



Independence Park Drainage Pump Station



Independence Park
Drainage Pump Station
SOQ 24-029
Resolution No. 144443

Statement of Qualifications

Infinity Engineering Consultants, LLC.

4001 Division Street
Metairie, LA 70002

P: 504.304.0548

F: 504.355.0265

Raoul V. Chauvin, III, P.E.
Principal-in-Charge
rchauvin@infinityec.com

August 29, 2024



INFINITE CAPABILITIES BOUNDLESS POTENTIAL



Contact Persons



Raoul V. Chauvin, III, P.E.
Principal Partner
rchauvin@infinityec.com



William J. Thomassie, P.E.
Principal Partner
wthomassie@infinityec.com



Nickie Monica
Director of Business Development
nmonica@infinityec.com

Mark Buttery
Purchasing Specialist II
Jefferson Parish Purchasing Department
General Government Building
200 Derbigny Street, Suite 440
Gretna, LA 70053

Re: Independence Park Drainage Pump Station
Resolution No. 144443 | SOQ 24-029

August 29th, 2024

Infinity Engineering Consultants, LLC is pleased to present our firm's professional engineering services qualifications to Jefferson Parish for the engineering design and construction administration of the Independence Park Pump Station project. Upon reading the published request for qualifications and project scope, we believe Infinity's team of professionals meets and exceeds the necessary qualifications to usher the proposed pump from initial designs through project commissioning.

Understanding of Scope

Infinity understands the scope of work entails providing professional engineering design and construction administration services for the design of a new 200 CFS Drainage Pump Station to relieve the Independence Park neighborhood from current and future flooding. Additional professional services that could be needed include, topographic surveying, geotechnical engineering, and hydraulic analysis.

Infinity Qualifications

Infinity Engineering Consultants, LLC. is a Metairie, LA based, multi-discipline engineering firm with all of the state licensing requirements to provide professional engineering design services within the State of Louisiana. As a multi-disciplinary firm, Infinity's engineers are able to produce designs in open collaboration from project inception through construction completion. Infinity is ready to provide the following services to Jefferson Parish specific to the Independence Park pump station:

- Project Management
- Mechanical Engineering
- Culvert Design
- Construction Administration
- Utility Assessment & Relocation
- Electrical Engineering Services
- Roadway Design
- Resident Inspection

Additionally, Infinity has teamed with the following professional services firms to create a robust pool of knowledge to cover every design aspect of the Independence Park Pump Station:

- **Horizon Engineering, LLC.** (Structural Engineering & Hydraulic Analysis)
- **Bryant Hammett & Associates** (Topographic Surveys)
- **The Beta Group** (Geotechnical Engineering)

Infinity sought to team with Horizon Engineering, as the lead engineers, Brett Liuzza, P.E. and Ben Bartlett, P.E., of the initial Independence Park Pump Station hydraulic study are now the Principals of Horizon Engineering. While previously employed by

another firm, Mr. Liuzza and Mr. Bartlett conducted the hydraulic study from 2019 – 2022, with a pause to the project due to the Covid-19 pandemic. The focus and goals of the study were coordinated by these engineers in conjunction with the Jefferson Parish Drainage Director Ben Lepine and Assistant Director Clinton Hotard. This previous experience performing the initial hydraulic study has made Mr. Liuzza and Mr. Bartlett the experts in the drainage needs for the Independence Park neighborhood.

For over 20 years, Infinity has been integrally involved with the assessment, engineering design, and construction of municipality utilities across the Gulf Coast. With projects ranging from drainage inlets replacement to drainage pump station refurbishments, Infinity has the experience and institutional knowledge to design each part of the Independence Pump Station. As a Metairie, LA based firm, Infinity holds a vested interest in our community improvements. With our office practically within walking distance of the project site, Infinity will be able to quickly respond to the needs of Jefferson Parish.

Infinity is proud of our reputation as being honest, reliable, and capable of providing engineering designs for utilities improvements. As such, we have provided within our qualifications packet samples of reference letters that attest to our reputation. Pertinent resumes and project examples for the Infinity team are contained within our submittal. Additionally, it is important to note, due to our work in the petrochemical industry, we carry professional and general liability insurance that often exceeds that required by public agencies.

Firm State Licensing

We steadfastly confirm the following:

- Infinity Engineering Consultants, LLC. is owned and led by qualified, professional engineers:
 - Principal partners Raoul Chauvin, P.E. and William Thomassie, P.E. hold over 32 years of engineering experience, as well as over 20 years of responsible charge in their respective specialties of mechanical and civil engineering
 - Both principal partners of Infinity are registered professionals in the State of Louisiana
- Infinity Engineering Consultants, LLC. is within good standing and does not have a history of substandard work
- The firm holds all licenses necessary to legally provide the related professional services in the State of Louisiana
- Infinity Engineering has not engaged in any unethical practices.

Documents Enclosed

- Cover Letter
- Infinity Engineering TEC Form
- Infinity Team Organizational Chart
- Horizon Engineering TEC Form
- Bryant Hammet & Associates TEC Form
- The Beta Group TEC Form
- Reference Letters

Closing

Infinity takes great pride in the engineering consulting services we have provided to stormwater solutions across the Gulf Coast. We are confident that we have assembled a team of engineers and design professionals that can effectively and efficiently execute the Independence Park Pump Station project. We respectfully request the Evaluation Committee to select Infinity Engineering Consultants for this important neighborhood stormwater management project, so we can continue to work together to improve our Jefferson Parish communities.

If you have any questions or require additional information, please call me at (504) 304-0548.

Sincerely,



Raoul V. Chauvin, III, P.E.
Principal Partner
(504) 304-0548 | rchauvin@infinityec.com

Independence Park Drainage Pump Station



Section I Infinity Engineering Consultants, LLC. TEC From

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Independence Park Drainage Pump Station
Resolution No. 144443

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

Infinity Engineering Consultants, LLC
4001 Division St.
Metairie, LA 70002

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

Raoul V. Chauvin, III, P.E.
Principal
504-304-0548
rchauvin@infinityec.com

D. Name and contact information of employee who is a registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline.

William J. Thomassie, P.E.
Principal
504-304-0548
wthomassie@infinityec.com

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

<u>4</u> Administrative	<u> </u> Estimators	<u> </u> Specification Writers
<u> </u> Architects (Licensed)	<u> </u> Geologists	<u>2</u> Structural Engineers
<u> </u> Chemical Engineers	<u> </u> Geotechnical Engineers	<u>5</u> Graduate Engineers
<u>4</u> Civil Engineers	<u> </u> Interior Designers	<u> </u> Project Managers
<u>3</u> Construction Inspectors	<u> </u> Landscape Architects	<u>1</u> Clerical
<u> </u> Ecologists	<u> </u> Land Surveyor	<u> </u> Grant/Funding Specialist
<u>2</u> Electrical Engineers	<u>3</u> Mechanical Engineers	<u> </u> Sanitary Engineers
<u>3</u> Engineer Intern	<u> </u> Environmental Engineers	<u>9</u> Drafting/Design
<u> </u> Professional Land Surveyors		<u>36</u> TOTAL

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

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

TEC Professional Services Questionnaire

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

1.

2.

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

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

Name & Address:	Specialty:	Worked with Firm Before (Yes or No):
1. Horizon Engineering, LLC. 1013 N. Causeway Blvd. Suite 201 Metairie, LA 70001	Structural Engineering Hydraulic and Hydrologic Study	No
2. Bryant Hammet & Associates, LLC. 1104 Dealers Ave. Suite A Harahan, LA 70123	Topographic Survey	Yes
3. The Beta Group Engineering and Construction Services, LLC. 1428 ½ Claire Ave. Gretna, LA 70053	Geotechnical Engineering	Yes
4.		
5.		
6.		
7.		

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

35 members have the Infinity have been identified has individuals who could assist in the design of the Independence Park Drainage Pump Station.

TEC Professional Services Questionnaire

K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e. resume) that demonstrates the employment history and experience of the Firm's key persons that may assist in the completion of this Project. Please attach additional pages if necessary.

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

William J. Thomassie, P.E.
Principal

Project Assignment:

Principal-in-Charge;
Civil/Structural Engineering Advisor

Name of Firm with which Associated:



Infinity Engineering Consultants, LLC.

Years' experience with this Firm:

20

Education: Degree(s)/Year/Specialization:

Bachelor of Science / 1992 / Civil/Structural Engineering

Active registration: Year first registered/discipline:

Professional Engineer – Civil Engineering			
AL/2009/Civil	AR/2016/Civil	IA/2018/Civil	IL/2018/Civil
IN/2018/Civil	KY/2018/Civil	LA/1997/Civil	MI/2018/Civil
MN/2018/Civil	MS/2006/Civil	OH/2006/Civil	PA/2007/Civil
	TN/2018/Civil	TX/2002/Civil	WV/2004/Civil

Other experience and qualifications relevant to the proposed Project:

As Principal Partner of Infinity Engineering Consultants, William J. Thomassie, P.E. is one of the firm's registered supervising professionals and is responsible for the management of all engineering production. For marine based projects, Mr. Thomassie's civil/structural education, training, and experience are relied upon to directly provide design supervision, cost estimation, and public outreach coordination. With many of Infinity's projects requiring up to \$45,000,000 for installation or modifications, Mr. Thomassie's guidance in shaping of designs, along with construction support, has enabled project completion on schedule and with minimal adverse impact on commerce in the area.

Additionally, Mr. Thomassie's expertise in marine-based engineering design has been called upon to serve as an expert consultant and witness in cases involving marine facility damage. Mr. Thomassie has been recognized by courts as being an "Expert" in marine structural matters in several legal jurisdictions, providing testimony to the U.S. Court of Appeals, Fifth Circuit; Lafourche Parish Court; and St. Tammany Parish Court. Mr. Thomassie's drainage related engineering experience includes:

Ollie Basin Drainage Study and Pump Station Expansion – Jesuit Bend, LA

Principal for the Ollie Drainage District capacity evaluation project. The project included the evaluation of runoff characteristics for a 3,000-acre basin and the evaluation of the adequacy of an existing pumping station with 5 pumps. Project manager for the design of the **600 cfs drainage stormwater pump station addition** (\$16,200,000 total construction cost). Responsible for overall project coordination and design. Supervised all civil and structural designs including deep foundations, concrete structures, steel building structures, dredging, vehicular bridges, roads, and canals.

Raw Water Pump Intake Structure Design – Lake Charles, LA

Principal and lead engineer for structural engineering design for a new fire water system on behalf of Conoco Phillips for their Clifton Ridge Terminal along the Calcasieu River. The **foundation structure designs (slabs, walls, bracing, etc.)** included steel-reinforced piles and decking. Designs also included a sluice gate for water intake and steel grated walkway for pedestrian use.

TEC Professional Services Questionnaire

Wedmore Drainage Improvements – Marrero, LA

Project manager for the engineering design for drainage improvement to prevent localized flooding in Jefferson Parish. Designs included **upgrading subsurface drainage on four (4) out-falls of the drainage system** in Wedmore Subdivision. The upgrade included miscellaneous improvements to lateral drainage connections and the replacement of disturbed portions of street, curbing, driveways, and sidewalks.

Concession Street Reconstruction Plaquemines Parish Government – Belle Chasse, LA

Project manager for the reconstruction of Concession Street. Provided design of drainage improvements for existing drainage system, involved **replacement of pipes, and catch basins**. Infinity provided civil design and construction administration. Project required conflict resolution to design around an existing major natural gas transmission line.

Bannerwood Drainage Improvements –Timberlane, LA

Project manager for the engineering design for drainage improvement the $\frac{3}{4}$ square mile neighborhood in Jefferson Parish. Designs consisted of **upgrading subsurface drainage on four (4) outfalls** from the Bannerwood Subdivision to the Oakwood Canal, and improvements to subsurface drainage along Willowbrook Drive, all in accordance with the Jefferson Parish Subsurface Drainage Improvement Program prepared by Parish Engineers. The upgrading included miscellaneous improvements to **lateral drainage connections and replacement of disturbed street**, driveways, sidewalks, and utilities.

Seatrain Road Improvements – Belle Chasse, LA

Project manager for the Improvements to Seatrains Road. Project included the design and contract documents for **roadway, drainage, and utility improvements** for approximately 700 lf of Seatrains Road. The project involved mill, overlay and widening.

Dalcour Water Treatment Plant Refurbishment – Dalcour, LA

Principal for the repair design with hazard mitigation of all structural, civil, mechanical, and electrical engineering components for multiple damaged facilities. Damage to the plant required the need for complete replacement of monopile supported water intake structure, electrical components, and mechanical equipment.

VA Medical Center Infrastructure Improvements – New Orleans, LA

Project manager for the **design of 3,000 lf of streets and utilities** to support new medical center. Designs included all roadway paving, including concrete and asphalt, curb and gutter, **drainage improvements**, and ADA ramps.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Rachel Kenney, P.E.
Chief Engineer

Project Assignment:

Chief Engineer / Site Preparation Design

Name of Firm with which Associated:



Infinity Engineering Consultants, LLC.

Years' experience with this Firm:

14

Education: Degree(s)/Year/Specialization:

Bachelor of Science / 2001 / Civil Engineering

Active registration: Year first registered/discipline:

Professional Engineer – Civil Engineering
LA / 2013 / Civil

Other experience and qualifications relevant to the proposed Project:

As a Civil/Structural Engineer, Ms. Kenney is responsible for structural and civil design, site inspection, cost estimating, permitting, project management, specification development, and bid package development. Specific major project relevant to Jefferson Parish's need for drainage conveyance and roadway rehabilitation includes:

Ollie Basin Drainage Study – Jesuit Bend, LA

Project Engineer for the Ollie Drainage Basin Study. **Collected storm data and topographic information to determine inadequacies in the drainage collection system** and made recommendations for improvements. The study led to the expansion of the Ollie Drainage Pump Station.

Lake Park Drainage Improvements – Belle Chasse, LA

Performed a drainage study of the Lake Park Annex subdivision to determine the cause of local flooding. The study included a **topographic survey** of streets, home slabs, manholes, and inverts, and a video inspection of the drainage system. Sources of the drainage problem were identified and recommendations for corrective measures were provided.

Meco and Southern Scrap Sewer Pumping Stations – New Orleans, LA

Responsible for the structural design of the **replacement of two sewer pumping stations**. The buildings are pile supported with concrete basement slab below grade. Concrete walls extend to grade and support CMU walls and a steel stud framed, standing seam metal roof. Foundation design included review of geotechnical reports.

Concession Street Reconstruction Plaquemines Parish Government – Belle Chasse, LA

Project Engineer for the design of drainage improvements for existing drainage system, involved **replacement of open ditches with pipes and catch basins**. Civil design and construction administration were also provided. The project required conflict resolution to design around an existing major natural gas transmission line.

Davant Raw Water Siphon Repair Design – Davant, LA

Prepared repair designs for freshwater supply facility in Plaquemines Parish. Created plans and specifications for **new siphon and transfer pumps, piping**, valves, instruments, electrical panels, and feeders, which were designed as a result of flooding and wind damage. Modifications and repairs included Mississippi River piping crossing, (8) mile water supply piping, and canal crossings. To mitigate future damage, **submersible pumps** were specified.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Louis Jackson, P.E.
Operations and Quality Control Manager

Project Assignment:

Quality Control Manager

Name of Firm with which Associated:



Infinity Engineering Consultants, LLC.

Years' experience with this Firm:

4

Education: Degree(s)/Year/Specialization:

Bachelor of Science / 1995 / Civil/Structural Engineering

Active registration: Year first registered/discipline:

Professional Engineer – Civil Engineering
LA/2001/Civil

Other experience and qualifications relevant to the proposed Project:

As the Operations & QA/QC Manager, Louis Jackson, P.E. ensures all designs and deliverables achieve Infinity's high expectations of effective and efficient engineering. Mr. Jackson holds more than 25 years of engineering design, project management, and quality control experience. Among that experience, Mr. Jackson held the position of Director of Engineering for the Port of New Orleans.

City-Wide Drainage Master Plan – New Orleans, LA

Served as the **project manager for the \$2M City of New Orleans Drainage Master Plan Project**. Project Management responsibilities included development of a detailed budget for completion of the project along with development of a detailed project work plan which addressed a multitude of project aspects, including communications and coordination of efforts and quality management. Post project activities have involved becoming a noticeable and credible resource to both governmental and non-governmental organizations seeking to further stormwater management.

Pontilly Stormwater HMGP Project – New Orleans, LA

Served as the senior project manager as well as **task leader for the environmental assessment, permitting, cost estimating, and community outreach tasks for the Pontilly Stormwater HMGP Project**. Responsibilities included development of initial and updated project budgets and schedules, completion of a preliminary and final Draft Environmental Assessment, participation in multiple formal and informal community meetings, and completion of required permit applications and cost estimates. Because of the nature of the project close coordination has been required across multiple agencies and departments who have a stake in the success of the project.

Broadmoor Drainage Upgrades and Green Infrastructure Project – New Orleans, LA

Senior project manager and lead engineer to guide a multi-disciplined team through the **development of a schematic design report and schematic design documents for a project aimed at improving stormwater management** within multiple New Orleans Neighborhoods on a very aggressive schedule. Responsibilities included managing landscape architects and civil engineers through the development of a systematic approach to improving the stormwater management aspects of the existing system, effectively increasing the capacity of the system at a lower cost than traditional methods.

Drainage System Engineering Analysis Project – New Orleans, LA

As the project manager and engineer of record for the cleaning and CCTV inspection of over 550K LF of drain lines throughout the City of New Orleans, responsible for the **development of an approach to determine appropriate pipe repair recommendations** for pipes that were confirmed damaged by Hurricane Katrina. This included coordinating data collection and management efforts as well as working within a GIS environment to **evaluate and create 60 reports with pipe repair recommendations**.

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KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Ricardo Contreras, P.E.
Civil Engineering Manager

Project Assignment:

Project Manager / Pump Station Design

Name of Firm with which Associated:



Infinity Engineering Consultants, LLC.

Years' experience with this Firm:

7

Education: Degree(s)/Year/Specialization:

Bachelor of Science / 1994 / Civil Engineering

Active registration: Year first registered/discipline:

Professional Engineer – Civil Engineering
LA / 1999 / Civil FL / 2006 / Civil

Other experience and qualifications relevant to the proposed Project:

Mr. Contreras holds more than 27 years of experience in civil engineering. He has been responsible for the development and implementation for project coping, schedules, budgets, and design review for a variety of civil engineering projects. Specific major project relevant to Jefferson Parish's need for drainage conveyance and roadway rehabilitation includes:

Conway Bayou Drainage Pump Station Expansion – Sorrento, LA

Technical lead responsible for providing engineering services associated with the expansion of the Conway Bayou Drainage Pump Station in Sorrento, LA. Project components included preparation of detailed construction drawings for **two new diesel driven pumps** housed in a new steel/concrete structure adjacent to the existing building. The Civil design included existing reservoir design modifications and a new pump intake area. Project was funded through the FEMA Hazard Mitigation Grant Program.

Belle Point Drainage Pump Replacement – Reserve, LA

Project Manager for the design of **two new pump stations to improve the existing drainage** of the Belle Point neighborhood. The pumping stations include submersible pumps and power systems located below grade in a wet well within the right-of-way of the street and are capable of handling 70,000 GMP of storm water.

Planters Pump Station Upgrades – Jefferson Parish, LA

Lead structural engineer responsible for design for the **replacement of engines and refurbishment of gears** at Jefferson Parish's Planters Pump Station. Project responsibilities included project coordination, site visits, support for equipment, and development of drawings, specifications.

West Metairie Avenue & Embankment Rehabilitation – Metairie, LA

Project Manager responsible for the overall design, preparation of plans and specifications, cost estimates, and coordination of all aspects of the design of roadway, crosswalk, bike lane, and drainage improvements for West Metairie Avenue. The designs included the removal and replacement of concrete paving panels and **repair and adjustment of select drainage outfalls** that cross beneath the avenue and enter the canal within the median, and implementation of stabilization measures to the embankments of the canal.

Oak Street Water Intake Modifications – New Orleans, LA

Responsible for designing a replacement system for two existing 48" diameter steel raw water lines, which included abandoning the existing raw water lines in place and backfilling both lines with a flowable concrete fill, construction of a **new vacuum pump station** to provide automatic priming for the intake lines, realignment of the new raw water lines over

TEC Professional Services Questionnaire

the top of the existing levee, raising a portion of the existing levee, and **jacking and boring the two new 48" diameter steel pipes** beneath an existing railroad track.

Pritchard Ditch Drainage Improvements – Marrero, LA

Technical lead responsible for the design and development of the Pritchard Ditch Drainage Improvements. The improvements included **replacing the reach of drainage canal with box culverts and headwalls**. Responsibilities included analysis of drainage conveyance capacity, box culvert and headwall design and placement including the development of construction documents (Specifications and Plans and cost estimate).

Hero Drainage Pumping Station Improvements – Jefferson Parish, LA

Project manager responsible for the **evaluation and design of new bar screens for the existing 12 bay bar screens** and a new auto-rake system to be attached to the existing bridge and containment of collected debris. Designs included the mechanical selection and specification of a trash screen, structural of design elements to support the new screen system, electrical power distribution and controls, and new mast lighting as required to illuminate the work area.

Westgate Drainage Improvements – Metairie, LA

Responsible for the design and coordination of multi-discipline consultants for **drainage improvements for sub-basin 1 thru 11** for Jefferson Parish. Scope of work included the design and construction of two pump stations, the addition of drainage check valves in canal, electrical requirements, structural design for generators and fuel tanks, and partial reconstruction of an existing roadway. Repairs include approximately 3,200 linear feet of 36" reinforced concrete pipe arch, 8,800 square yards of concrete roadway replacement, relocation of utilities, including, water and sewer house connections, and construction of a 30 cubic foot per second and 25 cubic foot per second pump stations.

Rivet Boulevard New Drainage and Roadway – Waggaman, LA

Responsible for design of a new roadway, which included design of a new water distribution system, **drainage analysis and design**, approximately 150 l.f. box culvert crossing, and construction of a new roadway approximately 8,180 l.f.

Azalea Drive Extension – Westwego, LA

Responsible for design of a new roadway extension, which included construction of a new water distribution system, **drainage analysis and design**, approximately 80 linear foot box culvert crossing, and extension of an existing street, approximately 3,010 linear feet.

Bannerwood Drainage Phase II – Timberlane, LA

Responsible for **construction management** of project. Duties included overseeing and managing construction progress and schedules, submittal reviews, review and approval of invoices, and project closeout, participating in progress meetings, resolving construction issues, and coordinating day to day operations for Resident Inspector.

Sewerage & Water Board Drainage Pump Station 17-SPS D Repair – New Orleans, LA

Provided an independent technical review of a structural report prepared to repair the existing exterior structural brick walls and provide renovations to the interior of the building. Additionally, was responsible for providing construction administration support as needed during construction.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Cindy Gallo, P.E.
Project Delivery Manager

Project Assignment:

Project Delivery Manager / Structural Design Integration

Name of Firm with which Associated:



Infinity Engineering Consultants, LLC.

Years' experience with this Firm:

9

Education: Degree(s)/Year/Specialization:

Bachelor of Science / 2014 / Civil Engineering

Active registration: Year first registered/discipline:

Professional Engineer – Civil Engineering
LA/2019/Civil

Other experience and qualifications relevant to the proposed Project:

As Project Delivery Manager, Ms. Gallo leads Infinity's project management discipline, focusing on effective project completion and exceptional client satisfaction. Ms. Gallo brings over eight years of experience in project management and civil/structural and marine engineering design to this client-focused role. Ms. Gallo is well versed in providing engineering services during bid selection and construction phases of a variety of project types.

Conway Bayou Drainage Pump Station Expansion – Sorrento, LA

Project manager responsible for leading a team of civil, structural, mechanical, and electrical engineers to provide engineering services for a drainage pump station expansion. Project components included a feasibility study to determine potential solutions to increase pumping capacity, followed by detailed construction drawings. Final designs included the specification of **two new diesel driven pumps** housed in a new steel/concrete structure. Civil designs included existing reservoir design modifications and a new pump intake area.

Belle Point Drainage Pump – Reserve, LA

Assisted with the initial **drainage calculations using the Louisiana DOTD Hydraulics Program, HYDR2009**. This project consisted of a hydrology and hydraulic study for the watershed area in a Belle Point subdivision to identify flood susceptibility and the design of submersible storm water pump stations.

Port of New Orleans Patterson Pump Station – Belle Chasse, LA

Part of the structural team that was responsible for the design and **model of a new steel platform** in RAM Elements. This project consisted of performing engineering services associated with maintenance and improvements to the Patterson Drainage Pump Station.

Shintech Water Intake Platform – Plaquemine, LA

Project manager of the engineering team responsible for the civil, structural, mechanical, electrical and instrumentation designs of a new EPA 316B compliant river **water intake platform** to provide raw/untreated water via a 30-inch pipeline to clarification units within Shintech's SPP3 Plant. Project components included performing topographic and hydrographic surveys, as well as the design of the concrete intake platform and vehicular access bridge supported by steel pilings/substructures, levee crossing and modifications, piping layouts, pipe support design, hydraulic analyses, and power and instrumentation as required for the platform.

St. Charles Parish Water Intake Platform Repair – Norco, LA

Project manager of the engineering team responsible for the structural and electrical designs of the repairs to St. Charles Parish's east bank river water intake platform. Project components included performing hydrographic surveys and specification of removal of the damaged structures, as well as the design of the pump skid stabilization, concrete deck/pile cap repairs, and **new steel support piles**.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Robert Haydel
Civil Project Designer

Project Assignment:

Drainage Conveyance / Drainage Systems

Name of Firm with which Associated:



Infinity Engineering Consultants, LLC.

Years' experience with this Firm:

4

Education: Degree(s)/Year/Specialization:

Bachelor of Science / 2005 / Physics
Master of Science / 2007 / Civil & Environmental Engineering

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

With over 17 years of civil engineering experience, Robert Haydel is proficient in construction and project management with experience in managing grant proposals. Mr Haydel's specialties include infrastructure assessment, stormwater system design, and urban hydraulics/hydrology modeling. Specific major project relevant to Jefferson Parish's need for drainage conveyance and roadway rehabilitation includes:

MSY Airport Stormwater Management Master Plan – Kenner, LA

Under the direction of Infinity's engineer of record, led Infinity's team in conducting **field investigations of major drainage facilities** at Louis Armstrong International airport, as part of a stormwater management master plan. Responsibilities included applying the US EPA Storm Water Management Model to the development of a baseline condition hydrologic and hydraulic model for the stormwater system. The master plan culminated in a report consolidating the team's analysis to inform future decisions on stormwater systems at MSY airport.

City of New Orleans Stormwater Drainage Master Plan – New Orleans, LA

As part of CDM Smith's City of New Orleans Stormwater Drainage Master Plan, **analyzed New Orleans stormwater conveyance capabilities** and modeled the performance of the drainage system utilizing Storm Water Management Model (SWMM). Identified potential flood hazard areas throughout the city and provided recommendations for city drainage improvements utilizing green infrastructure techniques.

Estelle Drainage Pump Station Addition Study – New Orleans, LA

Under the direction of Infinity's engineer of record, led a team in evaluating the drainage capacity expansion for Estelle DPS No.2. The project team **evaluated the existing intake and discharge basins, existing electrical services, existing pumping capacity**, and existing site to develop a decision matrix with various expansion alternatives. Ultimately, the team will draft a project report detailing the study and providing Jefferson Parish a recommendation to achieve an additional 2,000 cfs pumping capacity at Estelle DPS No.2.

Bainbridge Canal Closure & Roadway Improvement – Kenner, LA

Under the direction of the engineer of record, led Infinity's team as project manager in the development of the Bainbridge Canal realignment. The improvements included **relocating a 1000 ft reach of drainage canal** and the design of a 200 GPM sewer lift station. Responsibilities included analysis of drainage canal cross sectional layout, drainage outfall connections, adjacent infrastructure utilities, and alignment with downstream headwall. Additionally, developed construction documents and cost estimate.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Michael Riviere, E.I.
Civil Project Designer

Project Assignment:

Utilities Relocation / Site Preparation Design

Name of Firm with which Associated:



Infinity Engineering Consultants, LLC.

Years' experience with this Firm:

12

Education: Degree(s)/Year/Specialization:

Bachelor of Science / 1988 / Civil Engineering

Active registration: Year first registered/discipline:

Engineering Intern – LA / 1989 / Civil

Other experience and qualifications relevant to the proposed Project:

As a one of Infinity's Senior Project Civil designers, Mr. Riviere holds extensive experience in inspection, design, construction and repair of roadways, bridges, and port facilities . Additionally, Mr. Riviere holds extensive experience working with the New Orleans RTA in streetcar track and catenary system design. Combined with his knowledge of roadway design and drainage, Mr. Riviere has the knowhow to perform complete street designs including utilities relocation packages.

Canal Street Ferry Terminal and Wharf Replacement CMAR – New Orleans, LA

Under the direction of the professional engineer of record, developed **site utility relocation plans** through coordinating with multiple agencies, including the Regional Transit Authority, New Orleans Public Belt RR, Corps of Engineers, and Port of New Orleans. The utility plans included the **relocation of 10" and 12" water mains**, installing backflow preventers and meter valve vaults, the casing of all utility lines running under both freight and streetcar tracks, modified and new floodwall penetrations, and the relocations of sanitary sewer lines and manholes.

Regional Transit Authority Loyola Streetcar Expansion Utilities Design – New Orleans, LA

Under the direction of the professional engineer of record, assisted in the **utility relocation designs of storm and sanitary drain lines and manholes, waterlines, valves, and vaults**, from 8"- 30" diameter to clear way for the new streetcar guideways and avoid S&WB's existing century old brick box drainage culvert. All designs and relocations were in coordination with S&WB and private electric, gas and communication (copper and fiber lines) utility companies.

Central Business District Waterline Replacement – New Orleans, LA

Under the direction of the professional engineer of record, assisted with the **design of temporary water lines**, trenching, bedding, placement of the new waterline, and required pavement repairs. Valves and house connections within the segment were replaced. Fire hydrants along the segment were reconnected and/or relocated. The designs also included large valve pits for 30" water valves; the pit was approximately 18x15'.


Canal Street/City Park Avenue Intersection Improvements – New Orleans, LA

Under the direction of Infinity's engineer of record, performed design efforts involved with the overhead contact system and **utility relocation design** and the coordination and preparation of construction drawings, record specifications, and calculations. Prepared project schedule and estimates utilized the Federal Transportation Administration (FTA) project estimate workbook to prepare estimates to the FTA's Project Management Oversight Committee (PMOC) approval.


Harmony Circle Downtown Loop Repavement Design – New Orleans, LA

Under the direction of Infinity's engineer of record, prepared plans with specification notes for the replacement of concrete pavement along the streetcar track on St. Charles Ave. and Carondelet St. Also prepared plans to restore and repair the cobble stone pattern on Lafayette Mall at Carondelet St. at the streetcar track crossing. **Prepared traffic detour and control plans for the phased construction of this project.**

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Laura Kelly, P.E. Mechanical Engineering Manager
Project Assignment:
Drainage Pump Systems – Mechanical Engineer
Name of Firm with which Associated:
 Infinity Engineering Consultants, LLC.
Years' experience with this Firm:
7
Education: Degree(s)/Year/Specialization:
Bachelor of Science / 2008 / Mechanical Engineering
Active registration: Year first registered/discipline:
LA PE. No.39645 / 2015 / Mechanical
Other experience and qualifications relevant to the proposed Project:
<p>Ms. Kelly holds over fourteen years of mechanical engineering experience, including more than five years in major capital oil and gas consulting. Ms. Kelly has served as a mechanical technical lead in phases ranging from design conception to field installation and startup. As Mechanical Engineering Manager, Ms. Kelly oversees all mechanical designs and deliverables.</p> <p><u>Conway Bayou Drainage Pump Station Expansion – Sorrento, LA</u> Project engineer responsible for leading mechanical design team in engineering services associated with a proposed expansion of the Conway Bayou Drainage Pump Station. The final design included two diesel-driven pumps with right angle gear drives and formed suction intakes, as well as modifications to the diesel fuel storage and piping systems. Project responsibilities included equipment sizing and selection, design of engine fueling system, and development of drawings, specifications, and project documents.</p> <p><u>Planters Pump Station Replacement Design – Jefferson Parish, LA</u> Project engineer responsible for project management and mechanical engineering design for the replacement of engines and refurbishment of gears at Jefferson Parish's Planters Pump Station. Project responsibilities included project coordination, site visits, specification of equipment, design of engine cooling system, and development of drawings, specifications, and project documents.</p> <p><u>16th Ave. Pump Building Rehabilitation – Covington, LA</u> Project manager responsible for the replacement of controls and electrical systems at a municipal water pumping building. Project responsibilities included meeting with client's representatives to define scope objectives, coordinating project schedule and deliverables, and participating in project status meetings.</p> <p><u>Sewerage and Water Board New Orleans West Power Complex Non-C7 Tie-Ins – New Orleans, LA</u> Project manager responsible for leading a team in providing civil, mechanical, structural, and electrical designs for utility connections to the new West Power Complex (WPC) at SWBNO's Carrollton Water Plant. Utility connections include electrical duct bank, water, sewer, and fuel oil. Project components included performing laser scanning to develop 3D point cloud, and developing civil, electrical, piping, and structural designs in a 3D model for design coordination.</p> <p><u>LSU Science Zone Utility Infrastructure Improvements – Baton Rouge, LA</u> Project manager responsible for leading a team to provide civil and electrical designs for the replacement and upgrades of existing utility infrastructure in the "Science Zone" on LSU's Baton Rouge campus. Project designs included replacement and/or repairs to the chilled water, drainage, steam & condensate, domestic water, telecommunications, and electrical systems. Project responsibilities included coordinating and participating in site visits, coordinating with subconsultants for topographic and SUE surveys, and leading the project team in the development of detailed construction drawings and opinions of probable cost.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:		
Name & Title:		
Raoul V. Chauvin, III, P.E. Principal		
Project Assignment:		
Drainage Pump Systems Advisor		
Name of Firm with which Associated:		
 Infinity Engineering Consultants, LLC.		
Years' experience with this Firm:		
20		
Education: Degree(s)/Year/Specialization:		
Bachelor of Science / 1990 / Mechanical Engineering		
Active registration: Year first registered/discipline:		
IA/2018/Mechanical KY/2018/Mechanical MN/2018/Mechanical TN/2018/Mechanical	IL/2018/Mechanical LA/1999/Mechanical MS/2007/Mechanical TX/2007/Mechanical	IN/2018/Mechanical MI/2018/Mechanical OH/2018/Mechanical
Other experience and qualifications relevant to the proposed Project:		
<p>As Principal Partner of Infinity Engineering Consultants, Mr. Chauvin is responsible for all mechanical system designs. Included in those responsibilities are client interface, site inspection and evaluation, contract negotiation, project management, design, and drafting supervision. Mr. Chauvin's professional 32-year career has revolved around providing cost effective, efficient design solutions for municipalities, offshore oil, and inland marine terminals.</p> <p><u>Ollie Basin Drainage Study and Pump Station Expansion – Jesuit Bend, LA</u> Lead mechanical engineer for a new \$16.5MM 600 CFS drainage pump station addition. Evaluated existing pumps to determine suitability of present and future demands. Additional fuel, air, and water supply systems were designed to support the new pumps. Additionally, specified new pumps, diesel engines, and gears based on the hydraulic requirements, including future Corps of Engineers levee modifications.</p> <p><u>Patterson Pump Station Port of New Orleans – New Orleans, LA</u> Principal engineer and mechanical engineering supervisor for the design of removal and refurbishment of two vertical pumps; condition evaluation of two electric motors; replacement of the electrical system from the existing main breaker/disconnect; establishment of a back-up generator; and checking the elevation of the discharge piping against the flood protection requirement.</p> <p><u>St. John the Baptist Parish Belle Point Drainage Pumping Station – Laplace, LA</u> Principal engineer and mechanical engineering supervisor for the design of two new pump stations to improve the existing drainage within Belle Point neighborhood. The pump stations included submersible pumps and power systems located below grade within the right-of-way of the street and is capable of handling 70,000 GMP of storm water.</p> <p><u>Amoretti & Fort Jackson Sluice Gates – Buras, LA</u> Lead Engineer responsible for damage assessment and repair design for mechanical components of these flood control drainage structures. Coordinated with Plaquemines Parish operations and FEMA personnel for strategic planning of repairs operations, including hazard mitigation techniques. Both drainage control stations required the replacement of mechanical gates and gear mechanism.</p> <p><u>Sewerage and Water Board of New Orleans Drainage Pump Stations 4, 13, 17, 19 – New Orleans, LA</u> Lead mechanical engineer for repair design of four Sewerage & Water Board pumping stations. Repair included motors, pumps, valves, piping, and HVAC. Engineered designs also incorporated components to mitigate future damage to the facilities and equipment in the event of another natural disaster.</p>		

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

John Lawrence, P.E.
Electrical Engineering Manager

Project Assignment:

Power Systems – Electrical Engineer

Name of Firm with which Associated:



Infinity Engineering Consultants, LLC.

Years' experience with this Firm:

2

Education: Degree(s)/Year/Specialization:

Bachelor of Science / 1990 / Electrical Engineering

Active registration: Year first registered/discipline:

LA P.E. 27941/1998/Electrical

Other experience and qualifications relevant to the proposed Project:

Helios Ave. Sewer Lift Station New Generator – Metairie, LA

Project manager for the design and installation of a **new backup generator** to the Helios Sewer Lift Station in Metairie, LA. The new natural gas 480/277VAC, 3ph, 4 wire, backup generator is specified to power two of the four VFD drives simultaneously. Once constructed, the new generator feeder will tie into a new automatic transfer switch (ATS) via new underground conduits, with the ATS installed in the existing electrical room.

Sewerage & Water Board West Power Complex – New Orleans, LA

Principal electrical engineer for the design of routing high voltage electrical distribution to the Sewerage & Water Board's proposed new West Power Complex. The electrical designs include the **addition of underground electrical duct banks** to run cables from the C7 interface to the substations. The electrical duct banks also required routing of the cables, location of manholes, and performance of pull calculations. Additionally, provided designs for the above ground high voltage cable routing between the utility rack and the substation.

Avondale Lift Station Backup Generator Addition – Avondale, LA

Project manager for the design and installation to add a new backup power generator for the Avondale lift station within Jefferson Parish, LA. The **new 1MW 480/277VAC, 3ph, 4W, backup generator** has been designed with an associated 3-day belly diesel tank that will be skid mounted with the generator. The new generator will be installed on a new platform which will adjoin the existing electrical building. The new 1MW generator feeder will tie into a new automatic transfer switch (ATS) via new underground conduits.

St. Bernard Port New Generator Installation – Chalmette, LA

Project manager for the design and installation of a **new 250kW 208/120VAC, 3ph, 4W, backup generator** at the Associated Terminals office building in Chalmette, LA. Once constructed, the backup generator will be skid mounted with an associated diesel tank. The new 250kW generator output feeder will be connected into a new automatic transfer switch (ATS) which would be located on the new platform via use of new conduits and cables. The generator and diesel tank will be installed on an elevated steel platform built upon a new pile-supported concrete slab foundation. The elevation of the platform has been established based on a 500-year flood event.

Jefferson Parish Water Department New Electrical Generators – Marrero, LA

Project manager for the design to upsize **new backup generators from 750kW to 1MW to provide for the full redundant power** of the system at the Jefferson Parish water plant in Marrero, LA. The additional capacity required the modification of the existing switchgear to accommodate the new size of the backup generators to allow them to provide their maximum power. The new generators were designed to be diesel powered with a new day tank connected in parallel to the existing day tank with a new transfer valve between both tanks.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Bart Lacombe
Electrical Project Designer

Project Assignment:

SCADA Systems – Electrical Designer

Name of Firm with which Associated:



Infinity Engineering Consultants, LLC.

Years' experience with this Firm:

6

Education: Degree(s)/Year/Specialization:

Bachelor of Science / 2007 / Civil Engineering

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Camp Plauche Lift Station Rehabilitation – Harahan, LA

Under the direction of the engineer of record, coordinated with Entergy and the Jefferson Parish Sewage Department for the electrical design for the lift station rehabilitation project to **replace the existing 2400-volt pumps with new 480-volt pumps**. Infinity's electrical designs included the new electrical service which required new transformers and a new motor control center for the lower voltage motors for the pumps. The designs also included a new PLC pump control system which will be integrated into most station operations.

Ochsner H3-3 Lift Station Pump Replacement – Jefferson, LA

Under the direction of the engineer of record, assisted with **electrical design and development of drawings for pump replacement** for the existing lift station and evaluation and design of new electrical distribution system. Infinity's designs included the electrical service and new pump controls.

Laurel & Mistletoe Street Lift Station Rehabilitation – Metairie, LA

Under the direction of the engineer of record, assisted with the development of electrical and control system designs for the rehabilitation of the sewage lift station. Infinity's electrical designs included **replacement of the electrical service equipment** with provisions for a temporary generator connection, the electrical distribution for the pumps, lighting, and receptacles in the dry well. The control system designs included replacement of the SCADA and telemetry equipment.

Planters Pump Station Refurbishment – Jefferson Parish, LA

Under the direction of the engineer of record, assisted with electrical design and development of drawings for **replacement of pump engines, interface with existing control systems, and refurbishment of pump gears**.

Shintech Water Intake Platform – Plaquemine, LA

Under the direction of the engineer of record, assisted with electrical and instrumentation design and development of drawings for construction of a **new river water pumping platform**. The electrical design included the main electrical service connection to plant electrical, cable tray design, platform distribution involving a 480V panelboard, stepdown transformer and panel for servicing lighting and receptacles and lighting design. Infinity's instrumentation design included connection to plant instrumentation, platform distribution involving instrument junction boxes and instrument cable tray required for integration for platform instruments.

St. Charles Parish Water Intake Platform Repairs – St. Charles Parish, LA

Under the direction of the engineer of record, assisted with electrical design and development of drawings for **replacement of electrical equipment and special systems** on the collapsed section of the water intake platform. The project scope was to re-establish platform electrical service including main electrical service connection to plant electrical, platform distribution involving a 480V MCC, pump VFDs and control wiring, stepdown transformer and panel for servicing lighting and receptacles and lighting design. The special systems included CCTV cameras and gate access.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Rodney Ziegler
Resident Inspector

Project Assignment:

Construction Resident Inspector

Name of Firm with which Associated:



Infinity Engineering Consultants, LLC.

Years' experience with this Firm:

5

Education: Degree(s)/Year/Specialization:

Certificate of Technical Studies: Electrical Technology

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Read Blvd. East Group C – Complete Street Reconstruction

Performed all **resident inspection duties for eight blocks of complete street reconstruction**. Included in the project scope was street pavement, sidewalks, drain point repairs, catch basin, and manhole adjustments. Throughout the inspection process, maintained constant contact with project managers to record any variations. Additionally, he prepared technical correspondence and field reports; as well as interpreted construction plans and specifications.

Black Pearl East Carrollton Group A Water Line Replacement

Resident Inspector for replacement of existing water line throughout E. Carrollton & Black Pearl Neighborhoods of New Orleans. The project includes new fire hydrants, pavement, and sidewalks repairs. The project consists of 373 LF of 8" water main and 302 LF of 10" water main replaced with C-900 PVC. An additional 40 LF of 10" water main was replaced with fusible PVC pipe to allow traffic to continue in the intersection.

N. Broad Street Underpass Pumping Station - New Orleans, Louisiana

Performed **all resident inspection duties** for the mechanical, electrical, and general construction phases of the repairs to the N. Broad Street Underpass Pumping Station project. The project included the following:

- Removal and **replacement of one 12" trash pump** including pump stand, shaft, intermediate pillow block guide bearings, couplings and bearing support channels
- Removal and **replacement of all discharge piping** between each new installed 12" trash pump and the designated to remain 20" discharge wall pipe.
- Clean, prime, and application of protective coating per specifications and submitted paint schedule to all exposed steel inside building.


St. Roch North Roadway Repairs – RR176 - New Orleans, Louisiana

Provided **resident inspection for this roadway repair project**. Infinity performed roadway, sidewalk, driveway, utility, and ADA compliant ramp designs and construction documents in alignment with the FEMA Recovery Roads program. Hydraulic design/analysis was also required for drainage system.


TEC Professional Services Questionnaire

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

PROJECT NO. 1

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Ollie Pumping Station Expansion & Vehicular Bridges Jesuit Bend, LA Plaquemines Parish Government Ken Dugas, P.E. 504-297-5343	<p>Infinity served as the prime consultant for the design of the pump station addition, which included civil, structural, mechanical, electrical engineering design, and construction administration.</p> <p>The Ollie Pump Station provides storm drainage across approximately seven (7) miles encompassing about 3000 acres of Plaquemines Parish's West Bank. Infinity performed a drainage study of the basin and the subsequent addition of two (2) new 300 CFS drainage pumps to an existing 60-year-old facility. The increased capacity accommodated an expanding population and the replacement of aging equipment. Infinity's expansion design included:</p> <ul style="list-style-type: none"> • New, pile supported pump building foundation • Enlarged the existing suction and discharge basins • Specified new pumps & diesel engines, based on the hydraulic requirements • Specifying compressed air and diesel fuel piping and storage utilities • Hydrographic study of the suction and discharge basins • New electrical power and lighting for station modifications 	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Completed: 2011	\$16,500,000	\$16,500,000

PROJECT NO. 2

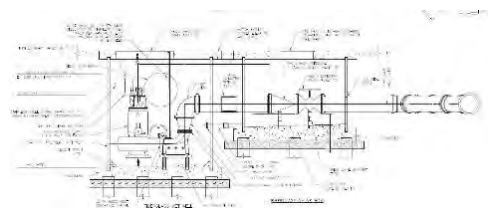
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Conway Bayou Drainage Pump Station Upgrades Sorrento, LA Ascension Parish Government Ron Savoy 225-450-1200	<p>Infinity has been serving as the prime consultant providing comprehensive engineering designs for the upgrades and capacity expansion of the Conway Bayou drainage pump station in Sorrento, Louisiana. The existing Conway Bayou pumping station) removes water from Sorrento and the watershed area via a drainage ditch system and reservoir, which is pumped into Conway Bayou.</p> <p>The goal of the project is to alleviate localized flooding, overtopping of local roads, and repetitive losses due to regular weather events though increasing the drainage pump station capacity by an additional 150,000 gpm (334.2 cfs). This additional capacity will be provided via a new diesel driven pump, which are proposed to be housed in a new structure east of the existing pump station. The existing reservoir will be modified as to accommodate the new pump intake area, and design of the new pump suction and discharge will consider the natural flow of Conway Bayou. Infinity's scope of this project encompasses civil, structural, mechanical, and electrical design.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
Designs Completed: 11/23 Construction: TBD	\$7,200,000 (E)	\$7,200,000 (E)

TEC Professional Services Questionnaire


PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Port of New Orleans Patterson Pump Station Sorrento, LA</p> <p>Port of New Orleans Bill Rivera 504-528-3294</p>	<p>Infinity was the prime consultant for the removal and refurbishment of (2) 150 HP vertical drainage pumps at the Port of New Orleans' Patterson Drainage Pump Station along the Inner Harbor Navigation Canal. Infinity's electrical designs included the condition evaluation of the two electric motors, replacement of the electrical system from the existing main breaker/disconnect, as well as sizing and specification of a diesel generator. Additionally, Infinity designed the walkway to access the discharge screen catwalk and checked the elevation of the discharge piping against the flood protection requirement.</p> <p>Infinity's design schedule was accelerated at the Port of New Orleans' request. The design was completed such that bids were received, equipment was procured, and construction completed prior to hurricane season. Infinity provided construction administration and resident inspection services throughout the project length.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Completed: 2/2018	\$330,000	\$330,000




PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Belle Point Neighborhood Pump Station Design & Replacement Reserve, LA</p> <p>St. John the Baptist Parish Government Brian Nunes, P.E. 985-652-4815</p>	<p>Infinity provided the design of (2) new pump stations to replace inadequate capacity of existing station and improve the existing drainage. The designs included the interconnection of approximately (7) catch basins along Mallard Road and the capping off of the existing outfalls such that they were routed to the new submersible pump stations. The pumping stations include submersible pumps, motors, accessories, wet well, valve vault, piping, backflow preventer and all associated equipment, devices, etc. to ensure proper function. The stations are located below grade in a wet well within the right-of-way of the street and are capable of handling 70,000 GMP of storm water.</p> <p>Electrical designs included all electrical for power requirements of the motors and control panels, accessories, SCADA, alarms and panel enclosures, as well as a manual transfer switch for connection of a generator to the control panel for power outages.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Completed: Oct. 2017	\$1,350,000	\$1,350,000




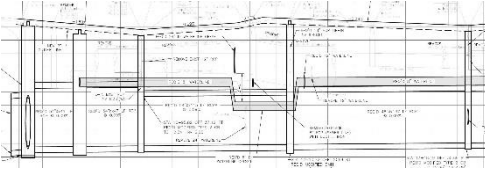
TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Planters Pump Station Pump Replacement Improvements Metairie, LA</p> <p>Jefferson Parish Government Ben Lepine 504-736-6759</p>	<p>The overall project design scope consisted of the replacement of the engine for Pumps #1, 2, 3, and 4 at Jefferson Parish's Planters Pump Station. The project has been split into two phases, with Phase 1 comprising of all work associated with Pump #1 and Pump #2 and Phase 2 focusing on all work associated with Pump #3 and Pump #4.</p> <p>Infinity has been responsible for all Phase 2 design work. For each pump, the detailed scope included designs of the following: replace the engine, remove the existing radiator and replace with jacket water and aftercooler keel coolers, remove existing cooling water piping to engine, install new jacket water and aftercooler piping between engine and keel coolers, replace all other associated engine piping, install gear pre-lube skid and associated piping, and all related electrical and controls work. Refurbishment of the gear box for each pump is an add alternate. Infinity will perform assistance during bidding, construction administration, and resident inspection for Phase 2.</p> 	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
100% Designs Submitted: 6/2024	N/A	\$1,700,000

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Suburban Drainage Pump Station Engine & Gear Replacement Metairie, LA</p> <p>Jefferson Parish Government Ben Lepine 504-736-6759</p>	<p>The overall project scope included the replacement of the engines with new Tier 2 diesel engines, associated piping, and related electrical and controls work for Pump #4 and Pump #5 at Jefferson Parish's Suburban Pump Station.</p> <p>The refurbishment of the gear box and replacement of the gear box's auxiliary pump system for each pump are add alternates. Of that scope, Infinity is responsible for design of the gear box refurbishment, replacement of the radiator jacket water and after cooler piping, muffler exhaust piping, and all electrical and controls work. Additionally, Infinity provided resident inspection throughout construction.</p> 	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Completed: 2022	\$4,000,000	\$1,200,000

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>West Metairie Ave. Drainage Conveyance & Canal Embankments Improvements Metairie, LA</p> <p>Jefferson Parish Government Gene Gillen, PE 504-832-4878</p>	<p>Infinity is the prime engineering and construction administration consultant for the restoration of (2) miles of West Metairie Avenue between Roosevelt Boulevard and David Drive. The complete street replacement designs include coordinating work on both sides of the canal to minimize impact to the residential areas. The project required the replacement of West Metairie Avenue pavement as well as adjacent canal bank stabilization. Adjacent sidewalks were also designed with side street turnout to meet ADA criteria.</p>  <p>Infinity provided geometry and layout of the sheet pile, including the treatment of culvert outfalls per Jefferson Parish provided standards. The sheet pile design also includes material specifications. Infinity's designs included improvement to the drainage system along the streets that was based off hydraulic studies. Infinity is currently providing resident inspection and construction administration services throughout the project. The drainage improvements included:</p> <ul style="list-style-type: none"> •Street outfall pipe replacement •Adjustments of longitudinal and transverse slopes •Adjustment of existing and addition of new drain inlets 	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Under Construction: 3/2025 (E)	\$4,102,000	\$4,102,000

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Ridgelake Drive Drainage & Roadway Improvements Metairie, LA</p> <p>Jefferson Parish Government John O'Connor 504-736-6833</p>	<p>Infinity is the prime engineering consultant for roadway and drainage improvement designs consisting of upgrading the existing subsurface drainage on Ridgelake Drive starting at Fifth Street and ending at the West Esplanade canal. Designs call for a new culvert to tie into the West Esplanade canal with a 54-inch outfall. These designs have been created in accordance with the Jefferson Parish East Bank Subsurface Drainage Improvement Program.</p> <p>The scope of the project included increasing the current drainage culvert size along Ridgelake Drive. A topographic survey was required to map the area affected by construction as well as identify the location of the existing culvert and other utilities which may be affected or conflicting. Additionally, Infinity's designs will include roadway, driveway, and sidewalk repair to ADA compliance. Existing pavement grades will be maintained, and new pavement will be designed to match existing grades.</p> 	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Completed 100% Design Package: 8/2023	\$5,662,000	\$5,662,000

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>North Broad Street Underpass Pumping Station Upgrades New Orleans, LA</p> <p>Sewerage & Water Board Daniel Avalos 504-856-0459</p>	<p>Infinity provided the electrical engineering design and resident inspection for the North Broad Street Underpass Pumping Station. Electrical designs included.</p> <ul style="list-style-type: none"> • Replacement of two electrical boards • Replacement of the main electrical duct bank and wiring • Replacement of service ground system • Removal and replacement of two 40 HP 25 Hz motor starters <p>Resident inspection duties for the mechanical, electrical, and general construction phases of the repairs included the following:</p> <ul style="list-style-type: none"> • Removal and replacement of one 12" trash pump including pump stand, shaft, intermediate pillow block guide bearings, couplings and bearing support channels • Removal and replacement of all discharge piping between each new installed 12" trash pump and the designated to remain 20" discharge wall pipe. Due to spacing issues, the installation of each set of discharge pipes required communications and change orders to include flex connectors for proper installation • Clean, prime, and application of protective coating per specifications and submitted paint schedule to all exposed steel inside building 	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Completed: 2019	N/A	\$175,000



PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Hero Drainage Pump Station Harvey, LA</p> <p>Jefferson Parish Government Ben Lepine 504-736-6759</p>	<p>Infinity provided the engineering design for the improvement of the bar screen system at the Hero Canal Drainage Pumping Station. Hero drainage pump station is a critical stormwater management facility, as it serves to drain several drainage canals on the Westbank of Jefferson Parish.</p> <p>Originally, the site utilized non-mechanical bar screen over 12 bays. Infinity replaced the existing screen with a new auto-rake system that was attached to the existing bridge. Infinity performed a scoping study that established the need for a climber screen system at the Hero Pump Station. Designs included the mechanical selection and specification of a trash screen, structural of design elements to support the new screen system, electrical power distribution and controls, and new mast lighting as required to illuminate the work area.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
Completed: 2020	\$1,740,000	\$1,740,000



TEC Professional Services Questionnaire

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

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1. Not Applicable	Not Applicable	Not Applicable
2.		
3.		
4.		

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

Infinity Engineering Consultants, LLC (Infinity) is proud to present our qualifications to provide engineering design and construction administrative services for the **Jefferson Parish Independence Park Drainage Pump Station** drainage project. It is our understanding that Jefferson Parish seeks to select a qualified engineering firm capable of designing the station and administering the project through construction.

Throughout Infinity's **20-year** history, our firm of **mechanical, civil, structural, and electrical engineers** have provided complete designs, construction administration, and resident inspection services in the public and private sector on a multitude of stormwater management projects. This experience has led to Infinity becoming well versed in the detailed planning and execution associated with designing drainage pump stations and drainage conveyance systems. The following is a high-level overview of Infinity's conceptual plan for successfully carrying out the engineering design and construction administrative services for the new Independence Park Drainage Pump Station.

Project Scope & Understanding

The Independence Park neighborhood drainage basin area is bounded by Veterans Hwy (North), I-10 Service Road (South), Jody Street and Lexington Street (West), and Hessmer Avenue (East). Due to residential complaints, **Jefferson Parish specifically requested a study of the drainage** complications and flooding along Bunker Hill Drive. Additionally, other surrounding area street segments experience flooding during minor rain events.

The Independence Park Drainage Basin is a sub-basin of the Canal No. 3 Drainage Basin and is composed of residential neighborhoods, commercial and retail developments located in Metairie, Louisiana. The drainage area for this project is 49± acres and discharges into Canal No. 3 via Division Street.



Independence Park Drainage Basin Aerial View

This project area's **current** drainage system, which is a series of catch basins, manholes and culverts, consists of eleven major street segments which are:

- Division Street, the main drainage artery, flows North, captures flow from each of the side streets below, and discharges into Canal No. 3.
- Pontiac Street's culvert drains East and connects to the Division St. culvert.
- Jodie Street's culvert drains to Diane Pl., which subsequently drains to the Division St. culvert.
- Barbara Pl., Brandywine Dr., and Saratoga Dr. all drain East and connect to the Division St. culvert.
- Hessmer Ave. drains North to Tierney St., which subsequently drains to the Division St. culvert.
- Lexington St. culvert drains to the Bunker Hill Dr. culvert, which subsequently drains to the Division St. culvert.

TEC Professional Services Questionnaire

To ensure a robust knowledge of the Independence Park drainage pump station, Infinity has teamed with Horizon Engineering, as the lead engineers, Brett Liuzza, P.E. and Ben Bartlett, P.E., of the initial hydraulic study are now the Principals of **Horizon Engineering**. While previously employed by another firm, Mr. Liuzza and Mr. Bartlett conducted the hydraulic study from 2019 – 2022, with a pause to the project due to the Covid-19 pandemic. The focus and goals of the study were coordinated by these engineers in conjunction with the Jefferson Parish Drainage Director Ben Lepine and Assistant Director Clinton Hotard.

As detailed by Mr. Liuzza and Mr. Bartlett, the Jefferson Parish geographic information system (GIS) map was used to identify subsurface drainage and utility locations and the light detection and ranging (LIDAR) data were used for contours. However, for design, additional survey data will be required on a portion of Hessmer Avenue and Tierney Street.

The Independence Park Drainage Basin was divided into 10 sub-regions for evaluation using the LA DOTD HYDRWIN hydraulics software for the 10-year storm event for the existing conditions as well as the proposed, new pump station calculations. For a more conservative analysis, the system was modeled as **fully-submerged**. The analysis performed on the existing system was to determine where flow was being restricted that caused flooding on the side streets. **Based on the model, the current drainage system's capacity is insufficient for 10-year storm event because it is undersized. Also, based on survey information, it was found that drainage pipes in the system had adverse slopes.**

Based on the hydraulic analysis, a 200 CFS pump station with a 48" force main was recommended. The force main is conceived to run down Tierney Street, turn on Division Street, and discharge into Canal No. 3. The study stated a **possible location of the pump station** is on Lowe's Home Improvement's property (the greenspace and parking between Lowe's and Metairie Fair Grounds OTB & Casino). This area connects to Tierney Street and Edenborn Avenue. Part of the Lowe's parking lot adjacent to the greenspace could potentially be used as well for underground portions of the pump station.



Proposed Location for Independence Park Pump Station

If constructed along the proposed green space behind Lowe's, it is conceived that the pump station itself will result in minimal construction impacts to the side streets. However, there will be road re-construction on Tierney Street and Division Street in order to install the new force main. Additionally, the drainage on Division Street North of Tierney Street will need to be re-routed to drain South from Veterans Blvd to Tierney Street and into the new pump station. Alternatively, the gravity system on Division Street can be re-routed from South of Pontiac Drive to the pump station and the existing gravity system north of Pontiac Street remain to Canal No. 3. The pump station force main would tie-in to a new specialty manhole at Pontiac Street and Division Street.

Project Team

To accomplish Jefferson Parish's conceptual plan for the proposed pump station, Infinity has assembled a dynamic group of firms to achieve all the required field work and testing, research, design, and construction administration needed for the successful completion of the project. This project will entail a **multi-disciplinary approach with civil, structural, mechanical, and electrical engineering** all being necessary for the successful completion of the Independence Park Drainage Pump Station. Infinity's in-house design capabilities along with our sub-consultants, will accomplish each of the engineering design elements. The Infinity team includes the following professional services firms who are all based within Jefferson Parish:

INFINITY ENGINEERING CONSULTANTS, LLC.

PROJECT MANAGEMENT
UTILITY ASSESSMENT & RELOCATION
MECHANICAL ENGINEERING
ELECTRICAL ENGINEERING
CULVERT DESIGN

TEC Professional Services Questionnaire

ROADWAY DESIGN
CONSTRUCTION COST ESTIMATES
CONSTRUCTION ADMINISTRATION
INSPECTIONS

HORIZON ENGINEERING, LLC.

STRUCTURAL ENGINEERING
HYDRAULIC ANALYSIS

BRYANT HAMMETT & ASSOCIATES, LLC

TOPOGRAPHIC SURVEYS

THE BETA GROUP ENGINEERING & CONSTRUCTION SERVICES, LLC.

GEOTECHNICAL ENGINEERING

With vast experience in stormwater conveyance design and management, Infinity's Ricardo Contreras, P.E. will serve as the Project Manager, providing oversight to ensure timely completion of all design and subconsultant services. **Capitalizing on their deep, institutional knowledge of the physical construction of the existing system, their recent hydraulic analysis of the system, and extensive civil design capabilities, Infinity has teamed with Horizon Engineering, LLC** to accomplish the structural design components of the project, and run any additional hydraulic models, if required. We envision Infinity's in-house team of civil, structural, mechanical, and electrical engineers collaborating on the complete design of the pump station upgrades. **Bryant Hammett & Associates** will provide comprehensive surveying for the system not previously captured during the study. The Beta Group will provide geotechnical testing.

Project Approach

Throughout the course of the project, all lines of communication will be between Jefferson Parish and Infinity's project manager. Subconsultants will report directly to Infinity. All of our subconsultants are local firms, and, if necessary, can easily meet in person with us or Jefferson Parish staff. Infinity has accomplished many successful projects as a result of proper management, good working relationships, and communication. **Each consultant will be beholden to the same criteria as the prime agreement between Jefferson Parish and Infinity.**

Since the firm's inception, Infinity Engineering has continuously sought to provide high-quality engineering design plans and construction documents. The firm cemented this dedication to providing quality engineering through our dedicated **QA/QC Manager, Louis Jackson, P.E.** Mr. Jackson brings over **27 years** of engineering design, project management, and quality control experience to the role of QA/QC Manager. Infinity will build a project specific QA/QC plan to ensure the project goals are met efficiently and effectively

This will include a project work plan for project monitoring, progress tracking, cost control, and change management. Assembling these elements into one document as a management tool will help ensure that all the essential issues are considered and that the individual elements are planned in a consistent and complementary fashion.

While Infinity looks to be efficient, we also strive for the highest quality of design. This commitment to quality is evident in our dedicated role of Project Delivery Manager, Cindy Gallo, P.E. This role was established to ensure Infinity's projects are delivered efficiently and to the client's specifications.

Project Methodology

Based on the advertised RFQ and the hydraulic study performed by the Principals of Horizon Engineering, it is our understanding that the existing gravity system within the Independence Park neighborhood cannot sufficiently remove storm water from the drainage basin resulting from a routine storm event and the modeled 10-year storm event. **The recommendation from the hydraulic study is to construct a pump station with a capacity from 200 CFS.** The station's calculated size and proximity to residences leans the design of the station towards a below-grade electric-powered sump pump type construction.

TEC Professional Services Questionnaire

Award of this contract will encompass all design phases, bid phase services, and construction administration. Supplemental services are expected to include surveying, geotechnical testing, property acquisition assistance, and resident inspection.

1. Within five (5) days of receiving a Notice to Proceed, we will contact the Parish's Project Manager to schedule a pre-design meeting to introduce key personnel and sub-consultants who will be charged with executing the project. Key Parish staff who may be involved with the work or directly impacted by the work should attend to provide input that may prove beneficial in lessening disruption of any kind. The goal of this meeting is to define the project objectives including the capacity requirements, environmental considerations, discuss the outcome of recent reports or studies, and any specific constraints/limitations. This meeting will be held to discuss the following:
 - 1.1 Location of the station.
 - 1.2 Existence of relevant as-builts for utilities, existing infrastructure, and any relevant geotechnical reports, and requirements for obtaining copies.
 - 1.3 Understanding of the capacity, configuration and age of the various utilities within the project boundaries to evaluate whether utilities beyond the project boundaries will perform as needed, i.e., upstream culverts.
 - 1.4 Plans for remote monitoring at the station.
 - 1.5 The possibility to walk the site following the meeting.
2. Within five (5) days following this pre-design meeting, a tentative schedule will be developed and submitted for the Parish's review and comment. This schedule will be comprised of the following detailed tasks:
 - 2.1 Inspection, Testing and Survey of Existing Drainage/Utilities
The survey scope by Bryant Hammett & Associates will encompass all areas not previously covered. In preparation of a new station, The Beta Group will perform the necessary geotechnical tests to provide soil data and pile recommendations to Horizon Engineering to properly design the station foundation. This process is not uncommon for projects of this nature and we are prepared to execute the work.
 - 2.2 Additional site visits will occur to allow inspection of specific areas and utilities, to confirm the drawings and/or gather any additional pertinent data. Utilizing our staff and listed sub-consultants, our team will perform specialized work, such as surveying, geotechnical investigation, and testing, and assessing electrical service.
 - 2.3 Completion of 30% Preliminary Design Phase to be completed within 6-8 weeks following the NTP. An analysis of the information gathered during the Preliminary phase will be performed and a 30% design of all necessary improvements will be developed. In this level of design, a 30% design of the station, pump type selection, sump, and existing culvert modifications, force main, and power or fuel improvements will be presented. An order of magnitude construction cost estimate and projected schedule for design and construction will be provided.
 - 2.4 An assumed Parish review and comment period of 2 weeks for the 30% design.
 - 2.5 Completion of 60% Design Phase 6-8 weeks after receipt of comments from the Parish on the 30% design.
 - 2.6 An assumed Parish review and comment period of 2 weeks for the 60% Design Phase.
 - 2.7 Completion of 90% Design Phase 4-5 weeks after receipt of comments from the Parish on the 60% Design Phase.
 - 2.8 An assumed Parish review and comment period of 1 week for the 90% Design Phase.
 - 2.9 Completion of 100% Design Phase 2 weeks after receiving comments from the Parish on the 90% Design Phase.
 - 2.10 A tentative schedule for bid advertisement and construction
It should be noted that the actual project schedule will be determined by the Parish's required deadlines. Infinity uses the project scheduling software, Microsoft Project, to help maintain the project timelines.
3. As the project continues through construction, we will be there assisting the Parish with routine administration and inspection services.

TEC Professional Services Questionnaire

We intend for the design process to be a collaborative effort between our team and the Parish. It will be important to consider the following design elements:

1. Calculated capacity requirements and hydraulic constraints.
2. Appropriate pump types, sizes, and configurations based on flow rates, head requirements, and efficiency considerations.
3. Design of pump station components, such as sump basin, power and fuel, valves, and control systems, accessibility.
4. Maintenance
5. Consideration of redundancy and backup systems to ensure reliability and resilience.
6. We will identify potential hazard mitigation techniques to prevent future damage to the pump station. Infinity's team will strive to elevate critical elements, such as electrical switchgear and controls to mitigate flood damage.

Infinity's focus in our approach to this type of project is to provide the owner with the most cost-effective design, responsibly utilizing the funds available to satisfy the needs of the project. We strive to secure efficient processes that are sustainable for the Parish in its operation and maintainability and are suitable for supporting the health and safety of Parish residents.

The Infinity Team Difference

1) Professional training and experience both generally and in relation to the type and magnitude of work required for the particular project:

Infinity's staff along with our teaming partners have the experience to provide Jefferson Parish with the expertise to prepare an appropriate assessment of the existing infrastructure and identify the most effective and least-costly method of pumping for the new station, culvert and impacts to the community. Infinity Engineering Consultants, LLC is a registered Louisiana engineering firm (License No. 3109) and is in full compliance of Louisiana state law.

Infinity employs (6), full-time, licensed civil engineers, many with over twenty (20) years of experience. For this project, Infinity will assign Ricardo Contreras, P.E., as Project Manager. Mr. Contreras holds more than 27 years of experience in the field of civil engineering, including 20 years of responsible charge of paving and drainage design. His responsibilities include project management, engineering design, preparation of plans and specifications, preparation of cost estimates, construction administration, and collaboration with owners for various construction projects.

Our teaming partner, **Horizon Engineering's** Brett Liuzza, P.E., has particular expertise and 16 years' experience in all facets of hydraulic analysis, structural and civil design. **Mr. Liuzza along with Ben Bartlett, P.E., were the principal engineers in the analysis and execution of the hydraulic study which led to this RFQ.** Their understanding of Jefferson Parish's expectations and goals for the project and familiarity with the project stakeholders, project site and survey, and H&H model/analysis will accelerate the design schedule, saving time and money.

Infinity Engineering did not participate in any manner with the drainage study resulting in this RFQ and is therefore not conflicted in submitting qualifications for this project.

As illustrated in the resume section, Infinity's professional engineering staff and partners are well-suited to address all needs of this project. Infinity, as well as **all of our teaming partners are Jefferson Parish firms** with familiarity in all facets of design anticipated.

Infinity points to past successes as a token of our reputation as a responsible and capable technical resource for Jefferson Parish on the Independence Park Pump Station project. To quote Ken Dugas, P.E., Plaquemines Parish Public Works Director regarding Infinity's design of the \$16.5MM Ollie Drainage Pump Station Expansion ***"....Infinity worked on a variety of packages for PPG, but none more so than the Ollie Pump Station Expansion. They completed a very thorough drainage study to justify expanding the station....The addition was constructed with less than 2% overruns for change***

TEC Professional Services Questionnaire

orders....the station has performed, as designed, through several rain events and hurricanes...I would highly recommend Infinity for these types of projects....They've proven to be good stewards of public funds."



Ollie Drainage Pump Station Expansion

For the Ollie Drainage Pumping Station expansion, Infinity was the prime consultant in providing civil, structural, mechanical, and electrical engineering. The increased capacity of the drainage pump station **provided additional flood protection to over 3000 acres** across Plaquemines Parish. Infinity created designs for the addition of two (2) new 300 CFS drainage pumps, as well as the structural and electrical designs to implement such a facility expansion.

2) Size of firm considering the number of professional and support personnel required to perform the type of engineering tasks, including project evaluation, project design, drafting of technical plans, development of technical specifications and construction administration:

Infinity and our subconsultant's staff are more than adequate for completing the Independence Park Pump Station from project kick-off through final commissioning. Infinity has included following our TEC form a detailed organizational chart of the proposed team, including subconsultants. Infinity's full-time staff currently includes:

- (11) Professional Engineers
- (3) Engineering Interns
- (4) Engineering Graduates
- (9) AutoCAD Designers
- (3) Resident Inspectors
- (2) Advanced Measurements Technicians
- (4) Administrative Support Personnel

Total Firm Size: 36

Infinity's Professional Engineer and Engineering Intern team includes:

William Thomassie, P.E.	Principal Partner - Civil/Structural Engineer	Experience: 31 Years
Raoul Chauvin, P.E.	Principal Partner - Mechanical Engineer	Experience: 32 Years
Rachel Kenney, P.E.	Chief Engineer - Civil/Structural Engineer	Experience: 20 Years
Louis Jackson, P.E.	QA/QC Manager - Civil Engineer	Experience: 27 Years
Ricardo Contreras, P.E.	Project Manager - Civil Engineering Mgr.	Experience: 27 Years
Cindy Gallo, P.E.	Project Delivery Mgr. - Civil/Structural Engineer	Experience: 9 Years
Kevin Hurtt, P.E.	Civil Project Engineer	Experience: 5 Years
Michael Riviere, E.I.	Civil Project Designer	Experience: 34 Years
Jack Pokrywka, E.I.	Civil Project Designer	Experience: 2 Years
Laura Kelly, P.E.	Mechanical Engineering Manager	Experience: 13 Years
Stephen Gholston, P.E.	Mechanical Project Engineer	Experience: 21 Years
Brian Lauritsen, E.I.	Mechanical Project Designer	Experience: 4 Years
John Lawrence, P.E.	Principal Electrical Engineer	Experience: 33 Years
Matthew Torres, P.E.	Electrical Project Engineer	Experience: 6 Years

3) Capacity for timely completion of newly assigned work, considering the factors of type of engineering task, current unfinished workload, and person or firm's available professional and support personnel:

Infinity's current workload is well-suited to provide engineering support services to Jefferson Parish. At the time of submittal, Infinity has fourteen projects within the 75-100% construction completion, including Group B of street repairs to the Mid-City neighborhood, the Jefferson Parish W. Metairie Ave Restoration, Facility Planning & Control Bayou Segnette Drainage Pump Station, and S&WB West Power Complex. The completion of these projects will allow for

TEC Professional Services Questionnaire

Infinity's engineers to shift their focus towards the Independence Park Drainage Pump Station project, as the firm currently does not have a backlog of project work. Several of Infinity's designs are entering the final submittal phase.

Concerning Infinity's diligence to deliver on assigned tasks for major infrastructure projects, AECOM's Project Manager for the design of the Regional Transit Authority's Loyola and St. Claude streetcar projects, Bill Norquist, P.E. commented, *"The design of the new streetcar lines were high-profile projects for the New Orleans Regional Transit Authority (RTA) and for the City of New Orleans, and Infinity Engineering provided design and construction-phase design support for the preservation and/or relocation of the existing utilities within the new rail corridor. They worked efficiently and effectively to coordinate their design with local utility companies so that their utility engineering design could be implemented within the very tight schedule constraints of the project while minimizing the effects of the required changes on the public...The success of the Loyola Streetcar project was due, in part, to the exceptional design work by Infinity Engineering."*

4) Past Performance by person or firm on projects of or similar comparable size, scope, and scale:

Over Infinity's 20-year history, our firm has provided stormwater management and drainage systems designs for a wide array of municipalities. This experience has ranged from serving on as-needed professional services list to being the prime consultant for multi-million-dollar projects, including drainage pump stations, from project conception through the construction completion phase. Municipalities for which Infinity has provided professional services:

- Jefferson Parish
- Lafourche Parish
- St. John the Baptist Parish
- St. Charles Parish
- Plaquemines Parish
- Ascension Parish
- City of New Orleans
- Assumption Parish Police Jury
- City of Baton Rouge
- City of Slidell
- City of Covington
- St. Bernard Parish

Since Infinity's inception, we have worked closely with Jefferson Parish and our neighboring parishes to provide design services involving high-pressure/high-capacity pumps, subsurface drainage, discharge piping, electric panels, MCCs and switchgears. Infinity points to past successes as a token of our reputation as a responsible and capable technical resource for Jefferson Parish on this project.

Dalcour Water Treatment Plant – Infinity provided design for the restoration of the entire plant, post-Katrina. The project included the design of a new Raw Water System on the Mississippi River (hydraulic design of new raw water pumps, elevated walkway, building, power, and controls), sludge pumps, backwash pumps, and service pumps for distribution to the public. Infinity designed new elevated electrical switchgear and MCC to avoid future damage from flooding. Per former **Plaquemines Public Service Director, Bill Serpas**: Infinity was *"...very accommodating following the storm to restore these critical facilities. They were timely, receptive, efficient, and always available for the needs of the projects...proposals have fit the allowable budgets and design drawings have been delivered in a timely manner."*



Dalcour WTP Service Pumps and Manifold

5) Location of the principal office where work will be performed:

Infinity's main office is located in the **Fat City area of Metairie, LA**, just across Veterans Memorial Boulevard from the proposed drainage pump station location. Additionally, our three teaming partners are all Jefferson Parish based firms. Therefore, distance will not hinder our ability to perform appropriately on any projects. We have executed multi-million-dollar projects throughout Louisiana, Texas and as far away as Pennsylvania, and the Bahamas. More importantly, the communication between our office, our teaming partners, and the Jefferson Parish will determine the project's success. Infinity has a history of building strong relationships with our teaming partners.

6) Adversarial legal proceedings between the Parish and the person or firm performing professional services, in which the Parish prevailed or any ongoing adversarial legal proceedings between the Parish and the person of firm performing professional services, excluding those instances or cases where the person or firm was added as an indispensable party, or where the person or firm participated in or assisted the public entity in prosecution of its claim:

TEC Professional Services Questionnaire

Infinity is not involved in any adversarial legal proceedings with Jefferson Parish.

7) Prior successful completion of projects of the type and nature of the engineering services, as defined, for which firm has provided verifiable references:

As illustrated in Section L of this TEC Questionnaire, Infinity completed drainage, roadway and utility relocation/utility conflict resolution-related projects for Jefferson Parish and other local municipalities for over 20 years. Included in these projects have been special designs for scheduling and/or phasing of construction to accommodate conditions. Additional references for projects Infinity has completed include:

Per **Reda Youssef, P.E. former Jefferson Parish Director of Capital Projects**, *"Infinity Engineering Consultants has successfully completed the designs for the Wedmore and Bannerwood Drainage projects, as well as the design of the parish's new EOC tower. Their team is competent, easy to work with, and communicate well. I would highly recommend Infinity for these types of projects."*

All our projects are completed by, or under the direct supervision of a licensed engineer and based on his/her experienced subject matter. Per **Bill Rivera, P.E., Port of New Orleans Planning & Facilities Manager** on the design of a **new drainage pump station**, *"Infinity's design team assured the needs and goals of the Port for this project were fulfilled."*

Infinity's QA/QC procedure provides that all drawings and specifications are further checked before leaving our office. As far as our success completing projects in other cities/parishes, Infinity points to this recommendation from **Tim Mathison, former CAO-City of Slidell** regarding Infinity's design of Kostmayer and Sgt. Alfred Streets' Reconstruction: *"Both of these roadway projects were completed on time and within budget. Infinity's employees were professional, knowledgeable, and a pleasure to work with. They were responsible with the budget and cognizant of the needs of the City throughout both projects. I would recommend Infinity for their design capabilities, as well as their professional approach to project management."*


Closing Statement

Infinity's growth, resilience, and repeat business in the municipal and industrial sectors is proof of our reputation. We take great pride in that and expect to continue to build the same trust with Jefferson Parish. As stated above, the **Independence Park Drainage Pump Station** is an important project for Jefferson Parish. Its success will alleviate localized flooding and allow for safer roadways for the Jefferson Parish community.

In 2017, Infinity made an investment in Jefferson Parish by relocating our office from Orleans Parish and purchasing property along Division Street to house our staff. As such, our employees use and purchase services and goods in the Parish every day. The location of the Independence Park Pumping Station is practically within walking distance of Infinity's headquarters within the Fat City area.

Infinity Engineering recognizes the importance of the Independence Park Pumping Station project and has assembled the most qualified team to handle all aspects of design and construction administration. **Thank You** for taking the time to learn more about Infinity Engineering Consultants, LLC. We look forward to working with Jefferson Parish to continue to grow and enhance our community together.

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

Signature:  **Print Name:** Raoul V. Chauvin, III, P.E.
Title: Principal **Date:** August 29, 2024

Independence Park Drainage Pump Station Organizational Chart



Legend

- Infinity Engineering Consultants
- Horizon Engineering
- Bryant Hammett & Associates
- The Beta Group

William J. Thomassie, PE
Principal-in-Charge
Civil Engineering Advisor

Raoul V. Chauvin, III, PE
Principal-in-Charge
Drainage Pump Advisor

Ricardo Contreras, P.E.
Project Manager

Louis Jackson, P.E.
QA/QC Manager

Pump Station Design

Rachel Kenney, P.E.
Site Preparation - Civil

Laura Kelly, P.E.
Pumping Systems Design

John Lawrence, P.E.
Power Systems Design

Bart Lacombe
SCADA Systems Design

Additional Mechanical and Electrical Support

Stephen Gholston, P.E.*
Project Mechanical Engineer

Brian Lauritsen, E.I.*
Project Mechanical Designer

Matthew Torres, P.E.*
Project Electrical Engineer

*Resumes Available Upon Request

Cindy Gallo, P.E.
Project Delivery Manager/
Structural Design Integration

Pump Station Structural Engineering & H&H Calculations

Ben Bartlett, PE, PTOE
Structural Engineer

Brett Liuzza, PE
Structural Engineer

John Karlin, SE, PE
Structural Engineer

Drainage Conveyance Improvements

Robert Haydel
Drainage Systems Design

Michael Riviere, E.I.
Utilities Relocation Design

Additional Civil Support

Kevin Hurtt, P.E.*
Project Civil Engineer

Bryce Barrilleaux*
Project Civil Designer

Jack Pokrywka, E.I.*
Project Civil Designer

*Resumes Available Upon Request

Construction Administration

Rodney Ziegler
Resident Inspection

Topographic Surveys

Bryant Hammett, JR, PE, PLS
Owner/Manager

Hugh McCurdy, III, PLS
Professional Land Surveyor

Jeff Carey, CFM, PLS
Professional Land Surveyor

Jeff Dumestre, LSI
Survey Technician

Geotechnical Engineering

Murray White
President/Quality Assurance

Alex Jaramillo, P.E.
Geotechnical Engineer

Benjamin Kempton
Project Manager

Hannah Jenkins, E.I.
Project Engineer

Edward Lazier
Senior Driller

Independence Park Drainage Pump Station



Section II
Horizon Engineering, LLC.
TEC From

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

SOQ 24-029 – Independence Park Drainage Pump Station
Resolution No. 144443

B. Firm Name & Address:**Horizon Engineering, LLC**

1013 N. Causeway Blvd., Suite 201
Metairie, LA 70001

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

John Karlin, SE, PE
Co-Founder and Principal
jkarlin@horizonengineeringllc.com
(504) 270-1830

D. Name and contact information of employee who is a registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline.

Brett Liuzza, PE
bliuzza@horizonengineeringllc.com
(504) 270-1830

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

___ Administrative	___ Estimators	___ Specification Writers
___ Architects (Licensed)	___ Geologists	<u>1</u> Structural Engineers
___ Chemical Engineers	___ Geotechnical Engineers	___ Graduate Engineers
<u>2</u> Civil Engineers	___ Interior Designers	___ Project Managers
<u>4</u> Construction Inspectors	___ Landscape Architects	___ Clerical
___ Ecologists	___ Land Surveyor	___ Grant/Funding Specialist
___ Electrical Engineers	___ Mechanical Engineers	___ Sanitary Engineers
___ Engineer Intern	___ Environmental Engineers	<u>1</u> Other (Environmental Consultant)
___ Professional Land Surveyors		<u>8</u> TOTAL

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

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

TEC Professional Services Questionnaire

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

1. N/A

2. N/A

H. Has this JOINT-VENTURE previously worked together? Please check:

YES ☐ NO ☐ N/A

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

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

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

1

TEC Professional Services Questionnaire

K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e. resume) that demonstrates the employment history and experience of the Firm's key persons that may assist in the completion of this Project. Please attach additional pages if necessary.

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Brett Liuzza, PE
Co-Founder and Principal

Project Assignment:

Professional-in-Charge and Lead Civil Engineer

Name of Firm with which associated:

Horizon Engineering, LLC

Years' experience with this Firm:

1 year (16 years with other firms)

Education: Degree(s)/Year/Specialization:

Bachelor of Science, 2008, Civil Engineering

Active registration: Year first registered/discipline:

Louisiana PE, License No. 37753, 2013, Civil Engineer

Other experience and qualifications relevant to the proposed Project:

Work Zone Safety / Temporary Traffic Control Certifications

ATSSA Certified Traffic Control Supervisor (TCS), Technician (TCT), and Flagger; LaDOTD Traffic Engineering Process and Report (TEPR) Certification

Independence Park Drainage Pump Station Study

Owner: Jefferson Parish. **Scope:** Feasibility study and conceptual design of drainage pump station and associated intakes, force mains, pipes, structures, and outfalls. **Role:** Project Manager and Lead Civil Engineer. Led hydrologic and hydraulic modeling, analysis, and design. Reviewed Parish-wide drainage master plan and models to determine applicable drainage basin and affected drainage systems; performed preliminary hydrologic and hydraulic modeling and analysis; determined preliminary pump, wet well, intake, force main, and pipe sizes; prepared preliminary layouts of drainage intakes, force mains, pipes, structures, and outfalls; prepared opinions of probable construction cost; evaluated feasibility of multiple conceptual designs; and prepared report summarizing analyses and recommendations.

Widening of Causeway Boulevard (Airline Drive to West Napoleon Avenue)

Owner: Jefferson Parish. **Scope:** Widening of existing 4-lane roadway and area-wide drainage improvements (1.0 miles of roadway and drainage). **Cost:** ≈\$19,000,000 (est.). **Role:** Civil Engineer. Assisted with hydrologic and hydraulic design. Reviewed design of 15-inch to 72-inch RCP drainage system and tie-ins to surrounding drainage system. Designed sequence of construction and temporary traffic control plan while accounting for site-related challenges, such as significant traffic demands, limited right-of-way, congestion of existing drainage and utilities, and the need to sequence construction to minimize disruptions to traffic.

RR122 and RR123 Marlyville-Fontainbleau Groups G and H (FRC)

Owner: City of New Orleans. **Scope:** Roadway reconstruction, including drainage, sewer, and water lines and curbs, driveways, sidewalks and curb ramps. **Cost:** ≈\$23,000,000 (est.). **Role:** Project Manager and Lead Civil Engineer. Led roadway, drainage, and utility relocation design. Performed hydrologic and hydraulic analysis. Designed roadway, driveway, and sidewalk geometric layouts, asphalt pavement, concrete curb and gutter, 15" to 30" RCP, and sewer and water mains, valves, fittings, offsets, and house connections. Prepared plans, specifications, and opinion of probable construction cost. Led construction engineering and inspection. Managed inspectors; performed inspections; reviewed RFIs, submittals, and pay applications; prepared change orders; and prepared project closeout documentation.

TEC Professional Services Questionnaire

Brett Liuzza, PE (Continued)

MacArthur Interchange Completion

Owner: LaDOTD. **Scope:** Construction of entrance/exit ramps for Westbank Expressway and relocation of frontage road and associated utilities. **Cost:** ≈\$42,000,000. **Role:** Civil Engineer. Designed 15" to 48" RCP, 15" to 72" equivalent RCPA, 10" sewer force main relocation horizontally drilled underneath 4-lane roadway, and 8" water line relocation. Prepared plans, specifications, and opinion of probable construction cost.

Milneburg Group B (FRC) Streets

Owner: City of New Orleans. **Scope:** Replacement of roadway and drainage, sewer, and water lines. **Cost:** ≈\$7,400,000. **Role:** Project Manager and Lead Civil Engineer. Led roadway, drainage, and utility relocation design. Performed hydrologic and hydraulic analysis. Designed roadway, driveway, and sidewalk geometric layouts, asphalt pavement, concrete curb and gutter, 15" to 30" RCP, 18x11 to 51x31 RCPA, and sewer and water mains, valves, fittings, offsets, and house connections. Prepared plans, specifications, and opinion of probable construction cost. Led construction engineering and inspection. Managed inspectors; performed inspections; reviewed RFIs, submittals, and pay applications; prepared change orders; and prepared project closeout documentation.

Frisco Avenue Drainage Improvements

Owner: Jefferson Parish. **Scope:** Drainage improvements along Frisco Ave. to mitigate local flooding. **Role:** Civil Engineer. Designed site grading, drainage pipes and structures, and miscellaneous site features.

Seawall Erosion Control Paving Project (Reaches 1A-1C, 2A-2D, 3A-3C, 4, 5, and 5B)

Owner: SLFPA-E. **Scope:** Fortification of the Lake Pontchartrain seawall and roadway, drainage, and lighting improvements (5.2 miles long). **Cost:** ≈\$50,000,000. **Role:** Project Manager and Lead Civil Engineer. Led hydrologic and hydraulic modeling, analysis, and design and preparation of plans, specifications, and opinions of probable construction cost. Performed hydrologic and hydraulic modeling, analysis, and design; designed erosion control pavement geometric layout, tree preservation wall geometry, site grading, drainage pipes, drainage structures, drainage outfalls, and miscellaneous features; coordinated with USACE and CPRA; and prepared permit drawings for SLFPA-E, CPRA, and USACE. Led construction engineering and inspection. Managed inspectors; performed inspections; reviewed RFIs, submittals, and pay applications; prepared change orders; and prepared project closeout documentation.

Livingston Parish Planning Commission Drainage Reviews

Owner: Livingston Parish. **Scope:** Review of preliminary and final plats and drainage impact studies for Livingston Parish Planning Commission. **Role:** Civil Engineer. Reviewed site plans and drainage impact studies for commercial sites and residential subdivisions.

East Baton Rouge Parish School System Site Development

Owner: East Baton Rouge Parish. **Scope:** Design and construction of multiple schools throughout East Baton Rouge Parish. **Role:** Civil Engineer. Designed site grading, drainage pipes and structures, utility connections, and miscellaneous site features. Prepared Stormwater Management Plans, plans, specifications, and opinions of probable construction cost. Prepared permit applications and supporting documents and performed inspections.

Chevron North Park

Owner: Private. **Scope:** Construction of site drainage features (surface and subsurface drainage, detention ponds, weirs, etc.). **Role:** Civil Engineer. Performed hydrologic and hydraulic modeling, analysis, and design. Designed site grading, drainage pipes and structures, detention ponds, weirs, utility connections, and miscellaneous site features in accordance with LaDOTD and St. Tammany Parish drainage ordinances.

Residential Drainage Analysis

Owner: Private. **Scope:** Hydrologic and hydraulic modeling and analysis for various residential properties. **Role:** Civil Engineer. Developed HydroCAD and HEC-RAS models for existing and proposed drainage design.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Ben Bartlett, PE, PTOE Co-Founder and Principal
Project Assignment:
Civil Engineer
Name of Firm with which associated:
Horizon Engineering, LLC
Years' experience with this Firm:
1 year (15 years with other firms)
Education: Degree(s)/Year/Specialization:
Master of Civil Engineering, 2010, Civil Engineering Bachelor of Science, 2008, Civil/Environmental Engineering
Active registration: Year first registered/discipline:
Louisiana PE, License No. 38980, 2014, Civil Engineer PTOE, License No. 4020, 2016, Professional Traffic Operations Engineer
Other experience and qualifications relevant to the proposed Project:
<p>Work Zone Safety / Temporary Traffic Control Certifications ATSSA Certified Traffic Control Supervisor (TCS), Technician (TCT), and Flagger; LaDOTD Traffic Engineering Process and Report (TEPR) Certification</p> <p>Independence Park Drainage Pump Station Study Owner: Jefferson Parish. Scope: Feasibility study and conceptual design of drainage pump station and associated intakes, force mains, pipes, structures, and outfalls. Role: Civil Engineer. Reviewed Parish-wide drainage master plan and models to determine applicable drainage basin and affected drainage systems; performed preliminary hydrologic and hydraulic modeling and analysis; determined preliminary pump, wet well, intake, force main, and pipe sizes; prepared preliminary layouts of drainage intakes, force mains, pipes, structures, and outfalls; prepared opinions of probable construction cost; evaluated feasibility of multiple conceptual designs; and prepared report summarizing analyses and recommendations.</p> <p>Geisenheimer Canal Drainage Pump Station Study Owner: Jefferson Parish. Scope: Feasibility study and conceptual design of drainage pump station and associated force mains, pipes, structures, and outfalls. Role: Project Manager and Lead Civil Engineer. Reviewed Parish-wide drainage master plan and models to determine applicable drainage basin and affected drainage systems; performed preliminary hydrologic and hydraulic modeling and analysis; determined preliminary pump, wet well, force main, and pipe sizes and flowrates; prepared preliminary layouts of drainage force mains, pipes, structures, and outfalls; prepared opinions of probable construction cost; evaluated feasibility of multiple conceptual designs; and prepared report summarizing analyses and recommendations.</p> <p>Geisenheimer Canal Improvements (Loumor Outfall Ditch to Hoey's Canal) Owner: Jefferson Parish. Scope: Design of box culvert connecting Loumor Outfall Ditch and Woodvine Ditch to Hoey's Canal (12'x8' precast concrete boxes and 3 cast-in-place concrete junction boxes). Cost: ≈\$13,000,000 (est.). Role: Lead Civil Engineer. Led hydrologic and hydraulic modeling, analysis, and design. Reviewed Parish-wide drainage master plan and models to determine applicable drainage basin and affected drainage systems; designed geometry of junction box at Hoey's Canal to minimize turbulence; designed drainage pipes, drainage structures, and miscellaneous site features; and prepared opinions of probable construction cost.</p>

TEC Professional Services Questionnaire

Ben Bartlett, PE, PTOE (Continued)

W. Esplanade Bridges @ Duncan Canal

Owner: LaDOTD. **Scope:** Replacement of bridges with reinforced concrete box culverts (two 38' x 13' cells and two 14' x 8' cells). **Cost:** ≈\$14,000,000. **Role:** Lead Civil Engineer. Led hydrologic and hydraulic modeling (updated Jefferson Parish's East Bank drainage model), analysis, and design. Designed geometry of junction between Duncan Canal and Canal No. 2 to minimize turbulence and obtain a "No Rise" certificate; designed apron slab and wingwall geometry and drainage pipe connections; prepared opinions of probable construction cost; reviewed RFIs and submittals; and performed periodic site visits to assist with site specific challenges.

Widening of Causeway Boulevard (Airline Drive to West Napoleon Avenue)

Owner: Jefferson Parish. **Scope:** Widening of existing 4-lane roadway and area-wide drainage improvements (1.0 miles of roadway and drainage). **Cost:** ≈\$19,000,000 (est.). **Role:** Project Manager and Lead Civil Engineer. Led hydrologic and hydraulic design and preparation of plans, specifications, and opinion of probable construction cost. Designed 15-inch to 72-inch RCP drainage system, tie-ins to surrounding drainage system, sequence of construction, and temporary traffic control plan while accounting for site-related challenges, such as significant traffic demands, limited right-of-way, congestion of existing drainage and utilities, and the need to sequence construction to minimize disruptions to traffic.

West Esplanade Avenue Canal Crossing (Between Williams Boulevard and David Drive)

Owner: Jefferson Parish. **Scope:** Installation of ≈1,100 feet of 96-inch RCPA and a confluence box to transfer water from existing and future commercial developments and facilitate the installation of a crossing over the West Esplanade Canal (Canal No. 2). **Cost:** ≈\$730,000. **Role:** Project Manager, Lead Civil Engineer, and Lead Construction Engineer. Led hydraulic and hydrologic modeling, analysis, and design and preparation of plans, specifications, and opinions of probable construction cost. Designed grading, drainage pipes and structures, headwalls, wingwalls, U-turns, roadway drainage, and other miscellaneous improvements. Led construction engineering and inspection. Managed inspectors; reviewed RFIs, submittals, and pay applications; and prepared project closeout documentation.

Frisco Avenue Drainage Improvements

Owner: Jefferson Parish. **Scope:** Drainage improvements along Frisco Ave. to mitigate local flooding. **Role:** Project Manager and Lead Civil Engineer. Led hydrologic and hydraulic modeling, analysis, and design and preparation of plans, specifications, and opinions of probable construction cost. Designed site grading, drainage pipes and structures, and miscellaneous site features.

St. Charles Parish Drainage System and Ordinances Review

Owner: St. Charles Parish. **Scope:** Evaluation of St. Charles Parish's drainage system and drainage ordinances to determine the impact of various modifications being considered by the Parish Council. **Role:** Civil Engineer. Reviewed the Parish's existing drainage system, the Parish's drainage ordinances, a Parish Attorney's Opinion on drainage, an Attorney General's Opinion on drainage, as well as drainage ordinances and requirements for surrounding areas. Performed hydrologic and hydraulic modeling to illustrate the impacts that would result from proposed modifications to the Parish's drainage ordinances. Evaluated potential consequences associated with modifications to current drainage ordinances. Provided recommendations for modifications to the Parish's drainage ordinances.

Mandeville Shoreline Protection Study

Owner: City of Mandeville. **Scope:** Modeling and analysis of existing Mandeville drainage system and preparation of flood mitigation recommendations. **Role:** Civil Engineer. Modeled and analyzed existing drainage system considering effects of various Lake Pontchartrain water surface elevations; evaluated potential improvements, such as flood protection structures and pump stations; and prepared report summarizing flooding mitigation recommendations.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
John Karlin, SE, PE Co-Founder and Principal
Project Assignment:
Lead Structural Engineer
Name of Firm with which associated:
Horizon Engineering, LLC
Years' experience with this Firm:
1 year (7 years with other firms)
Education: Degree(s)/Year/Specialization:
Master of Science, 2017, Civil (Structural) Engineering Bachelor of Science, 2016, Civil Engineering
Active registration: Year first registered/discipline:
Louisiana PE, License No. 44795, 2020, Civil and Structural Engineer Illinois SE, License No. 081-008511, 2020, Structural Engineer
Other experience and qualifications relevant to the proposed Project:
<p>Work Zone Safety / Temporary Traffic Control Certifications ATSSA Certified Traffic Control Supervisor (TCS), Technician (TCT), and Flagger; LaDOTD Traffic Engineering Process and Report (TEPR) Certification</p> <p>Geisenheimer Canal Improvements (Loumor Outfall Ditch to Hoey's Canal) Owner: Jefferson Parish. Scope: Design of box culvert connecting Loumor Outfall Ditch and Woodvine Ditch to Hoey's Canal (12'x8' precast boxes and 3 cast-in-place concrete junction boxes). Role: Project Manager and Lead Structural Engineer. Led structural analysis and design and preparation of plans, specifications, and opinions of probable construction cost. Designed precast boxes, cast-in-place reinforced concrete junction box, and curved cast-in-place reinforced concrete transition section for HL-93 vehicular live load and other miscellaneous components.</p> <p>W. Esplanade Bridges @ Duncan Canal Owner: LaDOTD. Scope: Replacement of bridges with reinforced concrete box culverts (two 38'x13' cells and two 14'x8' cells). Cost: ≈\$14,000,000. Role: Structural Engineer. Designed reinforced concrete base slab, walls, pipe penetrations, top slab, columns, girder, wingwalls, and apron slab considering LADV-11 and HL-93 vehicular live load. Reviewed RFIs and submittals.</p> <p>West Esplanade Avenue Canal Crossing (Between Williams Boulevard and David Drive) Owner: Jefferson Parish. Scope: Installation of ≈1,100 feet of 96-inch RCPA and a confluence box to transfer water from existing and future commercial developments and facilitate the installation of a crossing over the West Esplanade Canal (Canal No. 2). Cost: ≈\$730,000. Role: Structural Engineer. Designed reinforced concrete headwalls, wingwalls, and apron slabs.</p> <p>Lakefront Airport Drainage Improvements – Phase 1 Owner: Lakefront Management Authority. Scope: Construction of a reinforced concrete reservoir (approximately 123'x43'x28' deep) for a future 600 CFS pump station. Role: Lead Structural Independent Technical Reviewer for pump station temporary retaining structure (TRS). Reviewed pump station TRS design and calculations and associated plans, specifications, geotechnical report, and construction phase geotechnical investigation information. Prepared independent calculations for approximate TRS force effects and TRS components, including sheeting, walers, and struts. Prepared report summarizing the independent technical review.</p>

TEC Professional Services Questionnaire

John Karlin, SE, PE (Continued)

Violet Siphon Intake Structure Repairs

Owner: Louisiana Coastal Protection and Restoration Authority (CPRA). **Scope:** Replacement of damaged siphon intake structure with steel support frame and warning piles in the Mississippi River. **Cost:** ≈\$250,000. **Role:** Lead Structural Engineer and Construction Engineer. Led structural analysis and design and preparation of plans, specifications, and opinions of probable construction cost. Performed inspections of siphon pipes and coordinated CCTV siphon pipe inspections. Designed steel support frame, support cables, steel warning piles, warning signs, navigation lighting, riprap, siphon pipe support repairs on levee, and other miscellaneous repairs considering hydrodynamic, debris impact, and wind forces. Assisted CPRA with the preparation of permit applications and coordination with USFWS. Managed inspectors; performed inspections; reviewed RFIs, submittals, and pay applications; prepared change orders; and prepared project closeout documentation.

Seawall Erosion Control Paving Project (Reaches 1A-1C, 2A-2D, 3A-3C, 4, 5, and 5B)

Owner: SLFPA-E. **Scope:** Fortification of the Lake Pontchartrain seawall and road, drainage, and lighting improvements (5.2 miles long). **Cost:** ≈\$50,000,000. **Role:** Structural Engineer and Construction Engineer. Designed pile and sheet piling layouts, grade beams, tree preservation walls, slabs, expansion joints, retaining walls, drainage outfalls, sheet pile pipe penetrations, and light foundations. Assisted with preparation of permit drawings for SLFPA-E, CPRA, and USACE for construction in proximity to existing Bayou St. John floodwalls. Performed reinforcement inspections; reviewed RFIs and submittals; and assisted with review of pay applications and preparation of change orders and project closeout documentation.

Belle Chasse Bridge and Tunnel Replacement (Public-Private Partnership Project)

Owner: United States Army Corps of Engineers (USACE)/LaDOTD. **Scope:** Replacement of 2-lane vertical lift Judge Perez Bridge and 2-lane Belle Chasse Tunnel with 4-lane fixed bridge over GIWW. **Cost:** ≈\$134,000,000. **Role:** Safety Assurance Review (SAR) Panel Lead Structural Reviewer. Led structural review in accordance with USACE SAR requirements. Visited site; reviewed plans, specifications, and structural analyses/calculations for vertical lift bridge demolition, tunnel decommissioning, and replacement of tunnel flood gates with permanent floodwalls considering the effect of construction on nearby existing levees and floodwalls; and identified potential public safety issues.

Nashville Avenue Wharf "A" Substructure Repairs Phase 2 (CMAR)

Owner: Port of New Orleans. **Scope:** Structural inspection and rehabilitation of 1960s wharf along Mississippi River (5,375 steel piles, approximately 1,000,000 square foot reinforced concrete deck, and 2,400 foot long reinforced concrete bulkhead). **Cost:** ≈\$25,000,000 (est.). **Role:** Project Manager and Lead Structural Engineer. Led above water and underwater inspections; structural analysis and design; preparation of plans, specifications, and opinion of probable construction cost; and coordination with CMAR contractor. Managed 10 inspectors and 4 divers. Evaluated CMAR contractor value engineering proposals. Designed pile bracing, coating of steel components, epoxy-grouted pile jackets, pile strengthening, partial and full depth deck repairs, and bulkhead repairs considering site-related challenges, such as fluctuating water levels, limited accessibility for equipment, and the need to sequence construction to minimize disruptions to Port NOLA's operations. Reviewed RFIs and submittals.

St. Andrew Street Wharf Erosion Mitigation Project

Owner: Port of New Orleans. **Scope:** Installation of bulkhead consisting of 50-foot long steel sheet pile wall and reinforced concrete pile cap and PCC pavement roadway repairs along the Mississippi River (1,600 feet long). **Cost:** ≈\$3,800,000. **Role:** Project Manager and Lead Construction Engineer. Led construction engineering and inspection. Managed inspectors; performed inspections; reviewed RFIs, submittals, and pay applications; prepared design modifications to accommodate field conditions; prepared change orders; and prepared project closeout documentation.

TEC Professional Services Questionnaire

L. Work by Firm or Joint-Venture members which best illustrates current qualifications relevant to this Project. Please include any and all work performed for Jefferson Parish. Please attach additional pages if necessary.		
PROJECT NO. 1		
Project Name, Location and Owner's contact information: <div style="text-align: center;"> Zellwood Station Phase 3 Zellwood, Florida </div> Zellwood Development Group, LLC 2893 Upland Ridge Chuluota, FL 32766 Steve MacGeorge (321) 356-1802 stevenmacgeorge@smacgeorge.com	Nature of Firm's Responsibility: The Zellwood Site consists of approximately 10.4 acres and is located on the east side of W. Orange Blossom Trail (US 441). The site will be developed to accommodate multiple commercial properties. Horizon Engineering, LLC (Horizon) prepared a conceptual planning study to investigate the subdivision of the site, drainage requirements, and improvements to access from US 441 and is currently completing a traffic study and the final design. Horizon's duties included: <ul style="list-style-type: none"> Review of site zoning information/maps, topographic and boundary surveys, traffic studies, and geotechnical investigations and reports. Preparation of preliminary site plans illustrating potential configurations of commercial lots within the site. Hydrologic and hydraulic modeling, analysis, and design to determine subsurface drainage and detention pond requirements for multiple configurations of the site. Coordination with the Florida Department of Transportation (FDOT) and Federal Aviation Administration (FAA). Investigation of potential improvements to access from US 441, including the feasibility of widening the existing shared driveway and adding new driveways, turn lanes, and/or a signalized intersection. Coordination and relocation of utilities. Permitting assistance. Preparation of final plans and specifications, including site grading, subsurface drainage, detention pond, widening of existing driveway, new driveway, new turn lanes, traffic signal, and other miscellaneous features. Construction support. 	
Completion Date (Actual or estimated):	Estimated Cost:	
October 2024 (estimated design completion date)	Entire Project: TBD	Work for which Firm was Responsible: \$126,000 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 2		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Independent Technical Review of Lakefront Airport Pump Station Temporary Retaining Structure Design New Orleans, Louisiana</p> <p>RNGD 1730 Tchoupitoulas Street New Orleans, LA 70130</p> <p>Stephen Abadie (504) 620-8022 sabadie@rngd.com</p>	<p>Horizon Engineering, LLC (Horizon) performed an independent technical review (ITR) of the Lakefront Airport pump station temporary retaining structure (TRS) design. The TRS is required to facilitate construction of an approximately 123'x43'x28' deep reinforced concrete reservoir for a future 600 CFS pump station. The TRS is used to stabilize a 45' deep excavation in soft clays outside of flood protection prior to construction of the seal slab and reservoir. Horizon reviewed the TRS design and calculations and associated plans, specifications, geotechnical report, and construction phase geotechnical investigation information. Horizon prepared independent calculations for approximate TRS force effects and TRS components, including sheeting, walers, and struts, and a report summarizing the independent technical review. Horizon is currently performing an additional ITR of modifications to the TRS design.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
September 2024	≈\$13,000,000	\$11,000 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p style="text-align: center;">Hogshead Road Temporary Facilities Apopka, Florida</p> <p>S.A. Casey Construction 2822 Commerce Park Drive, Suite 400 Orlando, FL 32819</p> <p>Shawn Casey (407) 240-6775 scasey@sacaseyconstruction.com</p>	<p>Horizon Engineering, LLC prepared site plans for the installation of temporary construction facilities on an approximately 3-acre site, including field office, utilities (including 28,000-gallon water tank), storage, and parking. The site plans were used to facilitate permitting for the project.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
May 2024	TBD	\$2,000 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p style="text-align: center;">Crescent City Brewhouse Structural Inspection for New Water Tank Installation</p> <p style="text-align: center;">New Orleans, Louisiana</p> <p>Crescent City Brewhouse 527 Decatur Street New Orleans, LA 70130</p> <p>Joel Zetzmann (504) 522-0571 joel@ccbno.com</p>	<p>Horizon Engineering, LLC performed a structural inspection and evaluation of the historic Crescent City Brewhouse building in the New Orleans French Quarter to determine whether the existing structure could support the installation of new water tanks on the fourth floor. The structural inspection and subsequent recommendations considered the material type, dimensions, configuration, and current condition of structural components, including timber decking, timber beams, brick masonry walls, steel girders, steel columns, masonry foundations, and reinforced concrete foundations.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
February 2024	N/A	\$1,000 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 5			
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:		
Staff Experience at Previous Employer	<p>We have the available capacity to quickly complete work and will make any awarded project our top priority. Although we have not completed any Jefferson Parish drainage projects yet as a firm, our engineering staff has nearly 40 years of combined experience delivering successful infrastructure projects across Louisiana, including numerous projects for Jefferson Parish. Our staff frequently worked together on major Jefferson Parish projects at their previous employer, including the Independence Park Drainage Pump Station Study. Please see the table below for a list of such projects and Sections K and N for additional information regarding the expertise and experience of our staff and the projects that they have worked on.</p>		
PROJECTS WORKED ON BY STAFF AT PREVIOUS EMPLOYER			
PROJECT	OWNER	CONSTRUCTION COST	KEY PERSONNEL INVOLVED
Independence Park Drainage Pump Station Study	Jefferson Parish	≈\$15,000,000 (est.)	Brett Liuzza and Ben Bartlett
Geisenheimer Canal Improvements (Loumor Outfall Ditch to Hoey's Canal)	Jefferson Parish	≈\$13,000,000 (est.)	John Karlin and Ben Bartlett
Widening of Causeway Boulevard (Airline Drive to West Napoleon Avenue)	Jefferson Parish	≈\$19,000,000 (est.)	Ben Bartlett and Brett Liuzza
Jefferson Parish Submerged Roadways Program	Jefferson Parish	≈\$50,000,000	Ben Bartlett and Brett Liuzza
Rehabilitation of Ramps 6, 7, and Overpass of Causeway Boulevard at Airline Drive	Jefferson Parish	≈\$13,000,000	John Karlin and Ben Bartlett
West Esplanade Avenue Canal Crossing (Between Williams Boulevard and David Drive)	Jefferson Parish	≈\$730,000	Ben Bartlett and John Karlin
W. Esplanade Bridges @ Duncan Canal	LaDOTD	≈\$14,000,000	Ben Bartlett and John Karlin
Relocation of East St. Bernard Highway and Associated Utilities	Port of New Orleans	≈\$50,000,000	Ben Bartlett, John Karlin, and Brett Liuzza
Lake Pontchartrain Seawall Area Erosion Control Paving	SLFPA-E	≈\$50,000,000	Brett Liuzza, Ben Bartlett, and John Karlin
Completion Date (Actual or estimated):	Estimated Cost:		
	Entire Project:	Work for which Firm was Responsible:	
N/A	N/A	N/A	

TEC Professional Services Questionnaire

M. List all prior and/or on-going litigation between Firm and Jefferson Parish. Please attach additional pages if necessary. None

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

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

Horizon Engineering, LLC (Horizon) is led by three Louisiana engineers with nearly 40 years of combined experience delivering successful infrastructure projects across the Gulf Coast region. Our principals have worked together for nearly 10 years and have an extensive and complementary skillset that encompasses civil, structural, and environmental engineering. Horizon is certified as a Small Entrepreneurship with Louisiana Economic Development's (LED) Hudson Initiative and certified by the LED Division of Small and Emerging Business Development as a Small and Emerging Business Enterprise.

Horizon's principals serve as our lead design and construction engineers and are always available to respond to Jefferson Parish's needs. All of our principals were born and raised in southern Louisiana (John Karlin was born and raised in Jefferson Parish) and care deeply about our region. Ben Bartlett and John Karlin are both current Jefferson Parish residents. We have a personal connection to our work and are extremely invested in the success of our projects.

KEY PERSONNEL

Ben Bartlett, PE, PTOE

Brett Liuzza, PE

John Karlin, SE, PE

Brett Liuzza and Ben Bartlett prepared the Independence Park Drainage Pump Station Study, which included H&H analysis and conceptual design, while at their previous employer and hope that they can also contribute to the final design and construction of this important project.

We are committed to quality and efficiency. Our goal is to help Jefferson Parish get the most out of their available budget. We leverage technology to minimize our overhead costs and maximize the productivity of our personnel.

Horizon's ability to satisfy each of the evaluation criteria is summarized below.

TEC Professional Services Questionnaire

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

1. Professional training and experience

Horizon's staff consists of highly educated, trained, and experienced civil, structural, and environmental engineers and inspectors. All of our engineers are licensed professional engineers in Louisiana and have completed graduate level coursework. Our personnel have a unique combination of experience in both design and construction, which enables us to identify potential constructability issues during the design phase and reduce the potential for costly change orders during construction.

Our professional development program ensures that our personnel remain up to date with the latest industry advancements, such as software, analysis/design methods, materials, and construction methods. We understand that work zone safety and the maintenance of traffic during construction are essential elements of a successful Jefferson Parish project. Each of our engineers are certified by the American Traffic Safety Services Association (ATSSA) as a Traffic Control Supervisor (TCS), Technician (TCT), and Flagger and the Louisiana Department of Transportation and Development (LaDOTD) for the Traffic Engineering Process and Report (TEPR).

Brett Liuzza, PE will serve as Horizon's Professional-in-Charge and Lead Civil Engineer and **Ben Bartlett, PE, PTOE** will serve as a Civil Engineer for this project. They performed hydrologic and hydraulic analysis and conceptual pump station design, as well as coordinated with Jefferson Parish and other stakeholders, for the Independence Park Drainage Pump Station Study project. They are also very familiar with Jefferson Parish's drainage master plans and models and have significant experience with various types of drainage projects across Jefferson Parish.

John Karlin, SE, PE will serve as Horizon's Lead Structural Engineer for this project. He will provide structural engineering support for the design and construction of the pump station, associated TRS, and other drainage features with significant gravity and/or lateral loads, such as box culverts, large pipes, and retaining walls.

2. Size of firm

Horizon has sufficient personnel to perform a variety of tasks, such as:

- Hydrologic and hydraulic modeling and analysis
- Conceptual planning and feasibility evaluation
- Design and preparation of plans and specifications, including the pump station and associated subsurface drainage
- Construction administration, including Request for Information (RFI), submittal, pay application, and construction schedule review
- Construction engineering and inspection, including resident inspection and structural inspection and evaluation

3. Capacity for timely completion of newly assigned work

We have the available capacity to quickly complete work and will make any awarded project our top priority.

4. Past performance by person or firm on Parish contracts

Horizon has not completed any Jefferson Parish projects yet as a firm; however, Horizon's personnel have worked on many Jefferson Parish drainage projects, such as:

- Independence Park Drainage Pump Station Study
- Geisenheimer Canal Drainage Pump Station Study
- Geisenheimer Canal Improvements (Loumor Outfall Ditch to Hoey's Canal)
- Widening of Causeway Boulevard (Airline Drive to West Napoleon Avenue)
- West Esplanade Avenue Canal Crossing (Between Williams Boulevard and David Drive)
- Frisco Avenue Drainage Improvements
- W. Esplanade Bridges @ Duncan Canal (LaDOTD project in Jefferson Parish)

We are more familiar with the Independence Park Drainage Pump Station project than anyone other than Jefferson Parish.

TEC Professional Services Questionnaire

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

Additionally, Horizon's personnel have successfully completed projects for numerous clients, such as:

- Jefferson Parish
- United States Army Corps of Engineers
- Louisiana Department of Transportation and Development
- New Orleans Regional Planning Commission
- Louisiana Coastal Protection and Restoration Authority
- Southeast Louisiana Flood Protection Authority – East
- Port of New Orleans
- Greater New Orleans Expressway Commission
- Lakefront Management Authority
- Sewerage and Water Board of New Orleans
- St. Charles Parish
- City of New Orleans
- City of Kenner
- City of Slidell
- City of Covington
- City of Mandeville
- Numerous private clients

Please see Sections K and L for additional information regarding the projects our personnel have worked on.

5. Location of the principal office

Horizon is a local small business. Our principal office is centrally located in Jefferson Parish at 1013 N. Causeway Blvd.; therefore, we can be at the project site in 5 minutes and the Yenni Building and the General Government Building in less than 15 minutes.

6. Adversarial legal proceedings

Horizon is not involved in and has never been involved in any legal proceedings with the Parish.

7. Prior successful completion of projects


Horizon has not completed many projects yet as a firm; however, Horizon's personnel have successfully completed many projects for Jefferson Parish and other clients throughout southeast Louisiana. If selected, our personnel will provide the same expertise and experience that they have on previously completed Parish projects. Please see Criterion 4, Past performance by person or firm on Parish contracts, and Sections K and L for additional information.

WHY SELECT HORIZON ENGINEERING, LLC?

- Our personnel (Brett Liuzza and Ben Bartlett) prepared the Independence Park Drainage Pump Station Study.
- We have a unique combination of design and construction experience.
- We are local and are very familiar with Jefferson Parish's drainage requirements.
- We have the available capacity to quickly complete work and will make any awarded project our top priority.
- We have a personal connection to our work and are deeply invested in the success of our projects. We care about our work and understand how critical Jefferson Parish's drainage system is to protecting our community.

We appreciate your consideration of our Statement of Qualifications and hope to partner with Jefferson Parish to deliver an exceptional project that improves the Independence Park neighborhood.

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

Signature:  Print Name: John Karlin, SE, PE
Title: Co-Founder and Principal Date: August 29, 2024

Independence Park Drainage Pump Station



Section III
Bryant Hammet & Associates, LLC.
TEC From

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Provide Engineering Services, Independence Park Pump Station, Resolution 144443

B. Firm Name & Address:

Bryant Hammett & Associates, LLC
1104 Dealers Avenue
Harahan, LA 70123

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

Bryant O. Hammett, Jr. PE/PLS
Owner/Manager
bhammett@bha-engineers.com
504-733-8004

D. Name and contact information of employee who is a registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline.

Hugh McCurdy, III, PLS
Professional Land Surveyor
hmccurdy@bha-engineers.com
504-733-8004

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

<u>3</u> Administrative	<u>0</u> Estimators	<u>0</u> Specification Writers
<u>0</u> Architects (Licensed)	<u>1</u> Geologists	<u>0</u> Structural Engineers
<u>0</u> Chemical Engineers	<u>0</u> Geotechnical Engineers	<u>0</u> Graduate Engineers
<u>2</u> Civil Engineers	<u>0</u> Interior Designers	<u>4</u> Project Managers
<u>6</u> Construction Inspectors	<u>0</u> Landscape Architects	<u>3</u> Clerical
<u>0</u> Ecologists	<u>8</u> Land Surveyor	<u>0</u> Grant/Funding Specialist
<u>0</u> Electrical Engineers	<u>0</u> Mechanical Engineers	<u>0</u> Sanitary Engineers
<u>0</u> Engineer Intern	<u>0</u> Environmental Engineers	
<u>3</u> Professional Land Surveyors		<u>30</u> TOTAL

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

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

TEC Professional Services Questionnaire

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

1.
NOT APPLICABLE

2.

H. Has this JOINT-VENTURE previously worked together? Please check:
YES ☐ NO ☐ NOT APPLICABLE

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

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

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

10 _____

TEC Professional Services Questionnaire

K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e. resume) that demonstrates the employment history and experience of the Firm's key persons that may assist in the completion of this Project. Please attach additional pages if necessary.

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Bryant O. Hammett, Jr.
Professional Engineer/Professional
Surveyor/Owner/Manager

Project Assignment:

Principal and registered professional land surveyor in Louisiana

Name of Firm with which associated:

Bryant Hammett & Associates, LLC

Years' experience with this Firm:

40

Education: Degree(s)/Year/Specialization:

BSCE/1978/Civil Engineering

Active registration: Year first registered/discipline:

1983/Professional Civil Engineer, LA	1996/Environmental Engineering, LA
1985/Professional Land Surveyor, LA	1985/Civil Engineering, MS

Other experience and qualifications relevant to the proposed Project:

Bryant O. Hammett, Jr. P.E./P.L.S. is the sole proprietor and principal of Bryant Hammett & Associates, LLC. He founded in 1984, providing engineering and land surveying services for sewer, water, gas, streets, landfill, and drainage projects for public bodies, as well as for the private sector.

He is a registered Professional Land Surveyor (PLS) and Civil Engineer (PE) in the state of Louisiana

Hammett has been the surveyor of record for numerous types of public works projects, including wastewater collection and treatment; water treatment, transmission and distribution; natural gas distribution and transmission; electrical transmission; oil transmission; off-system bridges; levee systems; construction servitudes; and roadway and drainage.

As infrastructure manager for the Louisiana Office of Community Development's Disaster Recovery Unit, Hammett performed and oversaw professional civil, structural and/or transportation engineering work related to the planning, design, development, construction, and maintenance of projects funded under the LCDBG/DRU program. Such projects included capital improvements, storm water and drainage systems, wastewater systems, potable water systems, natural gas systems, fire protection systems, roads, bridges and utility systems.

Hammett manages a staff of highly qualified, experienced and licensed engineers, surveyors, technicians, cost estimators, GIS managers, certified floodplain managers, administrators, disaster recovery subject matter experts, inspectors, CADD operators and clerical support.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Hugh 'Bud' McCurdy, III Professional Land Surveyor
Project Assignment:
QAQC Manager
Name of Firm with which associated:
Bryant Hammett & Associates, LLC
Years' experience with this Firm:
8
Education: Degree(s)/Year/Specialization:
non-degreed
Active registration: Year first registered/discipline:
1991/Professional Land Surveyor, LA
Other experience and qualifications relevant to the proposed Project:
<p>Mr. McCurdy is a registered land surveyor in Louisiana with over 50 years' experience in land surveying, beginning his career as a rodman in 1973. McCurdy works with multiple engineering consultants throughout Louisiana.</p> <p>He is involved in all aspects of boundary/property surveys for real estate transfer and the surveying required for engineering, rights-of-way acquisition, and construction projects, and is responsible for courthouse research and coordination of work.</p> <p>McCurdy has provided surveying services for oyster leases; pre- and post-dredging; construction projects, pipelines, accident sites, and boundary establishment. He is responsible for supervision of all field crew activities, drafting, property descriptions, plats, and all surveying-related operations.</p> <p>He conducts property surveys to establish rights-of-way, prepares legal descriptions for clients and attorneys. He has designed several subdivisions for development, providing surveys, preparation of plats, providing as-builts on all utilities, layout of sewer and drainage, and staking all utility structures,</p> <p>Mr. McCurdy has extensive experience in all aspects of surveying, including topographic, utility, boundary, hydrographic, ALTA survey, and resubdivisions.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Jeff Carey, PLS, CFM Professional Land Surveyor
Project Assignment:
Survey Manager
Name of Firm with which associated:
Bryant Hammett & Associates, LLC
Years' experience with this Firm:
12
Education: Degree(s)/Year/Specialization:
BS/2009/Disaster Management
Active registration: Year first registered/discipline:
2024/Professional Land Surveyor 2010/ASFPM Certified Floodplain Manager 2018/ATSSA Traffic Control Supervisory, Technician, Flagger 2012/Residential Contractor's License
Other experience and qualifications relevant to the proposed Project:
<p>Jeff Carey graduated from LSU in 2009 and began working with BHA in 2012. He is a registered Professional Land Surveyor (PLS.5334)</p> <p>As a ssurveyor for Bryant Hammett & Associates, Mr. Carey manages field work, collects data in the field and performs field-checking duties at project completion. He manages boundary and topographic surveys and all surveying activity required for engineering, rights-of-way, and construction projects.</p> <p>Carey is involved in the day-to-day management of all field crews and CADD technicians. He develops scopes and budgets for all projects, provides onsite instruction to crews, confers daily with management, and is the overall manager of ongoing projects.</p> <p>He is involved in all aspects of land surveying projects, including legal descriptions and elevation certificates. He has managed several projects from project execution to completion on numerous public works projects includeing roadway, drainage, sewerage and waterline projects. He also manages levee construction projects, property boundary surveys, cadastral surveys, topographic surveys, utility surveys, differential GPS real time surveys, hydrographic surveys, GPS static surveys for horizontal and vertical control, planimetric surveys, elevation surveys and subdivision layout.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Jeff Dumestre, LSI Survey Technician, CADD Drafter
Project Assignment:
Drafting
Name of Firm with which associated:
Bryant Hammett & Associates, LLC
Years' experience with this Firm:
3
Education: Degree(s)/Year/Specialization:
BS/2014/Geomatics
Active registration: Year first registered/discipline:
2022/Land Survey Intern 2022/ATSSA Traffic Control Supervisor, Technician, Flagger
Other experience and qualifications relevant to the proposed Project:
<p>Jeff Dumestre graduated from Nicholls in 2014, where he was President of the Geomatics Student Association. He is a registered Land Survey Intern (LSI.00746) and is a member of the Louisiana National Guard, where he has been a Field Artillery Surveyor and Technical Engineer.</p> <p>He has over 15 years' experience in the land surveying field and is certified in the Small Unmanned Aircraft System (drone), Certification 4535630.</p> <p>As a survey technician, Dumestre has led survey crews in Construction & Industrial Layouts/ Stakeouts, Topographic, DOTD, Drainage, Boundary surveys, Elevation Certificates, Slab surveys, No Work Affidavits, and ALTA surveys. He maintains and calibrates survey equipment, works with the field crews to introduce efficiencies in data collection, and uses drone technology to enhance deliverables.</p> <p>Dumestre provides computer-aided drafting and design for survey projects, including: drainage, roadway, waterline, levee and sewerage projects. He drafts levee surveys; hydrographic and topographic surveys; and rights-of-ways maps. He is proficient in Civil 3D drafting software.</p> <p>He has experience in the drafting required for all public works projects, as well as coastal restoration projects.</p>

TEC Professional Services Questionnaire

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

PROJECT NO. 1

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Avenue A. Drainage Improvements (2022-012-DR)</p> <p>Jefferson Parish</p> <p>Jefferson Parish Dept of Capital Projects 1221 Elmwood Park Blvd; Suite 906 Jefferson, LA 70123</p> <p>504-736-6833</p>	<p>BHA provided a topographic, utility and right of way survey of Avenue E and the intersecting side streets Iona, Hector, Betz, Vincent, and Stella, including outfall pipes in the 17th Street Canal and the overhead transmission line to aid in future drainage improvements.</p> <p>The retaining wall structure along the 17th St. Canal at the proposed outfall area was identified.</p> <p>Manhole inverts for drainage and sewerage lines were obtained in the field. BHA performed the necessary research and field work to identify the right-of-way along each street included within the project limits.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
November 2022	unknown	\$50,530

PROJECT NO. 2

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Independence Park Drainage Improvements</p> <p>Jefferson Parish, LA</p> <p>Jefferson Parish Dept of Capital Projects 1221 Elmwood Park Blvd; Suite 906 Jefferson, LA 70123</p> <p>504-736-6833</p>	<p>BHA performed a topographic, cross-section, and utility survey for approximately 4800' for the first phase of the Independence Park Drainage project in Metairie.</p> <p>BHA established horizontal and vertical reference points for the project; collected topographic features such as culverts, drains, inlets, pavements, trees, utility poles, curbs, heavily wooded areas, vegetation, property lines, driveways; cross sections were taken along the route every 50 feet and at parking lots. All utility features were identified, such as valves, hydrants, meters, utility poles, utility boxes, etc. and pipe data collected.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
March 2020	unknown	\$28,373

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
<p>Lincoln Manor Drainage Improvements Project</p> <p>Jefferson Parish, LA</p> <p>City of Kenner Jim Wilson, P.E. (MSMM) 4640 South Carrollton Ave; Ste 2200 New Orleans, LA 70119 (504) 509-7706</p>	<p>BHA provided surveying services for a two-phase drainage improvement project in Jefferson Parish in the Lincoln Manor subdivision.</p> <p>BHA established control points and benchmarks; collected topographic features such as culverts, drains, inlets, pavements, bushes, trees, perimeter outlines of heavily wooded areas, vegetation, utility poles, overhead electric, fences, curbs, driveways, etc. Cross-sections were collected every 50-feet.</p> <p>Utilities such as valves, hydrants, meters, utility poles, utility boxes, overhead electric lines, communication systems were collected. Inverts for drainage and sewerage lines were collected in the field. The type, size, and invert of the outfall pipes draining into Canal #13 were identified on the survey.</p>	
Completion Date (Actual or estimated)	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
June 2022	unknown	\$25,400

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Ormond Oaks/Primrose Drainage Project</p> <p>St. Charles Parish, LA</p> <p>St. Charles Parish Department of Public Works 100 River Oaks Drive Destrehan, LA 70047 (985) 783-5000</p>	<p>As part of an overall and ongoing parish drainage improvement project, BHA provided topographic, cross section, utility, and right-of-way surveying in the following areas of St. Charles Parish: 1) Primrose Canal from the Cousin Canal to the Blouin Canal and 2) Canal A, Carriage Canal and Dunleith Canal, Carriage Canal and Houmas Canal.</p> <p>Topographic data was collected at each headwall and to show erosion; cross sections were collected at 100-foot intervals; and all drainage culverts entering the canal were identified.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
November 2023	unknown	\$98,900

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Ridgelake Drive Drainage Improvements Jefferson Parish, LA Jefferson Parish Dept of Capital Projects 1221 Elmwood Park Blvd; Suite 906 Jefferson, LA 70123 504-736-6833	BHA provided a topographic, cross section, and utility survey for the Ridgelake Drive Drainage Improvements Project, located in Metairie, Louisiana. The length of the project along Ridgelake Drive is approximately 1,660 feet. Additionally, the survey extended 50 feet past the north and south ends of the project, and 50 feet past the apparent R/W lines down the intersecting streets. At the Ridgelake Drive / West Esplanade Canal intersection, the survey extended 100 feet east of the road centerline and 50 feet west of the roadway centerline. BHA recently provided a boundary survey of an area surrounding the proposed outfall pipe relocation along Ridgelake Drive and West Esplanade.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
June 2022	unknown	\$25,570

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
Sylvia Estates Pump Station St. Bernard Parish St. Bernard Parish Government Meyer Engineers 4937 Hearst St. Metairie, LA 504-885-9892	BHA completed a topographic and cross section survey performed for the Sylvia Estates Pump Station design in St Bernard Parish, Louisiana. The survey limits included the 40 Arpent Canal and the drainage canal that ties into the 40 Arpent from Highway 46, as well as the portion of the levee for the proposed pump station. BHA performed the necessary research, field work, and calculations to identify the property lines along the drainage canal running North/South between the 40 Arpent and Hwy 46. Any known servitudes along the drainage canal were noted on the survey. BHA provided a FEMA Elevation Certificate and a Certified Benchmark Certificate.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
September 2023	unknown	\$20,990

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Bonnabel Boulevard Drainage Improvements</p> <p>Jefferson Parish</p> <p>Jefferson Parish Department of Capital Projects 1221 Elmwood Park Blvd; Ste 906 Jefferson, LA 70123</p> <p>504-736-6779</p>	<p>BHA provided topographic, utility, and SUE surveying for this project. For approximately 1.5 miles, all utility information was collected including items such as valves, hydrants, meters, utility poles, utility boxes, overhead electric lines, communication systems, etc, as well as manhole inverts for drainage and sewerage lines.</p> <p>A SUE survey was performed to identify the location of only the 42" Sewer Force main in the grass alley between the intersection of Hesiod Street and the I-10 Service Road.</p> <p>After the best route was determined, BHA will completed the surveying for the selected route.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
January 2024	unknown	\$102,212

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Bainbridge Canal Closure and Roadway Improvements (2020-09-RBP)</p> <p>Jefferson Parish</p> <p>Gene Gillen, APTIM 2424 Edenborn Ave. Metairie, LA 70001</p> <p>504-832-4878</p>	<p>BHA performed a topographic, cross-section, and utility survey an area along the westbound lanes of Veterans Blvd. from Virginia to Bainbridge (not eastbound lanes), then continuing down Bainbridge to the entrance to the Airport, as well as the canal along Bainbridge Avenue.</p> <p>BHA collected topographic features such as culverts, drains, inlets, pavements, trees, utility poles, curbs, heavily wooded areas, vegetation, property lines, driveways.</p> <p>Cross sections were taken along the route and included shots across the drainage canal: top bank, toe of canal, centerline, water elevation, width of canal.</p> <p>All utility features were collected, such as valves, hydrants, meters, utility poles, utility boxes, etc. Manhole inverts for drainage and sewerage lines were obtained in the field for profile information. Apparent right-of-way information was shown.</p> <p>BHA has been providing right-of-way services for this project on an on-going bases.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
August 2024	unknown	\$49,287

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Crown Point Drainage Improvement Project</p> <p>Jefferson Parish, LA</p> <p>Lafitte Area Independent Levee District David Dupre, P.E. (MEL) ddupre@meyer-e-l.com (504) 231-2869</p>	<p>This project consisted of designing pumps stations and drainage improvements in the Crown Point area and vicinity. Design was completed for a 10-year storm event in accordance with Jefferson Parish Standards, and the drainage was tied into the existing drainage system.</p> <p>BHA completed a topographic, utility, and cross section survey in five different areas: Glisson Park Pump Station; Sharpe Road Pump Station; North Sharpe Road Drainage; South Sharpe Road Drainage; and Southwest Pump Station and Southwest Drainage Area.</p> <p>For each of the pump stations (150 X 300' each), topographic features were collected, including culverts, drains, ditches, pavements, trees, curbs, etc. Cross sections were collected at 50-ft intervals extending to the center of Bayou Barataria.</p> <p>The survey extended across North Sharpe Rd. from apparent right of way to apparent right of way, including the roadside ditches, all culverts, drains, etc. Cross sections were collected at 100-foot intervals. BHA recently performed a boundary survey to establish utility servitudes.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
September 2022	unknown	\$52,600

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>E. Rutland Street Drainage Improvements,</p> <p>St. Tammany Parish, LA</p> <p>City of Covington</p>	<p>BHA provided surveying services for the replacement of sub-surface drainage and the construction of new sub-surface drainage along East Rutland Street in Covington, LA. The project also included cold plane and overlay of Rutland Street and the replacement of a box culvert.</p> <p>BHA performed control surveys; established permanent benchmarks; collected spot elevations; located all above-ground structures, trees, wooded areas, power, communications, traffic systems, buildings, sidewalks, utilities; located soil bearing; located water and gas mains, central steam, and other utilities; collected location, depth, and direction of flow of sanitary sewers, combined sewers, storm sewers or drains, and culverts serving, or on, the property; location of catch-basins and manholes, and inverts of pipe at each; established rights of way of Rutland, Jahncke, Vermont, and Massachusetts Streets</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018	unknown	\$10,900

TEC Professional Services Questionnaire

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

Parties:		Status/Result of Case:
Plaintiff:	Defendant:	
1. NOT APPLICABLE	NOT APPLICABLE	

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

1. Professional Training and Experience :

Bryant Hammett & Associates, LLC (BHA) is a Louisiana-based firm specializing in civil engineering, land surveying, disaster management, and construction supervision. Established on August 1, 1984, BHA has expanded from a small four-member team to over 30 employees, serving both governmental and private clients across the Gulf South region. Our offices are strategically located in Jefferson, East Baton Rouge, Plaquemines, and Concordia parishes.

With over 40 years of experience, BHA has been a cornerstone in providing comprehensive civil engineering and land surveying services throughout Louisiana. Our registered professionals have decades of experience in public works projects including sewerage, water, roadway and drainage projects.

BHA employs professional civil engineers, professional land surveyors, a land surveyor-in-training, certified floodplain managers, a certified public accountant, draftsmen, construction managers and inspectors, and several support and administrative personnel. (see resumes)

2. Size of Firm

Bryant Hammett & Associates has grown from a small four-member firm in 1984 to 30 full-time employees today.

BHA employs two licensed Professional Engineers, three licensed Professional Land Surveyors, one licensed Land Survey Intern, a civil engineer (not licensed), multiple survey field crews, HMGP Subject-Matter Experts, several construction managers and inspectors, as well as multiple support staff. BHA's CADD Technicians have over 40 years of combined experience in producing 3D planimetric drawings, topographic and contour maps, right-of-way maps, boundary plats, cross section diagrams and field data points.

3. Capacity for Timely Completion:

Based on current and projected project workloads and schedules, BHA has the capacity to allocate necessary resources and manpower promptly. We currently have professional and support personnel readily available to deliver required services and can initiate them upon authorization to proceed. Our flexible staffing model allows us to scale up or down as needed for both large and small task orders.

No project in which BHA has been involved has been jeopardized because of failure to meet schedules. BHA has not been involved in any projects that were jeopardized because of cost overruns, or because inadequate designs were rejected by parish, state, or federal review agencies.

TEC Professional Services Questionnaire

4. Past Performance on Parish Contracts

BHA has been providing professional services to Jefferson Parish since 2012.

BHA routinely provides surveys directly to Jefferson Parish through our As-Needed Surveying contract. 2024 surveying projects include Fagot & Metairie Lawn Lift Station; Colonial Club Drainage Ditch; Metairie Road Decorative Street Lighting; Harvey WWTP; and BHA has completed over 16 surveys for the current Waterline Replacement Program with nine additional in contracting.

BHA is currently providing professional services for the Parish-wide Manhole Assessment and Lining Program, Phase 1 and 2.

Jefferson Parish has actively participated in HMGP and HMA Funding since 2006. BHA personnel have been involved with Jefferson Parish in over \$258 million in funding grants for the home elevation program, in response to Hurricanes Katrina, Rita, Gustav, Ike, Isaac, and Ida in the cities of Kenner, Gretna, Harahan, Westwego, Grand Isle, Jean Lafitte, Metairie, Marrero, River Ridge, Harvey, Barataria.

BHA recently managed Jefferson Parish's Disaster Recovery Homeowner Repair Program for Residential Properties through the Office of Community Development, where the construction supervision of approximately 160 individual properties was managed, including the monitoring of plans and construction to ensure compliance with applicable federal, state, and local guidance.

5. Location of Principal Office

All work will be performed out of our Harahan, LA office.

6. Litigation between the Public Entity and Firm:

BHA has no prior, on-going, or anticipated litigation with Jefferson Parish

7. Prior successful completion surveys for drainage project

BHA surveyors have extensive experience in the surveying required to support drainage and roadway infrastructure design and improvements, having performed the surveying required for complete subdivision designs, master drainage plans, lift station construction and relocation, force main installation and relocation, grading plans, and drainage studies. Topographic surveys completed to capture the terrain, vegetation, drainage patterns, ground elevations, improvements, pavements, culverts, manholes, ground slopes, ditches, roadways and utilities that are existing. These topographic surveys aid the design work which could include grading plans, roadway designs, drainage system designs, utility layout, pump station installation, and landscaping plans.

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

Signature: _____



Print Name: Elizabeth Tanner, CPA

Title: Manager

Date: August 23, 2024

Independence Park Drainage Pump Station



Section IV **The Beta Group** **TEC From**

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Independence Park Drainage Pump Station #24-029

B. Firm Name & Address:

The Beta Group Engineering and Construction Services, LLC
1428 1/2 Claire Ave
Gretna, LA 70053

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

Alex Jaramillo, P.E.
Geotechnical Engineer
alexj@betagroupgc.com
504-227-2273

D. Name and contact information of employee who is a registered and licensed architect, professional engineer, or surveyor in the State of Louisiana in the applicable discipline. A subcontractor may be substituted here only if the advertised Project requires more than one discipline.

Alex Jaramillo, P.E.
Geotechnical Engineer
alexj@betagroupgc.com
504-227-2273

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

<u>4</u> Administrative	<u>1</u> Estimators	<u> </u> Specification Writers
<u> </u> Architects (Licensed)	<u> </u> Geologists	<u> </u> Structural Engineers
<u> </u> Chemical Engineers	<u>2</u> Geotechnical Engineers	<u> </u> Graduate Engineers
<u>1</u> Civil Engineers	<u> </u> Interior Designers	<u>4</u> Project Managers
<u>15</u> Construction Inspectors	<u> </u> Landscape Architects	<u>3</u> Clerical
<u> </u> Ecologists	<u> </u> Land Surveyor	<u> </u> Grant/Funding Specialist
<u> </u> Electrical Engineers	<u> </u> Mechanical Engineers	<u> </u> Sanitary Engineers
<u>1</u> Engineer Intern	<u> </u> Environmental Engineers	
<u> </u> Professional Land Surveyors		<u>31</u> TOTAL

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

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

TEC Professional Services Questionnaire

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

1.

2.

H. Has this JOINT-VENTURE previously worked together? Please check:

YES ☐ NO ☐

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

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

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

TEC Professional Services Questionnaire

K. List the professional in charge, key persons, specialists, and individual consultants anticipated for this Project and provide their relevant information below. If necessary, please attach additional documentation (i.e. resume) that demonstrates the employment history and experience of the Firm's key persons that may assist in the completion of this Project. Please attach additional pages if necessary.

PROFESSIONAL IN CHARGE OF PROJECT:

Name & Title:

Murray White
President/ Quality Assurance

Project Assignment:

Quality Assurance

Name of Firm with which associated:

The Beta Group Engineering and Construction Services

Years' experience with this Firm:

27 years with The Beta Group

Education: Degree(s)/Year/Specialization:

1991-1994, coursework, University of Mississippi
1994-1995, coursework, Nicholls State University

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Mr. White has served as President of Beta since 1999. In his years with the firm, he established and maintained an appropriate quality assurance program at various levels of the organization. He has performed all required inspections and tests to maintain quality control and assure compliance to specifications, codes, and standards on multiple projects. Further, Mr. White established and maintained equipment calibration procedures and records, and provided detailed inspection procedures for various projects. In his career, Mr. White served as a Field Technician with another firm. He performed all necessary inspections and tests required to maintain quality control and assure adherence to project specifications, codes, and standards. He also dispatched inspectors to requested project sites to perform numerous tasks for contractors

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Alex Jaramillo, P.E.
Project Assignment:
Geotechnical Engineer
Name of Firm with which associated:
The Beta Group Engineering and Construction Services
Years' experience with this Firm:
11 with The Beta Group 16 with other firms
Education: Degree(s)/Year/Specialization:
B.S./1999/Civil Engineering, University of New Orleans
Active registration: Year first registered/discipline:
2011, Civil Engineering, Louisiana No. 36324
Other experience and qualifications relevant to the proposed Project:
Mr. Jaramillo is responsible for: All geotechnical activities including performing subsoil explorations, completion of soils laboratory testing, geotechnical analyses for projects and completion of the geotechnical report; Preparation, presentation and management of scope, budget, and work plan; Review daily field inspection reports for accuracy and completeness; Monitor the soil laboratory activities; Coordinate logistics; Supervise and interpret field & laboratory testing/data for use in engineering analyses; Ensure services provided are technically satisfactory and effective; Monitor that the project goals and quality objectives are being provided; Responsible for routine communication with client during the project; Prepare and review technical reports and ensure on-time delivery.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Benjamin Kempton Project Manager
Project Assignment:
Geotechnical Project Manager
Name of Firm with which associated:
The Beta Group Engineering and Construction Services
Years' experience with this Firm:
13 years with The Beta Group
Education: Degree(s)/Year/Specialization:
N/A
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
Mr. Kempton has over 13 years of experience in the Geotechnical Investigation field. In his time at The Beta Group, he has served as the Geotechnical Project Manager and is responsible for the following: all Geotechnical activities including performing subsoil explorations, preparation, presentation and management of scope, budgets and work plan, coordinating logistics such as staffing and sub-consultants, ensuring services provided are technically satisfactory and effective, monitor that project goals and objectives are being provided, routine communication with clients during duration of projects, supervise, train, and mentor personnel in company procedures, prepare technical reports and ensure on-time delivery of the reports, troubleshoot project issues and conflicts.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Hannah Jenkins, E.I. Project Engineer
Project Assignment:
Project Engineer
Name of Firm with which associated:
The Beta Group Engineering and Construction Services
Years' experience with this Firm:
3 years with The Beta Group
Education: Degree(s)/Year/Specialization:
B.S./2022/Civil Engineering, University of New Orleans
Active registration: Year first registered/discipline:
2022, Civil Engineering, Louisiana No. 0035175
Other experience and qualifications relevant to the proposed Project:
Ms. Jenkins has worked as a Geotechnical Engineer since May of 2022 after completing her Internship which began September 2021. In her time at The Beta Group she performs analyses including, but not limited to Deep Foundation Design, Lateral Pile Analyses, Pavement Design, Seepage Analyses, Settlement Analyses, Sheet Pile Analyses, Slope Stability, Time Rate Analyses. She has worked with a variety of clients to perform analyses under the respective standards and regulations required at State and Local levels. She also writes proposals, fee schedules, and reports to be delivered to clients. To prepare reports and perform various analyses, she has gained experience with gINT and other geotechnical programs. She also has hands-on experience testing materials in the Materials Testing Lab and logging soil samples in the field.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Edward Lazier
Project Assignment:
Senior Driller
Name of Firm with which associated:
The Beta Group Engineering and Construction Services
Years' experience with this Firm:
11 with The Beta Group 9 with other firms
Education: Degree(s)/Year/Specialization:
N/A
Active registration: Year first registered/discipline:
N/A
Other experience and qualifications relevant to the proposed Project:
Mr. Lazier conducts and oversees the site investigation/ geotechnical drilling. He also maintains a water well contractor's license through the Louisiana Department of Energy and Natural Resources. Mr. Lazier has overseen drilling operations for various projects including roadways, marshes, and wooded areas.

TEC Professional Services Questionnaire

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

PROJECT NO. 1		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Proposed Sylvia Estates Pump Station Adjacent to Rue Terre Aux Boeufs & HWY. 46 (Violet, Louisiana)</p> <p>Meyer Engineers, Ltd. 4937 Hearst St. Suite 1B Metairie, LA 70001</p>	<p>The Beta Group explored the subsurface conditions and provided geotechnical design recommendations for the project, site preparation, earthwork, and quality control measures. The drill crew took two undisturbed soil borings to 100ft below the surface. Samples from each bore underwent the following laboratory tests: Atterberg limits, unconfined compression tests, unit weight determination, natural moisture content, sieve analysis. The following analyses were performed: deep foundation, pile load capacities, and settlement. Design recommendations were given for sheet pile walls, roadways, and quality control.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2023		\$17,500

PROJECT NO. 2		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Proposed Timberview Ln. Sewer Pump Station (Harvey, LA)</p> <p>Jefferson Parish Dept. of Capital Projects 1221 Elmwood Park Blvd, Suite 906 Jefferson, LA 70123</p>	<p>The Beta Group explored the subsurface conditions and provided geotechnical design recommendations for the project, site preparation, earthwork, and quality control measures. The drill crew took one undisturbed soil borings to 80ft below the surface. Samples from each bore underwent the following laboratory tests: Atterberg limits, unconfined compression tests, unit weight determination, natural moisture content, sieve analysis. The following analyses were performed: deep foundation, pile load capacities, and settlement. Design recommendations were given for pavement, roadways, and quality control.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2022		\$4,200

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility	
<p>Proposed Highway 45 Pump Station HWY. 45 (Lafitte, LA)</p> <p>ECM Consultants, Inc. 1301 Clearview Pkwy Suite 200 Metairie, LA 70001</p>	<p>The Beta Group explored the subsurface conditions and provided geotechnical design recommendations for the project, site preparation, earthwork, and quality control measures. The drill crew took one undisturbed soil borings to 100ft below the surface. Samples from each bore underwent the following laboratory tests: Atterberg limits, unconfined compression tests, unit weight determination, natural moisture content, sieve analysis. The following analyses were performed: deep foundation, earth pressure, pile load capacities, and settlement. Design recommendations were given for excavation and construction quality control.</p>	
<p>Completion Date (Actual or estimated)</p> <p>2023</p>	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
		\$20,000

PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Proposed Carmelite Pump Station & Drainage Improvements (Jones Point, LA)</p> <p>Aims Group, Inc. 4421 Zenith St Metairie, LA 70001</p>	<p>The Beta Group explored the subsurface conditions and provided geotechnical design recommendations for the project, site preparation, earthwork, and quality control measures. The drill crew took one undisturbed soil borings to 100ft below the surface and four borings to a depth of 20ft.. Samples from each bore underwent the following laboratory tests: Atterberg limits, unconfined compression tests, unit weight determination, natural moisture content, sieve analysis. The following analyses were performed: deep foundation, pile load capacities, and settlement. Design recommendations were given for sheet pile wall, backfill material, excavation, and construction quality control.</p>	
<p>Completion Date (Actual or estimated):</p> <p>2021</p>	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
		\$8,300

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Proposed Trahan Pump Station (Jones Point, LA)</p> <p>Evans-Graves Engineers, Inc. 909 Poydras St. Suite 3050 New Orleans, LA 70112</p>	<p>The Beta Group explored the subsurface conditions and provided geotechnical design recommendations for the project, site preparation, and quality control measures. The drill crew took one undisturbed soil borings to 100ft below the surface. The bore sample underwent the following laboratory tests: Atterberg limits, unconfined compression tests, unit weight determination, natural moisture content, sieve analysis. The following analyses were performed: deep foundation, pile load capacities, and settlement. Design recommendations were given for sheet pile walls and construction quality control.</p>	
<p>Completion Date (Actual or estimated):</p> <p>2022</p>	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
		\$7,000

PROJECT NO. 6		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Proposed Gloria Dr. Pump Station, Generator Facility, & Bulkhead (Lafitte, LA)</p> <p>BBEC, LLC. 209 Canal St. Metairie, LA 70005</p>	<p>The Beta Group explored the subsurface conditions and provided geotechnical design recommendations for the project, site preparation, and quality control measures. The drill crew took one undisturbed soil borings to 100ft below the surface. The bore sample underwent the following laboratory tests: Atterberg limits, unconfined compression tests, unit weight determination, natural moisture content, sieve analysis. The following analyses were performed: deep foundation, pile load capacities, pile driving recommendations, and settlement. Design recommendations were given for a bulkhead located next to proposed pump station and construction quality control.</p>	
<p>Completion Date (Actual or estimated):</p> <p>2021</p>	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
		\$5,300

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Proposed 25th St. Pumping Station and Canal Improvements (Gretna, LA)</p> <p>Burk Kleinpeter, Inc. 4176 Canal St. New Orleans, LA 70119</p>	<p>The Beta Group explored the subsurface conditions and provided geotechnical design recommendations for the project, site preparation, and quality control measures. The drill crew took seven undisturbed soil borings to depths of 100ft., 80ft., 50ft., and 40ft. below the ground surface in the general area of the proposed projects. The bore sample underwent the following laboratory tests: Atterberg limits, unconfined compression tests, unit weight determination, natural moisture content, sieve analysis. The following analyses were performed: deep foundation, pile load capacities, settlement, pile driving, earth pressure, and slope stability. Design recommendations were given for construction excavation, sheet pile wall, bedding and fill material, pavement, and construction quality control.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2024		\$21,500

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Proposed Crown Point Drainage Improvements (Glisson Park Pump Station, Sharpe Rd. Pump Station, North Sharpe Road Drainage, and South Sharpe Road Drainage) (Crown Point, LA)</p> <p>Meyer Engineers 4937 Hearst St. Suite 1B Metairie, LA 70001</p>	<p>The Beta Group explored the subsurface conditions and provided geotechnical design recommendations for the project, site preparation, and quality control measures. The drill crew took 8 undisturbed soil borings to depths of 100 ft. and 25 ft. below the ground surface in the general area of the proposed projects. The bore sample underwent the following laboratory tests: Atterberg limits, unconfined compression tests, unit weight determination, natural moisture content, sieve analysis. The following analyses were performed: deep foundation, pile load capacities, estimated settlement, pile driving, sheet pile wall, and soil bearing capacity. Design recommendations were given for construction excavation, bedding and backfill material, and construction quality control.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020		\$19,400

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Proposed Orange Lane Pump Station (Grand Isle, LA)</p> <p>Aims Group, Inc. 4421 Zenith St. Metairie, LA 70001</p>	<p>The Beta Group explored the subsurface conditions and provided geotechnical design recommendations for the project, site preparation, and quality control measures. The drill crew took one undisturbed soil borings to a depth of 100 ft. below the ground surface in the general area of the proposed project. The bore sample underwent the following laboratory tests: Atterberg limits, unconfined compression tests, unit weight determination, natural moisture content, sieve analysis. The following analyses were performed: deep foundation, pile load capacities, estimated settlement, pile driving, and construction excavation. Design recommendations were given for bedding and backfill material, construction quality control, and sheet pile walls.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2023		\$7,500

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Proposed Upper LA-45 Surge Protection Pump Station (Lafitte, LA)</p> <p>Aims Group, Inc. 4421 Zenith St. Metairie, LA 70001</p>	<p>The Beta Group explored the subsurface conditions and provided geotechnical design recommendations for the project, site preparation, and quality control measures. The drill crew took one undisturbed soil borings to a depth of 100 ft. below the ground surface in the general area of the proposed project. The bore sample underwent the following laboratory tests: Atterberg limits, unconfined compression tests, unit weight determination, natural moisture content, sieve analysis. The following analyses were performed: deep foundation, pile load capacities, estimated settlement, and pile driving. Design recommendations were given for bedding and backfill material, construction excavation, bulkhead, construction quality control. Additional design analysis was performed for the construction of a flood wall on the west side of the proposed pump station.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020		\$5,000

TEC Professional Services Questionnaire


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

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

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

The Beta Group (TBG) has provided geotechnical investigations for over 10 years throughout the Greater New Orleans Area for a large variety of projects. TBG has the ability to drill soil bores in roadways, grassy fields, wooded areas, marshes, and open water. All drilling operations are conducted and supervised by experienced drillers and project manager.

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

Signature:  Print Name: Murray White
 Title: President Date: 08/ 26 /2024

Independence Park Drainage Pump Station



Section V Reference Letters

Office of the Lieutenant Governor
State of Louisiana

BILLY NUNGESSER
LIEUTENANT GOVERNOR



P. O. Box 44243
BATON ROUGE, LOUISIANA 70804-4243
(225) 342-7009

May 10, 2016

To Whom It May Concern:

During my two terms as Plaquemines Parish President from 2007-2015, my administration worked to overcome the devastation caused by Hurricanes Katrina, Rita, Gustav and Isaac. Most of the lower Parish's water and wastewater treatment facilities, sewer lift stations, and water booster stations were severely damaged due to submergence in several feet of salt water for many weeks. Many of the Parish's buildings were severely damaged or destroyed by wind and waves from those same storms.

Based on our familiarity with Infinity Engineering through their design of the \$16MM parish-funded Ollie Drainage Pump Station, the Parish contracted with them to aide in our recovery. With millions of federal (FEMA) funding at stake, and the technical requirements necessary for the rebuilding, we had the confidence in this firm to provide the expertise necessary and the strong financial ethics to responsibly utilize public funds.

Through the process, Infinity was accommodating, cooperative, and respectful of the Parish's needs in a time of crisis. My directors relayed that their designs were completed in a timely manner. I always felt Infinity was pleasant to work with and was committed to providing Plaquemines Parish with the best possible service.

I would recommend Infinity Engineering.

Sincerely,

A handwritten signature in blue ink, appearing to read "Billy Nungesser".

William "Billy" Nungesser
Past Plaquemines Parish President
Current State of Louisiana Lieutenant Governor

WHN/lcs



June 15, 2018

To Whom It May Concern:

The Port of New Orleans is a deep-draft multipurpose port and maintains property and infrastructure along several miles of the Lower Mississippi River and along the Inner Harbor Navigation Canal (IHNC). Port infrastructure includes wharves-40 berths for shipping, 20 million square feet of cargo-handling area, transit sheds, railroads, bridges, various cargo transfer and loading facilities, and more than 3.1 million square feet of covered storage area, plus square passenger cruise terminals and parking facilities.

We employ consulting engineers on a variety of projects requiring a broad range of disciplines including civil/structural, mechanical, electrical, and instrumentation for professional services.

As the Port's Mechanical & Electrical Engineering As-Needed services firm, Infinity Engineering Consultants was assigned the restoration of Patterson Drainage Pump Station. The purpose of this station is to provide emergency drainage capacity for the Port's properties along the western IHNC.

Infinity's engineers provided detailed design and bidding and construction documents for the replacement of (2) vertical turbine-type pumps and motors, sizing and specification of a diesel generator, extension of the support platform, and new switchgear and controls. Their engineers also provided construction and administration services and quality control during construction of the project.

Infinity's design team performance assured the needs and goals of the Port for this project were fulfilled. The negotiated fee was fair and reasonable; their engineers were always accessible and were efficient and timely in the delivery of their work product. The station is currently operating as designed.

Infinity performed and met their responsibilities and displayed professionalism throughout our contract. They have been professional and pleasant to work with and committed to doing a good job. We are pleased to recommend Infinity Engineering Consultants, LLC and anticipate continued work with them.

Sincerely,

William Rivera, P.E.
Planning and Facilities





"RE-BUILDING THE CITY'S WATER SYSTEMS FOR THE 21ST CENTURY"

Sewerage & Water Board OF NEW ORLEANS

625 ST. JOSEPH STREET
NEW ORLEANS, LA 70165 • 504-529-2837 OR 52W-ATER
www.swbno.org

February 23, 2021

Re: Rodney Ziegler – Resident Inspector

To Whom It May Concern:

The Sewerage & Water Board typically contracts with firms to supply a Resident Inspector to observe activities at a construction site. In this case, the project site was Drainage Pump Station 17/Station D at the S&WB's Central Yard. Construction included several critical areas of the building originally built in 1898.

The structural rehabilitation of this historic masonry station required a unique proprietary system of steel cross stitching, the addition of large bore stainless steel enhancement bars and grouting the walls solid from the inside out. Structural steel was added to tie in the new enhancements to the existing roof truss system, the roof diaphragm reinforced, and a new roof installed.

Throughout the process, Mr. Ziegler showed a clear understanding of the contract requirements and the processes involved. He provided continuous, clear reports and communications to the design team to be able to understand construction issues and conditions. This was instrumental, as it kept the project moving in a timely manner.

At this drainage pump station, it is imperative that S&WB equipment remain safe and operational. Mr. Ziegler provided continuous and timely communications to the contractor, the design team and to Sewerage and Water Board operations personnel, at all levels, to help maintain equipment safety and operational integrity.

In addition to the structural rehabilitation, Mr. Ziegler provide excellent reporting of other architectural features, including the new masonry façade, a new break area and bathroom, and the replacement of the collapsed main building slab.

This was a large and complicated project on a historic building with unique issues. I would like to say that Mr. Ziegler's exemplary written reports, verbal communications and pictures, as well as his engagement and responsiveness helped move this project forward and bring it to a safe and successful completion.

Based on my experience, I am confident in his abilities and recommend him for any construction activity.

Sincerely,

Daniel Avalos, P.E.
Sewerage And Water Board of New Orleans
Civil Engineering Department
davalos@swbno.org / (504) 250-0231