal and site cleanup, as well as changes thereto
- Providing LLT with timely support services as needed related to the demolition program and to hurricane recovery, blight removal, and redevelopment efforts.

**Client Reference:****City of New Orleans****Office of Homeland Security and Emergency Preparedness****Hazard Mitigation Office****1300 Perdido Street, 9<sup>th</sup> Floor****New Orleans, LA 70112****Ryan Mast, Hazard Mitigation Administrator @ [rcmast@nola.gov](mailto:rcmast@nola.gov)****(504) 658-8740*****FEMA Hazard Mitigation Assistance Consultant, 2018 Application Development (Project No. 2130-02035), City of New Orleans, LA (Funding Source: FEMA Flood Mitigation Assistance Grant Program)***

BBEC works with the City of New Orleans to prepare and submit applications for funding to FEMA's Hazard Mitigation Assistance (HMA) Programs, including but not limited to the Hazard Mitigation Grant Program (HMGP), Flood Mitigation Assistance (FMA) and the Pre-Disaster Mitigation Grant (PDM) Programs on behalf of eligible residential National Flood Insurance program (NFIP) policyholders in Orleans Parish and to manage and implement said program for the City.

BBEC's services also include:

- Prioritizing eligible properties for flood mitigation activities through Programs based on FEMA's alternative cost-benefit analysis with 30-year project life; and
- Conducting comprehensive property risk analyses for participating RL & SRL properties for mitigation remedies including elevation to or above the current effective Base Flood Elevation (or "best available data"), dry flood proofing for historic structures, or reconstruction when traditional elevation cannot be completed. The participating properties and their respective mitigation undertakings are chosen in such a way to optimize flood risk reduction and cost effectiveness; and
- Designing, implementing, and monitoring the consultation process to inform eligible property owners of program requirements, collecting technical information, determining mitigation preferences, case managing each individual property, and providing preliminary mitigation estimates; and
- Conducting community outreach activities and 'town hall' meetings, in Orleans Parish, with eligible property owners during the application development process. These meetings focus on program requirements and mitigation activities. Attendance by representatives from FEMA, City of New Orleans, and the Governor's Office of Homeland Security and Emergency Preparedness (GOHSEP) is coordinated for all such events; and

- Performing project management of mitigation offers to individual (i.e. “address level”) eligible property owners; and
- Holding monthly status meetings with the City’s Mitigation Director, Project Delivery Unit Manager, and Chief Resilience Officer or designee, to update grant status and status of individual properties. Status tracking is provided to the City in spreadsheet format either before the monthly status meetings or at the meetings.

**Client Reference:**

**City of New Orleans**

**Office of Homeland Security and Emergency Preparedness**

**Hazard Mitigation Office**

**1300 Perdido Street, 9<sup>th</sup> Floor**

**New Orleans, LA 70112**

**Ryan Mast, Hazard Mitigation Administrator @ [rcmast@nola.gov](mailto:rcmast@nola.gov)**

**(504) 658-8740**

***FEMA Hazard Mitigation Assistance Consultant (Project No. 2130-02035), Project Management for 2013 FMA Grant Funding, City of New Orleans, LA (Funding Source: FEMA Flood Mitigation Assistance Grant Program)***

BBEC is currently providing grant management services for the City of New Orleans for this project which was left incomplete by prior consultants.

**Client Reference:****Jefferson Parish Government****Department of Floodplain Management and Hazard Mitigation****1221 Elmwood Park Boulevard, Suite 310****Jefferson, LA 70123****Maggie Talley, Director @mtalley@jeffparish.net****(504) 736-6750*****Project Management 2014 Hazard Mitigation Grant Funding, Jefferson Parish, LA (Funding Source: FEMA Flood Mitigation Assistance Grant Program)***

BBEC provides grant management services for Jefferson Parish Hazard Mitigation Assistance grant program. As part of this project, BBEC provides guidance to Jefferson Parish in regards to FEMA guidelines including elevation requirements, construction requirements, and grant application requirements as described in FEMA's program guidance. Additionally, BBEC assists Jefferson Parish by assisting homeowners through the process of home elevation and/or reconstruction by assisting with the bidding process, preparation of contractor agreements, and the processing of payment requests and reimbursements. BBEC also prepares quarterly reports, tracks the grant budget, and retains and maintains all grant related documentation for Parish closeout. To assist in this process, BBEC developed a project specific database, document management system, and dashboard reporting component that provides electronic data concerning the project to Jefferson Parish.

In addition to managing the grant for elevating structures, BBEC has been involved in the management of the FEMA HMGP funded reconstruction program. As part of this program in this grant year, homeowners were given the option to select reconstruction in lieu of elevating the existing structure. BBEC provides professional engineering, program management, construction monitoring, code enforcement compliance, and general monitoring services for the work funded by the Hazard Mitigation Grant Program.

**Client Reference:****City of New Orleans****Office of Homeland Security and Emergency Preparedness****Hazard Mitigation Office****1300 Perdido Street, 9<sup>th</sup> Floor****New Orleans, LA 70112****Ryan Mast, Hazard Mitigation Administrator @ [rcmast@nola.gov](mailto:rcmast@nola.gov)****(504) 658-8740*****FEMA Hazard Mitigation Assistance Consultant, 2017 Application Development (Project No. 2130-02035), City of New Orleans, LA (Funding Source: FEMA Flood Mitigation Assistance Grant Program)***

BBEC works with the City of New Orleans to prepare and submit applications for funding to FEMA's Hazard Mitigation Assistance (HMA) Programs, including but not limited to the Hazard Mitigation Grant Program (HMGP), Flood Mitigation Assistance (FMA) and the Pre-Disaster Mitigation Grant (PDM) Programs on behalf of eligible residential National Flood Insurance program (NFIP) policyholders in Orleans Parish and to manage and implement said program for the City.

BBEC's services also include:

- Prioritizing eligible properties for flood mitigation activities through Programs based on FEMA's alternative cost-benefit analysis with 30-year project life; and
- Conducting comprehensive property risk analyses for participating RL & SRL properties for mitigation remedies including elevation to or above the current effective Base Flood Elevation (or "best available data"), dry flood proofing for historic structures, or reconstruction when traditional elevation cannot be completed. The participating properties and their respective mitigation undertakings are chosen in such a way to optimize flood risk reduction and cost effectiveness; and
- Designing, implementing, and monitoring the consultation process to inform eligible property owners of program requirements, collecting technical information, determining mitigation preferences, case managing each individual property, and providing preliminary mitigation estimates; and
- Conducting community outreach activities and 'town hall' meetings, in Orleans Parish, with eligible property owners during the application development process. These meetings focus on program requirements and mitigation activities. Attendance by representatives from FEMA, City of New Orleans, and the Governor's Office of Homeland Security and Emergency Preparedness (GOHSEP) is coordinated for all such events; and

- Performing project management of mitigation offers to individual (i.e. “address level”) eligible property owners; and
- Holding monthly status meetings with the City’s Mitigation Director, Project Delivery Unit Manager, and Chief Resilience Officer or designee, to update grant status and status of individual properties. Status tracking is provided to the City in spreadsheet format either before the monthly status meetings or at the meetings.

**Client Reference:****St. Bernard Parish****Department of Public Works****1125 E. St Bernard Hwy.****Chalmette, LA 70043****Donald R. Bourgeois, Jr., Capital Projects Supervisor @ [dbourgeois@sbgp.net](mailto:dbourgeois@sbgp.net)****(504) 962-9103*****Hurricane Katrina Damage Roadway Restoration, St. Bernard Parish, LA (Funding Source: FEMA Public Assistance Grant Program)***

Under its initial role as Program Manager of Public Works Projects, BBEC assisted St. Bernard Parish in negotiations with FEMA to support eligibility of roadway, driveway, and sidewalk damage in St. Bernard Parish allowing FEMA to write over \$150 million in project worksheets to fund repairs to the damaged facilities. In the negotiations, BBEC demonstrated to FEMA that not only did the pavement receive storm related damage, but the base and sub base received damage, as well.

As a result of BBEC's familiarity with the Parish's roadways, and BBEC's understanding of FEMA's policy and the Stafford Act, St. Bernard Parish selected BBEC to perform the engineering services (damage identification, negotiations with FEMA for eligibility determinations, design, bidding, construction administration, record documents, and resident inspection services) for 50% of the Parish's damaged roadways.

BBEC's portion of the project evolved into 18 separate construction contracts ranging from \$1,000,000 to \$11,000,000, with a combined total of over \$100 million. The construction contracts were established as work order based, unit priced contracts. BBEC performed the following steps to implement each project:

- utilized the Parish's GIS to divide BBEC's contract area into organized zones and develop aerial photography scaled drawings for use in the field to identify the work
- walked the damaged streets to identify all damage
- submitted drawings to FEMA for eligibility determination, and provided supporting arguments and documentation to defend FEMA funding eligibility when FEMA questioned eligibility
- performed construction cost estimates to determine estimate of quantities for bidding and organized streets into bid packages of certain sizes to attract the maximum amount of bidders
- developed unit priced work order based construction bid packages based on Parish standard details, enhanced where necessary

- performed bidding and contract award services
- performed normal construction administration services
- developed and issued contractor work orders
- identified all locations and details of repairs
- walked work order sites with contractor to ensure a clear understanding of the work, and how it would be funded
- documented additional damage (buried or increased since initial survey) and obtained FEMA eligibility determination, providing supporting documentation as needed
- developed as-built drawings and record documents identifying all FEMA funded repairs and Parish funded repairs and supporting documentation for future potential FEMA audit purposes
- developed detailed reimbursement packages for Parish reimbursement from GOHSEP
- developed detailed project documentation for grant modifications, enhancement, or close-out
- developed and maintained tracking schedules and/or maps for Parish management and/or public awareness
- kept the Parish informed about the project through attendance at progress meetings and preparing status reports

In order to save engineering costs, and at the same time provide the contractor with useable drawings and details, BBEC utilized the Parish's existing GIS to develop its site plans to identify the work to the contractor for construction, and to eventually develop clear record documents showing all work performed for the likely event of a future audit by FEMA to verify work performed. BBEC also maintained a status map that was published bi-weekly and provided to all interested parties to report on the status of the project.

The project list includes:

Project No.	Construction Cost	# of Streets	BBEC Fee
07-836/07-837	\$3,393,777.42	22	\$1,525,265.28
08-841	\$7,441,280.04	49	\$1,238,587.70
3233A	\$4,713,364.72	39	\$892,947.66
3233B	\$7,331,154.09	26	\$886,360.28
18581A	\$3,671,959.53	8	\$518,574.62
18581B	\$3,673,691.13	3	\$476,504.99
18583A	\$1,499,608.55	6	\$428,338.08
18593B	\$2,703,762.58	4	\$507,895.45
18590A	\$3,413,262.49	10	\$634,647.51



18590B	\$4,387,638.18	10	\$718,019.10
18590C	\$4,085,902.02	8	\$605,464.87
18590D	\$3,716,665.40	6	\$512,699.76
104	\$9,851,368.31	33	\$1,704,457.77
105	\$11,006,223.16	43	\$1,731,847.62
106	\$8,067,207.02	24	\$1,408,007.62
110	\$9,814,646.28	48	\$1,401,357.17
107	\$3,699,032.20	11	\$547,353.70
102	\$9,815,822.77	86	\$1,443,245.05
<b>TOTALS</b>	<b>\$102,286,365.89</b>	<b>436</b>	<b>\$17,181,574.23</b>

Project	Year Completed	Contract Value	Quantity (Concrete, SY)	Quantity (Asphalt Patches, SY)	Quantity (Mill and Overlay, SY)
SBPG Project No. 07-836 – 07-837	2009	\$3,393,777.42	14,987.07	0	6,443.87
SBPG Project No. 08-841	2009	\$7,441,280.04	28,894.01	0	11,738.65
SBPG Project No. 3233A	2011	\$5,456,725.00	15,725.87	9,800.37	11,694.50
SBPG Project No. 3233B	2010	\$7,331,154.09	43,181.06	177.85	16,805.84
SBPG Project No. 18581A	2011	\$3,671,959.53	17,070.48	1,334.64	14,079.13
SBPG Project No. 18581B	2012	\$3,673,691.13	23,167.49	0	0
SBPG Project No. 18583A	2013	\$1,499,608.55	6,294.77	2,520.90	2,152.72
SBPG Project No. 18583B	2013	\$2,703,762.58	15,720.20	442.35	500.57
SBPG Project No. 18590A	2012	\$3,413,262.49	29,530.28	0	115.56
SBPG Project No. 18590B	2013	\$4,387,638.18	26,867.82	3,390.14	5,278.66
SBPG Project No. 18590C	2012	\$4,085,902.02	21,859.68	2,441.63	896.64
SBPG Project No. 18590D	2012	\$3,716,665.40	20,283.16	838.38	7,747.78
SBPG Project No. 2010-104	2012	\$9,851,368.31	40,290.66	5,692.73	29,957.42
SBPG Project No. 2010-105	2013	\$11,006,223.16	38,211.73	8,377.39	46,167.43
SBPG Project No. 2010-106	2013	\$8,067,207.02	35,618.34	3,764.62	6,718.55
SBPG Project No. 2010-110	2014	\$9,814,646.28	21,981.24	2,833.01	11,884.40

SBPG Project No. 2010-107	2012	\$3,699,032.20	14,274.40	11,539.24	53,245.81
SBPG Project No. 2010-102	2017	\$9,815,822.77	35,393.36	23,297.97	37,224.16

**Client Reference:****Town of Jean Lafitte****2654 Jean Lafitte Blvd.****Lafitte, LA 70067****Nicole Cooper @ [ncooper@townofjeanlafitte.com](mailto:ncooper@townofjeanlafitte.com)****(504) 689-2208*****Grant Management Services for Federal and State Grants, Town of Jean Lafitte, LA (Funding Source: FEMA Public Assistance Program)***

BBEC is currently providing grant management services for the Town of Jean Lafitte and the Lafitte Area Independent Levee District project to close out almost \$3.9M in FEMA Public Assistance Grants. The scope of work managed includes:

- Serve as liaison as PW Specialist for Town of Jean Lafitte Administration to GOHSEP and FEMA.
- Maintain master spreadsheet tracking status of RRF's and status of payments.
- Utilize LouisianaPA.com daily to track projects, upload required documents, complete reports such as quarterly reports and close-out reports, and provide analytical reviews.
- Submit project invoices for both consultants and contractors into LouisianaPA.com and secure reimbursements for Town of Jean Lafitte.
- Review all invoices for accuracy and verify that invoices adhere to state approved guidelines and verify accuracy of payments generated by GOHSEP.
- Track expenses from origination to project worksheet assignments and payment.
- Work with Town of Jean Lafitte employees to compile the necessary documents to justify work performed and funds obligated according to FEMA guidelines.
- Assist the Parish in resolving issues during reconciliation of grant close-out.
- Communicate effectively with state auditors on behalf of the parish.
- Review contracts and invoices to reconcile total project costs for completed projects and write version requests to obtain funding for FEMA approved work.
- Formulate projections for future anticipated costs.
- Provide documentation to the Louisiana Legislative Auditors in an effort to speed up the closeout process and generate final versions for projects.
- Work with GOHSEP to obtain required documents for grant close-out, provide assistance to GOHSEP Document Review Specialist and Team Leads on a daily basis, and attend meetings on behalf of Town of Jean Lafitte.
- Utilize electronic document management system to store project records.

**Projects include:**

PW	Project Title	Eligible Amt
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18	Emergency Protective Measures	\$532,464.44
36	Jean Lafitte City Wide	\$213,265.00
37	Jean Lafitte City Wide	\$163,182.91
59	Jean Lafitte-Donated Resources	\$72,495.00
242	EMERGENCY PROTECTIVE MEASURES	\$330,734.60
567	Equipment	\$81,350.83
736	Emergency Flood Protection	\$645,280.15
1175	Emergency Protective Measures	\$107,427.73
1260	Pavilion	\$27,296.50
1266	Jean Lafitte	\$254,632.43
1269	Art Center (White House)	\$32,703.50
1324	Auditorium Contents	\$0.00
1378	JEAN LAFITTE DEMOLITIONS	\$0.00
1463	Emergency Flood Protection	\$61,495.00
2612	Emergency Flood Protection	\$810,022.72
4127	PROCESSING OF DEMOLITION PERMITS	\$55,551.20
4901	JEAN LAFITTE RECREATIONAL PARK PAVILIONS	\$29,505.20
6163	JEAN LAFITTE AUDITORIUM	\$116,697.55
6175	JEAN LAFITTE RECREATIONAL PARK	\$78,445.63
6298	TOWN OF JEAN LAFITTE BUILDINGS	\$0.00
8027	JEAN LAFITTE RECREATION PARK FENCES	\$33,853.45
8425	JEAN LAFITTE TOURIST CENTER	\$316.80
13369	TOWN OF JEAN LAFITTE	\$2,024.50
13659	TRACTOR AND BUSH HOG MOWER	\$8,574.00
16081	A/E SERVICES FOR BASEBALL STADIUM GRANDSTAND	\$0.00
16123	TOT PLAYGROUND SAFETY SURFACE	\$17,065.00
18801	JEAN LAFITTE RECREATIONAL PARK	\$163,644.75
	Total	\$3,838,028.89

**Client Reference:****Jefferson Parish Government****Department of Floodplain Management and Hazard Mitigation****1221 Elmwood Park Boulevard, Suite 310****Jefferson, LA 70123****Maggie Talley, Director @mtalley@jeffparish.net****(504) 736-6750*****Technical Assistance for Floodplain Management, Community Rating System and Hazard Mitigation Related Services (Project No. 0352), Jefferson Parish, LA (Funding Source: Flood Mitigation Assistance and Pre-Disaster Mitigation)***

The Jefferson Parish Department of Floodplain Management and Hazard Mitigation was created in 2013 and created several planning documents including:

- Community Rating System- Program for Public Information
- Multi-Jurisdictional Hazard Mitigation Plan
- Balancing Water National Disaster Resilience Competition Phase 1 and Phase 2 Applications

For this project, BBEC provides Technical Assistance services in three distinct areas – Floodplain Management, the Community Rating System (CRS), and Hazard Mitigation. BBEC's professional services include:

- review and update of the Flood Damage Prevention ordinance;
- assist with substantial damage determination post large flood events, as needed;
- computer consulting services to embellish current electronic document management systems to include substantial damage letter, flood zone determination letters, and community rating system documents;
- education activities and pilot projects to promote flood reduction and the implementation of green infrastructure for Hazard Mitigation;
- assist with the prioritization and implementation of the Program for Public Information (PPI) projects and provide guidance on the 19 activities in relation to current CRS user group processes and regulations; and
- assist, as needed, with developing a multi-jurisdictional Hazard Mitigation Plan update to promote pre and post disaster mitigation measures.

BBEC also provides services to create activities for education and outreach to inform public of a hazard risk in a manner that promotes action with a coordinated theme.

**Client Reference:****Jefferson Parish Government****Department of Sewerage****1221 Elmwood Park Blvd., Suite 803****Jefferson, LA 70123****Brett Todd, Director @ [BTodd@jeffparish.net](mailto:BTodd@jeffparish.net)****(504) 736-6661*****Harvey Wastewater Treatment Plant Sluice Gates and Bar Screens, Jefferson Parish, LA  
(Funding Source: Community Development Block Grant-Disaster Recovery)***

The project consists of the rehabilitation of the bar screens and sluice gates at the Harvey Wastewater Treatment Plant, including the removal and replacement of the bar screens, access hatches for the bar screens, existing sluice gates, and the force main gate valve, cleaning and painting of interior (grit) piping, rehabilitation of the existing motor control center, and providing electric and manual actuators for the gates and an electric actuator for the gate valve. The replaced slide gates include (6) 4'x9' gates, (1) 2'x5' gate, and (1) 5'x5' gate. The (6) 4'x9' are electrically actuated. In addition to the replacement of gates, the project also includes the rehabilitation of (4) 14'x4' gates with new actuators and gearboxes.

An automation system was developed for the operation of the bar screens that measured the headloss across the screen so the screens would automatically rake themselves clean. The system was also designed with automation such as in the event of a control system failure the screens would automatically run so that flow was maintained.

The project includes building renovations including replacing doors, windows, ventilations, electrical lighting and fixtures, roof sections, and roof hatches. BBEC designed all improvements, prepared all plans, specifications, and contract documents. BBEC also assisted the Parish in securing a Community Development Block Grant to fund the construction of the work and addressed all grant requirements in its plans and specifications.

**Client Reference:**

**Jefferson Parish Government**

**Department of Sewerage**

**1221 Elmwood Park Blvd., Suite 803**

**Jefferson, LA 70123**

**Brett Todd, Director @ BTodd@jeffparish.net**

**(504) 736-6661**

***Design, Capacity, and Installation of Emergency Pump Outs (EPO) and Related Incidentals, Jefferson Parish, LA (Funding Source: Community Development Block Grant- Disaster Recovery)***

The project contains 192 lift stations that need EPO installations and 76 lift stations that have EPOs that are currently undersized or need relocation. Through this project, new EPOs will be installed at all 192 lift stations and EPO modifications will be made at the other 76 lift stations. BBEC is reviewing all lift station photos, as-builts, and other information to evaluate the optimum location for the new lift stations and required appurtenances (pumps, hoses, etc.) and design the EPO modification upgrades prior to site surveys. Site Surveys are being performed at each site to document existing conditions and develop site sketches of the stations. BBEC is supervising all site surveys being performed and analyzing the information collected. BBEC is generating site plans for each station, standard details, plans, and specifications.

### c. CAPACITY TO ACCOMPLISH THE WORK IN THE REQUIRED TIME:

Our wealth of experience with public works type projects enables us to provide the Parish with the necessary knowledge of keeping the Project on schedule and within budget, adhering to the standards set forth by the Parish. BBEC can begin work immediately and devote the necessary manpower to continue with the work through completion within any reasonable schedule required by the Parish. BBEC has never failed to meet or exceed our clients' expectations on any of our projects.

Mr. Bonura, P.E., Mr. John Housey, P.E., and Mr. Kevin Forschler, E.I. have combined over 100 years of experience in the design and construction management of various public works projects. If successful, BBEC would manage the project with one of its experienced staff. We have the necessary support staff (engineering interns and CAD technicians) to develop plan sets and permit applications for the project.

Mr. Craig Comeaux, CFM and Mr. Thomas Rodrigue, CFM have extensive experience assisting our clients in FEMA's hazard mitigation funding programs and are available to provide project guidance to make sure the project meets FEMA's requirements for funding.

Mr. Bonura will manage the project through completion, making sure that all requirements of the project are met. BBEC has sufficient licensed and experienced engineers, junior engineers, technicians, and GIS and drafting support to effectively perform work with its existing staff.



**D. DESCRIBE ANY ISSUE THE CHARACTERISTICS OF WHICH WOULD BE UNIQUELY RELEVANT IN EVALUATING THE EXPERIENCE OF RESPONDENT'S FIRM TO HANDLE THE PROPOSED PROJECT:**

BBEC has the exact experience and skillsets to make this a successful project for Livingston Parish and its residents. BBEC assisted its clients' in submitting successful Hazard Mitigation grant applications. BBEC performed H&H evaluations acceptable to FEMA and GOHSEP under the HMGP program. BBEC assisted its clients in obtaining the necessary BCA values to capture the HMGP Phase 2 funding. BBEC designed roadway and drainage projects funded by the HMGP program. And, BBEC closed out FEMA Hazard Mitigation grants for its clients'.

**E. DESCRIBE RESPONDENT'S FIRM'S PRESENCE IN AND COMMITTED TO LOUISIANA:**

BBEC's office is located at 209 Canal Street in Metairie, LA 70005. BBEC is wholly owned by Louisiana residents. Currently, 100% of our workload is being completed in Louisiana and 99% of work completed has been within the state. Our clients include the following:

Baton Rouge  
City of Kenner  
City of New Orleans  
Greater Lafourche Port Commission  
Jefferson Parish  
Lafitte Area Independent District  
Lafourche Parish  
Livingston Parish  
Plaquemines Parish  
St. Bernard Parish  
St. Charles Parish  
St. Tammany Parish  
Town of Jean Lafitte  
West Feliciana Parish

**F. PROVIDE CURRENT INFORMATION ON PROFESSIONAL ERRORS AND OMISSIONS  
COVERAGE CARRIED BY RESPONDENT'S FIRM, INCLUDING AMOUNT OF COVERAGE:**

BBEC carries a professional liability (errors and omissions) insurance policy with a \$1,000,000 each/\$2,000,000 agg limit. A copy of our Certificate of Insurance is provided in section 4 (Attachments).

**G. PROVIDE EVIDENCE OF ADEQUATE FINANCIAL STABILITY THROUGH FINANCIAL STATEMENTS:**

Financial statements from the past three years documenting BBEC's financial stability are in section 4 (Attachments).

#### H. DESCRIBE THE FIRM'S CURRENT CLASSIFICATIONS:

BBEC is certified-active as Small Entrepreneurship with Louisiana Economic Development's Hudson Initiative (See Certificate in Section 4 (Attachments))

## SECTION 2 – SPECIALIZED KNOWLEDGE

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# SPECIALIZED EXPERIENCE

## A. DESCRIBE BBEC'S KNOWLEDGE AND EXPERIENCE IN THE PARTICULAR TYPES OF PROJECTS DESCRIBED IN PART ONE AND THROUGHOUT

### DRAINAGE DESIGN/ENGINEERING SERVICES

BBEC's proposed project manager, **Mr. Jeffrey Bonura, P.E.** has experience in performing and managing design, bidding, construction (including inspector training and oversight), and as-built drawing phases of over \$100 million in FEMA funded roadway and drainage projects in the last 10 years alone, and has performed engineering services for over \$200 million in Public Works projects before that; construction projects that included all aspects of roadway, drainage, sidewalk and driveway construction. Mr. Bonura has substantial specific drainage experience in Jefferson Parish in designing neighborhood drainage systems such as Cleary Avenue between Veterans Boulevard and West Esplanade Avenue and Harvard Avenue between Veterans Boulevard and I-10. Mr. Bonura has current major drainage channel experiences in designing canal and box culvert improvements in our Widening/Stabilization of Bluebird, Creely, and Congressman Hebert Canals project in St. Bernard Parish, Louisiana. Mr. Bonura also has substantial experience using computer models such as Storm CAD and Storm and Sanitary Select CAD to evaluate drainage systems and determine the optimum design for the site conditions. Mr. Bonura used computer models for the design of the aforementioned Cleary Avenue and Harvard Avenue projects, as well as to evaluate drainage conditions along Ames Boulevard and in the Bucktown area.

**Mr. Johnny Housey, P.E.**, has been administering the construction of over \$40 million roadway and drainage improvements for the last several years. Working on projects such as, Hurricane Damage Katrina Roadway Improvements and Drainage Repair in St. Bernard Parish and Pump Stations in Jefferson Parish.

### HYDRAULIC AND HYDROLOGIC (H&H) MODELING

Mr. Bonura has performed engineering services for over \$200 million in Public Works projects before that hydrologic and hydraulic modeling of drainage basins and sewer, water, and storm sewer systems. Mr. Bonura has experience in HEC-1, HEC-2, HEC-RAS, HAEC-HMS (including converting HEC-1 and HEC-2 models to HEC-HMS and HEC-RAS systems), SWMM, StormCAD,

SewerCAD, HydroCAD, Flowmaster, TR-55, and other package hydrologic and hydraulic modeling software packages. Mr. Bonura has and continues to write his own hydraulic modeling programs for special cases. Mr. Bonura spot checks the modeling by hand for model verification. Mr. Bonura also has substantial experience analyzing hydraulic and operating conditions of existing pump stations, including the configuration of section and discharge basins.

## EXPERIENCE WITH FEMA HAZARD MITIGATION PROJECTS

BBEC worked on numerous hazard mitigation projects, helping its clients' obtain funding in the application process, negotiate funding with FEMA and GOHSEP, perform the grant management duties on some projects, perform the engineering services or others (H&H evaluation, design, construction management), perform detailed BCA analysis and hold BCA negotiations with FEMA to maintain funding, and performed grant closeout services.

HM funded projects BBEC worked on include:

- ***HMGP Elevation of Coast Guard Road, Phase I (Project No. 1603x-075-0010), Plaquemines Parish, LA (Funding Source: FEMA Hazard Mitigation Grant Program)***
- ***Widening / Stabilization of Congressman Hebert, Creely, and Bluebird Canals, St. Bernard Parish, LA (Funding Source: FEMA Hazard Mitigation Grant Program)***
- ***Hazard Mitigation Assistance, Elevation of Four (4) Residential Structures (HMGP #1786-057-0007), Lafourche Parish, LA (Funding Source: FEMA Hazard Mitigation Grant Program and U.S. HUD Community Development Block Grant)***
- ***FEMA Hazard Mitigation Assistance Consultant (Project No. 2130-02035), Benefit Cost Analysis (BCA) for HMGP 1603-0426 Broadmoor Stormwater Drainage Project, City of New Orleans, LA (Funding Source: FEMA Hazard Mitigation Grant Program)***
- ***FEMA Hazard Mitigation Assistance Consultant (Project No. 2130-02035), Generator Application, City of New Orleans, LA (Funding Source: FEMA Hazard Mitigation Grant Program)***
- ***FEMA Hazard Mitigation Assistance Consultant (Project No. 2130-02035), Benefit Cost Analysis (BCA) for HMGP 1607-0120 Mirabeau Water Garden Green Infrastructure***



***Project, City of New Orleans, LA (Funding Source: FEMA Hazard Mitigation Grant Program)***

- ***FEMA Hazard Mitigation Assistance Consultant (Project No. 2130-02035), Benefit Cost Analysis (BCA) for HMGP 1603-0430 Lakeview Drainage Project, City of New Orleans, LA (Funding Source: FEMA Hazard Mitigation Program)***
- ***FEMA Hazard Mitigation Assistance Consultant (Project No. 2130-02035), Benefit Cost Analysis (BCA) for HMGP City Park Green Infrastructure Project, City of New Orleans, LA (Funding Source: FEMA Hazard Mitigation Grant Program)***
- ***FEMA Hazard Mitigation Assistance Consultant (Project No. 2130-02035), Project Management for DR1603 and DR1607 HMGP Grant Funding, City of New Orleans, LA (Funding Source: FEMA Hazard Mitigation Grant Program)***
- ***FEMA Hazard Mitigation Assistance Consultant (Project No. 2130-02035), Benefit Cost Analysis (BCA) for HMGP 1603-0429 St. Roch Drainage Project, City of New Orleans, LA (Funding Source: FEMA Hazard Mitigation Grant Program)***
- ***Private Residential Structure Elevation Project, Statewide, LA (Funding Source: FEMA Hazard Mitigation Grant Program)***
- ***FEMA Hazard Mitigation Grant Village Square Site Clearance, Phases 1, 2 and 3, St. Bernard Parish, LA (Funding Source: FEMA Hazard Mitigation Grant Program)***

## **ENVIRONMENTAL PERMITTING**

BBEC has obtained the necessary environmental permits for the projects we designed, including permits from LDOTD, USACE, La CPRA, SLFPA-E, LDWF, and LSHPO.

## **EXPERIENCE DELIVERING COMPLEX INFRASTRUCTURE, OPEN SPACE, AND/OR CAPITAL PROJECTS FOR GOVERNMENT CLIENTS**

Our staff's many years of experience with Evaluation, Design, Bidding, Construction Management, Inspection, and As-Built phase services of public works construction projects enables us to provide our clients with the necessary knowledge of keeping the projects on schedule and within budget, adhering to the standards set forth by the Project Owner and Design Engineer.

To highlight our vast experience in working on complex projects, working with multiple departments and agencies, we list below our key Program Management Projects and Major Construction Management Projects performed by BBEC and its staff as follows:

Program Management of Jefferson Parish 1998 Road Bond Program **(\$300 million)**

Program Management of St. Bernard Parish Miscellaneous Public Works Projects **(\$300 million)**

Program Management of Baton Rouge Wastewater Improvement Program **(\$290 million)**

As program manager, BBEC was required to coordinate with other municipal departments, such as streets, sewer, water, drainage, capital projects, environmental, legal, and purchasing; as well as offices of the Council, Mayor (or Parish President), and Public Information Offices.

In addition to the departments within the client municipality, our experience includes coordinating projects with other agencies such as the various state levee districts, LDOTD, LDNR, USACE, LDEQ, and USEPA; and private entities such as the private utility companies (Entery, Cleco, Cox, AT&T, Atmos, etc), and area railroad companies.

## GRANT PROGRAM ADMINISTRATION

BBEC is fully versed in the Federal Emergency Management Agency (FEMA) Hazard Mitigation Grant Program (HMGP), including the Flood Mitigation Assistance Program (FMA); in addition, we are experienced in other federal grant programs, such as the FEMA's Public Assistance (PA) Grant Program and the HUD Community Development Block Grant Program (CDBG). BBEC has considerable experience in the execution of federal grant-funded projects and adhering to the requirements and standards of the grant administering agency. BBEC provided various stages of grant assistance for FEMA and HUD funded projects for over \$750 million in grants.

## AGENCY COORDINATION

Our experience includes managing and procuring contractors and coordinating the work with the LA DOTD, Environmental Protection Agency (EPA), FEMA, Louisiana Governor's Office of Homeland Security and Emergency Preparedness (GOHSEP), U.S. Department of Housing and Urban Development (HUD), Louisiana Department of Environmental Quality (LDEQ), State Historic Preservation Office (SHPO), U.S. Army Corps of Engineers (USACE), and other State and Federal agencies. We have substantial experience in working with all agencies in developing, processing, and obligating the necessary project worksheets so that funding of the project occurs.

BBEC has also assisted its clients in obtaining its federal grants, maintaining compliance with the grants, securing the reimbursements, and addressing comments generated by

the audits at close-out of the grants when necessary. Our administrative, accounting, and computer programming staff are very familiar with the record keeping necessary for FEMA funded projects. BBEC has automated record keeping, tracking and document management systems in place that we developed specifically for FEMA and HUD projects.

### **GIS SERVICES**

In addition to our specific engineering and disaster related expertise, BBEC has extensive knowledge of the Geographic Information Systems (GIS). Drawings and data developed from the GIS showing site topography could be used to develop site plans for construction, traffic detour plans, preliminary cost estimates, project presentations, tracking operations, and many other uses. We have used these services to prepare detailed zone maps for streets, drain lines, sewer systems, and canals. We have also prepared progress reports of construction services by showing street-by-street progress of crews through a zone, and we published the information on the web daily for some of our clients.

### **DATA MANAGEMENT**

Data Management can play a vital role in having an efficiently run project. BBEC has utilized its knowledge of electronic data management (DM) in managing large construction projects. We have used this expertise to electronically file all paperwork associated with grant related construction services including but not limited to: load/haul tickets, permits, site drawings, plans, private property right of entry forms, project worksheets, and reimbursement request forms of applied payment to the funding agency.

### **SURVEYING SERVICES**

For timely, accurate land surveying, it pays to rely on professionals. BBEC has partnered with McLin Taylor, Inc., an Engineering and Land Surveying Company that provides services in southeast Louisiana, primarily in Livingston, Ascension, Tangipahoa, St. Tammany, and East Baton Rouge Parishes. Since 1997, our headquarters has been located in Livingston Parish. A large focus of our business is on engineering projects. We have worked on a wide variety of private and public projects and provide services such as drainage impact studies, traffic impact studies, site and utility plans, grading and drainage plans, sewer plans, and general civil construction. Another large focus of our business is on surveying which ranges from boundary surveys of all sizes to topographic surveys and construction stakeout for engineered projects.

McLin Taylor, Inc. has surveyed thousands of acres (boundary and topographically) in southeast Louisiana and has successfully completed many engineering projects in the parish as well. We have performed engineering & surveying services for many drainage, water, and general civil construction projects and have also successfully worked parish government as well as other government and public agencies.

The co-owner and president of McLin Taylor is Lester McLin, who has over 35 years of experience in Land Surveying and civil projects. As a Professional Land Surveyor, Lester has produced thousands of surveys from field surveys, research, topographic surveys, and construction stakeout that have been uses for multiple purposes.

The vice president and co-owner of McLin Taylor is Billy Taylor. Billy is a graduate of Louisiana State University with a degree in Civil Engineering and is licensed as a Professional Engineer and a Professional Land Surveyor. He has experience in many aspects of engineering including drainage impact studies, traffic impact studies, site and utility plans, grading and drainage plans, sewer plans, and general civil construction for public and private projects. He also has experience in many aspects of surveying including boundary surveys, topographic surveys, construction surveys and stakeout.

McLin Taylor employs four full-time survey crews and has the capability to add others with little notice. Our crews are experienced in boundary, topographic, and construction surveying that enables us to provide many quality services.

In addition to our experienced staff, we use the most reliable and up to date technology in the industry and a well-equipped support fleet of trucks, all-terrain vehicles and boats. The following is a list of the software and field equipment that we use:

Autodesk Land Desktop	Trimble GPS Field Equipment
Autodesk Civil Design	Lieca Robotic Instruments
Autodesk Survey	Topcon Total Stations
AutoCad Drafting	Recon Data Collectors
C& G Surveying Software	Site Survey
Trimble Geomatics Office (GPS Software)	Pond Pack
Hydraflow Storm Sewers	HEC-RAS

A list of McLin Taylor's Major Projects follows:

## RESIDENTIAL & COMMERCIAL LAND DEVELOPMENTS

### East Baton Rouge Parish



Pine Bluff Road Drainage Improvements Project

Cortana Mall Shopping Center  
Shenandoah Estates Subdivision  
Woodlawn Estates Subdivision  
Woodstone Subdivision  
Oakbrook Subdivision  
The Woodlands  
Santa Maria Golf Course & Residential Development  
Country Club of Louisiana Golf Course & Residential Development

**Ascension Parish**

Seven Oaks at Oak Lane Farms  
Ascension Trace Subdivision  
River Ridge Subdivision

**Livingston Parish**

River Highlands Subdivision  
Easterly Lakes Subdivision  
Richmond Subdivision  
Crestwood Subdivision  
South Point Subdivision  
Westminster Subdivision  
Forest Ridge Subdivision  
Woodland Crossing Subdivision  
South Haven Subdivision  
Pine Meadows Subdivision  
Carter Plantation Golf Course & Residential Development  
Bruce's Harbor Subdivision  
CIAP Boundary Survey

**INDUSTRIAL & ENVIRONMENTAL**

Rollins Environmental Services Plant  
N.P.C. Hazardous Waste Site  
Bayou Sorrel Hazardous Waste Site  
Koch Pipeline  
Exxon Project Spice- West Baton Rouge Parish

Colonial Landfill- BFI  
Woodside Landfill- Waste Management  
Gulf Pines Landfill- BFI  
East Baton Rouge Parish Landfill  
Wetlands Surveys for permitting on many of the Subdivision Projects

#### **GOVERNMENTAL & MUNICIPALITY**

Rights of Way Plans  
    Jefferson Highway, Baton Rouge  
    La. Hwy 2, East Carroll Parish  
    La. Hwy 171, Deridder  
Land Acquisition Surveys  
    Baton Rouge Sewer Program  
    Baton Rouge Metropolitan Airport  
La DOTD Off-System Bridge Program (Surveying)  
Livingston Parish Road Improvement Program  
Various Engineering & Survey Projects for Livingston Parish School Board  
Various Engineering & Survey Projects for Tangipahoa Parish School Board  
Various Engineering & Survey Projects for Ascension Parish School Board  
Livingston Parish Ownership Maps  
Livingston Parish Gustav Storm Debris Monitoring  
Live Oak Sports Complex (Recreation District)  
2600 Acre Boundary Survey for Livingston Parish (CIAP)  
Spring Ranch Road Engineering and Surveying

#### **EXPERT WITNESS**

Witnesses in several cases in the 21<sup>st</sup> Judicial District.

## SECTION 3 –PERSONNEL / PROFESSIONAL QUALIFICATIONS

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Pine Bluff Road Drainage Improvements Project

# PERSONNEL/PROFESSIONAL QUALIFICATIONS

## **A. IDENTIFY STAFF MEMBERS IN THE JOB CLASSIFICATIONS WHO WOULD BE ASSIGNED TO ACT FOR RESPONDENT'S FIRM KEY MANAGEMENT AND FIELD POSITIONS:**

### **BBEC TEAM STAFF ASSIGNMENTS:**

Jeffrey Bonura, P.E. – Principal in Charge/Supervising Engineer

Johnny Housey, P.E. – Project Engineer

Kevin Forschler, E.I. – Junior Engineer

Rayburn Clipper – CAD Technician / GIS

Penny Vedrenne – CAD Technician

Craig Comeaux, C.F.M.- Grant Management/BCA

William Taylor, P.E., P.L.S – Surveyor

Lester McLin Jr., P.L.S. - Surveyor

## **B. RESUMES FOLLOW IDENTIFYING STAFF MEMBERS WHO WOULD BE ASSIGNED TO THE PROJECT.**

## **C. ESTIMATE THE NUMBER OF PERSONS TO BE ASSIGNED TO THIS PROJECT, INDICATING THE NUMBER WORKING IN LOUISIANA AND THE NUMBER WORKING ELSEWHERE:**

It is expected that a survey crew (3-4 persons), a drafter, and a licensed surveyor are required to perform the survey services.

We expect to utilize our GIS Technician and engineering intern to develop and run the H&H model, with the Supervising Engineers oversight.

We expect the design to be performed by a licensed engineer, engineering intern, and drafter, with the Supervising Engineer's oversight.

We expect the construction services to be performed by a licensed engineer and construction inspector.



In total, we expect 12 individuals will work on the project at one point in the project or another.

All of BBEC's staff work in Louisiana.

# Jeffrey A. Bonura, P.E.

Principal in Charge / Phone No. (504) 828-0030 / Fax No. (504) 828-8006  
Email: jbonura@bbecllc.com

## PROJECT RESPONSIBILITIES

- Principal

## LICENSE

- Civil Engineer, 1995  
Louisiana #26368

## EDUCATION

- Tulane University, New Orleans, LA  
Bachelor of Science in Civil Engineering, 1991

## Experience Highlights

Jeffrey Bonura, P.E. is a partner in the firm of Barowka and Bonura Engineers and Consultants, L.L.C. Mr. Bonura began his career in 1988 and since that time has worked as a project engineer, project manager and program manager on municipal, commercial, institutional and industrial projects.

His professional engineering experience includes the design, project management, and construction administration of a broad range of projects including water and wastewater treatment plant design and operation and maintenance management, landfill leachate collection and treatment, water transmission, wastewater collection, and stormwater management. He also has substantial experience in roadway and drainage planning, design, and construction management for civil and structural engineering projects. Mr. Bonura's grant management experience includes project formulation, cost estimation, fund accounting, and closeout of a broad range of public assistance and hazard mitigation grants.

Mr. Bonura continues to serve as Program Manager for other various roadway, drainage projects, and civil infrastructure projects throughout South Louisiana. Over the years, Mr. Bonura has become familiar with resolving construction related problems such as public relations, client satisfaction and change order negotiations. Mr. Bonura also has experience with litigation with residents due to contractor activities, litigation with the contractor to



resolve claims and other disputes, and litigation with bonding companies to complete the work of a defaulted contractor.

## **Drainage**

### ***HMGP Elevation of Coast Guard Road, Phase I (Project No. 1603x-075-0010), Plaquemines Parish, LA***

Approximately 0.2 miles of the existing section of Coast Guard Road in Venice, beginning with its intersection with Tidewater Road, between longitude/latitude 29.258072/-89.367031 and 29.253624/-89.35847, was addressed under this project. The work included the design for the addition of appropriate earth materials to elevate the roadway base with stabilization from its current elevation of +3' NGVD to an elevation of +5' NGVD. In its previous condition, this roadway experienced overtopping with flood waters regularly whenever the stage of the Mississippi River at Venice exceeds +4' NGVD. Additionally, the existing drainage system was upgraded in order to increase the outflow capacity, replacing the current 24"/30" diameter piping with 36" piping.

In accordance with Executive Order 11988, Plaquemines Parish Government determined that the entirety of the project area is located within the 100-year floodplain, and in accordance with Executive Order 11990, that the project had the potential to impact the wetlands in the area.

Phase I of the HMGP Elevation of Coast Guard Road consisted of:

- Hydrologic and Hydraulic (H&H) study to identify the existing drainage system, the need for project upgrades, and the anticipated benefits to be derived from the proposed upgrades;
- Environmental Review;
- Design the upgrades including the recommendations of the H&H Study and prepare the bid and construction documents; and
- Preliminary and revised cost estimates.

### ***Drainage Station Evaluation, St. Bernard Parish, LA***

Evaluation of condition and hydraulic capacity of 18 existing pump stations, perform preliminary design services, identify alternatives for improvements. The evaluation considered the hydraulic performance of the pumps, the conditions of the incoming channel, automation/control capabilities, and projected flows.

### ***Cypress Park Subdivision Drainage Evaluation, St. Tammany Parish, LA 2016-2017***



Mr. Bonura served as the supervising professional and project engineer on the hydraulic and hydrologic study of the Erindale Heights and Cypress Park Subdivisions (about 450 acres of single family residential property). The study consisted of developing a computer model of the hydrology and drainage system consisting of natural channels, open ditches, closed conduits, and culverts. BBEC evaluated the 5, 10, 25, 50, and 100 year storms, and developed several alternatives for addressing the flooding concerns. BBEC provided pros and cons, permitting concerns, and construction cost estimates related to the alternatives. The alternatives considered included elevation adjustments to open channels, increased closed conduit usage and size of existing closed conduits, levees, and pump stations.

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***Jean Lafitte Parkway Drainage Line Repairs/Replacement (Storm Drains), St. Bernard Parish, LA*** ***2014-Present***

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Mr. Bonura serves as the supervising professional and project engineer on the project. The project consists of the complete replacement of about 4,200 linear feet of 72-inch to 96-inch drain pipe, with drainage structures and smaller lateral lines to collect stormwater from existing roadway catch basins. The project also includes the replacement of roadway intersections where the drain line crosses streets. The project bid was \$3.9 million. The work is currently under construction, at about 30% complete. BBEC performed all design, bidding, and is performing the construction services for the project. In addition to the normal design services, Mr. Bonura obtained a Coastal Use Permit determination, and USACE wetlands permit determination, and a SLFPA-E (regional levee district) permit for the project.

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***Widening / Stabilization of Congressman Hebert, Creely, and Bluebird Canals, St. Bernard Parish, LA*** ***2015-Present***

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Mr. Bonura serves as the supervising professional and project engineer on the hydraulic and hydrologic model phase and the design of the Congressman Hebert Canal replacement portion of the project. The project includes increasing the capacity and improves the stability of Congressman Hebert, Creely, and Bluebird Canals, that consists of 11,600 linear feet of open canal and culverts ranging from 4-feet bottom width to 16-feet bottom width channels. Mr. Bonura coordinated with St. Bernard Parish, Lake Borgne Basin Levee District, and the Louisiana Department of Transportation and Development to obtain information regarding the existing drainage plan. BBEC performed a hydrologic and hydraulic analysis of the existing system to evaluate the entire area for the 5-year, 10-year, and 25-year storms. BBEC established the design cross sections for the channels, which included concrete u-channels, concrete box culverts, and round and arched pipe, and concrete lined trapezoidal sections, depending on the availability of land and other conditions.

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***Map Modernization, St. Bernard Parish, LA*** ***2008***

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Mr. Bonura oversaw and assisted FEMA to develop St. Bernard Parish's flood insurance rate maps as part of FEMA's map modernization program. Mr. Bonura prepared the project scoping document for St. Bernard Parish and received FEMA approval in accordance with FEMA document Guidance for Scoping Flood Mapping Projects. Mr. Bonura incorporated the Parish's hydraulic features into the GIS. Mr. Bonura performed the necessary hydraulic and hydrologic

studies and analyses necessary for the implementation of the map modernization project by using USCAE's hydraulic and hydrologic modeling software HEC-RAS and HEC-HMS. Mr. Bonura incorporated the results of the hydrologic and hydraulic studies GIS to develop the necessary flood plains. Mr. Bonura prepared a Base Map for the project (streets, ditches, benchmarks, etc.) from St. Bernard Parish's existing GIS, modifying the format to FEMA standards. Mr. Bonura has submitted all hydraulic and hydrologic and survey work for independent QA/QC, and is currently developing DFIRM base maps. All work associated with the development of the DFIRMs were in strict compliance with the National Flood Insurance Program.

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#### ***Digital Flood Insurance Rate Map, Jefferson Parish, LA***

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Mr. Bonura performed all GIS / Database Management services for the Jefferson Parish DFIRM Project, including documentation and preparation of maps and GIS data. Mr. Bonura was responsible for preparing Metadata Base according to "Content Standard for Digital Geospatial Metadata." Mr. Bonura prepared base maps including streets, railroads, canals, ditches, benchmarks and flood hazard contours to meet DFIRM specifications. Mr. Bonura was also responsible for generating maps to meet DFIRM specifications and to provide all data and maps in the correct format acceptable by FEMA. Considering that all work associated with the development of the DFIRMs was in strict compliance with the National Flood Insurance Program, BBEC has an intimate knowledge of the NFIP program.

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#### ***Sanitary Landfill Phase I and II Expansion, Jefferson Parish, LA***

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**1997**

As Project Engineer and Construction Manager for the upgrade to the Phase I and Phase II sites of the Jefferson Parish Sanitary Landfill to meet new Federal Subtitle D regulations, Mr. Bonura designed about 20 HDPE leachate manholes with submersible pumps and several thousand feet of leachate collection pipe under existing solid waste. Mr. Bonura designed several thousand feet of leachate transmission lines, the retrofitting of about 20 leachate collection lines to install in-line submersible pumps, and an oxidation pond with an overflow/outfall structure. Mr. Bonura served as Construction Manager for the entire project.

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#### ***Primrose Box Culverts, St Charles Parish, LA***

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**2004**

Mr. Bonura provided design and construction related services for the three 24-foot clear span box culverts and related road/drive restoration.

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#### ***Harvard Avenue Drainage Improvements, Jefferson Parish, LA***

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**2004**

Mr. Bonura designed approximately 6,000 linear feet of 24-inch to 72-inch drain pipe in Jefferson Parish, Louisiana. BBEC used Intergraph's Storm and Sanitary SelectCAD modeling software to determine the surface runoff and the pipe sizes. Data from the existing Parish's GIS was used to develop the surface terrain for the basis of the model. The project requires that the various drain lines be installed within 50-foot Parish right-of-ways in commercial and residential areas, existing utilities throughout the length of the project are maintained, and the site is restored, including roadways, to its before construction condition. The project also requires three separate jack-and-bores, from 30-inches to 72-inches in diameter, across a three-lane roadway to discharge into a canal. The estimated construction cost is \$2,430,000.

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***Boutte Drainage Improvements, St. Charles Parish, LA******2002***

The project consists of about 1,500 linear feet of 24-inch drainage pipe along US Highway 90 in Boutte. Included is provision of additional catch basins and manholes, traffic maintenance, roadway restoration, and re-grading of existing channels. TR-55 (computer model) was used to determine the watershed's runoff. Hydraulic calculations were performed by hand. The estimated construction cost is \$274,000.

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***Ames Boulevard Roadside Drainage Improvements, Jefferson Parish, LA******2005***

Mr. Bonura performed runoff calculations and designed drainage improvements for a two-mile segment of Ames Boulevard on the West Bank of Jefferson Parish. Mr. Bonura prepared construction drawings for the project in less than three weeks utilizing the Parish's standard details, and the Parish's GIS maps for plan sheets, and coordinated the work with the Parish, private utilities, and the annual contractor constructing the project. The total project cost is about \$800,000.

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***Canal Monumentation Program, Jefferson Parish, LA***

Mr. Bonura worked with the Parish's Drainage Department to develop and implement a canal monumentation project for the entire Parish. The project included stationing the canals with vertical and horizontal monuments strategically located, locating right of way and servitude information, researching existing data and projects for data relevant to the project such as current or past projects, subdivision plats, the Parish's GIS, and other information available for the implementation of the project.

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***Guichard Canal Area Drainage Evaluation, St. Bernard Parish, LA******2005***

The project consisted of evaluating the ability of an existing drainage system in St. Bernard Parish, Louisiana to handle the 10-year storm for a 200 drainage basin in a residential area primarily consisting of open ditches and miscellaneous culverts with multiple outfalls into the Guichard Canal. The area is bounded by the Guichard Canal on the west, Paris Road on the east, Judge Perez Drive on the south, and Patricia Street on the north. The area also contained two drainage pump stations that were designed to drain the subsurface system, while the main volume of flow during the rain events utilized roadside ditches and some subsurface drain lines. Mr. Bonura supervised the development of a drainage layer in the Parish's GIS, supervised the surveying of elevations of the drainage features, developed a hydrologic and hydraulic model for the area, modeled the area and determined all deficient drain lines. Mr. Bonura made recommendations for the necessary improvements to cover the 10-year storm.

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***Lake Avenue and Carrollton Avenue Drainage Study, Jefferson Parish, LA******2005***

Project included an extensive drainage and traffic control study on Lake and Carrollton Avenues in the Bucktown area of Jefferson Parish, Louisiana. Hydraulic modeling of the entire area was performed and drainage improvements were recommended in conjunction with the findings of the traffic study. Mr. Bonura performed the hydraulic model, coordinated with the traffic engineer and designed the proposed drainage improvements.

### ***Parish-Wide Drain Line Cleaning – Phase I, St. Bernard Parish, LA***

**2005**

Immediately following Hurricane Katrina many of the Parish's streets were flooded and had difficulty draining due to the storm debris clogging its drainage system. The Parish issued an emergency contract for debris removal services, including the removal of debris from Parish drain lines. BBEC immediately issued work orders to the contractor to remove the debris and restore drainage, and monitored the work being performed. BBEC utilized the Parish's existing GIS system to accurately track and report progress. BBEC worked with the Parish and FEMA to obtain FEMA Public Assistance eligibility determinations and assisted the Parish in securing \$9.3 million in FEMA funding to cover the project costs. Mr. Bonura managed the project through completion, including developing the necessary work orders and field protocol for resident inspection and quality control, overseeing the document control and invoice review in the office, coordination of disposal sites, and contract compliance.

### ***Parish-Wide Drain Line Cleaning – Phase 2, St. Bernard Parish, LA***

**2007**

Phase 1 of the project included the removal of debris from the drainage system immediately following Katrina. After Phase 1 was completed, and Parish residents started to return home, further drainage problems were observed. It was determined that drain lines not cleaned in Phase 1 contained debris that required cleaning. Mr. Bonura coordinated with the Parish, State, and FEMA to develop a project to clean the remaining drain lines that needed cleaning. The project included working with FEMA to perform eligibility inspections, documentation of the eligibility inspections, procurement of a contractor, construction contract administration and resident inspection of the project, and compliance with the FEMA funding program. Mr. Bonura managed the project through completion, coordinating the work with the Parish and FEMA, overseeing the procurement, construction contract administration, and resident inspection.

### ***District 4 Drainage Outfall Improvements Evaluation, Jefferson Parish, LA***

Mr. Bonura was project engineer and the supervising professional on the project. The project consisted of identifying all drainage outfalls in Jefferson Parish Council District 4 and developing preliminary plans and cost estimates for options to replace the existing outfalls with improved structures, considering aesthetics, maintenance, and hydraulic performance

## **Roadway and Drainage**

### ***West Napoleon Avenue Improvements, Cleary Avenue to Severn Avenue, (LA DOTD Project No. 742-07-0088), Jefferson Parish, LA***

Mr. Bonura performed design and construction administration services on this \$13 million TIMED roadway and drainage project, which consists of about 3,800 l.f. of four-lane concrete roadway divided by a new 30-foot wide concrete u-channel. Mr. Bonura coordinated with the private utility companies to relocate (or work around) natural gas pipelines and power and communication lines, overhead and buried, and coordinated construction and connection to public utilities (water and sewer) as well. Mr. Bonura reviewed and made recommendations regarding substitute materials and construction methods, and monitored the contractors'





accelerated operations that reduced the construction contract time from two and a half years to one and a half years.

***Cleary Improvements (Veterans Blvd. to West Esplanade Avenue) (Council District 5), Jefferson Parish, LA***

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Mr. Bonura is currently serving as Design Engineer and Supervising Professional for this project which consists of the reconstruction of Cleary Avenue between Veterans Boulevard and West Esplanade Avenue, and includes drainage improvements.

Under a prior contract, BBEC developed a hydrologic and hydraulic model for the project area and the surrounding neighborhoods that drain into the project area; evaluated the design conditions, and made recommendations for drainage improvements for the area.

The improvements include removing and replacing approximately 4,000 linear feet of four-lane concrete street (2 travel lanes, 2 parking lanes) with curbs; removing and replacing adjoining concrete sidewalks, drives, and ADA ramps; installation of new sub-surface drainage; installation of new outfall pipe crossing W. Esplanade Avenue and discharging into W. Esplanade Avenue Canal; installation of new outfall pipe crossing Veterans Blvd. and discharging into Veterans Blvd. Canal (Canal No. 3); the replacement of all water mains crossing Cleary Avenue and West Esplanade Avenue in the project area; and coordination with private utilities for their respective utility relocations.

The scope of work also includes traffic phasing, allowing the contractor to work on one lane at a time. When working on the parking lanes, the 2-way traffic is maintained. When working in the travel lanes, only 1-way traffic is allowed.

***Ames Boulevard Rehabilitation, West Bank Expressway to Happy Street, (Public Works Project No. 2013-033-RB) (DOTD No. H.01179), Jefferson Parish, LA***

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Mr. Bonura is serving as the Supervising Professional for this project which includes all necessary professional design services in connection with the project defined as follows: Mill existing asphalt pavement over existing concrete roadway; replace damaged concrete roadway panels, associated underlying base course, and concrete curb as necessary; clean and seal existing concrete joints; overlay existing concrete roadway with new asphalt; adjust existing public utility facilities (water, sewer, drainage) as necessary to match finished roadway grades and comply with current ADA guidelines; and install permanent striping.

As this project is eligible for federal construction funds as part of the Federal Aid Urban System Program, all work shall be performed in accordance with Louisiana Department of Transportation and Development (LA DOTD) guidelines which includes development of existing and proposed drainage maps with associated hydraulic computations, and all design work shall be subject to review by the LA DOTD.



BBEC completed the Preliminary Phase of this project coordinating all topographic surveys and other investigations, preparing a program of borings and other soil investigations, plotting information obtained from surveyor on plan, preparing preliminary layouts and sketches to develop design criteria, and preparing a preliminary cost estimate.

Currently in the Design Phase, BBEC prepared detailed construction plans and technical specifications in accordance with LA DOTD criteria and submitted 90% plans for LDOTD review. These plans include locations of all utilities affected, and ownership and taking lines of rights-of-way where required. BBEC will also prepare permits for submission to and approval of local, state and federal authorities. A detailed Final Cost Estimate will also be provided at this time.

BBEC's contract does not include bidding services or services during construction.

#### **Mid-City Street Improvements (Project No. 2012-FEMA-4G-1), City of New Orleans, LA**

Mr. Bonura served as the Supervising Professional for the Mid-City Street Improvement project which included all professional engineering design services for FEMA-eligible paving street repairs on streets in the Mid-City neighborhood area of New Orleans.

Plans and specifications for the reconstruction of these roads included the following design features: roadway pavement complete with curbs; a base for the roadway pavement; subsurface drainage, water, and sanitary sewer installation; adjustments as required at driveways and at intersecting streets; installation of ramps for the handicapped at intersections.

BBEC's responsibilities on this project were as subconsultant to the prime engineering firm. In this capacity, BBEC performed the Scoping Phase of the project which included assessment of the existing roadways and curbs, sidewalks, driveways, and handicapped ramps within the designated New Orleans Mid-City neighborhood for damages related to Hurricane Katrina to be submitted to FEMA for an eligibility determination. During the Preliminary Design Phase, BBEC assisted the engineer by developing preliminary construction plans and specifications, utilizing the City of New Orleans Standards and Details and preparing an initial cost estimate for part of the project. During the Final Design Phase, BBEC assisted the engineer by developing final design plans and specifications, utilizing the City of New Orleans Standards and Details and preparing an initial cost estimate for part of the project.

The project is currently advertised for bids. BBEC is providing performing bidding services for its part of the work; and will perform construction administration and resident inspection services for same.

#### **Read Blvd. East Group C, Capital Improvement Program, Project No. 2016-RR146. PW No. 21032, City of New Orleans, LA-**



Mr. Bonura is serving as the Supervising Professional for the Read Blvd. East Group C project which includes all necessary professional design services in connection with the project defined as follows: replacement of roadway pavement, with base replacement, complete with curbs; replacement of sidewalks and drive aprons; subsurface drainage, water, and sanitary sewer installation; and adjustments as required at driveways, at intersecting streets, and at project termini to provide for positive flow of water towards catch basins.

BBEC completed the Preliminary Phase of this project by providing the City of New Orleans with 60% plans, specifications, and cost estimate. The plans consisted of the title sheet, typical sections, special details, plans and profile drawings, cross sections, and preliminary summary sheets. The plans also included information on the approximate footprint of the work to be submitted for EHP review.

BBEC recently submitted final stamped plans for City approval, and subsequent advertisement for bids.

During the Bidding Phase, BBEC will assist the City of New Orleans in securing bids. BBEC will attend the pre-bid conference and address any questions concerning the engineering design. BBEC will assist the City in preparing addenda, respond to bidder's questions, attend the bid opening, prepare bid tabulation sheets, and check documentation submitted with bids for completeness. BBEC will submit a bid tabulation and award recommendation letter to the City.

During the Construction Administration Phase, BBEC will oversee all aspects of the construction. BBEC will attend the pre-construction meeting, review and track submittals and RFIs, assist with issues that arise during construction, attend progress meetings, perform site visits, and review pay applications. Upon completion of this phase, BBEC will prepare as-built drawings.

During the Inspection, Reporting, and Verification Phase, BBEC will inspect the construction work in the field, prepare daily reports, and track completed work.

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***Westbank Mississippi River Bike Trail, Around Avondale Shipyard (2017-059-RBP,  
Jefferson Parish, LA***

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Mr. Bonura is the supervising professional over the project, providing day to day input for the implementation of the project. BBEC is currently working on detailed plans and specifications for the construction of the 2.5 mile bike path, part of which is on the top of the Mississippi River levee and the balance of which is on the shoulders of two state highways. A key component to BBEC's designs on the levee section is to maintain the integrity of the levee and while constructing the base and asphalt bike path section with a limited width of top of levee. For the state highway portion of the project, part of the project has asphalt shoulders in place, therefore only pavement markings and signage are required. In other locations, roadway widening and required subsurface drainage is necessary to install the bicycle travel lanes.

BBEC is currently coordinating its work with the LDOTD, the West Jefferson Levee District, the USACE through the levee district, and Union Pacific Railroad to obtain the necessary permits to perform the project. BBEC is also working with Jefferson Parish to determine the required right-of-way (ROW) so it could be acquired from the adjacent property owner(s).

Once the design is complete, BBEC will perform bidding services, construction administration services, and resident inspection services for the construction project.

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***Drainage Pump Station Fuel Storage Secondary Containment, Jefferson Parish, LA*** **2004**

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Mr. Bonura designed secondary containment systems to contain diesel fuel at 11 west bank drainage pump stations so that the fuel from the largest storage tank on the site would be retained in the event of a diesel fuel spill. Mr. Bonura developed details for containment systems such as concrete retaining walls for tanks farms stored on existing slabs, and lining systems for earthen containment ponds if the slab option did not provide sufficient volume. Mr. Bonura provided the details to the Drainage Department, who in-turn advertised the work for public bid as funding allowed and administered the work through construction.

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***Manson Ditch and Lower Kraak Outfall System Improvements, Jefferson Parish, LA*** **2005**

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The scope of BBEC's work was to provide full engineering services, including evaluation of alternatives, preliminary design, final design, bidding, construction administration, resident inspection, and as-built drawing services, for the improvements to the Manson Ditch outfall into the West Metairie Avenue Canal. All design work is complete and the project is on hold pending funding. The project consists of hydraulic modeling of drainage structures, design of drainage systems composed of cast-in-place concrete structures and pipe systems, connection to existing culverts, transition to existing canal banks, utility relocations, roadway and other site restoration, traffic maintenance and signal design, pavement striping, and all incidental work. Currently two large diameter drain lines (60-inch and 72-inch diameter) discharge into the West Metairie Canal culvert crossing under Cleary Avenue. The purpose of the project is to remove the connection and discharge the two drain lines directly into the canal, requiring an outfall structure. The outfall structure is designed to accept the two drain lines, connect to the existing two 96-inch diameter culverts, and be able to transition to a future 16-foot wide u-channel. Temporary bank stabilization is required until the future u-channel project is completed. Traffic flow on the two major arterial streets must be maintained at all times through construction of the project.

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***Cleary Avenue Roadway and Drainage Improvements, Jefferson Parish, LA*** **2003**

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The project included reconstruction of approximately 4000 feet of concrete roadway, redesign of existing drainage system and general improvements to existing infrastructure on Cleary Avenue from Veterans Boulevard to West Esplanade Avenue. Hydraulic modeling and studies were performed on the existing drainage system to determine the size and location of new

trunk lines to be constructed with this project. Mr. Bonura performed the modeling, design, evaluation (drainage under roadway), and plans and specifications. The Parish constructed improvements as the funding allowed with annual maintenance contracts.

## **Stormwater Management**

### ***Sanitary Landfill 2019 Solid Waste Permit Application, Jefferson Parish, LA***

BBEC worked as a subconsultant to another firm to develop a complete solid waste permit renewal for the Jefferson Parish Sanitary Landfill. BBEC's role in developing the permit application included:

- Ownership of property verification
- Site plan development, including verification of facilities, contours, soil borings and conditions, groundwater monitoring wells and conditions
- Verification of environmentally sensitive sites within the facility
- Verification of environmentally sensitive sites surrounding the facility
- Leachate collection system
- Technical review of the completed permit application

Mr. Bonura performed the reviewed the exiting leachate collection system and geotechnical information to develop the leachate and geotechnical components of the permit application. Further, Mr. Bonura oversaw the balance of the work as supervising professional over the whole project.

### ***Sanitary Landfill Stormwater Detention, Jefferson Parish, LA***

As part of the landfill permitting process, the requirement for the site was to contain the 25-year storm. Mr. Bonura developed the initial stormwater management plans to address the requirement. To put the landfill project out for bid, Mr. Bonura designed the actual facilities and site improvements to maintain compliance with the 25-year storm requirement. Mr. Bonura designed a complete drainage system for the 88 acre Phase III expansion site, which included the construction of ditches, canals, bridges, culverts, and outfall structures, Mr. Bonura performed the hydraulic modeling to determine the runoff for the site, performed the hydraulic modeling analysis to determine the ditch and canal cross sections, with the existing tight elevation constraints, performed a cost analysis study to determine the most cost effective method for the canal crossings, compared precast box culverts, poured in place box culverts, ConSpan sections, precast (Waskey) bridge sections, and poured in place bridge sections. Mr. Bonura determined (with concurrence of the contractor on the site) that they poured in place bridge section was the most cost-effective method, determined the culvert sizes and prepared final construction drawings and specifications for the entire project. The drainage portion of the project cost about \$3,000,000.

### ***Sanitary Landfill Phase III Expansion, Jefferson Parish, LA***

**1998**

Mr. Bonura designed the leachate collection and transmission system which included 24 submersible collection pumps, miles of collection and transmission pipe, and a transmission pumping station. Mr. Bonura determined stormwater runoff for the site and designed a

drainage system for the 88-acre site, which included a system of canal, stormwater detention pond, and roadway crossings.

## **Environmental**

### ***Louisiana Land Trust Demolition Program, St. Bernard Parish, LA***

***January 2009-June 2013***

BBEC was instrumental in compliance with the EPA's requirements for stormwater erosion control prevention by providing daily inspections and weekly compliance reporting. BBEC provided information to LDEQ to show its compliance with its storm water preventions plan and permits.

BBEC coordinated with LDEQ for regulatory compliance for the abatement of structures and slabs included in the Louisiana Land Trust's residential demolition and slab removal program. BBEC provided contract management services as well as an accredited asbestos inspector to ensure that the Contractor was in full compliance with the LDEQ Air Quality Emissions Standards and LDEQ's protocol for the recycling of slabs resulting from the demolition of Hurricane Katrina damaged structures.

### ***FEMA Hazard Mitigation Grant Village Square Site Clearance, Phase I, St. Bernard Parish, LA***

BBEC managed the St. Bernard Parish Village Square Site Clearance, Phase I project that consisted of the removal and recycling of concrete slab foundations and other pavement, removal of hazardous trees, clearing sites, and fill and grade of sites to promote proper drainage. In preparation for concrete recycling, BBEC ensured that the contractors complied with all regulatory requirements for the disposal of concrete slab foundations and other pavement in a recycling facility. BBEC managed the project from scope development through reimbursement for the purpose of meeting all requirements of the FEMA Hazard Mitigation Grant Program. Those requirements included, but were not limited to: collecting and reporting the scope of disaster, scope of services to be covered, cost estimate based on cost reasonableness in accordance with the Code of Federal Regulations (44 CFR Part 13, Uniform Administrative Requirements for Grants and Cooperative Agreements to State and Local Governments). Subsequent coordination with the Governor's Office of Homeland Security secured the necessary funding allocated to this work. The contract value for this project was \$720,000.

### ***FEMA Hazard Mitigation Grant Village Square Site Clearance, Phase II, St. Bernard Parish, LA***

BBEC managed the St. Bernard Parish Village Square Site Clearance, Phase II project that consisted of the removal and recycling of concrete slab foundations and other pavement, removal of hazardous trees, clearing sites, and fill and grade of sites to promote proper drainage. In preparation for concrete recycling, BBEC ensured that the contractors complied

with all regulatory requirements for the disposal of concrete slab foundations and other pavement in a recycling facility. BBEC managed the project from scope development through reimbursement for the purpose of meeting all requirements of the FEMA Hazard Mitigation Grant Program. Those requirements included, but were not limited to: collecting and reporting the scope of disaster, scope of services to be covered, cost estimate based on cost reasonableness in accordance with the Code of Federal Regulations (44 CFR Part 13, Uniform Administrative Requirements for Grants and Cooperative Agreements to State and Local Governments). Subsequent coordination with the Governor's Office of Homeland Security secured the necessary funding allocated to this work. The contract value for this project was \$250,000.

## **Roads and Bridges**

### ***Vintage Street Bridge at Duncan Canal, City of Kenner, LA***

***2005-2006***

The project consisted of the construction of a new cast-in-place concrete bridge and the installation of a 36-inch diameter water line canal crossing. BBEC provided construction management and resident inspection. The construction cost was \$1,200,000.

### ***Hurricane Katrina Damage Roadway Restoration, St. Bernard Parish, LA (FEMA FUNDED PROJECT)***

Mr. Bonura served as senior project engineer over \$102 million of the repairs, assisting with general design and construction administration oversight, and assisting with continued negotiations with FEMA regarding eligibility of the work performed and to be performed. The construction contracts were established as work-order based unit price contracts. There were 18 projects consisting of 436 streets and 450,000 square yards of concrete roadway panel replacement, plus corresponding drives, sidewalks, and ADA ramps.

- St. Bernard Parish Roadway Restoration Project No. 07-836-07-837
- Construction Cost: \$3,393,777.42
- St. Bernard Parish Roadway Restoration Project No. 08-841
- Construction Cost: \$7,441,280.04
- St. Bernard Parish Roadway Restoration Project No. 3233A
- Construction Cost: \$5,456,725.00
- St. Bernard Parish Roadway Restoration Project No. 3233B
- Construction Cost: \$7,331,154.09
- St. Bernard Parish Roadway Restoration Project No. 18581A
- Construction Cost: \$3,671,959.53
- St. Bernard Parish Roadway Restoration Project No. 18581B
- Construction Cost: \$3,673,691.13
- St. Bernard Parish Roadway Restoration Project No. 18583A
- Construction Cost: \$1,499,608.55
- St. Bernard Parish Roadway Restoration Project No. 18583B
- Construction Cost: \$2,703,762.58



- St. Bernard Parish Roadway Restoration Project No. 18590A
- Construction Cost: \$3,413,262.49
- St. Bernard Parish Roadway Restoration Project No. 18590B
- Construction Cost: \$4,387,638.18
- St. Bernard Parish Roadway Restoration Project No. 18590C
- Construction Cost: \$4,085,902.02
- St. Bernard Parish Roadway Restoration Project No. 18590D
- Construction Cost: \$3,716,665.40
- St. Bernard Parish Roadway Restoration Project No. 2010-104
- Construction Cost: \$9,851,368.31
- St. Bernard Parish Roadway Restoration Project No. 2010-105
- Construction Cost: \$11,006,223.16
- St. Bernard Parish Roadway Restoration Project No. 2010-106
- Construction Cost: \$8,067,207.02
- St. Bernard Parish Roadway Restoration Project No. 2010-110
- Construction Cost: \$9,814,646.28
- St. Bernard Parish Roadway Restoration Project No. 2010-107
- Construction Cost: \$3,699,032.20
- St. Bernard Parish Roadway Restoration Project No. 2012-102
- Construction Cost: \$9,815,822.77

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***Annual Asphalt Overlay and Concrete Street Replacement Maintenance, St. Bernard Parish, LA*** ***2003-2005***

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Mr. Bonura served as project manager and project engineer to assist the Parish in prioritizing damaged streets for repair due to the potential lack of funding for all the potential work to be done. Mr. Bonura developed plans and specifications for two work-order based annual maintenance contracts. Mr. Bonura developed and managed the implementation of a work order system where the work orders were developed and estimated early in the contract so that priorities could be addressed and the contractor had sufficient time to perform the work in an organized fashion. Mr. Bonura provided oversight for the project and staff engineers and assisted in resolving disputes and other construction related issues with the contractor, Parish, and public.

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***Sunset Boulevard Road Improvement Project Phase II, Kenner, LA*** ***1993***

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Mr. Bonura served as design engineer and Construction Manager for the 3000 foot section of 4 lane roadway. The project included asphalt roadway design with a concrete roadway bid alternate, drainage systems, utility relocations, and one new precast concrete bridge, the rehab of an existing precast concrete bridge, lighting, and coordination with LDOTD, traffic control, and traffic signalization. The project allowed the existing roadway to be pulverized into crushed concrete, in place, and be used as a base for the new construction. In addition to the typical construction administration tasks, Mr. Bonura reviewed the project shop drawings himself to

ensure that the project was built correctly without discrepancies or conflicts. The construction value was about \$3,000,000.

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***Sunset Boulevard Road Improvement Project Phase III, Kenner, LA***

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**1995**

Mr. Bonura served as design engineer, Project Manager, and Construction Manager for the 3000-foot section of 4 lane roadway. The project included asphalt roadway design (overlay and new roadway) with concrete curb and gutter, drainage systems, utility relocations, and traffic control and signalization. In addition to the typical construction administration tasks, Mr. Bonura reviewed the project shop drawings himself to ensure that the project was built correctly without discrepancies or conflicts. The construction value was about \$1,000,000. The construction contractor was terminated for default; the completion negotiations (led by BBEC) resulted in the surety hiring a completion contractor and resuming work three weeks after the termination of the original contractor.

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***Sanitary Landfill, Jefferson Parish, LA***

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Mr. Bonura Designed four cast-in-place concrete bridges with wingwalls, which were required to have up to 24 feet clear spans, performed cost analysis to determine that the designs were the most cost-effective designs, as compared to precast and box culvert bridges.

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***West Esplanade Resurfacing Project, Jefferson Parish, LA***

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**2001**

Mr. Bonura oversaw the surveyor and geotechnical consultant, and designed an asphalt roadway mill and overlay profile for West Esplanade Avenue between Power Boulevard and Transcontinental Drive. The designs also includes adding concrete barrier curbs and curb and gutter along the entire project and maintaining proper drainage when connecting to adjacent streets, sidewalks, drives, and properties.

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***Veterans Boulevard Resurfacing, Jefferson Parish, LA***

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**2002**

Mr. Bonura served as project manager for the resurfacing of Veterans Blvd. from Severn Avenue to Lake Villa Drive. Mr. Bonura specified required drainage improvements, turning modifications, and overlay requirements. Mr. Bonura coordinated the work with the Parish's geotechnical engineer to take cores of the existing roadway to develop the scope of the mill and overlay project. BBEC issued direction to the Parish's annual contractor for the necessary improvements while the work was ongoing. Work was scheduled to minimize the impact on traffic along Veterans Blvd.

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***Westbank Mississippi River Levee Bike Path, Jefferson Parish, LA***

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Mr. Bonura prepared detailed plans and specifications for the construction of a 7 mile asphalt bike path located on top of the Mississippi River Levee. Mr. Bonura then served as construction manager of the project and provided oversight to the project inspectors. Mr. Bonura coordinated the work with the contractor, parish, levee district, and DOTD. The project bid amount was \$894,473. Mr. Bonura also developed grant applications (Stage 0 Studies) for 2 other phases of the Westbank Bike Path Program for Jefferson Parish.



### ***Sewerage Capital Improvements Program, Jefferson Parish, LA***

Mr. Bonura served as Project Manager, Project Engineer, and/or Construction Manager for over twenty sewerage collection system projects which included over 150 sanitary sewers, force mains, and rehabilitation or new lift stations. The majority of the work was located within street right of ways and required miles of roadway, sidewalk, and driveway restoration. Mr. Bonura adapted the Jefferson Parish standard roadway plans to the project including the restoration plans and specifications in the construction documents, managed the field inspectors and maintained compliance with the contract documents the roadway restoration as well as the other construction. Restoration included concrete and asphalt removal, saw-cutting of existing pavement, bedding replacement, placement of new concrete and asphalt, traffic maintenance, traffic plan review, and all incidental work to roadway restoration.

### **Grant Management/Compliance**

Mr. Bonura provided various stages of grant assistance for FEMA funded projects for over \$750 million in grants. Generally, Mr. Bonura has performed all aspects of grant management for FEMA grants from initiation to closeout, including:

- Request for federal assistance
- Damage/needs assessment
- Project development
- Support of eligibility for grant assistance
- Procurement pursuant to grant requirements for services and construction contracts
- Justification of cost effectiveness and reasonableness
- Grant modifications or versions
- Grant appeals when local or regional authority disagrees with our requests
- Project/contract conformance with grant requirements
- Data collection/storage
- State and federal agency audits
- Environmental consideration
- Coordination with state agency regarding reimbursement
- Coordination with state and federal authorities
- Grant closeout

### ***Private Residential Structure Elevation Project, Statewide, LA (HMGP PROJECT)***

The project includes performing plan review for grant compliance and some technical aspects of the elevation of residential structures throughout south Louisiana. The project also includes performing periodic inspections of the construction work to verify compliance with the project plans. BBEC performs technical reviews of the plans and supervises the field personnel. BBEC provides professional engineering, program management, construction monitoring, observation of construction methods, code enforcement compliance, and general monitoring services in association with construction contractors elevating and/or reconstructing residential structures for eligible construction activities through the Hazard Mitigation Grant Program (HMGP).

Mr. Bonura served as Construction Manager for other various roadway and drainage projects, underground fuel storage tank removal and new tank construction projects. Over the course of the years, Mr. Bonura became familiar with resolving construction related problems such as public relations, client satisfaction and change order negotiations. Mr. Bonura also has experience with litigation with residents due to contractor activities, litigation with the contractor to resolve claims and other disputes, and litigation with bonding companies to complete the work of a defaulted contractor.

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***Project Management 2014 Hazard Mitigation Assistance Grant Funding, Jefferson Parish, LA***

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Projects include:

- FMA-PJ-06-LA-2014-004 (\$3,698,327)
- FMA-PJ-06-LA-2014-007 (\$1,051,822)
- FMA-PJ-06-LA-2014-009 (\$3,121,878)
- FMA-PJ-06-LA-2014-010 (\$928,220)
- PDMC-PJ-06-LA-2014-001 (\$3,359,524)

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***FEMA Public Assistance Grant Close Out, St. Bernard Parish, LA, Hurricanes Katrina/Rita***

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Projects include:

- Emergency Protective Measures (\$24,000,000)
- Demolition and Debris Removal (\$320,000,000)
- Demolition and Debris Removal Monitoring (\$42,000,000)
- Wastewater Treatment Plant Repairs (\$1,000,000)
- Roads and Bridges (\$2,000,000)
- Sewer Lift Station Repairs (\$1,500,000)
- Install & Management of Temporary Pumps (\$3,000,000)
- Sewer Aerial Crossings (\$1,000,000)
- Sanitary Sewerage Pump & Haul (\$60,000,000)
- Water Distribution Network (\$3,000,000)
- Sanitary Leak Testing & Sewer Force Mains (\$1,500,000)
- Public Utilities (\$10,000,000)
- St. Bernard Street Repairs (\$16,000,000)
- Storm Drain Line Silt Removal (\$13,000,000)

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***FEMA Public Assistance Grant Close Out, St. Bernard Parish, LA, Hurricanes Gustav***

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Projects include:

- Demolition and Debris Removal (\$381,000)
- Demolition and Debris Removal Monitoring (\$108,849)

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***FEMA Public Assistance Grant Close Out, St. Bernard Parish, LA, Hurricanes Ike***

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Projects include:

- Demolition and Debris Removal (\$844,000)
- Demolition and Debris Removal Monitoring (\$206,000)

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***FEMA Public Assistance Grant Close Out, Town Of Jean Lafitte, LA, Hurricane Katrina***

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Projects include:

- Emergency Protective Measures (\$330,735.10)
- Jean Lafitte Recreational Park Pavilions (\$18,137.35)
- Jean Lafitte Auditorium (\$287,736.74)
- Jean Lafitte Recreational Park (\$68,355.99)
- Town of Jean Lafitte Buildings (\$8,499.16)
- Jean Lafitte Covered Grandstand and Electrical (\$991,114.77)
- Jean Lafitte Recreational Park Fences (\$33,853.45)
- Jean Lafitte Tourist Center (\$316.80)
- Town of Jean Lafitte (\$2,024.50)
- Tractor and Bush Hog Mower (\$8,574.00)
- Tot Playground Safety Surface (\$17,065.00)
- Jean Lafitte Recreational Park (\$163,644.75)

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***FEMA Public Assistance Grant Close Out, Town of Jean Lafitte, LA, Hurricane Isaac***

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Projects include:

- Quinten S. Couevas Ball Field (\$1,357.46)
- Medical Center Building (\$29,429.62)
- Emergency Protective Measures (\$107,427.73)
- Equipment (\$67,778.00)

# John J. Housey, Jr., P.E.

Project Engineer / Phone No. (504) 828-0030 / Fax No. (504) 828-8006 /  
Email: [jhousey@bbecllc.com](mailto:jhousey@bbecllc.com)

## PROJECT RESPONSIBILITIES

- Project Coordinator

## LICENSE

- Civil Engineer, Issued: 1966 Current Expiration: 09/30/2019  
Louisiana #10596

## EDUCATION

- Tulane University, New Orleans, LA  
Bachelor of Science in Civil Engineering, 1964
- Tulane University, New Orleans, LA  
Master of Science in Structural Engineering, 1965

## PROFESSIONAL AFFILIATIONS

- American Council of Engineering Companies of Louisiana
- American Public Works Association

## Experience Highlights

Mr. Housey has been working as an engineer in the public works industry for over 50 years. His experience includes bridges, buildings, roadways, and utility (water, sewer, and drainage) construction. He has substantial experience in project management, steel building detailing, bridges, barges and parts for offshore platforms. As a steel fabricator, Mr. Housey oversaw the fabrication of steel buildings, steel bridges (stationary and movable), barges, various parts of offshore platforms including girders, piling and legs, floor and wall framing, various parts of ships including bulkheads and framing members. Over the past 50 years, he has been responsible for the design of crane runways, spreader bars, lifting frames, and hydraulic jacking of heavy structures and barges.

Mr. Housey has been managing the construction of over \$100 million in asphaltic concrete (AC) and Portland cement concrete (PCC) roadways funded by federal grants. He has intimate knowledge in how various site conditions affect the construction and performance of the roadways, as well as how to maintain the necessary documentation to comply with the funding federal programs.

Mr. Housey is a past Board Member and President of the Southern Association of Steel Fabrication. He served as a member on AISC committee regarding quality control. As a member and past Chairman of the ASCE/SEI Structures Committee in New Orleans for several years, he is familiar with the design of bridges, buildings and residential structures. He is familiar with fabrication specifications of API, AWS, AREA, AISC and ABS. Mr. Housey is a registered engineer in Louisiana #10596.

## **Water**

### ***East Bank Water Treatment Plant Improvements, Jefferson Parish, LA December 2016-Present***

As Project Manager Mr. Housey supervises and coordinates drainage and process piping for both the Laboratory and the P4 Plant. He attends progress design meetings with other disciplines and field visits as required to locate existing utilities and prepares specifications and required design calculations. Design includes calculations for pressure piping flow, thrusts and supports; also drainage requirements and system design

## **Steel Fabrication**

### ***Access Ways & Ladders at Drainage Pump Stations; Project No. 2014-022-DR, Jefferson Parish, LA November 2014-Present***

Mr. Housey has prepared cost estimates and designed ladders, stairs, and elevated walkways to be installed in 16 drainage pump stations to connect elevated structures or allow personnel to access the top of structures within Jefferson Parish. Design included analysis and details to retrofit new items to existing structures.

### ***Repair of Venice Marina, Plaquemines Parish, LA***

Mr. Housey designed the Venice Marina project located in Plaquemines Parish in Venice, Louisiana. The project consists of repairs of the damages to the Venice Marina caused by Hurricane Isaac.

### ***Repair of Buras Marina, Plaquemines Parish, LA***

Mr. Housey designed the Buras Marina project located in Plaquemines Parish in Buras, Louisiana. The project consists of repairs of the damages to the Buras Marina caused by Hurricane Isaac.

### ***Sunshine Bridge, St. James Parish, LA***

Removal and replacement of concrete and steel bridge decking across the entire span of Sunshine Bridge including all field measurements required to replace steel gussets and floor beams.

## **Coastal Restoration/Protection**

### ***Lower 45 Evacuation Route Basin, Lafitte Tidal Protection, Lafitte Area Independent District, LA May 2018-Present***

As Project Manager, Mr. Housey is providing design alignment and earthen levee.

## **Roadway and Drainage**

### ***Hurricane Katrina Roadway Restoration, St. Bernard Parish, LA***

Mr. Housey provided Construction Administration services and Supervised Resident Inspectors for over 102 Million in roadway repair for 436 streets. Mr. Housey developed plans and construction cost estimates as well as managed the construction of facility repairs. He reviewed contractor submittals for conformity, resolved construction issues and led field progress meetings. Mr. Housey coordinated with the Contractor, Parish, and inspectors to troubleshoot issues in the field, resolved neighbor complaints, interpreted design specs to maintain the quality and standards of the work, and ensured that the work is satisfactorily completed. Mr. Housey reviewed all test reports for conformity to specifications, performed substantial and final completion walk-throughs for acceptance, reviewed as-builts for work completed, and reviewed contractor's monthly invoices and quantities.

### ***Widening / Stabilization of Congressman Hebert, Creely, and Bluebird Canals, St. Bernard Parish, LA***

The project includes increasing the capacity and improves the stability of Congressman Hebert, Creely, and Bluebird Canals, that consists of 11,600 linear feet of open canal and culverts ranging from 4-feet bottom width to 16-feet bottom width channels. Mr. Housey coordinated with St. Bernard Parish, Lake Borgne Basin Levee District, and the Louisiana Department of Transportation and Development to obtain information regarding the existing drainage plan. BBEC established the design cross sections for the channels, which included concrete u-channels, concrete box culverts, and round and arched pipe, and concrete lined trapezoidal sections, depending on the availability of land and other conditions. Mr. Housey is currently designing 2,500 linear feet of large diameter reinforced concrete pipe box culverts, and U-channels for the project.

### ***Read Blvd. East Group C, Capital Improvement Program, Project No. 2016-RR146 (PW No. 21032), City of New Orleans, LA***

As Project Manager, Mr. Housey is designing requirements to remove damage to existing streets and replacing with new concrete streets and proper drainage profiles.

### ***Engineering Services for the Four-Year Road Maintenance Program, St. Charles Parish, LA***

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As Project Manager, Mr. Housey is overseeing the construction of asphalt patches and mill/overlay on several streets in the Parish.

### ***Mid-City Street Improvements, New Orleans, LA***

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Mr. Housey reviewed and updated drawings based on client comments. He oversaw the revising of the CAD drawings to ensure conformance with project requirements. He maintained the tracking system of various bid items at each location with updates and totals as needed.

### ***Gentilly Woods Street Improvements, New Orleans, LA***

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Mr. Housey reviewed and updated drawings based on client comments. He oversaw the revising of the CAD drawings to ensure conformance with project requirements. He maintained the tracking system of various bid items at each location with updates and totals as needed.

### ***Cleary Improvements (Veterans Blvd. to West Esplanade Ave.) (Council District 5), Jefferson Parish, LA***

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Mr. Housey supervised and reviewed CAD drawings of waterlines as requested by the Parish.

## **Drainage**

### ***Project Worksheet 20824 – Storm Drains, Jean Lafitte Parkway Drainage Line Repairs/Replacement, St. Bernard Parish, LA***

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Mr. Housey prepared the damage assessment to adjacent existing roadway.

## **Project Manager**

### ***Orleans Materials & Equipment Company, Inc.***

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As Project manager, Mr. Housey was responsible for interpreting plans and specifications, interacting with owner, engineer and contractor, resolving discrepancies, ensuring quality of construction and maintaining construction schedule. Many projects included modifications to existing structures for increased load capacity, replacement of existing structural members, connections or other requirements. Requirements for pumping stations usually included all steel requirements including columns, crane runways, bar screens and floor grating.

### **Sample projects completed by Mr. Housey include:**

#### **Bulkheads**

H-Piling for T-Wall at the Industrial Canal (Cajun Contractors)

Sheet Piling for Gate at Bayou Bienvenue (Manson Construction Company)

Sheet Piling for Louisiana Citrus at Venice, LA

## Bridges

- **Sunshine Bridge**, St. James Parish, LA  
Removal and replacement of concrete and steel bridge decking across the entire span of Sunshine Bridge including all field measurements required to replace steel gussets and floor beams.
- **Bayou Milhome Swing Span Bridge**, St. Martin Parish, LA  
Complete new bridge structure including floor beams, grating, pivot girder, and related items.
- **Bayou Lafourche Lift Span Bridge**, Larose, LA  
Complete new bridge structure including floor beams, grating, lift girders, and related items.
- **Intracoastal Waterway Bascule Bridge**  
Complete steel framing including floor beams, grating trunnion support girders and related items.

## Pumping Stations

- **Hero Canal Pumping Station**  
All structural steel, walkway grating, bar screens, and related items.
- **Citrus Pumping Station**  
All structural steel, walkway grating, bar screens, and related items.
- **Michoud Pumping Station**  
All structural steel, walkway grating, bar screens, and related items.
- **Pumping Station No. 6**  
All structural steel, walkway grating, bar screens, and related items.

## *Ingram Contractors*

Mr. Housey prepared bids for fabrication and installation of offshore platforms, and supervised yard fabrication and offshore installation of platforms in the Gulf of Mexico. He spent 6 months in Egypt as field engineer/project manager installing platforms in the Gulf of Suez.

## Grant Management

### *Private Residential Structure Elevation Project, Statewide (HMGP Project)*

*October 2012-February 2014*

The project included performing plan review for grant compliance and some technical aspects of the elevation of residential structures throughout south Louisiana. The project also includes performing periodic inspections of the construction work to verify compliance with the project



plans. Mr. Housey was responsible for providing professional engineering, program management, construction monitoring, observation of construction methods, code enforcement compliance, and general monitoring technical assistance services in association with construction contractors elevating and/or reconstructing residential structures for eligible construction activities through the Hazard Mitigation Grant Program (HMGP).

# Kevin Forschler, E.I.

Junior Engineer / Phone No. (504) 828-0030 / Fax No. (504) 828-8006 /  
Email: [kforschler@bbecllc.com](mailto:kforschler@bbecllc.com)

## PROJECT RESPONSIBILITIES

- Residential Construction Monitoring

## EDUCATION

- Louisiana State University, Baton Rouge, LA  
Bachelor of Science in Civil Engineering, 2014

## Experience Highlights

Kevin Forschler is a graduate of Louisiana State University. His knowledge and experience in the civil engineering field is currently being expanded by the diverse types of projects he is working on. He is currently working on projects for Jefferson Parish, involving lift station design, wastewater treatment, roadway restoration, off-system bridges and walkway design.

## Drainage

### *Waggaman Hydraulic Study, Jefferson Parish, LA*

Mr. Forschler is currently performing a hydrologic study for three separate residential subdivisions in Waggaman, Louisiana: Waggaman, South Kenner, and Manor Lane. The Waggaman subdivision is bounded by River Road to the north, Live Oak Boulevard to the south, Saul's Canal to the west, and Dandelion Ditch to the east. South Kenner subdivision is bounded by River Road to the north, North Railroad Canal to the south, Saul's Canal to the east, and another subdivision to the west. The Manor Lane subdivision is bounded by River Road to the north, North Railroad Canal to the south, Latigue Road Ditch to the west, and Modern Farms Road Ditch to the east. Mr. Forschler is utilizing the Storm Water Management Model (SWMM) to evaluate the existing subsurface drainage capacities for each subdivision and to examine if the existing system can handle a 10-year design storm. He is currently developing a hydrologic and hydraulic model for each area and will recommend subsurface improvements based on the SWMM model to handle a 10-year design storm.



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***Ames Boulevard Roadway Improvements (DOTD No. H.011797), Jefferson Parish, LA  
November 2015-Present***

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Mr. Forschler assessed the damage along Ames Blvd. and created plans for the rehabilitation of this damage. The project contains the area of Ames Blvd. from the Westbank Expressway to Happy St. The repairs to be made include milling the existing asphalt overlaying the existing concrete roadway, replacing any damaged concrete panels, overlaying the concrete roadway, replacing any damaged sections of curb and gutter, and removing and replacing any damaged drive aprons and sidewalks. Mr. Forschler is responsible for visiting Ames to document where repairs need to be made along the roadway. Mr. Forschler is currently designing the project.

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***Widening / Stabilization of Congressman Hebert, Creely, and Bluebirds Canals, St.  
Bernard Parish, LA***

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Used Autodesk Storm and Sanitary Analysis software to create accurate drainage models of the project area for both pre-mitigation and post-mitigation conditions. The drainage models provide analyses of the area's interior canal system for a 10-year, 50-year and 100-year storm event. The results of the model were then compared to the water surface elevation data provided by St. Bernard Parish for each of the storms in order to determine the impact that the improvements have on flooding of the properties in the project area.

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***Bissonet Plaza Master Drainage Plan, Jefferson Parish, LA***

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Mr. Forschler meets with Jefferson Parish personnel to identify and discuss flood prone streets within the study area. He works with CAD technician to create a map highlighting these flood prone areas and utilizes Jefferson Parish GIS and Autodesk Storm and Sanitary Analysis software to create an accurate drainage model of the project area. The drainage model provides analysis of the area's interior drainage system for a 10-year storm event.

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**Roadway and Drainage**

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***Roadway Restoration Project No. 2012-102, St. Bernard Parish, LA***

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Mr. Forschler accompanied BBEC and St. Bernard Parish (SBP) representatives during the supplemental walkthroughs, taking pictures of any of the damages and issues that SBP said needed to be addressed. He also used the elevation surveys provided by Barriere to determine if drainage could be improved in any way on any streets that had issues with standing water after construction.

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***Comprehensive Pedestrian and Bicycle Master Plan, St. Charles Parish, LA***

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Mr. Forschler provided cost estimates for the construction of the proposed bike paths in the bike path study.

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***Mid City Street Improvements, City of New Orleans, LA***

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Mr. Forschler reviews plans in order to assure that our drawings meet the City of New Orleans Standards.

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***Westbank Mississippi River Bike Trail, Around Avondale Shipyard, (2017-059-RBP), Jefferson Parish, LA***

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Mr. Forschler developed plans for the construction of a bike path around the Avondale Shipyard area. The project contains the area of River Rd. from east of Avondale shipyard to LA 18 and the stretch of LA-18 up until the existing bike path access ramp west of the shipyard. The project includes the installation of a bike path on top of the levee, restriping existing shoulder to be repurposed as a bike path, widening the road to allow for bike travel, and addition of subsurface drainage in areas indicated by Jefferson Parish.

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***Cleary Improvements (Veterans Blvd. to West Esplanade Ave.) (Council District 5) Jefferson Parish, LA, Public Works No. 2017-014-RBP***

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Mr. Forschler helped develop plans for the rehabilitation of this road and verified that the proposed vertical profiles allowed for positive drainage along the road. The project contains the area of Cleary Ave. from Veterans Blvd. to W. Esplanade Ave. The repairs to be made include removing and replacing the existing concrete roadway, adding improvements to the subsurface drainage system, and relocating any utilities that were conflicts.

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**Stormwater Management**

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***Preparation and submittal of an application for renewal of the Solid Waste Permit for Jefferson Parish Landfill, Jefferson Parish, LA***

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Mr. Forschler assisted with preparing the Landfill Permit Renewal Application by gathering needed documentation to be included in the new application.

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**Wastewater**

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***Emergency Pump-Out Installation Initiative, Jefferson Parish, LA***

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***May 2015-Present***

Mr. Forschler is currently working on the EPO Installation Initiative Project. The project contains 192 lift stations that need EPO installations and 76 lift stations that have EPOs that are currently undersized or need relocation. Through this project, new EPOs will be installed at all 192 lift stations and EPO modifications will be made at the other 76 lift stations. Mr. Forschler is assisting with the review of lift stations and gathering site information prior to site surveys. Mr. Forschler performed all site surveys to document existing conditions and developed site sketches of the stations. Mr. Forschler is performing construction administration, reviewing all lift station photos and updated As-Builts and working with the contractor and client to make sure that the EPOs are installed correctly at each site. Mr. Forschler is visiting every site where installations of the new or modified EPOs have been completed to make sure that the installations meet the specifications provided to the contractor.



### ***East Law Damages, St. Bernard Parish, LA***

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BBEC was hired by SBP to assess the roadway and subsurface damages caused by a private operator, reviewed sewer and drain line videos for damages, prepared the evaluation report and cost estimate to repair damages.

## **Project Management**

### ***Day Time Street Light Assessment, New Orleans, LA***

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As an intern at Royal Engineers and Consultants, Mr. Forschler worked on the Day Time Street Light Assessment project for Orleans Parish. He also used a Trimble handheld GPS to collect the data in the field. Once all the data had been collected, he compiled it using Arc GIS software and then used the same software to do QA/QC work.

# Craig Comeaux, CFM

Certified Floodplain Manager/Grant Management-BCA / Phone No. (504) 828-0030 /  
Fax No. (504) 828-8006 / Email: ccomeaux@bbecllc.com

## PROJECT RESPONSIBILITIES

- Primary Point of Contact for Homeowners

## CERTIFICATION

- ASFPM Certified Floodplain Manager, 2015

## EDUCATION

- Northwestern University, Evanston, IL  
Master's in Public Policy and Administration (in progress), 2017-present
- University of Holy Cross, New Orleans, LA  
Graduate studies in Education, 2001-2004
- Nicholls State University, Thibodaux, LA  
Bachelor of Science in Mathematics, 1996

## TRAINING

- FEMA Emergency Management Institute, 2006-2011  
Independent Study Program

## PROFESSIONAL AFFILIATIONS

- Associate of State Floodplain Managers; Greater New Orleans Water Collaborative; Louisiana Floodplain Management Association

## SOFTWARE

- MS Office; PL/SQL Develop; OpenText eDOCS
- Document Management

## Experience Highlights

Craig Comeaux joined Barowka and Bonura Engineers and Consultants, L.L.C., in 2000. Since that time, Mr. Comeaux has successfully managed or been significantly involved in nearly 100 federal recovery projects in a program management capacity in St. Bernard Parish and throughout Southeast Louisiana. These projects involve FEMA Public Assistance Grants, FEMA Hazard Mitigation Grants, and U.S. Department of Housing and Urban Development Community Development Block Grants. Mr. Comeaux worked extensively in coordination with



FEMA, GOHSEP, and local Parish groups to manage over \$400 million in project funds, including oversight of project inspection.

In addition to program management, Mr. Comeaux has experience in grant management which includes project formulation, cost estimation, fund accounting, and closeout of a broad range of public assistance and hazard mitigation grants. Mr. Comeaux has experience as an educator and school administrator which includes conducting professional development and community outreach opportunities for employees, parents, students, and other constituent groups.

## **Grant Management**

### ***Program Management 2014 Hazard Mitigation Assistance Grant Funding, Jefferson Parish, Louisiana (HMGP PROJECT) 2015-Present***

Mr. Comeaux managed the 2014 Hazard Mitigation Assistance Grant for home elevation and reconstruction for Jefferson Parish. In his role as Project Manager, Mr. Comeaux planned and prepared for grant kickoff meetings hosted by Jefferson Parish. He worked with homeowners preparing grant required paperwork, contracts, and all other documentation required for grant application. Additionally, Mr. Comeaux worked closely with parish officials to prepare program guidance, forms, and processes to guarantee proper accounting and funding of home elevation and reconstruction project.

As Project Manager for elevation and reconstruction projects for Jefferson Parish, Mr. Comeaux coordinates activities between homeowners, contractors, construction management firm, and the parish. As part of the coordination process, Mr. Comeaux is responsible for reviewing contracts for grant compliance, preparing cost reasonable analysis for the work proposed, and applying for reimbursement for the funds allocated to each project. These projects will result in approximately \$8.5 million in federal grant funding to the parish in reimbursements.

### ***Grant Closeout for Federal Declared Disasters, 2014 Contract, FEMA Public Assistance Category A and B Projects, St. Bernard Parish, LA***

In his role as grant closeout specialist, Mr. Comeaux has provided closeout services for St. Bernard Parish on Category A and B projects since 2015. In his role, Mr. Comeaux has provided oversight of the closeout process and participated in cost reconciliations, cost analyses, documentation reviews, and preparation of closeout versions for submittal by GOHSEP to FEMA. He has been successful in identifying costs that were previously overlooked through the reimbursement process as well as justifying cost reasonableness for the numerous emergency and debris removal projects that were undertaken by St. Bernard Parish.

### ***Louisiana Land Trust Demolition Program, Statewide, Louisiana (CDBG PROJECT) January 2009-June 2013***

As Project Manager for demolition projects for the Louisiana Land Trust, Mr. Comeaux designed and managed the development of several databases utilized for the validation, tracking,

accounting, and auditing of U.S. Department of Housing and Urban Development Community Development Block Grants (CDBG). As part of the auditing process, Mr. Comeaux worked with the Louisiana Legislative Auditors for validating work completed against contractor invoices. This has resulted in the processing of approximately \$80 million of CDBG funds and the demolition and restoration of approximately 8600 sites.

Mr. Comeaux coordinated and managed contracts involved in the demolition of structures and the removal of slabs and all associated concrete from sites purchased by the Road Home Corporation following Hurricanes Katrina and Rita throughout south Louisiana. He conducted progress meetings with contractors and reviewed daily schedules and progress reports; managed the assignment of field personnel for all aspects of demolition and debris removal monitoring; coordinated progress meetings with Louisiana Land Trust and its agents in all matters pertaining to structure demolition and the removal of slabs and all associated concrete; and reviewed and monitored all reports and data received and transmitted to the Louisiana Land Trust for accounting and progress reporting. Mr. Comeaux assisted with the coordination of LDEQ for compliance for the abatement of structures and slabs.

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***St. Bernard Parish Demolition of Road Home Owned Properties, St. Bernard Parish, Louisiana (CDBG PROJECT) 2008-2009***

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As Project Manager for recovery projects throughout St. Bernard Parish, Louisiana following Hurricanes Katrina and Rita, Mr. Comeaux managed the grant for the demolition of homes owned by the Road Home Corporation throughout St. Bernard Parish. Approximately \$18 million of grant eligible work was completed and St. Bernard Parish received in federal grant funding to the parishes applying to reimburse money spent on recovery projects. Mr. Comeaux worked directly with the Louisiana Office of Community Development – Disaster Recovery Unit, to process environmental review records for each of the properties included in the program.

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***Federal Emergency Management Agency Public Assistance Grants, St. Bernard Parish, St. Charles Parish, and Livingston Parishes 2005-Present***

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As Project Manager for recovery projects throughout south Louisiana following Hurricanes Katrina and Rita, and again following Hurricanes Gustav and Ike, Mr. Comeaux prepared grant applications for recovery grants for the Parishes of St. Bernard, St. Charles, and Livingston. As part of the grant application process, the following information had to be collected and reported: scope of disaster, scope of services to be covered, cost estimate based on cost reasonableness in accordance with the Code of Federal Regulations (44 CFR Part 13, Uniform Administrative Requirements for Grants and Cooperative Agreements to State and Local Governments). Approximately seventy (70) grant applications were completed and on average three (3) versions to each grant application were produced due to the changing scope of services as requested by the individual parishes. These grant applications resulted in approximately \$700 million in federal grant funding to the parishes applying to reimburse money spent on recovery projects.



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***Hazard Mitigation Assistance, Elevation of Four (4) Residential Structures (HMGP # 1786-057-0007, Lafourche Parish, LA******September 2016-Present***

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Mr. Comeaux managed the grant for the elevation of four projects in Lafourche Parish. Mr. Comeaux worked with local officials to plan and prepare grant kickoff meetings, prepare grant required paperwork, and to process reimbursement requests and payment requests through GOHSEP.

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***FEMA Hazard Mitigation Assistance Consultant (Project No. 2130-02035), Project Management for 2013 FMA Grant Funding, City of New Orleans, LA******August 2017-Present***

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Mr. Comeaux managed the grant for the elevation of 36 projects in the City of New Orleans. Mr. Comeaux worked with the City of New Orleans to prepare and submit applications for funding to FEMA's Hazard Mitigation Assistance (HMA) Programs, including but not limited to the Hazard Mitigation Grant Program (HMGP), State Generator Program, and the Pre-Disaster Mitigation Grant (PDM) program. It is also the responsibility of Mr. Comeaux to implement the HMGP program for the City. Mr. Comeaux has also been involved in the preparation and review of Benefit Costs Analysis reports for Green Infrastructure projects for the City of New Orleans, including the Mirabeau Gardens Green Infrastructure and the City Park Green Infrastructures projects. In this role, Mr. Comeaux has managed the collection of data necessary to calculate the benefit cost ratio and assisted in the preparation of the Benefit Costs Analysis and report.

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***Technical Assistance for Floodplain Management, Community Rating System, and Hazard Mitigation Related Services, (Project No. 0352), Jefferson Parish, LA******2016 – Present***

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Mr. Comeaux managed the 2016 Technical Assistance services contract with the Jefferson Parish Department of Floodplain Management and Hazard Mitigation. The project, although focused primarily on the update to the multi-jurisdictional Hazard Mitigation Plan for Unincorporated Jefferson Parish and its six jurisdictions, included education and outreach services for Mitigation Reconstruction Homeowner Counseling, Newsletter and Brochure Content and Typesetting, Video Production, Legal Review of Floodplain Ordinances, and additional as needed services.

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**Demolition and Debris**

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***Disaster Debris Removal Management (Hurricane Gustav), West Feliciana Parish, LA***

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Mr. Comeaux coordinated all processes required for FEMA reimbursement following Hurricane Gustav. He met with local, state, and federal officials to discuss eligibility of work and documentation of that work to ensure maximum FEMA reimbursement, and coordinated field

effort with local, state, and federal agencies to ensure proper documentation of eligibility in order to ensure that eligible work was completed in a timely and cost-effective manner.

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***Disaster Removal and Management, (Hurricanes Katrina and Rita), Jefferson Parish, LA*** ***2005-2006***

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Mr. Comeaux coordinated the monitoring effort for debris removal in Jefferson Parish following Hurricanes Katrina and Rita from September 2005 until January 2006. He completed daily scheduling of crews assigned to debris removal, completed daily scheduling of monitors to supervise each debris removal crew, reported crew progress daily to the United States Army Corps of Engineers, and trained all monitors in the guidelines concerning debris removal procedures according to the Federal Emergency Management Agency.

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***Residential Slab Removal, St. Bernard Parish, LA*** ***2011-2013***

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Mr. Comeaux coordinated and managed contracts involved in the removal of slabs and all associated concrete from privately-owned sites throughout St. Bernard Parish where removal has been requested by the receipt of a right-of-entry agreement. He conducted progress meetings with contractors and reviews daily schedules and progress reports; managed the assignment of field personnel for all aspects of slab removal and debris removal monitoring; coordinated progress meetings with St. Bernard Parish and its agents in all matters pertaining to the removal of slabs and all associated concrete; and reviewed and monitored all reports and data received and transmitted to St. Bernard Parish Government for accounting and progress reporting. Mr. Comeaux assisted with the coordination of LDEQ for compliance for the abatement of structures and slabs.

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***Debris Removal Monitoring, (Hurricane Isaac), St. Charles Parish, LA*** ***2012***

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Mr. Comeaux managed the Disaster Debris Removal project from its inception to completion following Hurricane Isaac in 2012. In his role as Project Manager, Mr. Comeaux coordinated with Federal, State and local agencies and their representatives including FEMA, GOHSEP, Louisiana Department of Environmental Quality, and the Parish's own Grant Manager and Department of Public Works and Wastewater. In this role, he secured permitting for several Debris Management Sites (DMS), coordinated the procurement of contracts for landfill disposal, conducted pre-construction and daily progress meetings, prepared weekly status reports, and reported to various government agencies including the Parish Council. As Project Manager, Mr. Comeaux worked diligently to keep the Parish informed of Project Costs, local cost share equivalents, and contractor progress and performance.

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***Disaster Debris Removal Management, St. Charles Parish, LA*** ***2008***

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Mr. Comeaux coordinated the ground operations as well as all processes required for FEMA validation and reimbursement following Hurricanes Gustav and Ike. He coordinated the placement of debris monitors to monitor contractor operations in the area of debris removal. Mr. Comeaux coordinated the collection of all data required to guarantee proper FEMA

reimbursement for the work, held regular meetings with representatives of FEMA, GOHSEP, the Parish, and the contractor representatives to get the work completed in the shortest, most cost-effective manner, and met with local, state, and federal officials in order to get project worksheets written to guarantee proper accounting and funding of debris removal projects.

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***Disaster Debris Removal (Hurricane Gustav), Livingston Parish, LA*** ***2008-2009***

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Mr. Comeaux coordinated all efforts in determining eligibility of all work performed, held regular meetings with representatives of FEMA, GOHSEP, Parish Administration and Council Members to discuss eligibility of all work related to the debris removal contract, documented all aspects of contract procurement and award so as to ensure proper documentation was submitted to FEMA for processing and approval. He coordinated field effort with local, state, and federal agencies to ensure proper documentation of all eligible work to guarantee maximum FEMA reimbursement of all work completed by the debris removal contractor.

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***Program Management, Demolition and Debris Removal (Various Hurricanes) (2006 Contract), St. Bernard Parish, LA*** ***December 2006-June 2016***

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Mr. Comeaux coordinated the data collection, reporting, and validating processes involved in the demolition and debris removal in St. Bernard Parish following Hurricane Katrina. He coordinated the entry of all data from the load/haul tickets received into our database tracking and reporting system, validated all load/haul tickets and reported the data received to the applicant, FEMA, and all associated parties. He validated all invoices for work completed received from the contractors working the demolition and debris removal project in St. Bernard. Mr. Comeaux prepared reimbursement packets and documentation for the applicant for submission to the Louisiana Governor's Office of Homeland Security and Emergency Preparedness, reviewed and matched all reimbursement checks with invoices to properly track all monies paid to contractors, and coordinated with FEMA and State representatives for the preparation and processing of public assistance grants and reimbursements. Mr. Comeaux coordinated with the EPA and LDEQ for compliance with the EPA's plan for the abatement of residual oil deposits resulting from the spillage of oil in and throughout areas of St. Bernard Parish as a result of damage to one of the oil tanks at Murphy Oil Refinery during and following Hurricane Katrina. He ensured that the required abatement was completed and that the EPA certified that the removal was complete prior to the Parish issuing the property for demolition.

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***FEMA Hazard Mitigation Grant Village Square Site Clearance, Phases 1, 2 and 3, St. Bernard Parish, LA*** ***2011-2015***

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Mr. Comeaux coordinated and managed contracts involved in the removal of slabs and all associated concrete in the Village Square area of St. Bernard Parish in compliance with FEMA's Hazard Mitigation Grant Program to return properties in the affected area to green space. He prepared and reviewed contract specifications and advertisements, prepared change order adjustments, completed site reviews with the contractor, conducted progress meetings with contractors and reviewed daily schedules and progress reports. The value for this contract totaled \$1.2 million.

## Training/Instruction

### *Microsoft Office Implementation, Jefferson Parish, LA*

Mr. Comeaux trained Jefferson Parish employees in the use of all features of Microsoft Office since June 2001. Mr. Comeaux prepared training materials in the implementation of Microsoft Outlook as the sole email, meeting planning, and calendar software for Jefferson Parish. He trained 1500+ employees in the daily use of Microsoft Outlook, Word, and Excel as well as the use of Microsoft Windows Explorer for file management and assisted the MIS staff with using Microsoft Outlook features available to them.

### *Document Management, Jefferson Parish, LA*

Mr. Comeaux trained Jefferson Parish employees in the use of all features of Hummingbird Document Management software since July 2002. He prepared training materials in the implementation of Hummingbird Document Management and Workflow, a routing component for routing all resolutions to be included in the agenda for Jefferson Parish Council Meetings, trained 200+ employees in the daily use of Hummingbird Document Management, assisted the MIS staff with the import features of Hummingbird Document Management which allows the employee to electronically file each and every document he/she receives.

## Other

### *East Ascension/East Iberville Regional Catholic School Partnership, Inc. 2013-2015*

As Chief Operating Officer for the EA/EI Regional Catholic School Partnership, Mr. Comeaux was responsible for long range planning and budget management for the member schools of St. John Primary and St. Theresa Middle. Mr. Comeaux worked with community stakeholders to implement a 10% tuition increase while at the same time maintaining enrollment, stopping a five-year trend in enrollment decline. Mr. Comeaux was also responsible for maintaining two educational facilities located in Gonzales and Prairieville, Louisiana. He upgraded the technology infrastructure and fundraising efforts of the schools and began several marketing campaigns to increase participation by students, parents, and alumni. Mr. Comeaux helped to promote the school in many ways, including a new school website which includes a Twitter account, updates and renovations to the physical plant on the St. Theresa Middle campus including the perimeter fence and the Business Office, promotion of the annual School Fair, the implementation of a new phone system to connect St. John Primary and St. Theresa Middle, promotion of the intramural sports program, and an increase in local advertising for the partnership.

# Rayburn Clipper

CAD Technician / GIS Specialist / Phone No. (504) 828-0030 / Fax No. (504) 828-8006 /  
Email: rclipper@bbecllc.com

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## PROJECT RESPONSIBILITIES

- GIS

## EDUCATION

- Herzing College, 2006  
Bachelor of Science in Computer Information Systems
- Southeast College of Technology, 2000  
Associate of Science in Computer Aided Drafting

## TRAINING

- New Horizons
- Server 2008 Networking and Infrastructure

## CERTIFICATIONS

- Comptia A+
- Esri
- ArcGIS Server Application Development
- Map Objects
- UBA Environment
- Geography Network
- Advanced Cartographic Effects and Map Design

## Experience Highlights

Mr. Clipper has 16 years of experience in GIS project architecture, systems engineering and management, and 10 years designing, supporting, and maintaining enterprise and solutions architectures in a variety of public and private projects; he also has 18 years of experience using AutoCAD in association with his GIS projects.

## GIS Analyst

***Widening/Stabilization of Congressman Hebert, Creely, and Bluebird Canals, St. Bernard Parish, LA***

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Mr. Clipper created flood inundation models to assist with capital drainage projects. Models built for the project were used to forecast the water depths for 1 year, 5 year, 50 year, 100 year, and 500 year flood events.

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***Engineering Services for the Four-Year Road Maintenance Program (Project No. P 160302), St. Charles Parish, LA***

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Mr. Clipper provided mapping of street assessments and field surveys. He used collected field data to create areas for priority analysis and equitable capital fund distribution by district. The maps were used to show current costs analysis and future maintenance costs.

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***Bissonet Plaza Master Drainage Plan, (A/E Project No. 20-1708), Jefferson Parish, LA***

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Mr. Clipper created maps to illustrate the locations of drainage lines and inlets, and he created project maps to show affected drainage areas.

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***Comprehensive Pedestrian and Bicycle Master Plan, St. Charles Parish, LA***

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Mr. Clipper created a proposal for St. Charles parish council with an adoptable ordinance for the creation of a complete streets program. Using GIS data from CENSUS he modeled area where sidewalks for pedestrians and trails for cyclists were needed. He also mapped empirical crash data showing fatalities and injuries creating hot spots for targeted project development.

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***FEMA Hazard Mitigation Assistance Consultant (Project No. 2130-02035) Benefit Cost Analysis (BCA) for HMGP 1607-0120 Mirabeau Water Garden Green Infrastructure Project, City of New Orleans, LA***

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Mr. Clipper created flood inundation models to identify homes impacted during flood events. Models built for the project were used to forecast the water depths for 1 year, 5 year, 50 year, 100 year, and 500 year flood events.

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***FEMA Hazard Mitigation Assistance Consultant (Project No. 2130-02035) Benefit Cost Analysis (BCA) for HMGP 1603-0430 Lakeview Drainage Project, City of New Orleans, LA***

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Mr. Clipper created flood inundation models to identify homes impacted during flood events. Models built for the project were used to forecast the water depths for 1 year, 5 year, 50 year, 100 year, and 500 year flood events.

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***FEMA Hazard Mitigation Assistance Consultant (Project No. 2130-02035) Benefit Cost Analysis (BCA) for HMGP City Park Green Infrastructure Project, City of New Orleans, LA***

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Mr. Clipper created flood inundation models to identify homes impacted during flood events. Models built for the project were used to forecast the water depths for 1 year, 5 year, 50 year, 100 year, and 500 year flood events.

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***FEMA Hazard Mitigation Assistance Consultant (Project No. 2130-02035) Benefit Cost Analysis (BCA) for HMGP 1603-0429 St Roch Drainage Project, City of New Orleans, LA***

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Mr. Clipper created flood inundation models to identify homes impacted during flood events. Models built for the project were used to forecast the water depths for 1 year, 5 year, 50 year, 100 year, and 500 year flood events.

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***FEMA Hazard Mitigation Assistance Consultant (Project No. 2130-02035) Benefit Cost Analysis (BCA) for HMGP 1603-0426 Broadmoor Stormwater Drainage Project, City of New Orleans, LA***

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Mr. Clipper created flood inundation models to identify homes impacted during flood events. Models built for the project were used to forecast the water depths for 1 year, 5 year, 50 year, 100 year, and 500 year flood events.

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***Technical Assistance for Floodplain Management, Community Rating System and Hazard Mitigation Related Services (Project No. 0352), Jefferson Parish, LA***

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Mr. Clipper created and identified areas in the Parish that were not developed and could be certified for FEMA's undeveloped land use for rainwater drainage. He developed a new parish map to calculate the total are of parish land to be used by the parish for all FEMA certifications. Mr. Clipper reviewed previous Mitigation Plans, identified areas of the plan to be updated. He also mapped critical facilities and developed inundation models to forecast the water depths for 1 year, 5 year, 50 year, 100 year, and 500 year flood events.

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***GIS Project, St. Tammany Parish, LA***

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Mr. Clipper inaugurated the GIS Project; collected ground control points with sub-meter precision GPS receiver for aerial image orthorectification. He identified parish assets from aerial imagery, geoprocessed initial features for base map layer creation, created 3-D terrain models from analysis of Imagery and Digital Elevation Models. Mr. Clipper provided re-mapping of facilities on a land base into different co-ordinate systems. He developed digital land base maps inclusive of Planimetric, topographic and cadastral features maps from mosaiced aerial imagery.

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***GIS Project, St. Charles Parish, LA***

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Mr. Clipper designed GIS for St. Charles Parish Government, collected field information on parish assets to incorporate them in to the GIS Aerial imagery rectification and mosaicing, and provided Base map creation. Mr. Clipper created 3-D terrain models from elevation data collected from sub-meter GPS precision units, developed first, highly accurate, zoning map based on parish code and CAD drawings, created first land use map for zoning department, and created shapefiles for project base map.

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### ***I-85 Extension and Corridor Study, Montgomery, AL***

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ALDOT Project No.NCPD-PE02 (910)

I-85 Extension from I-59/I-20 near the Mississippi State Line NE of Cuba to I-65 near Montgomery. Mr. Clipper was a GIS consultant to Volkert and associates, in the use of CorridorTrak software. He developed a highly accurate parcel map with land owner information for use in land acquisition and created map of ecologically sensitive areas which includes mapping of WMA and other wetlands.

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### ***I-12 to Bush Corridor Study, Bush, LA***

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LADOTD Project No. 700-52-0124 (TIMED)

Mr. Clipper provided Environmental Site Assessment, extensive cultural resources survey and wetlands delineations, and hydrological modeling, along with numerous other analyses.

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### ***Merlin Oil Company, Smith, MS***

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Mr. Clipper created parcel base map for Mineral Lease Ownership map in Smith county Mississippi and collected ground control points for geoprocessing of parcel ownership information.

## **Developer/GIS Specialist**

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### ***Private Property Slab Removal Program, St. Bernard Parish, LA***

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Mr. Clipper provided GIS support for this project by creating property location maps showing identified property and surrounding area for identification purposes and for inclusion in property documentation using ESRI ArcGIS Server. He created property maps with new FEMA DFIRM information to provide the parish with information on which properties were in flood zones.



### ***Village Square Site Clearance, Phase I, Phase II and Phase III, St. Bernard Parish, LA***

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Mr. Clipper created several site maps of the sub division noting areas to be included or excluded from the project during the proposal phase. He calculated areas of work based on lot size and ROW using aerial imagery and the volume of concrete to be removed from the areas of work. Static and dynamic maps were created using ESRI ArcMap.

### ***Louisiana Land Trust, Statewide, LA***

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Mr. Clipper created ESRI ArcGIS Server web based mapping of LLT properties for tracking property status and provided analysis of properties in flood zones by given spec from LDEQ. Complete design of n-tier architecture. Demonstrated proximity and contiguous properties through a specially designed proxy parcel layer in the absence of a real parcel layer in ESRI ArcMap.

### ***GRS & Associates***

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Mr. Clipper designed ESRI ArcGIS Server web map for tracking sales and development of Village Square subdivision and created lists of addresses for use in Lawsuits relating to Murphy Oil Co. by geocoding owners based on spill zones.

### ***Digital Flood Insurance Rate Map, Jefferson Parish, LA***

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Mr. Clipper created features and layers for the creation of DFIRM maps in Geomedia 5.He geoprocessed digital elevation models used in the determination of flood zones and provided support for Jefferson parish officials accessing data.

### ***GIS Projects, St. Bernard Parish, LA***

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Mr. Clipper provides the parish with GIS support with daily need and custom request. He supports St. Bernard's 911 systems by providing telco's with addressing requests. Mr. Clipper designed the first Evacuation Registration application in the State of Louisiana based on state requirements which surpassed the states own software by providing a failure free registration environment during the Hurricane Gustav evacuation. During the summer when the river levels reached record highs throughout the state, Mr. Clipper created ESRI ArcGIS Server maps for the projects showing the area of construction exclusion based on the army corps of engineers' guild lines that state no construction or excavation work could take place within a certain distance from the levees.

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### ***GIS Projects, Jefferson Parish, LA***

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Mr. Clipper created mobile application with ESRI ArcGIS Mobile mapping screens for location based field work and code enforcement that synchronized map data to ArcSDE server via ArcGIS Server over HTTP.

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### ***MRGO Closure***

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Mr. Clipper designed figures and base maps for engineering support and created Triangulated irregular network (Tin) datasets for 3D surface model of the MRGO channel bottom for closure location review by project engineer in ArcMap and ArcGLOBE.

### **CAD Technician**

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### ***East Bank Water Treatment Plant Improvements, Jefferson Parish, LA***

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This project is a multi-discipline capital project to upgrade the water treatment facility in the Parish. Mr. Clipper is using all his advanced knowledge of GIS, CAD and 3D modeling to create piping networks for the project upgrades.

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### ***Cleary Improvements (Veterans Blvd. to West Esplanade Ave.) (Council District 5), Jefferson Parish, LA***

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Mr. Clipper updated drainage project drawings and created Plan and Profiles for proposed drainage for the project.

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### ***Mid-City Street Improvements (Project No. 2012-FEMA-4G-1), City of New Orleans, LA***

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Mr. Clipper created drawings for street repairs under massive capital project in Orleans parish to repair streets and he created maps to identify areas of damage during assessment phase.

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### ***Gentilly Woods Street Improvements (Project No. 2012-FEMA-2F1-1), City of New Orleans, LA***

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Mr. Clipper created drawings for street repairs under massive capital project in Orleans parish to repair streets and he created maps to identify areas of damage during assessment phase.

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### ***Hurricane Katrina Roadway Restoration, St. Bernard Parish, LA***

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Mr. Clipper created CAD based drawings from field inspections and imported them into ArcSDE and created quantities for estimates and invoicing. Mr. Clipper designed a web map for project status tracking.

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### ***Roadway Restoration, Orleans Parish, LA***

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Mr. Clipper implemented road design based on project engineer's design plan. He created drawings for waterline repairs, and provided corrections to existing drawings, and imported additional survey information, and provided by surveyors, into drawing set.

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***Harvey Wastewater Treatment Plant, Jefferson Parish, LA***

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Mr. Clipper produced CAD drawings of the wastewater facility with all piping from the original as-builts, and is currently performing the drafting related to modifications to the existing bar screen building.

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***Viola Road Widening, St. Tammany Parish, LA***

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Mr. Clipper implemented road design based on project engineer's design plan. He created drawings for drainage analysis, calculated elevations for new drainage systems using guidelines provided by engineering staff, performed corrections to existing drawings, and imported additional survey information, and provided by surveyors, into drawing set.

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***Main Aerial Crossings, St. Bernard Parish, LA***

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Mr. Clipper used AutoCAD with DOQQ images to draw plan and profiles for the aerial crossing project locations and provided custom maps to contractors for site preparation.

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***GIS Project, St. Charles Parish, LA***

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Mr. Clipper was responsible for drawing maps, diagrams, and profiles, using cross-sections and surveys, to represent elevations, topographical contours, subsurface formations and structures. Mr. Clipper would correlate, interpret, and modify data obtained from topographical surveys, well logs, and geophysical prospecting reports, and he prepared subdivision plats for integration into the GIS. Mr. Clipper used AutoCAD to digitize features on aerial images.

## **Software Developer**

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***Project Management 2014 Hazard Mitigation Grant Funding, Jefferson Parish, LA***

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As Senior DBA, Mr. Clipper created database server for the project database, managed imports and exports of data, and linked instances of Oracle database to allow cross instance queries.

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***Hurricane Evacuation Registration Software, St. Bernard Parish, LA***

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Mr. Clipper developed the software which was created to run on a laptop and scan an evacuee's driver's license to collect the name and address of the evacuee. The software had the ability to take a picture of the registrant and family and put them on the state buses and

create a report to give to the state about the people on the bus. It was developed before the state launched the Phoenix program. Mr. Clipper added an additional feature to search the registrants against the states sex offender database to isolate the sex offenders from the rest of the registrants. Project was developed for David Dysart.

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#### ***Code Enforcement Hand-unit Project, Jefferson Parish, LA***

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Mr. Clipper designed and developed custom software solution for data collection by code enforcement officers. Software module was created to run on a Pocket PC or other portable device using Windows Mobile or CE operating system. Software contained full database of complaints issued to inspectors. Application synchronized SQLCE database over WI-FI connection to SQL SERVER 2005 database using Merge Replication architecture. Mr. Clipper provided administration and support for SQL SERVER 2005 Merge Replication database.

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#### ***CERVIS Web-top, Jefferson Parish, LA***

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Mr. Clipper migrated visual basic 6 application to ASP.net web application. He provided support to senior developer through database web-based Development Reports, ASP.NET, Crystal Report and HTML Database client-base Development: Geomedia and ODBC connections against Oracle9i for Code Enforcement Department for Jefferson Parish.

### **Application Specialist**

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#### ***Louisiana Physical Therapy Board***

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Mr. Clipper provided technical support for Windows 2003 server network and nodes and maintained SQL Server 2000 Database for state therapist licensing.

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#### ***911 Center, St. Charles Parish, LA***

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Prepared, installed 2 node Windows 2003 server cluster for added fault tolerance in the 911 center.

# Penny Vedrenne

CADD Technician / Phone No. (504) 828-0030 / Fax No. (504) 828-8006  
Email: pvedrenne@bbecllc.com

## PROJECT RESPONSIBILITIES

- CADD Technician

## EDUCATION

- Louisiana Technical College, Metairie, LA  
Studied Drafting, 1984
- University of New Orleans, New Orleans, LA  
Studied Business/Marketing, 1983

## Experience Highlights

Penny Vedrenne has over 14 years of experience as a Drafting Technician, skilled in the use of AutoCAD LT2007, AutoCAD LT2010 and TurboCAD. Ms. Vedrenne also has over 12 years of experience in Accounting and Office Management. She has superior computer skills with additional proficiency in MS Word, Excel, Solomon IV/Great Plains Accounting Software, FoxPro, Publisher, Adobe Photoshop (for PC and Mac), Illustrator and Image Ready.

## Roadway and Drainage

### ***Hurricane Katrina Damage Roadway Restoration, St. Bernard Parish, LA*** ***2005-2017***

Ms. Vedrenne creates and updates drawings in AutoCAD LT2010.

### ***Westbank Mississippi River Bike Trail, Around Avondale Shipyard, (2017-059-RBP), Jefferson Parish, LA***

Ms. Vedrenne added the shaded design for Asphalt Pavement and proposed drainage at the foot of levee on both sides using AutoCAD Civil 3D 2019.

### ***Cleary Improvements (Veterans Blvd. to West Esplanade Ave.) (Council District 5) Jefferson Parish, LA***

Ms. Vedrenne added proposed street improvements with new drainage over existing plan and profile using AutoCAD Civil 3D 2019.

***Ames Boulevard Rehabilitation, West Bank Expressway to Happy Street, (Public Works Project No. 2013-033-RB) (DOTD No. H.011797), Jefferson Parish, LA*** ***2015-Present***

Ms. Vedrenne prepared drawings that identified proposed work in AutoCAD on top of Survey Drawings per Engineer's Mark-ups. She also added a Page Layout for Typical Sections.

***Engineering Services for the Four-Year Road Maintenance Program (Project No. P160302), St. Charles Parish, LA*** ***2016-Present***

Based on markups received from the engineer of record, Ms. Vedrenne prepared site drawings that added two options for a turning lane from Willowdale Blvd. to Highway 90 (one passing over a box culvert and another option turning after the box culvert) and added options on top of a survey drawing in AutoCAD.

***Williams Boulevard/Vintage Drive Roadway Drainage and Enhancements Improvements, West Side of Williams Boulevard (Public Works Project No. 2014-001E-CIP), City of Kenner, LA*** ***2015-2017***

Ms. Vedrenne updated drawing based on engineer's markups. Markups included adding Mill and Overlay areas and hatching, removing hatching for Existing Ground and including outlines, showing Expansion Joints on both end of the roadway, and adding an additional hatch section for Proposed Embankment Material.

***Jean Lafitte Drainage Improvements, St. Bernard Parish, LA***

Ms. Vedrenne added proposed work in AutoCAD Civil 3D to a Survey Drawing per Engineer's Mark Ups of drain line replacement. She also added information for typical sections and detail specifications for the project.

***Read Boulevard East, Project No. 2016-RR146, City of New Orleans, LA***

Ms. Vedrenne updated drawings in AutoCAD to include proposed work suggested by the resident inspector while maintaining previous Engineering proposed work areas for streets in the Sherwood Forest Neighborhood.

***Project Worksheet 20824 – Storm Drains, Jean Lafitte Parkway Drainage Line Repaire/Replacement, St. Bernard Parish, LA*** ***2014-Present***

Ms. Vedrenne prepared drawings for a 7'x5' Reinforced Box Culvert and a 13' x 7' Concrete U-Channel. She prepares additional drawings which included Typical Sections per engineer's instructions. Ms. Vedrenne also added drawings of the Steel Railway for Headwall prepared by the engineer. Additional sheets in the drawing included pipe detail.

## **Hazard Mitigation**

***FEMA Hazard Mitigation Assistance Consultant, (Project No. 2130-02035, Generator Application, City of New Orleans, LA*** ***December 2017-January 2018***

Ms. Vedrenne imported aerial views from Google Earth into AutoCAD and prepared site plans based on field assessment for the placement of automatic transfer switches (ATS) and generators. She also identified areas to be disturbed during the installation of the ATS and generator that assisted in the environmental review record for the project.

***Hazard Mitigation Assistance, Elevation of Four (4) Residential Structures (HMGP # 1786-057-0007), Lafourche Parish, LA***  
***August 2016-Present***

Ms. Vedrenne imported aerial views from Google Earth into AutoCAD and prepared site plans based on top of buildings for assessment to raise structures.

***FEMA Hazard Mitigation Assistance Consultant, 2018 Application Development, (Project No. 2130-02035), City of New Orleans, LA***

Ms. Vedrenne created floor plans with square footage and other information over a digital aerial view of properties in AutoCAD LT 2016 for application submittal.

***FEMA Hazard Mitigation Assistance Consultant, 2017 Application Development, (Project No. 2130-02035), City of New Orleans, LA***  
***January 2017-Present***

Ms. Vedrenne assisted with the development of site plans for properties based on field assessment and aerial views to develop grant applications for FMA 2017 Elevation grants submitted to FEMA. Having been selected for further review, these project sites will generate over \$15 million in project costs for the elevation of Repetitive Loss and Sever Repetitive Loss structures through the City.

***Flood Mitigation Assistance Grant, Elevation of eight (8) structures under SRL/L Elevation Project, Lafourche Parish, LA***

Ms. Vedrenne created floor plans with square footage and other information over a digital aerial view of properties for application submittal in AutoCAD LT 2016.

**Stormwater Management**

***Preparation and submittal of an application for renewal of the Solid Waste Permit for Jefferson Parish Landfill, Jefferson Parish, LA***

Ms. Vedrenne spotted locations of Borings for ground water testing from historical reports for the Northing/Easting Coordinates in AutoCAD LT 2016.

**Coastal Protection/Restoration**

***Lower LA 45 Evacuation Route Basin, Lafitte Tidal Protection, Lafitte Area Independent District, LA***

Ms. Vedrenne set up Page Views with Survey Data placed on top of Digital Aerial Image and noted right-of-way, levee crown, bottom and top of ditches, access servitude and limits of construction using AutoCAD Civil 3D 2017, to assist design the team.

**Wastewater**

***Repair of Myrtle Grove Sewer Pumping Stations No. 281 through No 289, Plaquemines Parish, LA***

Ms. Vedrenne provided updates to newly created drawing per Myrtle Grove Redline Drawings received from the client.

***Harvey Wastewater Treatment Plant Sluice Gates and Bar Screens, Jefferson Parish, LA***  
***November 2012-November 2018***

Ms. Vedrenne prepared changes to drawings in AutoCAD per engineer's markups.

## **Pump Station**

### ***Design of Access Ways and Ladders at Drainage Pump Stations, Jefferson Parish, LA 2014-Present***

Ms. Vedrenne created drawings in AutoCAD from Engineer's Sketches and personal site survey information/ measurements for the manufacture and installation of Stairs, Ladders and Catwalks for access to newly installed diesel tanks at Jefferson Parish Pump Stations.

## **Water**

### ***East Bank Water Treatment Plant Improvements, Jefferson Parish, LA December 2016-Present***

Ms. Vedrenne prepared additions and changes to drawings in AutoCAD Civil 3D for proposed Roadway Access Lab Building.

## **Sewerage Collection**

### ***Design, Capacity, and Installation, Jefferson Parish, LA***

Ms. Vedrenne created a graphical view of the location of Emergency Pump Out Stations within Jefferson Parish and the surrounding equipment in AutoCAD LT 2016. She also added updates to Mechanical, Electrical and Piping Details of Lift Stations.

## **Previous Employment**

### ***A.J. Labourdette, Inc., Harahan, Louisiana***

Ms. Vedrenne created and updated drawings in AutoCAD LT 2007 and assisted Project Managers with bidding and job support documentation.

### ***Computerized Processes Unlimited, LLC / M.S Benbow & Associates, Metairie, LA***

As AutoCAD Drafting Technician, Ms. Vedrenne generated and updated mechanical drawings, schematics and wiring interconnect diagrams in AutoCAD. She developed and implemented a system to catalog drawings, track revision levels and record the transfer of documents or drawings.

### ***Binary Systems, Inc., Kenner, LA***

As Drafting Technician, Ms. Vedrenne completed wiring, schematic, interconnect and mechanical diagrams on AutoCAD and on paper.

### ***Gulf Oil Corporation/Chevron U.S.A., New Orleans, LA***

Ms. Vedrenne has experience with geological and geophysical contouring, seismic profiles, well plats, splicing maps, visual graphics, exploration plats and well posting. She completed layout and design of color slides of maps, well plats, contours, cross sections, line charts, and pie charts (including plotting and calculating of data), produced artwork for Lease/Sale meetings & budget presentations, and trained on the Genigraphics computer.



## **WILLIAM L. TAYLOR, II, P.E., P.L.S.**

PRINCIPAL – PROFESSIONAL ENGINEER & PROFESSIONAL LAND SURVEYOR

[billy@mclintaylor.com](mailto:billy@mclintaylor.com)

Possessing effective project manager skills with extensive experience in roadway and overlay projects, recreational and educational projects, roadway widening, drainage projects, intersection design, site development, sewer and water projects and traffic studies. Proven skilled in securing state and local regulatory project approvals and an excellent background in facility design, preparing public and private bid packages, all phases of construction project administration, scheduling and budgeting.

OVER 15 YEARS PROFESSIONAL EXPERIENCE WITHIN MCLIN TAYLOR, INC.

*Project Manager – Site Development (12/2004 – Present)*

- Conduct drainage impact studies, traffic impact studies, public facilities/community centers designs, roadway designs, drainage designs, sewer and water designs and recreational projects
- Create detailed construction plans and specifications as well as supervise contract bids and construction schedules and administer contracts
- Interact with local planning, operating, finance and legal organizations to meet local requirements and create positive relationship with community and civic leaders.

*Engineering Aid (1/2001 – 11/2004)*

- Designed and drafted construction plans to assist engineers and review construction plans
- Designed sanitary sewer systems
- Traffic analysis and impact studies

*Survey Technician (1/2000 – 12/2001)*

- Drafted survey plats and performed survey calculations
- Became crew chief conducting boundary surveys, topographic surveys, flood certificates and construction stakeouts.

*Survey Crew Member (6/1999 – 12/1999)*

- Worked with other survey crew members to complete surveys and to gather data for engineers.

REGISTRATION: Licensed in Louisiana

EDUCATION: **BS**, Bachelor of Science in Civil Engineering 2004

PROFESSIONAL

ORGANIZATIONS: Member, Louisiana Society of Professional Surveyors



## **LESTER A. MCLIN, JR., P.L.S.**

PRINCIPAL – PROFESSIONAL LAND SURVEYOR

[lester@mcclintaylor.com](mailto:lester@mcclintaylor.com)

Manages the entire engineering and surveying departments as a business owner. Ensures compliance to all applicable regulations and requirements including new project contracts and legal issues. Ensures projects are completed on time and within budget. Acts as an advisor to land surveying and the civil engineering team regarding projects, tasks, and operations. Familiarize and trains interns with standard concepts, practices, and procedures within a particular field. Extensive experience and judgment to plan and accomplish goals. Performs a variety of complex tasks. Obtains a certain degree of creativity and latitude is required. Leads and directs the work of others.

OVER 35 YEARS PROFESSIONAL EXPERIENCE AS A PROFESSIONAL LAND SURVEYOR

*President, McLin Taylor, Inc. (1/2015 – Present)*

*President, McLin & Associates, Inc. (4/1996 – 1/2015)*

- Managed all aspects of the engineering and surveying company including, Client Relations, Project Management, and Surveying Management.

*President, McLin Land Surveying, Inc. (8/1986 – 4/1996)*

- Managed all aspects of the surveying company, including, Field Surveying, Research, Drafting, and Calculations, as well as, Administrative Duties.

*Project Manager & Chief Surveyor, Ferris & Associates Engineering, Inc. (3/1982 – 7/1986)*

- Responsibilities included design of Land Development Projects and supervised all surveying operations.

*Project Manager & Surveyor,*

*Alvin Fairburn Consulting Engineers and Land Surveyors (11/1981 – 2/1982)*

- Responsibilities included surveying office duties and supervising field crews.

*Civil Designer & Surveyor, Ferris & Associates Engineering, Inc. (11/1980 – 10/1981)*

- Responsibilities included engineering design and performing surveying duties.

*Civil Designer & Assistant Field Survey Administrator Surveyor,*

*Edward E. Evans and Associates, Inc. (12/1977 – 10/1980)*

- Responsibilities included engineering design for subdivision infrastructure, office Surveying duties and scheduling field crews.

REGISTRATION: Licensed in Louisiana and Mississippi

EDUCATION: Graduate of Doyle High School

Attended Louisiana State University

PROFESSIONAL

ORGANIZATIONS: Member, Louisiana Society of Professional Surveyors  
Past President, L.S.P.S. (Sixth District)



## SECTION 4 – ATTACHMENTS

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BBEC  
Balance Sheet  
December 31, 2018

ASSETS

Current Assets		
Capital One Checking Account	\$	65,617.40
Partner Insurance Receivable		6,990.84
Partner Ins. Receivable WRB		674.04
Partner Ins. Receivable TLB		1,061.46
HRA Deposit		<u>9,135.24</u>
Total Current Assets		83,478.98
Property and Equipment		
Furniture and Fixtures		22,743.98
Equipment		196,905.89
Automobiles		43,776.81
Automobiles - JAB		32,889.00
Automobiles - TLB		73,452.67
Automobiles - WRB		63,054.58
Other Depreciable Property		46,826.25
Building Improvements		52,327.22
Accum. Depreciation-Furniture		(36,228.00)
Accum. Depreciation-Equipment		(49,008.00)
Accum. Depreciation-Automobil		(179,626.10)
Accum. Depreciation-Other		(209,820.50)
Accum. Depreciation-Bldg Imp		<u>(2,291.00)</u>
Total Property and Equipment		55,002.80
Other Assets		<u>                    </u>
Total Other Assets		<u>0.00</u>
Total Assets	\$	<u><u>138,481.78</u></u>

BBEC  
Balance Sheet  
December 31, 2018

LIABILITIES AND CAPITAL

Current Liabilities		
American Express Payable	\$	5,932.89
Employee FSA Payable		394.10
Paychex Payable		<u>1,270.43</u>
Total Current Liabilities		7,597.42
Long-Term Liabilities		
Car Loan Payable - TLB		61,144.16
Car Loan Payable - WRB		<u>30,244.69</u>
Total Long-Term Liabilities		<u>91,388.85</u>
Total Liabilities		98,986.27
Capital		
Paid-in Capital - TLB		60,579.34
Paid-in Capital - WRB		60,579.33
Paid-in Capital - JAB		60,579.32
Retained Earnings		(107,020.42)
Draw - WRB		(12,682.67)
Draw - TLB		(12,682.66)
Draw - JAB		(12,682.67)
Net Income		<u>2,825.94</u>
Total Capital		<u>39,495.51</u>
Total Liabilities & Capital	\$	<u><u>138,481.78</u></u>

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BBEC  
Income Statement  
For the Twelve Months Ending December 31, 2018

	Current Month		Year to Date	
Revenues				
Reimbursed Expense Income	\$ 17.92	0.04	\$ 9,107.04	0.37
Consulting Income	31,202.82	61.44	2,443,575.25	98.80
Sales Tax Income	0.00	0.00	81.77	0.00
Interest Income	28.14	0.06	138.02	0.01
Other Income	19,532.85	38.46	19,532.85	0.79
Computer Sales-Tax Deductible	0.00	0.00	788.06	0.03
Total Revenues	50,781.73	100.00	2,473,222.99	100.00
Cost of Sales				
Cost of Sales	630.70	1.24	8,117.76	0.33
Reimbursed Travel Expense	0.00	0.00	349.75	0.01
Total Cost of Sales	630.70	1.24	8,467.51	0.34
Gross Profit	50,151.03	98.76	2,464,755.48	99.66
Expenses				
Advertising Expense	250.00	0.49	3,014.50	0.12
Auto Expenses - Others	0.00	0.00	826.77	0.03
Auto Expenses - WRB	292.59	0.58	9,575.17	0.39
Auto Expenses - TLB	278.12	0.55	2,305.27	0.09
Auto Expenses - JAB	441.46	0.87	5,647.15	0.23
Bank Charges	0.00	0.00	70.00	0.00
Charitable Contributions Exp	0.00	0.00	550.00	0.02
Continuing Education	0.00	0.00	2,667.98	0.11
Dues and Subscriptions Exp	1,462.52	2.88	27,678.23	1.12
Insurance Expense	10,183.16	20.05	145,223.57	5.87
Life Insurance - WRB	0.00	0.00	2,809.00	0.11
Life Insurance - TLB	0.00	0.00	2,109.00	0.09
Life Insurance - JAB	0.00	0.00	949.00	0.04
Interest Expense	330.63	0.65	3,518.83	0.14
Laundry and Cleaning Exp	570.61	1.12	7,624.17	0.31
Legal and Professional Expense	1,253.48	2.47	36,138.50	1.46
Library Expense	0.00	0.00	730.44	0.03
Licenses Expense	(234.12)	(0.46)	3,030.82	0.12
Maintenance Expense	524.47	1.03	1,781.94	0.07
Meals and Entertainment Exp	40.00	0.08	361.04	0.01
Meals/Entertainment-WRB	122.86	0.24	4,140.74	0.17
Meals/Entertainment-TLB	0.00	0.00	390.17	0.02
Meals/Entertainment-JAB	414.20	0.82	6,596.11	0.27
Office Expense	243.10	0.48	3,266.61	0.13
Sales Tax Expense	0.89	0.00	73.70	0.00
Property Tax Expense	8,740.44	17.21	8,740.44	0.35
Parking Expense	330.30	0.65	637.00	0.03
Payroll Tax Expense	3,905.02	7.69	90,581.08	3.66
Pension/Profit-Sharing Plan Ex	2,708.25	5.33	37,098.16	1.50
Political Contribution	1,000.00	1.97	26,050.00	1.05
Postage/Shipping Expense	104.23	0.21	1,970.05	0.08
Printing and Reproduction Exp	0.00	0.00	1,163.31	0.05
Professional Salaries- Nonbill	88,903.99	175.07	1,299,302.01	52.53
Rent or Lease Expense	10,065.00	19.82	69,530.00	2.81
Subcontractor Expense	56,538.70	111.34	607,962.02	24.58
Supplies/Small Equipment Expen	595.58	1.17	11,591.62	0.47
Telephone/Paging Expense	1,531.03	3.01	17,906.70	0.72
Travel Expense - Other	175.71	0.35	2,787.38	0.11
Travel - JAB	0.00	0.00	1,292.57	0.05
Utilities Expense	662.02	1.30	9,567.91	0.39

For Management Purposes Only

BBEC  
Income Statement  
For the Twelve Months Ending December 31, 2018

Total Expenses	<u>Current Month</u> <u>191,434.24</u>	376.97	<u>Year to Date</u> <u>2,457,258.96</u>	99.35
Net Income	\$ <u><u>(141,283.21)</u></u>	(278.22)	\$ <u><u>7,496.52</u></u>	0.30

136,  
Balance Sheet  
December 31, 2017

ASSETS

Current Assets		
Capital One Checking Account	\$	(595.18)
Partner Insurance Receivable		5,658.84
Partner Ins. Receivable WRB		674.04
Partner Ins. Receivable TLB		1,061.46
HRA Deposit		(1,177.51)
		<hr/>
Total Current Assets		5,621.65
Property and Equipment		
Furniture and Fixtures		22,743.98
Equipment		196,905.89
Automobiles		120,783.81
Automobiles - JAB		32,889.00
Automobiles - TLB		66,494.00
Other Depreciable Property		46,826.25
Building Improvements		52,327.22
Accum. Depreciation-Furniture		(36,228.00)
Accum. Depreciation-Equipment		(48,244.00)
Accum. Depreciation-Automobil		(112,577.52)
Accum. Depreciation-Other		(209,820.50)
Accum. Depreciation-Bldg Imp		(1,055.00)
		<hr/>
Total Property and Equipment		131,045.13
Other Assets		
		<hr/>
Total Other Assets		0.00
		<hr/>
Total Assets	\$	<u>136,666.78</u>

LIABILITIES AND CAPITAL

Current Liabilities		
Accounts Payable	\$	54,000.00
American Express Payable		19,560.49
Paychex Payable		77.99
Car Loan Payable - TLB		73,452.67
		<hr/>
Total Current Liabilities		147,091.15
Long-Term Liabilities		
Car Loan Payment Payable		710.90
Car Loan Payment Payable - JAB		3,768.83
		<hr/>
Total Long-Term Liabilities		4,479.73
		<hr/>
Total Liabilities		151,570.88
Capital		
Paid-in Capital - TLB		7,579.34
Paid-in Capital - WRB		7,579.33
Paid-in Capital - JAB		7,579.32
Retained Earnings		(322,243.40)
Net Income		284,601.31
		<hr/>
Total Capital		(14,904.10)
		<hr/>
Total Liabilities & Capital	\$	136,666.78

Unaudited - For Management Purposes Only



BBEC  
Balance Sheet  
December 31, 2017

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BBEC  
Income Statement  
For the Twelve Months Ending December 31, 2017

	Current Month This Year	Current Month Last Year	Year to Date This Year	Year to Date Last Year
<b>Revenues</b>				
Reimbursed Expense Income	\$ 351.98	\$ 582.12	\$ 12,529.96	\$ 22,234.43
Consulting Income	108,188.62	65,947.34	2,309,605.35	2,516,082.25
Sales Tax Income	0.00	0.00	21.35	44.82
Interest Income	0.00	0.00	112.54	78.73
Other Income	0.00	0.00	871,914.00	0.00
Computer Sales-Tax Deductible	0.00	0.00	219.00	23.91
<b>Total Revenues</b>	<b>108,540.60</b>	<b>66,529.46</b>	<b>3,194,402.20</b>	<b>2,538,464.14</b>
<b>Cost of Sales</b>				
Cost of Sales	0.00	219.00	103.11	906.18
Reimbursed Travel Expense	140.71	558.36	4,470.34	7,993.83
<b>Total Cost of Sales</b>	<b>140.71</b>	<b>777.36</b>	<b>4,573.45</b>	<b>8,900.01</b>
<b>Gross Profit</b>	<b>108,399.89</b>	<b>65,752.10</b>	<b>3,189,828.75</b>	<b>2,529,564.13</b>
<b>Expenses</b>				
Advertising Expense	0.00	500.00	4,534.22	7,120.00
Auto Expenses - Others	34.00	192.00	3,905.73	4,650.51
Auto Expenses - WRB	550.01	456.85	9,404.97	8,532.63
Auto Expenses - TLB	681.96	349.37	5,652.95	4,116.83
Auto Expenses - JAB	385.70	1,573.74	8,902.16	10,955.30
Auto Expense - DS	0.00	0.00	0.00	258.45
Bank Charges	0.00	0.00	0.00	5.00
Charitable Contributions Exp	0.00	0.00	1,200.00	1,499.50
Continuing Education	34.99	15.98	1,699.88	3,717.94
Depreciation Expense	0.00	12,010.00	38.49	12,010.00
Dues and Subscriptions Exp	16,060.30	5,680.00	42,964.90	23,082.56
Insurance Expense	12,535.49	(20,258.71)	201,451.91	157,175.28
Life Insurance - WRB	0.00	0.00	2,809.00	2,809.00
Life Insurance - TLB	0.00	0.00	2,109.00	2,109.00
Life Insurance - JAB	0.00	0.00	949.00	949.00
Interest Expense	24.67	95.56	9,556.39	10,596.18
Laundry and Cleaning Exp	407.96	346.08	6,769.97	5,774.62
Legal and Professional Expense	1,301.02	2,546.90	166,176.47	32,096.60
Library Expense	0.00	0.00	212.05	0.00
Licenses Expense	0.00	0.00	4,261.94	4,556.94
Maintenance Expense	0.00	0.00	1,750.50	126.00
Meals and Entertainment Exp	38.00	42.00	788.40	1,033.36
Meals/Entertainment-WRB	195.63	428.60	6,123.26	7,355.65
Meals/Entertainment-TLB	128.01	1,124.96	3,474.63	4,270.99
Meals/Entertainment-JAB	278.07	459.02	10,573.75	14,977.33
Office Expense	112.71	861.29	5,203.18	7,795.74
Sales Tax Expense	6,523.17	98.67	6,788.02	313.28
Property Tax Expense	8,740.44	0.00	17,397.02	(1,319.95)
Parking Expense	11.00	101.00	766.40	741.35
Payroll Tax Expense	5,892.18	6,912.99	106,007.80	117,844.23
Pension/Profit-Sharing Plan Ex	3,062.79	3,884.03	44,298.13	187,427.83
Political Contribution	1,000.00	1,700.00	26,550.00	30,600.00
Postage/Shipping Expense	193.75	688.82	2,206.27	3,045.60
Printing and Reproduction Exp	0.00	75.73	3,639.56	1,635.76
Professional Salaries- Nonbill	114,331.92	124,536.05	1,488,833.65	1,669,739.05
Rent or Lease Expense	65.00	13,065.00	97,030.00	156,630.00
Software Expense	47.22	1,245.22	566.64	2,622.14
Subcontractor Expense	52,655.99	104,868.92	563,745.88	388,499.74
Supplies/Small Equipment Expen	958.80	(1,319.34)	17,863.14	18,909.82
Telephone/Paging Expense	1,408.53	1,371.02	17,846.64	17,931.21

For Management Purposes Only

BBEC  
Income Statement  
For the Twelve Months Ending December 31, 2017

	Current Month This Year	Current Month Last Year	Year to Date This Year	Year to Date Last Year
Travel Expense - Other	12.09	342.79	917.76	2,265.10
Travel - JAB	0.00	0.00	0.00	1,079.82
Utilities Expense	867.92	856.24	10,257.78	10,001.20
	<hr/>	<hr/>	<hr/>	<hr/>
Total Expenses	228,539.32	264,850.78	2,905,227.44	2,935,540.59
	<hr/>	<hr/>	<hr/>	<hr/>
Net Income	\$ (120,139.43)	\$ (199,098.68)	\$ 284,601.31	\$ (405,976.46)
	<hr/>	<hr/>	<hr/>	<hr/>

BBEC  
Balance Sheet  
December 31, 2016

ASSETS

Current Assets		
Capital One Checking Account	\$	7,718.07
Partner Insurance Receivable		4,332.84
HRA Deposit		2,317.16
		<hr/>
Total Current Assets		14,368.07
Property and Equipment		
Furniture and Fixtures		22,743.98
Equipment		191,070.57
Automobiles		120,783.81
Automobiles - JAB		32,889.00
Other Depreciable Property		46,826.25
Building Improvements		52,327.22
Accum. Depreciation-Furniture		(36,228.00)
Accum. Depreciation-Equipment		(48,244.00)
Accum. Depreciation-Automobil		(100,567.52)
Accum. Depreciation-Other		(209,820.50)
Accum. Depreciation-Bldg Imp		(1,055.00)
		<hr/>
Total Property and Equipment		70,725.81
Other Assets		
		<hr/>
Total Other Assets		<hr/> 0.00
Total Assets	\$	<hr/> <hr/> 85,093.88

LIABILITIES AND CAPITAL

Current Liabilities		
Accounts Payable	\$	203,000.00
American Express Payable		17,526.11
Employee FSA Payable		4.00
Paychex Payable		78.00
Due to TLB		295,000.00
		<hr/>
Total Current Liabilities		515,608.11
Long-Term Liabilities		
Car Loan Payment Payable		710.90
Car Loan Payment Payable - JAB		18,291.11
		<hr/>
Total Long-Term Liabilities		<hr/> 19,002.01
Total Liabilities		534,610.12
Capital		
Paid-in Capital - TLB		7,579.34
Paid-in Capital - WRB		7,579.33
Paid-in Capital - JAB		7,579.32
Retained Earnings		422,165.16
Draw - WRB		(150,000.00)
Draw - TLB		(150,000.00)
Draw - JAB		(150,000.00)
Net Income		(444,419.39)
		<hr/>
Total Capital		<hr/> (449,516.24)

Unaudited - For Management Purposes Only

BBEC  
Balance Sheet  
December 31, 2016

Total Liabilities & Capital	\$ <u>85,093.88</u>
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BBEC  
Income Statement  
For the Twelve Months Ending December 31, 2016

	Current Month This Year	Current Month Last Year	Year to Date This Year	Year to Date Last Year
<b>Revenues</b>				
Reimbursed Expense Income	\$ 582.12	\$ 544.17	\$ 22,234.43	\$ 45,746.76
Consulting Income	65,947.34	789,837.18	2,516,082.25	3,934,798.88
Sales Tax Income	0.00	0.00	44.82	924.46
Interest Income	0.00	25.13	78.73	98.84
Computer Sales-Tax Deductible	0.00	60.48	23.91	2,944.67
Tax exempt Sales	0.00	0.00	0.00	5,750.57
<b>Total Revenues</b>	<b>66,529.46</b>	<b>790,466.96</b>	<b>2,538,464.14</b>	<b>3,990,264.18</b>
<b>Cost of Sales</b>				
Cost of Sales	219.00	0.00	906.18	8,660.31
Reimbursed Travel Expense	558.36	1,048.37	7,993.83	11,331.60
<b>Total Cost of Sales</b>	<b>777.36</b>	<b>1,048.37</b>	<b>8,900.01</b>	<b>19,991.91</b>
<b>Gross Profit</b>	<b>65,752.10</b>	<b>789,418.59</b>	<b>2,529,564.13</b>	<b>3,970,272.27</b>
<b>Expenses</b>				
Advertising Expense	500.00	500.00	7,120.00	4,570.04
Auto Expenses - Others	192.00	80.00	4,650.51	1,988.86
Auto Expenses - WRB	456.85	557.06	8,532.63	7,819.96
Auto Expenses - TLB	349.37	183.16	4,116.83	4,951.10
Auto Expenses - JAB	1,573.74	428.52	10,955.30	6,741.39
Auto Expense - DS	0.00	0.00	258.45	0.00
Bank Charges	0.00	0.00	5.00	0.00
Charitable Contributions Exp	0.00	340.00	1,499.50	1,040.00
Continuing Education	15.98	0.00	3,717.94	2,570.00
Depreciation Expense	0.00	43,678.00	0.00	43,678.00
Dues and Subscriptions Exp	5,680.00	210.00	23,082.56	12,323.10
Insurance Expense	25,908.89	(21,857.75)	203,342.88	174,687.49
Life Insurance - WRB	0.00	0.00	2,809.00	0.00
Life Insurance - TLB	0.00	0.00	2,109.00	0.00
Life Insurance - JAB	0.00	0.00	949.00	0.00
Interest Expense	95.56	194.82	10,596.18	13,588.35
Laundry and Cleaning Exp	346.08	548.86	5,774.62	5,101.68
Legal and Professional Expense	2,546.90	3,701.84	32,096.60	43,954.82
Library Expense	0.00	3.99	0.00	251.30
Licenses Expense	0.00	393.50	4,556.94	3,570.00
Maintenance Expense	0.00	0.00	126.00	18,327.65
Meals and Entertainment Exp	42.00	65.97	1,033.36	990.38
Meals/Entertainment-WRB	428.60	412.31	7,355.65	6,962.35
Meals/Entertainment-TLB	1,124.96	0.00	4,270.99	2,424.86
Meals/Entertainment-JAB	459.02	787.82	14,977.33	12,452.50
Office Expense	861.29	3,367.68	7,795.74	10,156.73
Sales Tax Expense	98.67	3,451.36	313.28	3,624.02
Property Tax Expense	0.00	7,976.28	(1,319.95)	6,673.01
Parking Expense	101.00	60.00	741.35	466.00
Payroll Tax Expense	6,912.99	8,077.20	117,844.23	128,928.81
Pension/Profit-Sharing Plan Ex	3,884.03	3,960.58	187,427.83	49,722.61
Political Contribution	1,700.00	7,000.00	30,600.00	59,550.00
Postage/Shipping Expense	688.82	353.96	3,045.60	3,219.75
Printing and Reproduction Exp	75.73	0.00	1,635.76	4,369.57
Professional Salaries- Nonbill	124,536.05	143,900.75	1,669,739.05	1,805,159.37
Rent or Lease Expense	13,065.00	50.00	156,630.00	157,213.25
Repairs Expense	0.00	0.00	0.00	290.63
Software Expense	1,245.22	1,111.77	2,622.14	42,581.73
Subcontractor Expense	104,868.92	43,996.11	388,499.74	335,020.48

For Management Purposes Only

BBEC  
Income Statement  
For the Twelve Months Ending December 31, 2016

	Current Month This Year	Current Month Last Year	Year to Date This Year	Year to Date Last Year
Supplies/Small Equipment Expen	2,965.99	495.75	23,195.15	28,642.87
Telephone/Paging Expense	1,371.02	1,498.56	17,931.21	24,318.47
Travel Expense - Other	342.79	189.58	2,265.10	689.67
Travel - JAB	0.00	0.00	1,079.82	125.00
Utilities Expense	856.24	822.85	10,001.20	10,476.18
	<hr/>	<hr/>	<hr/>	<hr/>
Total Expenses	303,293.71	256,540.53	2,973,983.52	3,039,221.98
	<hr/>	<hr/>	<hr/>	<hr/>
Net Income	\$ (237,541.61)	\$ 532,878.06	\$ (444,419.39)	\$ 931,050.29
	<hr/>	<hr/>	<hr/>	<hr/>



**DIVISION OF SMALL BUSINESS SERVICES**

This certification acknowledges that

**Barowka and Bonura Engineers and Consultants, LLC**

is Certified-Active as a Small Entrepreneurship with  
Louisiana Economic Development's Hudson Initiative.

This certification is valid from 5/16/2019 to 5/16/2020 .

Certification No. 12397

A handwritten signature in black ink, reading "John W. Matthews, Jr.", written over a horizontal line.

John W. Matthews, Jr.,  
Executive Director, Entrepreneurial Services



## Small Entrepreneurship Certification - Hudson Initiative

Date: 5/16/2019

Certification ID: 12397

Barowka and Bonura Engineers and Consultants, LLC  
209 Canal Street  
Metairie , LA , 70005

Congratulations! Your business has been certified by the Louisiana Department of Economic Development in the Hudson Initiative.

The purposes and intent of this program are to provide the maximum opportunity for Louisiana-based small businesses to become certified under the Hudson Initiative in order to facilitate access to state procurement and public contracts; and to encourage business opportunities for Louisiana small businesses and entrepreneurs.

Annual online re-certification is a requirement to remain certified in this program. As a reminder, the LEDSmallBiz website will automatically send a notification, via email, one month prior to your business's annual re-certification date. Failure to report or failure to report on a timely basis will result in termination for non-compliance of your business's Small Entrepreneurship (Hudson) certification and loss of the benefits of the program.

Now that your business is certified in the Hudson Initiative, your business should register with state purchasing through the LaGov Supplier Portal (LaGov) in order to utilize this program to its fullest potential.

Thank you for participating in the Hudson Initiative. Together we will build a better economy for our state and a stronger business climate for your own success and future.

**John W. Matthews, Jr.**  
Director, Small Business Services



TIMOTHY P. KERNER  
MAYOR

YVETTE CRAIN  
TOWN CLERK

MARCELL RODRIGUEZ  
CHIEF OF POLICE

## TOWN OF JEAN LAFITTE OFFICE OF THE MAYOR



2654 Jean Lafitte Blvd.  
Lafitte, Louisiana 70067  
Office: (504) 689-2208  
Police: (504) 689-3132  
Fax: (504) 689-7801



### COUNCIL MEMBERS

SHIRLEY GUILLIE  
MAYOR PROTEM

BARRY BARTHOLOMEW  
CHRISTY CREPPEL  
VERNA SMITH  
CALVIN LEBEAU

March 21, 2016

RE: Barowka and Bonura Engineers and Consultants, L.L.C.

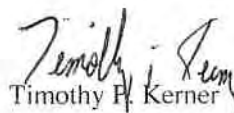
To Whom It May Concern:

As Mayor of the Town of Jean Lafitte, Louisiana, I am fortunate to have the firm of Barowka and Bonura Engineers and Consultants, L.L.C. (BBEC) working on behalf of my constituents. Since March 2014, BBEC has assisted the citizens of the Town of Jean Lafitte with navigating the sometimes exhausting process of elevating/reconstructing their homes as recipients of awards through FEMA's Flood Mitigation Assistance Program. Not only has BBEC been responsive to the needs of the citizens of the Town of Jean Lafitte, but they were also very knowledgeable in the areas of grant management and FEMA policies and procedures.

Jeffrey Bonura and his staff of professionals have set themselves apart in terms from other firms performing similar or like work. Without the assistance of BBEC, the citizens of the Town of Jean Lafitte would most definitely not have been as successful in completing their elevation/reconstruction projects. As Mayor of the Town of Jean Lafitte, I listen to the needs of the citizens of the Town of Jean Lafitte, as well as our neighbors in Crown Point and Barataria. My constituents receiving FEMA flood Mitigation Assistance under the program managed by BBEC have given BBEC nothing but praise; while other constituents receiving similar grants managed by others are not so pleased.

The overall experience my constituents have had with BBEC has been exceptional. From the office staff, project managers, to the grant specialists, my constituents have expressed the pure pleasure it has been to work with them. I am appreciative of their efforts and would recommend them to anyone that wants quality work performed in the shortest period of time feasible. I would welcome to have them work with the citizens of the Town of Jean Lafitte again!

Sincerely,

  
Timothy P. Kerner  
Mayor



# JEFFERSON PARISH

## Department of Floodplain Management and Hazard Mitigation

**Michael S. Yenni**  
Parish President

**Michelle M. Gonzales**  
Director

April 6, 2016

RE: Barowka and Bonura Engineers and Consultants, L.L.C.

To Whom It May Concern:

As Director of the Department of Floodplain Management and Hazard Mitigation for Jefferson Parish, Louisiana, I am fortunate to have the firm of Barowka and Bonura Engineers and Consultants, L.L.C. (BBEC) working with me on behalf of the citizens of Jefferson Parish. Since March 2014, BBEC has assisted the citizens of Jefferson Parish with navigating the process of elevating/reconstructing their structures as recipients of grant awards through FEMA's Flood Mitigation Assistance Program. Not only has BBEC been responsive to the needs of the citizens of Jefferson Parish, but were also knowledgeable in the areas of grant management and FEMA policies and procedures.

To-date, BBEC has performed their contracted responsibilities satisfactorily. They have submitted reports to the Department of Floodplain Management and Hazard Mitigation in a timely manner. The personnel they have provided have been knowledgeable and have exhibited technical expertise. They have met the timelines established for project progress and have responded to Parish requests in a timely manner. The overall experience of working with BBEC has generated a positive image of their firm and in turn has projected a positive image of the Department and Jefferson Parish to the public.

The overall experience working with office staff, project manager, and grant specialist, for myself and department staff working has been in a pleasant experience. I am appreciative of the efforts from BBEC and can attest to the quality of work performed and adherence or exceedance of expectations to set timeframes.

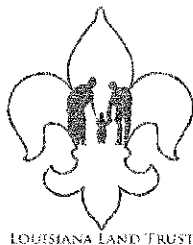
Please feel free to contact me at 504-736-6732 with any additional questions.

Sincerely,

A handwritten signature in black ink, appearing to read "Michelle Gonzales", is written over a horizontal line.

Michelle Gonzales  
Director

Joseph Yenni Bldg. 1221 Elmwood Park Boulevard Suite 801 Jefferson LA 70123  
P O Box 9 – Gretna, LA 70054 - Office 504.736-6540  
Email: JPFloodplain@jeffparish.net  
www.Jeffparish.net



Michael B. Taylor  
Executive Director

April 4, 2016

To Whom It May Concern:

Barowka and Bonura Engineers and Consultants, L.L.C. (BBEC), has worked in a Program Management capacity with the Louisiana Land Trust assisting the management of its \$58.8 million Residential Demolition and Slab Removal Program. BBEC's responsibilities have included project scoping, contract procurement and management, budget planning and tracking, federal grant compliance and accountability, and overall data management and reporting. BBEC's ability to provide the needed services on-time and under budget has been exemplary.

The Louisiana Land Trust is a non-profit organization formed to manage about 10,800 properties that have been purchased by the State of Louisiana under the current Road Home Program as part of the ongoing recovery effort from the damage caused by hurricanes Katrina and Rita in 2005. Funding for the Louisiana Land Trust is provided through Community Development Block Grant funds administered by the Office of Community Development.

BBEC has established an outstanding reputation with the Executive Staff of the Louisiana Land Trust. Their responsiveness to the mission of the Louisiana Land Trust, attention to detail, and their ability to work collaboratively with others has made them an integral part of our team. BBEC has excelled in the area of program management and has provided excellent project management for the projects of the Louisiana Land Trust.

Since becoming involved with the Louisiana Land Trust, BBEC has been responsible for supervising all levels of CDBG. BBEC has effectively managed dozens of construction contracts affecting thousands of residential properties ensuring compliance with all federal, state and local regulations and has earned the respect of numerous companies and individuals throughout the region. Their ability to include all stakeholders, their knowledge of processes and systems, their decision-making skills, and their ability to communicate program expectations to participants in the programs places them as one of the best firms I have encountered.

Should you have any questions or need further assistance, please feel free to contact me.

Sincerely,

  
Michael B. Taylor  
Executive Director

11601 SOUTHFORK DRIVE, BLDG. D \* BATON ROUGE, LA 70816 \* WWW.LALANDTRUST.US  
OFFICE: (225) 395-0777 \* TOLL FREE: (866) 615-7999 \* FAX: (225) 448-5085 \* TDD - TTY: (800) 846-5277  
AN EQUAL OPPORTUNITY EMPLOYER





# *St. Bernard Parish Government*

8201 West Judge Perez Drive    Chalmette, Louisiana, 70043  
(504) 278-4227    Fax (504) 278-4330  
[www.sbpj.net](http://www.sbpj.net)

**Guy McInnis**  
*Parish President*

March 30, 2016

To Whom It May Concern:

Barowka and Bonura Engineers and Consultants, L.L.C. (BBEC) has worked in a Program Manager capacity with St. Bernard Parish since 2003. In that role, BBEC's responsibilities have included project scoping, contract procurement and management, budget planning and tracking, federal grant compliance and accountability, and overall data management and reporting. Additionally, BBEC has worked with St. Bernard to provide disaster recovery grant assistance since 2005 and has been involved in work following Hurricanes Katrina, Rita, Gustav, Ike, and Isaac. BBEC's work has often produced projects that have come in under budget and were completed ahead of schedule.

BBEC has established an outstanding reputation with the Administration of St. Bernard Parish as it has worked with Parish departments, representatives from the Governor's Office of Homeland Security and Emergency Preparedness, the Federal Emergency Management Agency, the Louisiana Land Trust, and the Louisiana Office of Community Development on behalf of St. Bernard Parish and its citizens. Their responsiveness to the work, attention to detail, and their ability to work collaboratively with others has made them an integral part of our team. BBEC has excelled in the area of program management and has provided excellent program management for the projects of St. Bernard Parish.

Since becoming involved with St. Bernard Parish, BBEC has been responsible for supervising all levels of Community Development Block Grants (\$16.7 million), FEMA Public Assistance (\$483.1 million), and FEMA Hazard Mitigation (\$5.6 million) grants for the purpose of completing a comprehensive residential and commercial structure demolition and slab removal program, roadway repair and replacement program, and drainage infrastructure program. BBEC has effectively managed dozens of construction contracts affecting thousands of St. Bernard residents ensuring compliance with all federal, state and local regulations and has earned the respect of numerous stakeholders throughout the Parish.

Should you have any questions or need further assistance, please feel free to contact me.

Sincerely,

A handwritten signature in blue ink, appearing to read "Guy McInnis", is written over the word "Sincerely,".

Guy McInnis

Parish President



# CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

05/28/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an ADDITIONAL INSURED, the policy(ies) must be endorsed. If SUBROGATION IS WAIVED, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

<b>PRODUCER</b> APRON AGENCIES, LLC 1000 VETERANS BLVD SUITE 309 METAIRIE, LA 70005	<b>CONTACT NAME:</b> PAULA WALSH	<b>FAX (A/C, No):</b>	
	<b>PHONE (A/C, No, Ext):</b> 504-782-7114	<b>E-MAIL ADDRESS:</b> PAULAPI@AOL.COM	
<b>INSURED</b>  BAROWKA & BONURA ENGINEERS & CONSULTANTS 209 CANAL ST METAIRIR, LA 70005	<b>INSURER(S) AFFORDING COVERAGE</b>		<b>NAIC #</b>
	<b>INSURER A :</b> CNA		
	<b>INSURER B :</b> LLOYD'S OF LONDON		
	<b>INSURER C :</b> LWCC		
	<b>INSURER D :</b>		
	<b>INSURER E :</b>		
<b>INSURER F :</b>			

**COVERAGES****CERTIFICATE NUMBER:****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INBR LTR	TYPE OF INSURANCE	ADDL INBR	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS	
A	<b>GENERAL LIABILITY</b>			6024926947	08/19/2018	08/19/2019	EACH OCCURRENCE	\$ 1,000,000
	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY						DAMAGE TO RENTED PREMISES (Ea occurrence)	\$ 100,000
	<input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR						MED EXP (Any one person)	\$ 10,000
							PERSONAL & ADV INJURY	\$
							GENERAL AGGREGATE	\$ 2,000,000
							PRODUCTS - COMP/OP AGG	\$ 2,000,000
								\$
								\$
								\$
	<b>AUTOMOBILE LIABILITY</b>						COMBINED SINGLE LIMIT (Ea accident)	\$
	<input type="checkbox"/> ANY AUTO						BODILY INJURY (Per person)	\$
	<input type="checkbox"/> ALL OWNED AUTOS	<input type="checkbox"/> SCHEDULED AUTOS					BODILY INJURY (Per accident)	\$
	<input type="checkbox"/> HIRED AUTOS	<input type="checkbox"/> NON-OWNED AUTOS					PROPERTY DAMAGE (Per accident)	\$
								\$
								\$
	<b>UMBRELLA LIAB</b>						EACH OCCURRENCE	\$
	<b>EXCESS LIAB</b>						AGGREGATE	\$
	<input type="checkbox"/> DED	<input type="checkbox"/> RETENTION \$						\$
C	<b>WORKERS COMPENSATION AND EMPLOYERS' LIABILITY</b>			86182-A	05/20/2019	05/20/2020	WC STATUTORY LIMITS	OTH-ER
	ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH)	Y/N					E.L. EACH ACCIDENT	\$ 1,000,000
	If yes, describe under DESCRIPTION OF OPERATIONS below	<input checked="" type="checkbox"/> Y	N/A				E.L. DISEASE - EA EMPLOYEE	\$ 1,000,000
							E.L. DISEASE - POLICY LIMIT	\$ 1,000,000
B	<b>PROFESSIONAL LIABILITY</b>			W231BF190201	05/20/2019	05/20/2020	OCCURRENCE \$1,000,000	AGGREGATE \$2,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (Attach ACORD 101, Additional Remarks Schedule, if more space is required)

**CERTIFICATE HOLDER****CANCELLATION**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

PAULA B WALSH