



Pivotal Engineering, LLC



Statement of Qualifications For Professional Services Related to the Design and Rehabilitation of the Transcontinental and Bell Lift Station

Resolution No. 137449

May 26, 2021

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pivotal
engineering
A Full Service MEP, Civil and Environmental Firm

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QUALIFICATION CONTENT

Section 1: Introduction

Completing engineering projects in the Greater New Orleans area requires a unique blend of technical experience, well-developed understanding of local environmental conditions and sensitivity to community stakeholders. The **Pivotal Engineering, LLC** - team (herein referred to as “Team” or “The Team”) is an assembly of firms with a proven track record in delivering quality design, construction and inspection services. The reputation of each firm stands alone as a leader in their respective disciplines. For each project, maximum attention will be given to the technical, social, environmental, and innovative aspects of design, installation, and maintenance.

The foundation of this team is comprised of both their well-established working relationship and the comprehensive skill set they have collectively. Each firm brings a strong background in one or more of the following disciplines:

- Civil Engineering
- Environmental Engineering
- Structural Engineering
- Landscape Architecture
- Mechanical Engineering
- Electrical Engineering
- Construction Management
- Construction Inspection
- Topographic Surveying

Under these disciplines, each firm brings strong technical skills not only in the fundamental of engineering design and landscape architecture, but in the latest trends, approaches and software needed for modern solutions. The Team is well established in database management, geographic information systems (GIS), hydrologic/hydraulic modeling, computer-aided design and real-time monitoring equipment. Our Team’s capabilities will provide Jefferson Parish with the most effective and efficient approach for providing professional engineering services related to the design for the Rehabilitation of the Transcontinental & Belle Lift Station (E8-1).

As guiding values, The Team strives for open communication and continual improvement. With each project, internal processes and methodologies are revised to ensure that planning, design and decision-making conversations are facilitated with efficiency and effectiveness. Each concept is vetted with considerations for innovation, resiliency, added value and technical feasibility. Engineering design must encompass classical theory, industry standards, modern technology and a touch of revolution.

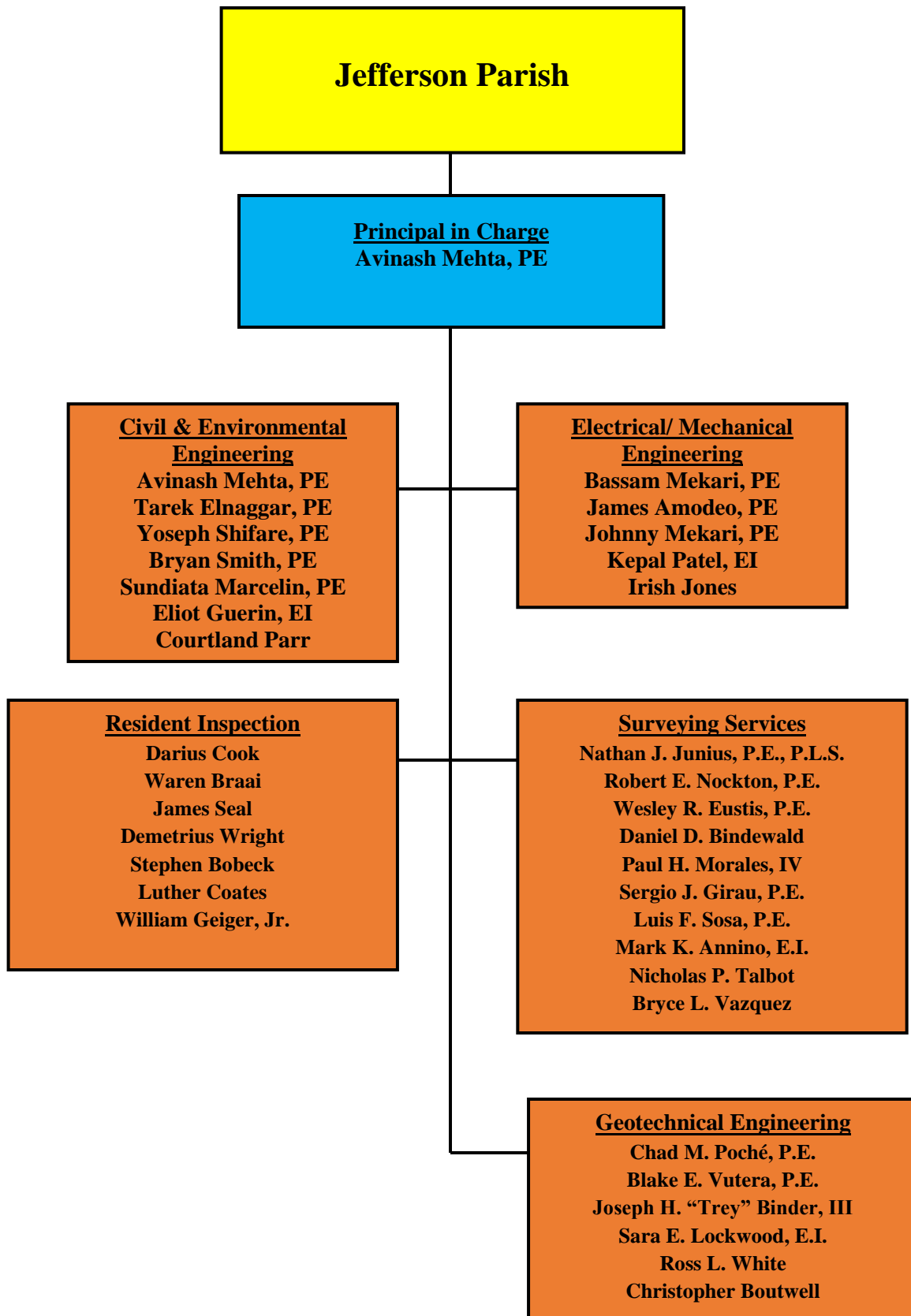
Our integrated Team will provide an optimized concurrent engineering environment that provides an opportunity to substantially reduce the design time and total cost of a project. Our integrated Team includes with skilled members from the various disciplines, which enables a simultaneous contribution to an early project definition and increased likelihood of reduced lifecycle cost. Our team is well positioned to avoid costly alterations later in the design process.

Our management team is comprised of experienced managers and task leaders with proven leadership, thoughtfully bringing together capable team members with exceptional technical skills and supporting them with good QA/QC processes. Open lines of communication and weekly internal conference calls will ensure that each project is managed successfully, on time, and within budget and schedule.

Our Team is committed to defining the project and setting expectations as our first step toward making that project a success. We, as a team, will apply various techniques for project estimation and cost control including:

- Setting Expectations Early, Review Often
- Planning the Project Budget
- Keeping Track of Costs
- Establishing a Communication Plan
- Maintaining Effective Time Management
- Implement Project Change Control
- Use of Earned Value to Monitor Both Cost and Schedule

Section 2: Organization Chart



Section 3: Specialized Experience

3.1 Pivotal Engineering, LLC

3.1.1 Team Profile: Pivotal is a full-service engineering design firm based in New Orleans, Louisiana. Pivotal has established a reputation for providing superior service to its clients and delivering quality work on time and within budget. Pivotal's principals and staff have in excess of 200 years of combined experience in architectural, civil, mechanical, electrical, structural and environmental engineering as well as construction management, construction inspection and program /project management for both public and private entities across the Gulf South Region.

Pivotal Engineering is currently providing engineering and management services to many municipalities and state agencies in the region including: The City of New Orleans, Jefferson Parish, The City of Shreveport, The City of Kenner, St. Charles Parish, and St. John the Baptist Parish. These services have also been provided to private clients such as Entergy, Waste Management, and private developers. Pivotal Engineering has in depth understanding of procedures and regulations for local, state, and federal governmental agencies.

Pivotal has worked with private developers and government agencies to help deal with the challenges of economic revitalization, landfill development and brownfield reclamation in order to accommodate the growing infrastructure needs of urban cities. Our primary focus begins with assisting public sector agencies and private development companies to effectively plan and accommodate growth, in an environmentally sustainable manner. We have assisted urban renewal projects throughout all stages of project development including: analyzing zoning issues, planning commission interaction, conducting public hearings, and fostering community visioning and support.

Pivotal is a certified Small Business Enterprise with both the Small Business Administration and the New Orleans Regional Transit Authority. Furthermore, Pivotal is a Disadvantaged Business Enterprise with City of New Orleans, Sewerage & Water Board of New Orleans, Louis Armstrong New Orleans International Airport, Harrah's New Orleans Casino & Hotel, and the Housing Authority of New Orleans (HANO). Pivotal Engineering is also certified by the

Louisiana Department of Economic Development as a Small Entrepreneurship SE (Hudson Initiative) firm.

Pivotal Engineering, LLC is conveniently located in the center of New Orleans. Since its inception, Pivotal's main office of operations has been at 1515 Poydras St. Suite 1875, New Orleans, LA. Work assigned to Pivotal will be performed from the main office.

3.1.2 Experience with similar projects:

Pivotal's engineers have extensive experience and excellence in performing roadway and bike trail design including street vertical and horizontal geometry, drainage, water, sewer based on the requirements set in CNO, S&WB, LDOTD, AASHTO, FHWA and ADA requirements and standards. In addition, Pivotal Engineering has extensive experience in water and wastewater design, environmental site assessments, remediation, air, waste and water permitting and compliance, environmental Study services for a Categorical Exclusion ("CE"), Record of Environmental Considerations ("REC"), site- specific Environmental Assessment ("EA") in accordance to the National Environmental Policy Act ("NEPA"). Additional experience includes asbestos and lead inspections and the development of abatement plans.

Pivotal Engineering's team includes senior civil and environmental engineers and technicians with extensive experience and excellence in managing projects from cradle to grave while providing value engineering, which saved our clients hundreds of thousands of dollars. Our staff was essential in helping metropolitan New Orleans in expediting its post Katrina recovery by handling and completing over 50 critical City, Parish and/or FEMA funded projects. The current staff of Pivotal has extensive experience managing a variety of complex projects from conception to construction.

Proven with experience, Pivotal is routinely retained by Fortune 500 companies and government agencies to provide compliance solutions. The following is brief summary the team's experience.

Sewer/Lift Station Projects

(1) Cleveland & Avron Sewer Lift Station Rehabilitation; Jefferson Parish, LA

Pivotal was retained by Jefferson Parish to replace the existing submersible pumps with new submersible pumps with Premium Efficiency Motors and Variable Frequency Drives (VFD) as well as new controls, piping, and valves. 3-15HP pumps will be replaced with 2-25Hp Pumps.



(2) N. Sibley & Boone Lift Station Improvements; Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish to provide preliminary and final design phase services for design and construction plan preparation of the C4-1A (N. Sibley and Boone) Lift Station Rehabilitation project. The major scope of the improvement is replacement of all existing submersible pumps with new submersible pumps with Premium Efficiency Motors and Variable Frequency Drive (VFD) as well as new controls, piping, and valves. 2-15 HP pumps will be replaced with 2-15 HP Pumps.



(3) N. Elmwood & Citrus Lift Station Upgrades; Jefferson Parish, LA

- Abandon of existing sewer lift station and install new lift station.

Pivotal Engineering is retained by Jefferson Parish to provide engineering services, inspection and construction administration of Elmwood and Citrus sewer lift station. The scope includes evaluation, preliminary and final design phase services for design and construction plan preparation of the Elmwood & Citrus Lift Station.

The Evaluation phase evaluated the feasible relocations of the existing sewer lift station within the parking lot and across Elmwood Park Blvd for the installation of the new lift station.

The proposed project includes abandoning existing dry well and pump-out structure, retrofit existing wet well to serve as a manhole, and design a new lift station including NEMA pumps, electrical, and controls required for the construction of the station. The new station required a new 8' fiberglass wet well and valve pit.

(4) Smith & Toulouse Lift Station Upgrades; Jefferson Parish, LA

Pivotal is retained by Jefferson Parish to provide preliminary and final design phase services for design and construction plan preparation of the H6-5 Smith & Toulouse Lift Station Upgrades.

The proposed project includes abandoning existing dry well and pump-out structure, retrofit existing wet well to serve as a manhole, and design new lift station including NEMA pumps, electrical, and controls required for the construction of the station. The new station will require a new 8' fiberglass wet well and valve pit.



(5) Broadmoor Lift Station Upgrades; Shreveport, LA

- Lift Station Improvements
- Sewer Design

Pivotal were retained by the City of Shreveport to provide A/E services for Broadmoor Lift Station Project. Pivotal was responsible for reviewing the existing plans provided by the Owner; developing preliminary and final design layout plans, mechanical plans and specifications as required by local, city, federal or state agencies. Prior to design, Pivotal personnel designed a new power supply and distribution center (600A, 480V, 3 phase Switch Gear with MCC & VFDs for the (3) new 100 HP pumps) as an upgrade to the facility's existing systems, PLC control, SCADA/Telemetry interface and Automatic Transfer Switch (ATS). Moreover, the scope required the addition of a secondary power supply (600A, 480 V, 3 phase) to the switch gear from a different feeder via an automatic transfer switch. In addition, Pivotal designed a new 18" Mag flow meter in the existing below grade force main and new odor control system in order to eliminate the existing odor problems faced by the neighboring residents.

Additional scope included sizing force mains, sizing and selecting pumps, designing bypass pumping plan, rehabilitation of manholes, junction boxes, designing electrical panels and complete architectural improvements to the Lift Station. The project is currently in the Construction Phase. Once the project has been awarded to a contractor, Pivotal will be

responsible for the Construction Management Services.

(6) CC1 Lift Station Improvements; New Orleans, LA

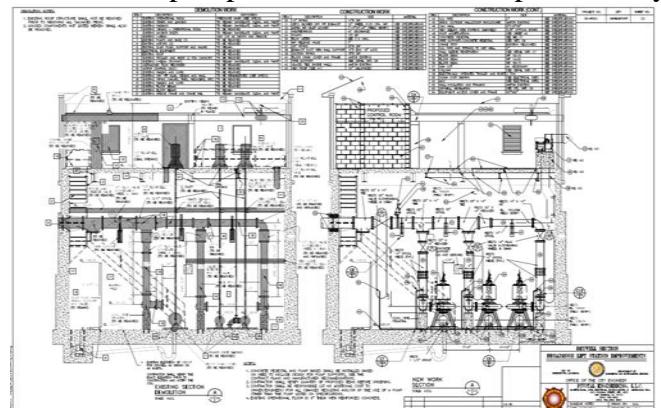
- Lift Station Improvements
- Electrical Panels
- Switch Gear
- Sewer Design

The scope of the project was a major upgrade and rehabilitation of the existing pump station. The upgrade involved increasing the pumping capacity of the station from 2580 gpm to 4000 gpm (55% pumping capacity increase). Some of the main work scope involved the demolition of the entire existing power distribution gear, removal of existing 6 (30 hp) pumps with all related controls and replacement with (3) 100 hp pumps with soft start controls. Further a cost analysis breakdown between Soft Start and VFDs was performed and the client chose the first option due to budget constraints. Moreover the design involved SCADA controls, new PLC and tying the controls to the department Telemetry system.

(7) Patriot Lift Station; Jefferson Parish, LA

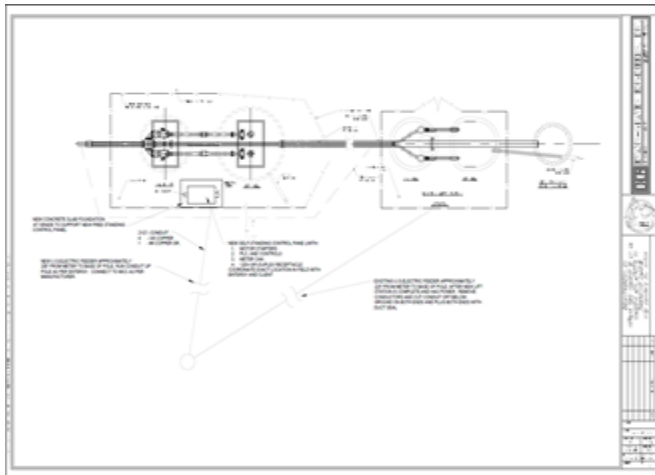
- Perform a full electrical design with specifications for a duplex lift station (Patriot) for Jefferson Parish.

The overall system consisted of a NEMA 4X self-standing main control panel/MCC, 240, 3 phases, 4 wires. The control panel also included logic to allow the pump motors to start/stop manually



from the push buttons at the panel or automatically via the PLC inside the panel. The PLC also controlled the levels at the well and the backup level system. All of the PLC digital and analogue inputs/outputs were also transmitted from the PLC to the Jefferson Parish SCADA system central facility via radio signal.

One of the main challenges Pivotal faced was the urgency to produce 100% stamped Construction Documents, full specifications and a cost estimate in only 5 days. Pivotal was able to meet the stringent deadline. Another challenge was the lack of existing drawings, which required Pivotal to go to the site and verify available utilities/power and incorporate it into the design drawings. Again, Pivotal was able to do so within the 5 days' time frame and complete the project on time.



(8) Page & Longfellow Lift Station Improvements; New Orleans, LA

- Construction Management for new Power distribution system, piping, and pumps

Pivotal Engineering, LLC was retained by Jefferson Parish to provide Construction Management for the Page & Longfellow Lift Station Improvements.

The project consisted of installation of a new power distribution system, valves, piping, pumps, and odor control system. Pivotal stationed a

Resident Inspector for the entirety of construction. Pivotal's Resident Inspector was tasked with providing daily reports to document the Contractor's daily activities, project progress, and photo documentation to be provided to the client on a daily basis.

Pivotal was also responsible for providing review of Contractor Pay Applications, Change Order Requests, and RFIs in a timely manner.



(9) Wright Road Improvements; New Orleans, LA

- Roadway Paving and Curb Design
- Subsurface Drainage and Sewer Design
- Construction Management

Pivotal personnel were retained by the City of New Orleans for the design of Wright Road located in New Orleans East. The project entailed the design of a new roadway section, subsurface sewer, water and drainage facilities, the relocation of conflicting utilities, as well as the development of specifications and construction oversight. Pivotal engineering staff has also been required to provide public coordination, agency approvals, oversee contractor compliance, and represent the Owner at various public meetings.

- Reviewed the required topographical survey of existing site conditions prior to start of design phase.
- Designed new drainage network for 10 years return period.

- Designed new gravity sewer collection system to replace existing system that had been in service for more than 40 years.
- Designed new water main and located it on the median.
- Designed new street for tie-in to side streets.

(10) Eastbank Treatment Plant Upgrade Jefferson Parish, LA

- Rehabilitation of Filter Presses
- Replacing Sludge Feed Pumps, Piping, Electrical Panels, Polymer Feed System
- Construction Inspections

The scope of work was to evaluate the existing Filter Press, MCCs and rehabilitate/replace the existing direct on-line motor starters for the filter presses with Variable Frequency Drives (VFDs) and provide the design packages to integrate the new wiring of the VFDs from the existing MCCs by using the existing Circuit Breakers. The project included replacing five sludge feed pumps and the associated piping and controls.



Mechanical/ Electrical Projects

(1) DPW Warehouse; New Orleans, LA

Pivotal was retained by the City of New Orleans Department to provide engineering services for DPW Warehouse. The engineering scope was to provide mechanical & plumbing, electrical, and civil engineering services for the new warehouse facility in New Orleans, Louisiana.

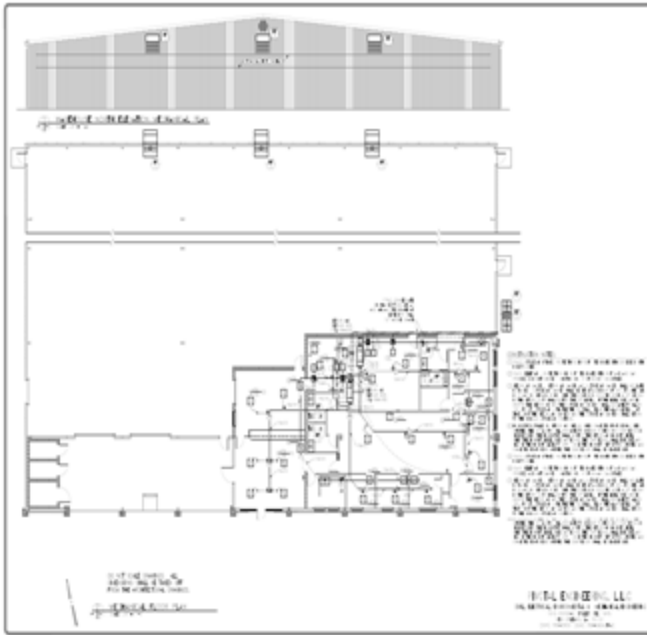
DPW Warehouse project is ongoing and is at 95% design completion stage.



(2) JP Public Works Warehouse; Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish Department of Engineering to provide engineering services for Public Works Warehouse. The engineering scope was to provide mechanical & plumbing, electrical, and civil engineering services for the new warehouse facility in Bridge City for Jefferson Parish, Louisiana.

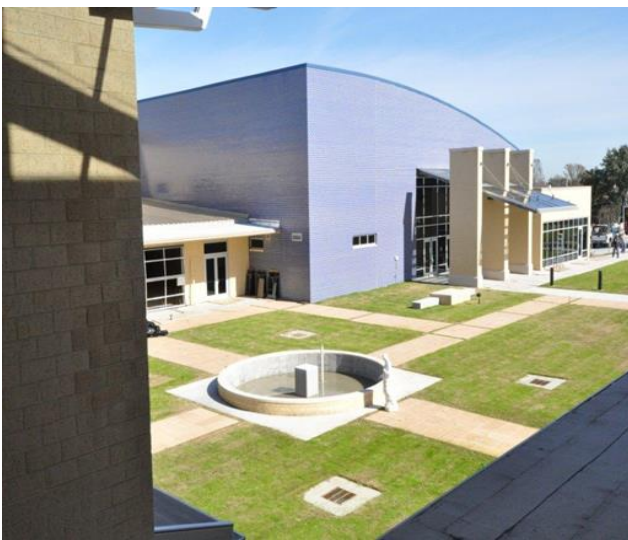
Public Works Warehouse project is ongoing and it is on 100% completion ready to be announced to bid.



(3) Lincoln Elementary School for the Arts New School Design; Jefferson Parish, LA

Pivotal was retained by Jefferson Parish School Board to provide engineering services for Lincoln Elementary School. The school building is 85,000 square feet. Our scope was to provide the full MEP design services. The frame was a metal building and had one main community center, a 2 story library, kitchen, Cafeteria and classrooms. The construction budget was \$18,000,000. The main scope consisted of:

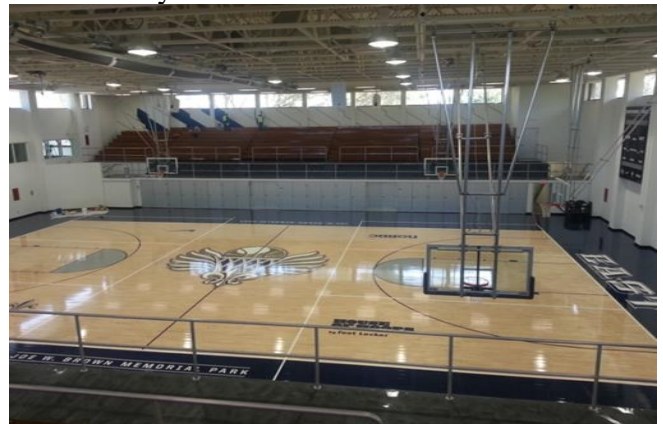
- HVAC consisted of RTUs and Splits with Hot Gas Reheat (307 tons)
- A full Blow Building Management



- System with a manual bypass
- New fire Alarm System
- Automatic Sprinkler System
- PA System
- CCTV system
- Plumbing
- Electrical

(4) Joe Brown Center; New Orleans, LA

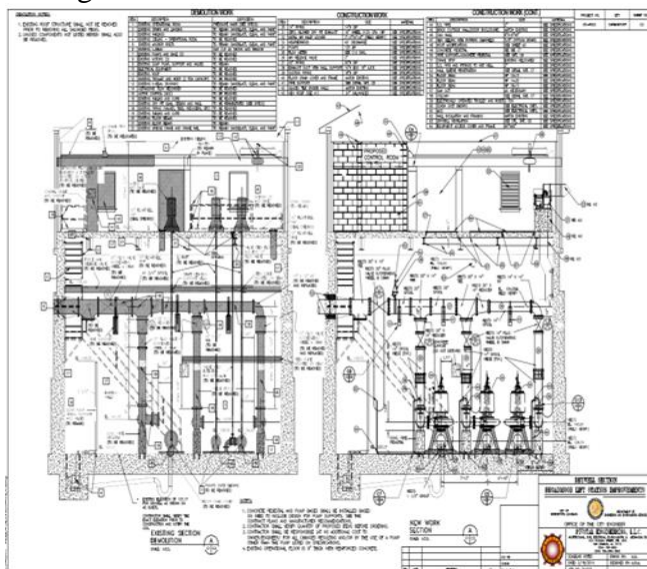
This project was funded by FEMA, CDBG, Bond and NIKE with a construction value of \$5 million (See Photo). It had several design challenges and a very compressed design and construction schedule. On top of the compressed schedule, some other challenges that the design team faced were responding to several changes in design direction during the Construction Document (CD) preparation phase). Such changes resulted due to directive orders from Capital Projects since City was not being able to get a timely resolution from FEMA on approving additional funding for Alternate Items that were not in the PW but were Katrina damaged. Regardless of the design changes which resulted in producing 3 different set of construction documents, the final Bid Documents schedule was still met due to Pivotal's capability of swiftly responding to any change mandated by the client.



(5) Broadmoor Lift Station Improvements; City of Shreveport, LA

Pivotal was retained by the City of Shreveport to provide A/E services for Broadmoor Lift Station Project. Pivotal was responsible for reviewing the existing plans provided by the Owner; developing preliminary and final design layout plans, mechanical plans and specifications, as required

by local, city, federal or state agencies. Prior to Design, Pivotal personnel designed a new power supply and distribution center (600A, 480V, 3 phase Switch Gear with MCC & VFDs for the (3) new 100 HP pumps) as an upgrade to the facility's existing systems, PLC control and SCADA/Telemetry interface. Moreover, the scope required the addition of a secondary power supply (600A, 480 V, 3 phase) to the switch gear from a different feeder via an automatic transfer switch. In addition, Pivotal designed a new 18" Mag flow meter in the existing below grade force main and new odor control system in order to eliminate the existing odor problems faced by the neighboring residents. Additional scope included sizing force mains, sizing and selecting pumps, design bypass pumping plan, rehabilitation of manholes, junction box, designing electrical panels and complete architectural improvements to the Lift Station. The project is currently in the Bid Phase. Once the project has been awarded to a contractor, Pivotal will be responsible for the Construction Management Services.



(6) Delgado Main Auditorium; New Orleans, LA

This project consisted of a total overhaul and renovations of the existing auditorium at Delgado. The MEP scope was challenging do to the limitations of the existing systems and lack of as-built to verify whether existing utilities can supply the new additional loads. Due to our “hands on”

field experiences, our team was able to run analysis of the existing switch gear and take actual field measurements of the total amperage for a whole week to determine the peak load demand. This additional effort paid off and we determined that the existing gear can handle the additional load which resulted in huge savings to Delgado.

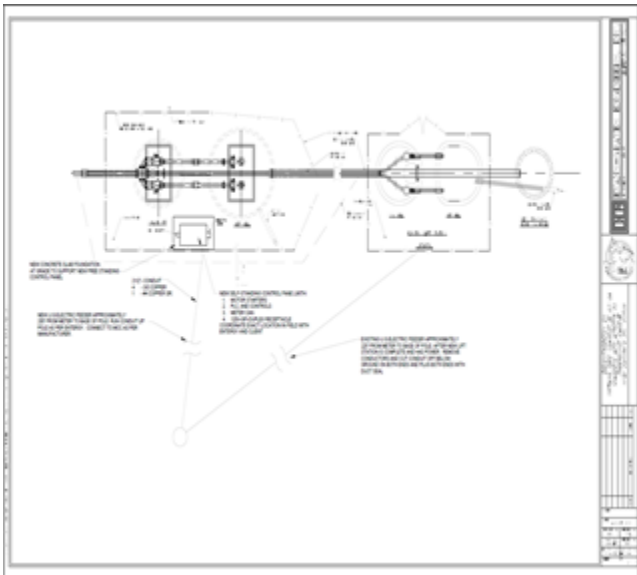
Another challenge that faced or engineers was the fact that during the initial design phase the city water flow and pressure test indicated that it can supply the new sprinkler system. However, during construction phase (2 years after initial pressure and flow readings were taken), the city water pressure and flow dropped dramatically which required the need for a 20 Hip Fire Pump to be installed. Although the switch gear power usage was maxed out and the space to install the Fire Pump was very limited, the Pivotal MEP team was able to design and incorporate the installation of a new Fire Pump while selecting the most economical method allowed by code. This resulted in substantial savings to Delgado and resolving the drop in city water pressure and flow.

Our main scope summary consisted of: plumbing design for new bathrooms, changing and upgrading the existing AHU and connect it back to the existing 4 pipe system, adding Smoke Evacuation system to meet new auditorium standards, adding a new Fire Pump, adding water curtain for the new stage area fire protection as required by code, adding new IT room and lighting room and a state of the art lighting and sound system to match the new theater contemporary look.



(7) Patriot Lift Station; Jefferson Parish, LA

Pivotal was retained by Jefferson Parish to perform a full electrical design and specifications for a duplex lift station. The overall system consisted of a NEMA 4X self-standing main control panel/MCC, 240, 3 phases, 4 wires. The control panel also included logic to allow the pump motors to start/stop manually from the push bottoms at the panel or automatically via the PLC inside the panel. The PLC also controlled the levels at the well and the backup level system. All of the PLC digital and analogue inputs/outputs were also transmitted from the PLC to the Jefferson Parish SCADA system central facility via radio signal. One of the main challenges Pivotal faced was the urgency to produce 100% stamped Construction Documents, a full specifications and a cost estimate in only 5 days. Pivotal was able to meet the stringent deadline. Another challenge was the lack of existing drawings, which required Pivotal to go to the site and verify available utilities/power and incorporate it into the design drawings. Again, Pivotal was able to do so within the 5 days' time frame and complete the project on time.



(8) Transcontinental-Vineyard Lift Station; Jefferson Parish, LA

Pivotal was retained by Jefferson Parish to perform electrical and control systems evaluation

of the lift station and to propose recommended upgrades as needed for its safe and reliable operation. The lift station consisted mainly of a dry pit with (4) 400 Hp pumps, (1) 50 Hp pump and (1) 30 Hp pump. The MCC center was fed with 2 different 2500 A 480V, 3 phases, and 4 wires' feeders. A PLC inside the MCC provides the remote operation of the station and communicates the digital and analogue signals to the Parish SCADA system via radio signal.

The main upgrades as recommended by Pivotal were to reconfigure the incoming power distribution system in order to ensure more reliable power back up, install 2 VFDs for the 2 smaller motors, add an Automatic Transfer Switch to ensure that the station is fully redundant, replace the PLC since the existing one is obsolete and upgrade the control signals accordingly.

Another Pivotal scope was to produce a cost estimate for the recommended upgrades and present to the client.

(9) West Bank Senior Citizens Center; St. John Parish, LA

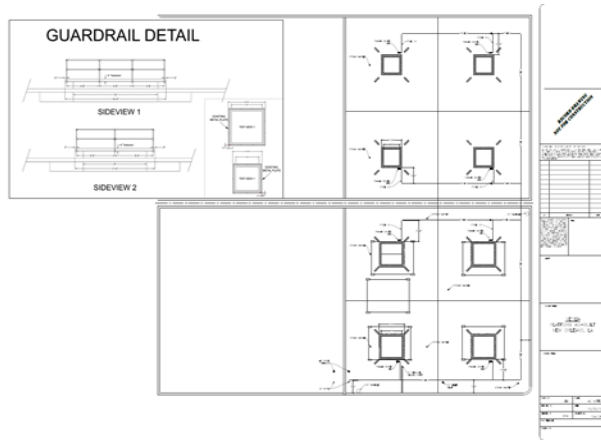
Pivotal was retained by St. John Parish to provide preliminary design for the St. John Parish Senior Citizens Center.

The scope of the project included the following: develop the lighting design including wiring and diagram, develop a preliminary plan indicating the layout of lighting fixtures, perform engineering calculations including necessary calculations for lighting improvements, develop CSI format outline specifications or with city format, and provide a preliminary-level estimate.

(10) Veolia East Bank Treatment Plant; New Orleans, LA

Pivotal have been retained by Sewerage & Water Board with Veolia West North America – South to review the current mechanical and electrical design sketches and approve them for construction, and provide 'redline' as-built drawings to update S&WB drawings files. The scope of work is to provide eight new floating

Mixers (supplied by Praxair) and installs them on Train #1 of the Bio-reactor; including stainless steel oxygen supply piping and valve arrangements, safety handrails and mixer anchoring systems. It also installs eight new motor starters in the existing MCC and four VFDs for four of the mixers; and provides for communication with the plant's SCADA system for display of mixer status and control of the VFDs.



(11) Chalmette Main Yard Addition of Emergency Generator; St. Bernard Parish, LA

Pivotal was retained to design the addition of the emergency generator for the Chalmette Main Yard. The scope of the project included work associated with electrical systems and equipment including excavating, backfilling, concrete equipment bases, concrete duct encasements, temporary power and lighting service and equipment for construction, conduit sleeves and supports, anchors, vibration and sound isolation, access panels, identification, record drawings, installation permits, tests, inspections by governing authorities, cutting-and-patching work, utility companies connections coordination, start-up of electrical systems and equipment, training of Owner's operating personnel, operating and maintenance manuals, final cleaning of electrical and similar work.



(12) West Bank ATS Replacement; New Orleans, LA

Pivotal was retained by New Orleans Sewer & Water Board and Veolia to automate the plant's main power feed transfer by providing automatic switching between the main utility feed (4160 V) and the existing 2 MW emergency generator. The existing system was outdated and inoperable.

In 1973, the 10 million gallon-per-day West Bank Sewerage Treatment Plant came on-line. This facility serves the entire west bank community of New Orleans and was recently upgraded, in 2002, to double its capacity.

Pivotal Engineering LLC was assigned to conduct the overall power study for the existing and the newly designed systems since existing power study was outdated. This included tracking the power feeders and provide as-builts in the form of One Line Diagrams of the existing and the newly designed set up, short circuit analysis, coordination study and arch flash analysis and calculations.

The challenges on this project were to verify the existing conditions and underground utilities due to the lack to updated documents. Pivotal successfully field traced all of the existing feeders from the 13.8KV feeds down to the 480V MCCs. The existing system consisted of an on-site 13.8KV:4160 V Entergy transformer which feeds an outdated manual 4160 V main transfer switch gear. The emergency side of the manual transfer

switch gear is also fed by a 2 MW 4160 V generator. Pivotal successfully coordinated the design with Entergy and finalized the bid documents which consisted of structural (new concrete pad and rain cover), civil and electrical documents.

Another big challenge that Pivotal overcame and incorporated in the design documents was providing and incorporating a sequence of installation without having to lose main power to the plant for longer than 3 hours. That was very critical to the client since they could not afford having the plant shut down for more than 3 hours.

Project is presently in the construction phase.



(13) MIMOSA Elementary School HVAC Systems Replacement; Luling, LA

The scope consisted of removing all of the outdated DX Split System HVAC units and replace them with a centralized 4 pipes chill water systems (2 – 150 tons screw type, air cooled chillers), update the Power Distribution Grid and increase its capacity to compensate for the increased power demand, change the hot water boilers and all related pumps, ventilate the classrooms as required by ASHRAE and IBC regulations and add few classrooms to the existing

floor plans. The project was challenging do to the lack of existing as-built which made our task more difficult since we had to tie in to existing water system, power grid and sewer system. Our engineers performed detailed field inspections in order to determine how to integrate with existing utilities and avoid any potential conflicts. The project was completed without any change orders on time and within schedule.

In the long term, the new system designed will provide a cost savings of approximately \$10,000 - \$15,000 per year to the St. Charles School Board. Pivotal was also responsible for providing staff to conduct baseline, daily, and clearance asbestos air monitoring during the removal of asbestos piping. Work scope summary consisted of: MEP, Electrical, Architectural, Structural, Civil and Environmental.



(14) Ames (Collins Elementary) Montessori School Renovations and Expansion; Jefferson Parish, LA

This project consisted of renovating an existing portion of the school (Kitchen and Cafeteria) and adding a new 30,000 sq ft wing for classrooms. Pivotal's scope was to provide full MEP design services.

Pivotal personnel were very instrumental in saving Jefferson Parish School Board a \$250,000.00 unexpected Change Order to remove the newly installed 6" Fire Main underground during the Construction Phase and replacing it by an 8" line as requested by the Parish engineering

department. Although the civil engineering portion of the work was not part of our scope, the school board contacted Mr. Mekari, currently Pivotal's MEP project manager and asked him if he can look into this issue and resolve it. Mr. Mekari then discovered that the original Civil Engineer bid set showed a 6" underground Fire Line however, his permit set was modified to an 8" Fire Line as demanded by the Parish. Not only the change order was very costly but it was going to delay the school from opening on time which can cause a huge logistical problem to the board. Pivotal's personnel "stepped up to the plate" and were able to prove to the Jefferson Parish Engineering Department that a 6" line would be sufficient although their permit documents that was submitted by the previous Civil Engineer called for an 8" fire line to be installed. Consequently, Mr. Mekari demonstrated and convinced Jefferson Parish Engineers after several meetings with back up hydraulic calculations and he was able to obtain an actual letter from the NFPA referring to code exceptions for this project that a 6" line would be acceptable by code. Not only this resulted in saving of \$250,000.00 but it also allowed the schedule to be met and the school to open in time.

Another setback in the civil design was also discovered by our team as well in the civil scope three weeks before construction completion and school opening date. The previous Civil Engineer had the wrong slope and invert measurements on the main sewer line thus, the newly installed school sewer line did not have enough slope to tie in to the city sewer line. To resolve this problem, Mr. Mekari recommended a lift station which was the only feasible option. The usual delivery date for a lift station is 6 weeks; however, Pivotal's staff was able to design and locate a temporary lift station to be installed. The lift station was designed, ordered, delivered and installed within that same week and school was able to open on time. Again, this shows the due diligence of our staff and their engineering capabilities. Our main scope summary consisted of:

- HVAC consisted of RTUs and Splits with Hot Gas Reheat for better humidity control (275 tons)
- Automatic Sprinkler System
- PA System
- CCTV system
- Plumbing
- Electrical Power Distribution and Lighting
- Fire Alarm
- Civil design value engineering



(15) NOFD Engine #36, Hurricane Katrina Repairs and Renovations; New Orleans, LA

The main scope on this Engine was to perform major repairs for flood damage incurred to the building post hurricane Katrina. Our team reviewed the related PWs and all related costs and provided engineering estimates for additional items that were not covered in the PWs but were eligible for FEMA funding. Such items were justified because they were either overlooked by FEMA and/or needed to be mediated for codes upgrades. The main project scope consisted of providing a new HVAC system, new standby generator, interior/exterior lighting, engine bay flooring, Fire Alarm system, Hot water boilers and heaters, plumbing fixtures and interior finishes.

Work summary consisted of: FEMA PW Review, Scoping, Architectural, Civil, Mechanical,

Electrical and Plumbing Design Review, cost estimates and Construction Administration.



(16) Mosquito Control Department Aircraft Hangar Building Hurricane Katrina Repairs and Renovations; New Orleans, LA

The Hangar is an 8,000 sq ft steel building. The main scope was to repair damages post Katrina and codes upgrades. The project work consisted of a new HVAC system, new power distribution system, new underground feeders and a new hangar door in order to meet the new V-Zone code upgrades, renovated offices, expanded mezzanine, interior/exterior lighting and additional structural bracing to sustain hurricane force winds.

One of the main significant accomplishments on this project was to convince and prove to the Louisiana State Fire Marshall that the Hangar does not need to be sprinkled. The owner was also pushing for the Hangar to be sprinkled since the other 2 neighboring hangars were sprinkled. Pivotal staff's efforts were very helpful to CNO since FEMA was not going to reimburse for the Sprinkler System. This accomplishment was made possible due to the close and swift coordination within Pivotal's Engineering team. This effort saved the city over \$500,000.00 since a new water tower would have had to be installed due to the lack of city water infrastructure in that area. Pivotal personnel also provided the CNO with a Comprehensive Damage Report to be reviewed by FEMA for repairs to or replacement of the

existing facility. This report was a critical factor in substantiating the CNO's claim for additional funding to repair the facility. Additionally, funding was to provide for additional above ground storage space and office renovations.

Work Summary consisted of: PWs review, scoping and providing new architectural, MEP, civil and structural designs, revising and updating cost estimates, providing technical arguments for the additional items that were eligible for federal reimbursement but not covered by FEMA.



(17) Parks & Parkways Buildings Hurricane Katrina Repairs and Renovations; New Orleans, LA

The project scope consisted of performing repairs and renovations to multiple buildings for the Parks & Parkways department damaged by Katrina. The work was concentrated on the Administration Building, Approx. 3800 Sq. Ft. covering 2 Floors with an Attic Mechanical Room and an Annex Building approximately 5,000 sq.ft. covering 2 floors. The main work consisted of reviewing FEMA PWs, providing construction budget estimates, scope determination and alignment with FEMA PWs, design documents and construction administration.

Work summary consisted of: mainly MEP engineering designs (total HVAC replacement-total plumbing system replacement – total electrical replacement – new indoor/outdoor lighting).

Roadway Projects

(1) RR016 BW Cooper, Gert Town Dixon Group C, New Orleans, LA

Pivotal is currently retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for nine (9) blocks (3245 ft) in the neighborhoods of B.W. Cooper, Gert Town and Dixon. This design of multiple streets are required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also includes identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.



Pivotal is also responsible for administering the required topographical survey of existing site conditions prior to start of design phase; and for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations. The project is federally funded.

The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *City of New Orleans General Specifications for Street Paving*
- ✓ *Louisiana Standards for Roads & Bridges*

- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*
- ✓ *Satisfied DBE participation goal of 35%*

(2) RR017 BW Cooper, Gert Town Dixon Group D, New Orleans, LA

Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for twelve (12) blocks (4,015 ft) in the neighborhoods of B.W. Cooper, Gert Town and Dixon. This design of multiple streets is required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.

Pivotal is also responsible for administering the required topographical survey of existing site conditions prior to start of design phase.



Pivotal is also responsible for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic

& community organizations. This project is federally funded.

The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *City of New Orleans General Specifications for Street Paving*
- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*
- ✓ *Satisfied DBE participation goal of 35%*

(3) RR018 BW Cooper, Gert Town Dixon Group E, New Orleans, LA

Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for fifteen (15) blocks (6,075 ft) in the neighborhoods of B.W. Cooper, Gert Town and Dixon. This design of multiple streets is required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also includes identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.



Pivotal is also responsible for administering the required topographical survey of existing site conditions prior to start of design phase.

Pivotal is also responsible for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.

The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *City of New Orleans General Specifications for Street Paving*
- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*
- ✓ *Satisfied DBE participation goal of 35%*

(4) RR019 BW Cooper, Gert Town Dixon Group F, New Orleans, LA

Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for six (6) blocks (2,100 ft)

in the neighborhoods of B.W. Cooper, Gert Town and Dixon. This design of multiple streets is required to meet rehabilitation goals set by FEMA and CNO and the water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.

Pivotal is also responsible for administering the required topographical survey of existing site conditions prior to start of design phase.



Pivotal is also responsible for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.

The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *City of New Orleans General Specifications for Street Paving*
- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*

✓ *Satisfied DBE participation goal of 35%*

(5) RR076 Lake Vista Group D, New Orleans, LA

Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for five (5) blocks (1,750 ft) in the neighborhood of Lake Vista. This design of multiple streets is required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.



Pivotal is also responsible for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.

The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *City of New Orleans General Specifications for Street Paving*
- ✓ *Louisiana Standards for Roads & Bridges*

- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*
- ✓ *Satisfied DBE participation goal of 35%*

(6) RR034 E. Carrollton Group C (Adams St.), New Orleans, LA

Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for eight (8) blocks (4,936 ft) in the neighborhood of Adams St. This design of multiple streets is required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.

Pivotal is also responsible for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.



The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *City of New Orleans General Specifications for Street Paving*
- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*
- ✓ *Satisfied DBE participation goal of 35%*

(7) RR203 Gentilly Terrace South Group K, New Orleans, LA

Pivotal is retained by City of New Orleans to provide roadway patch, mill and overlay reconstruction improvement). The project entails roadway rehabilitation within the Gentilly Terrace neighborhood. This design of these streets is required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also included design of mill and overlay reconstruction, preparation of capital cost estimates and construction documents for the project.



Pivotal is also responsible for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.

The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *City of New Orleans General Specifications for Street Paving*
- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*
- ✓ *Satisfied DBE participation goal of 35%*

(8) RR138 Plum Orchard-West Lake Forest Group B, New Orleans, LA

Pivotal was retained by City of New Orleans for repaving the asphalt roadway from curb-to-curb, replacing damaged portions of concrete with new concrete, patching the roadway with asphalt, repairing damaged sidewalks and driveway aprons, installing ADA compliant curb ramps at intersections, and replacing/repairing damaged underground water, sewer and/or drainage lines.



The execution and delivery of this project demonstrates that Pivotal engineer's expertise on the following required criteria of specialized experience and technical competence:

- ✓ *City of New Orleans General Specifications for Street Paving*

- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*
- ✓ *Satisfied DBE participation goal of 35%*

(9) Wright Rd. Improvements, New Orleans, LA

Pivotal Engineering was retained by the City of New Orleans for the design of Wright Road located in New Orleans East. The project entailed the design of a new roadway section, subsurface sewer, water and drainage facilities, the relocation of conflicting utilities, as well as the development of specifications and construction oversight. Pivotal Engineering staff has also been required to provide public coordination, agency approvals, oversee contractor compliance, and represent the Owner at various public meetings. Pivotal performed the following:

- Reviewed the required topographical survey of existing site conditions prior to start of design phase.
- Designed new drainage network for a 10 years return period.
- Designed new gravity sewer collection system to replace existing system that had been in service for more than 40 years.
- Designed new water main and located it on the median.
- Designed new street for tie-in to side streets.
- Coordinated all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.

The project was valued at \$9 million.



The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *City of New Orleans General Specifications for Street Paving*
- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*
- ✓ *Satisfied DBE participation goal of 35%*

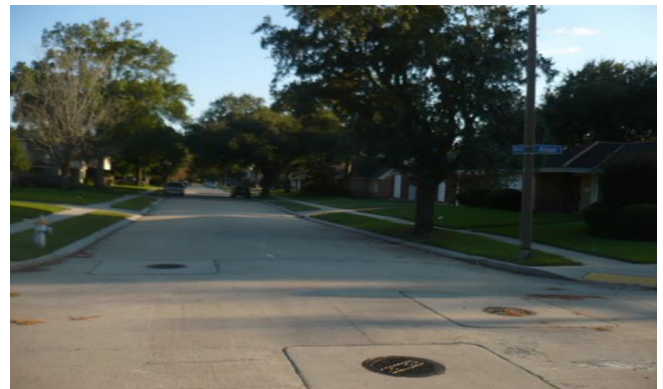
(10) Ramsey St. Improvements, New Orleans, LA

Pivotal Engineering was retained to perform the design and construction supervision for the required improvements to Ramsey Street. The project entailed the design of a new roadway section, subsurface sewer, water and drainage facilities, the relocation of conflicting utilities, as well as the development of specifications and construction oversight. Pivotal Engineering staff has also been required to provide public coordination, agency approvals, oversee contractor compliance, and represent the Owner at various public meetings.

Pivotal was also responsible for the following:

- Designing new drainage collection system that tied into an existing box culvert along adjacent intersection. This was necessary due to the re-occurrence of street flooding during any rain activity that takes place in this area.
- Designing new gravity sewer collection system to replace existing system that had been in service for more than 40 years.
- Designing new street for tie-in to major thoroughfare in the City of New Orleans.
- Coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.
- Construction Management of the overall construction of the above captioned work.

The project was valued at \$3,500,000.



The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *City of New Orleans General Specifications for Street Paving*
- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality*

and the ability to meet schedules and deadlines.

- ✓ *Satisfied DBE participation goal of 35%*

(11) Pritchard Rd. Extension, Jefferson, LA

Pivotal Engineering is retained by Jefferson Parish to design roadway reconstruction and extension of Pritchard Road. The project scope includes the following:

1. Removal and replacement of existing 20 ft wide concrete roadway with 26 ft wide roadway and extend 130 ft to connect Pritchard Road to Sprig Street.
2. Removal and replacement of existing drainage piping. The design of drainage pipe networks is completed for a 10 years storm period using LADOTD drainage software.
3. Relocation of existing street side ditch with a new ditch and box culvert. Drainage ditch, box culvert and junction box designed for 10 years storm period.
4. Offset existing 10" and 18" SFM both vertically and horizontally.



The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *Louisiana Standards for Roads & Bridges*

- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*

(12) Labarre Road Railroad Crossing Drainage Improvement, Jefferson, LA

Pivotal Engineering was retained by Jefferson Parish to provide preliminary and final design phase services for design and construction plan preparation of the Labarre Road. Railroad Crossing Drainage Improvement. The major scope of the improvement includes:

1. The construction of a box at the south west corner of Labarre and the Norfolk railroad; construction of a box at the south east corner of Labarre and the Norfolk railroad; replacement of sidewalk access across the ditch adjacent to the tracks; and provide handicap ramps across the street from the crossing, due to the tight right of way at the corner. The designer makes sure that the handicap ramp is being built within Parish right of way.



2. The boxes are designed to accommodate all of the existing drain lines in the area in order to preserve current drainage patterns at the crossing.
3. Construction of the box on the east required removal and replacement of ½ of Labarre Road and of the rail road crossing arm.

4. Construction requires deep sheeting, due to proximity of tracks, possibly a coffer dam.
5. Full width of Labarre will be milled and overlaid.

The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*

(13) Clearview Airline Intersection Improvements, Jefferson, LA

Pivotal was retained to assist in the Clearview-Airline Intersection Improvements project. The scope of the project includes the following: widening of the median along Airline Drive to provide for triple left turn lanes, modifying the intersection of Airline Drive and Central Avenue, relocating and replacing the 20' transit water line, modifying the existing traffic signal system along Airline Drive at the intersection of Clearview Parkway and Central Avenue, and extending Rosedale to tie into Airline Drive.



The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*

(14) Southbound Westwood Dr. Rehabilitation, Jefferson, LA

Pivotal Engineering was retained by Jefferson Parish through Digital Engineering and Imaging, Inc. for the design of Southbound Westwood Drive from the Westbank Expressway to Lapalco Blvd. The project entails rehabilitation of existing Westwood Drive (which includes removal and replacement of existing PCCP roadway), installation of additional subsurface drainage and modification of existing subsurface drainage, and installation of new sidewalks, handicapped ramps, and driveways as needed.

The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*

(15) France Rd. North Paving & Drainage Improvements, New Orleans, LA

Pivotal performed design & construction administration services for France Rd. The project included 1.5 miles of full roadway reconstruction design. The scope of this project is to remove and replace roadway & drainage improvements.



The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

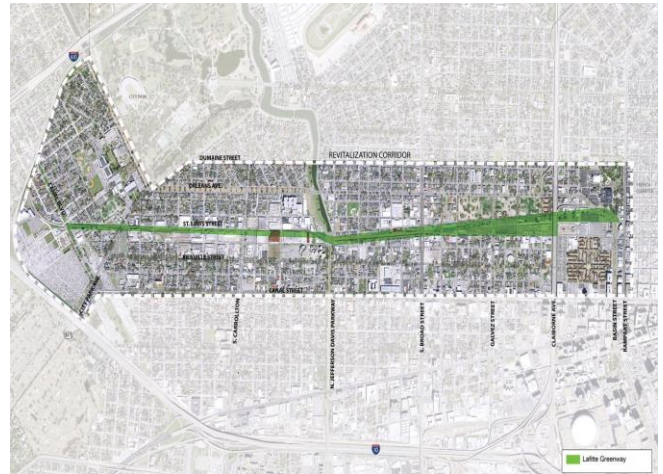
- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*

(16) Lafitte Greenway, New Orleans, LA

Pivotal Engineering completed and delivered to the City of New Orleans the Lafitte Greenway project. This was executed in teaming arrangements with Design Workshop and Dana Brown & Associates. The project consisted of approximately 13,000 ft. of bike/pedestrian trail valued at \$6.5 million. The project included more than five (5) acres of land in storm water management design, green infrastructure containing bioswale, rain gardens and detention

basins, sidewalk and roadway improvements, drainage improvements, and lighting improvements.

Pivotal Engineering performed a drainage analysis to calculate 10-year discharge from the identified contributing areas, and incorporated the approved scope of work into the project which included Architectural, Civil, Structural, and Electrical Design.



The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *City of New Orleans General Specifications for Street Paving*
- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*
- ✓ *Satisfied DBE participation goal of 35%*

(17) Bayou Road Streetscape, New Orleans, LA

Pivotal completed and delivered to the City of New Orleans Gentilly Boulevard and Bayou Road Streetscape. The project included landscape, sidewalk and roadway improvements, drainage improvements, and lighting improvements.

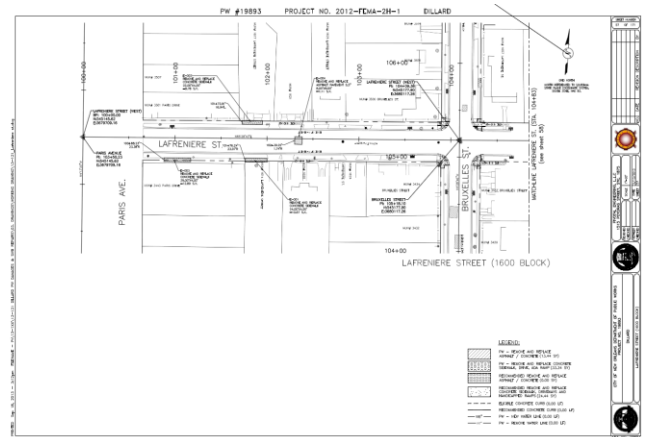


The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *City of New Orleans General Specifications for Street Paving*
- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*
- ✓ *Satisfied DBE participation goal of 35%*

(18) Dillard Neighborhood Streets, New Orleans, LA

Pivotal Engineering was retained by the City of New Orleans to provide A/E Design, and Construction Management services for Dillard Neighborhood Design Project.



The project includes the design of proposed roadway section, subsurface sewer, water and drainage facilities, the relocation of conflicting utilities, as well as the development of specifications and construction oversight. Pivotal personnel were also required to provide public coordination, agency approvals, oversee contractor compliance, and represent the Owner at various public meetings.

Pivotal personnel were responsible for administering the required topographical survey of existing site conditions prior to start of design phase.

Pivotal coordinated all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.

The total project cost is estimated at 1.5 million dollars.

The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *City of New Orleans General Specifications for Street Paving*
- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*
- ✓ *Satisfied DBE participation goal of 35%*

(19) Napoleon Avenue Box Culvert, New Orleans, LA

Pivotal personnel were retained by the Sewerage & Water Board of New Orleans through Schrenk & Peterson Engineering to coordinate and design the utility relocation plans and specifications.

Pivotal personnel were also responsible for review and approval of required topographical survey of existing site conditions prior to start of design phase.

Pivotal personnel designed new reinforced concrete box culvert along Napoleon Avenue between Constance Street and Carondelet Street in New Orleans, LA, and also designed box culvert crossings at St. Charles Avenue/Napoleon Avenue intersection, which is one of the busiest intersections in the Metropolitan New Orleans area.



Pivotal personnel coordinated all efforts with various private & public utility companies, state & local agencies for the safe and expedient relocation of their existing facilities that conflicted with proposed construction. The project is valued at \$50,000,000.

The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *City of New Orleans General Specifications for Street Paving*
- ✓ *Louisiana Standards for Roads & Bridges*

- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*
- ✓ *Satisfied DBE participation goal of 35%*

(20) Morey, Centanni, and Salvatore Street Improvements, Kenner, LA

Pivotal Engineering was retained by the City of Kenner Department of Public Works to perform the design and construction supervision for the required improvements of the above captioned street. The project included the design of proposed roadway section, subsurface sewer, water and drainage facilities, the relocation of conflicting utilities, as well as the development of specifications and construction oversight. Pivotal personnel also provided public coordination, agency approvals, contractor compliance management, and Owner representation at various public meetings.

Pivotal personnel were responsible for administering the required topographical survey of existing site conditions prior to start of design phase.

The design included a new drainage collection system that will tie into an existing drainage system along an adjacent intersection. This was necessary due to the re-occurrence of street flooding during rain activities in the area.

Pivotal personnel coordinated all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations. Pivotal was responsible for construction management of the overall construction of the above captioned work. The project is valued at \$1,200,000.

The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *Louisiana Standards for Roads & Bridges*

- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*

(21) Lower 9th Ward, Phase 1 Street and Sub Surface Design Improvements, New Orleans, LA

Pivotal Engineering was retained by the City of New Orleans to provide A/E Design, and Construction Management services for the Lower 9th Ward, Phase 1 Street and Sub Surface Design Improvements Project.

The project included the rehabilitation of 32 blocks of roadway in the Lower 9th Ward of New Orleans. Pivotal was responsible for the rehabilitation design of multiple streets to meet the required rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB.

The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.

Pivotal was responsible for administering the required topographical survey of existing site conditions prior to start of design phase and coordinated all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations. The project was valued at \$4 million.

The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *City of New Orleans General Specifications for Street Paving*
- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality*

and the ability to meet schedules and deadlines.

- ✓ *Satisfied DBE participation goal of 35%*

(22) Study of Safety Measures for Major East Bank Roadways, Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish to perform the Study of Safety Measures for Major East Bank Roadways Adjacent to Open Canals. The project included a detailed site investigation and documentation of each open canal section bank top width on plans with supporting photographs. Plans also show the recommended improvements as well as the location of accidents for all four segments. Drainage analysis of the required open canal and box culvert section to accommodate a 10-year design storm were performed. In addition, as a safety measure, the existing median side edge line striping was suggested to be removed and raised pavement markers be installed for all segments where new guard rails are recommended.

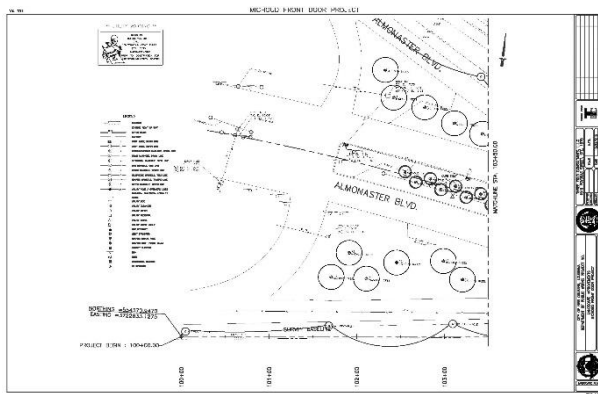


The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*

(23) Michoud Front Door Improvements, New Orleans, LA

Pivotal completed and delivered to the City of New Orleans Michoud Front Door Improvements in teaming arrangements with Stuart Consulting Group. The project included improvements to landscaping, sidewalks, roadways, drainage and lighting.



The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *City of New Orleans General Specifications for Street Paving*
- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*
- ✓ *Satisfied DBE participation goal of 35%*

FEMA, HMGP and CDBG Program/ Construction Management Projects

(1) St. John the Baptist Parish Planning and Zoning Building Environmental and Damage Assessment (Isaac), St. John Parish, LA

Pivotal Engineering provided an Asbestos/Mold inspection and damage assessment of the St. John the Baptist Parish Planning and Zoning Building immediately after Hurricane Isaac. Pivotal's personnel were deployed within 24-hours of request by the Administration to assess storm damage and provide recommendations for re-occupancy. Pivotal's personnel conducted the physical inspection on 9/3/12 and submitted the final report 9/5/12. Pivotal's commitment to the Parish and its employees allowed for timely re-occupation of the building.



(2) St. John the Baptist Parish Minor Housing Repair Program (Gustav/Ike), St. John Parish, LA

Pivotal Engineering provided project management and inspection services for repairs to residential properties throughout St. John the Baptist Parish. Pivotal deployed six (6) inspectors (including three LDEQ Asbestos/Lead Inspectors) to conduct inspections on both the east and west bank of St. John the Baptist Parish. Pivotal worked closely with the Grants Manager to modify the existing program. A review of the program's policies reflected that charges by the program's contractors would exceed both the local and national averages for labor as shown by our RSMeans

software. Pivotal's personnel proposed the implementation of a system of competitive bidding between the contractors. The new system proved valuable. It allowed the Parish to be billed at fair-market rates resulting in the inclusion of more applicants and better allocation of funding. Pivotal's project manager provided real-time cost tracking as construction on properties commenced. Every week, the Grants Manager was provided a "Status Listing" which showed the status of each property inspected and under construction. This listing included the Applicant's Information, Program Eligibility, Project Manager's Opinion of Cost, Construction Cost and Inspection Notes. The listing also showed the program's overall funding available, budget projections and average construction cost of each property. These figures allowed the Grants Manager to be well aware of the program's standing upon request from the Parish President, Chief Administrative Officer and Council Members.



(3) Mimosa Park Elementary School Improvements and Inspections, St. Charles Parish, LA

Pivotal Engineering successfully scoped, designed, and managed the construction of a new 280 ton chilled-water 4-pipe HVAC system and electrical power distribution system for the existing 50,000 square foot campus of Mimosa Park Elementary School. In the long term, the new system will provide a cost savings to the St. Charles School Board of approximately \$10,000 - \$15,000 per year. Pivotal were also responsible for providing staff to conduct baseline, daily, and clearance asbestos air monitoring during the removal of asbestos piping.

(4) St. Charles Parish School Board Transportation Facility, St. Charles Parish, LA

St. Charles Parish School Board's East Bank school bus maintenance facility was 50% over capacity of the existing facility, resulting in delays in both service and maintenance as well as making training difficult. Pivotal was retained to develop the conceptual design for an expanded facility. The improved facility will provide additional service bays, parts storage, new training/meeting room, driver lockers, and offices for dispatch, maintenance and accounting. More efficient electrical and mechanical systems will be incorporated into the new facility. The design will also include new fueling facilities and expanded parking areas, as well as a state-of-the-art bus wash station.

(5) City of New Orleans Mosquito Control Hangar Facility Hurricane Katrina Repairs and Renovations, New Orleans, LA

Pivotal Engineering provided a Comprehensive Damage Report to be reviewed by FEMA and the City of New Orleans for repairs or replacement of the existing facility. This report was critical in substantiating the City of New Orleans' claim for additional funding to repair the facility. Pivotal personnel included in the design an elevated chemical storage, V-Zone structural enhancements, and MEP upgrades. The end result of our diligent work allowed for a building to withstand wind load of up to 135 mph.



(6) City of New Orleans Fire Engine# 10 Hurricane Katrina Repairs and Renovations, New Orleans, LA

Pivotal Engineering was persistence in providing supplemental documentation to FEMA as it related to required building code issues, health and safety issues, and usability of the facility justified the development of four additional revisions to the FEMA PW for this facility. Pivotal personnel were able to successfully substantiate the inclusion of approximately \$220,000 of additional work funded by FEMA.



This work included a new backup generator, new lighting fixtures, new plumbing fixtures, and new air handling units.

(7) FEMA HMGP Elevation Program, Washington Parish, LA

Pivotal Engineering is providing project management and inspection services for repairs to residential properties throughout Washington Parish, under a grant from the FEMA HMGP elevation program.

- a. Pivotal is providing current Flood Elevation Certificate for each property. Coordinate with each homeowner as needed for access.
- b. Pivotal reviewed each FEL to determine the minimum lift required to meet the current BFE plus allowable freeboard.
- c. Pivotal coordinated with each homeowner for a date/time to inspect the property. This inspection shall determine the feasibility of the lift, elevation type, site suitability and structural deficiencies that may impose on the lift.

- d. Pivotal utilized data collected from the site inspection to produce the final design detailing the required scope of work for each property and a proposed cost of construction. The scope of work includes structural improvements needed for a successful lift.
- e. Pivotal provided bid packages for each property based on information contained within the inspection report. Pivotal notified pre-qualified contractors from the Parish's pool via email.
- f. Pivotal assisted the Parish in the collection and tally of bids at final submission and provide a written recommendation of award upon review
- g. Pivotal conducted two (2) milestone inspections; 50% and 100% construction completion, during the course of construction. Each milestone inspection report will be accompanied by a report and progress photos. The reports also identified any construction related issues, proposed change orders and homeowner concerns.
- h. Upon substantial completion, punch list inspections will be conducted on an as-needed basis and reported on the 100% construction inspection report.

Recreational Playground Projects

(1) Norman Playground, New Orleans, LA

Pivotal Engineering was retained by the City of New Orleans Department of Public Works to provide engineering services for Norman Playground. The engineering scope was to provide civil, electrical, mechanical and plumbing engineering services for the new Norman Playground facility in New Orleans, Louisiana.



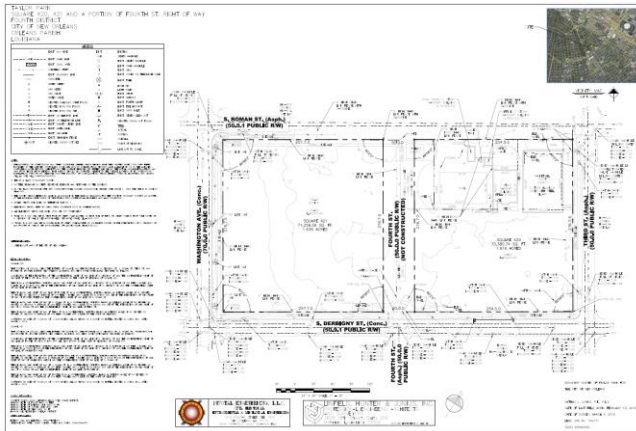
(2) Stallings Gentilly Playground, New Orleans, LA

Pivotal Engineering performed a preliminary structural assessment to add an external room to the existing building in its existing structural condition at the Stallings Gentilly Playground in New Orleans. Pivotal concluded that the add-on was practical and could be done.



(3) Taylor Playground, New Orleans, LA

Pivotal Engineering performed a preliminary electrical assessment to define the required scope of project. Further, Pivotal developed the topographic maps, Right-of-Way map, vicinity maps, TIN surface models and contours from survey field data.



Resident Inspection Projects

(1) Wright Rd, New Orleans, LA

Pivotal is retained by City of New Orleans to provide Design, construction administration and Resident Inspection Service for full roadway reconstruction project including subsurface improvements (drainage,

sewer and water line improvement). The project entails roadway rehabs to 4 blocks (2435 ft). The resident inspection service are required to verify that the construction meets the plans and specs, rehabilitation goals set by FEMA and CNO, and water line replacement program set by S&WB. Since Pivotal is the design engineering firm of this project the resident inspection and coordination is outstanding. The CA and RI service also includes coordinating, contractor and utility companies in conformance to the construction documents of the project. The project is valued at \$6 .2 million.



(2) RR118-Marlyville-Fontainebleau Group C

Pivotal is retained by City of New Orleans to provide Resident Inspection Service for full roadway reconstruction project including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabs to 19 blocks (6,650 ft) in the neighborhood of Fontainebleau Dr. The resident inspection service are required to verify that the construction meets the plans and specs, rehabilitation goals set by FEMA and CNO, and water line replacement program set by S&WB. The inspection service also includes coordinating with the design engineering firm, contractor and utility companies in conformance to the construction documents of the project. The project is valued at \$10.5 million.



(3) RR038 Filmore North Group B

Pivotal is retained by City of New Orleans to provide Resident Inspection Service for full roadway reconstruction project including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabs to 7 blocks (3800 ft) in the neighborhood of Bayou St. John. The resident inspection service are required to verify that the construction meets the plans and specs, rehabilitation goals set by FEMA and CNO, and water line replacement program set by S&WB. The inspection service also includes coordinating with the design engineering firm, contractor and utility companies in conformance to the construction documents of the project. The project is valued at \$ 4.2 million.



(4) St. John the Baptist Parish Planning and Zoning Building Environmental and Damage Assessment (Isaac), St. John Parish, LA

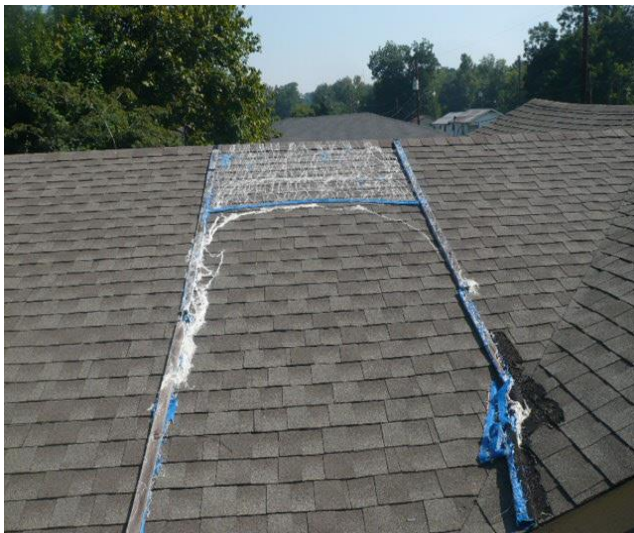
Pivotal Engineering provided an Asbestos/Mold inspection and damage assessment of the St. John the Baptist Parish Planning and Zoning Building immediately after Hurricane Isaac. Pivotal's personnel were deployed within 24-hours of request by the Administration to assess storm damage and provide recommendations for re-occupancy. Pivotal's personnel conducted the physical inspection on 9/3/12 and submitted the final report 9/5/12. Pivotal's commitment to the Parish and its employees allowed for timely re-occupation of the building.



(5) St. John the Baptist Parish Minor Housing Repair Program (Gustav/Ike), St. John Parish, LA

Pivotal Engineering provided project management and inspection services for repairs to residential properties throughout St. John the Baptist Parish. Pivotal deployed six (6) inspectors (including three LDEQ Asbestos/Lead Inspectors) to conduct inspections on both the east and west bank of St. John the Baptist Parish. Pivotal worked closely with the Grants Manager to modify the existing program. A review of the program's policies reflected that charges by the program's contractors would exceed both the local and national averages for labor as shown by our RSMeans software. Pivotal's personnel proposed the implementation of a system of competitive bidding between the contractors. The new system proved valuable. It allowed the Parish to be billed at fair-market rates resulting in the inclusion of more

applicants and better allocation of funding. Pivotal's project manager provided real-time cost tracking as construction on properties commenced. Every week, the Grants Manager was provided a "Status Listing" which showed the status of each property inspected and under construction. This listing included the Applicant's Information, Program Eligibility, Project Manager's Opinion of Cost, Construction Cost and Inspection Notes. The listing also showed the program's overall funding available, budget projections and average construction cost of each property. These figures allowed the Grants Manager to be well aware of the program's standing upon request from the Parish President, Chief Administrative Officer and Council Members.



(6) FEMA HMGP Elevation Program, Washington Parish, LA

Pivotal Engineering is providing project management and inspection services for repairs to residential properties throughout Washington Parish, under a grant from the FEMA HMGP elevation program.

- a. Pivotal is providing current Flood Elevation Certificate for each property. Coordinate with each homeowner as needed for access.
- b. Pivotal reviewed each FEL to determine the minimum lift required to meet the current BFE plus allowable freeboard.
- c. Pivotal coordinated with each homeowner for a date/time to inspect the property. This inspection shall determine the feasibility of the lift, elevation type, site suitability and structural deficiencies that may impose on the lift.
- d. Pivotal utilized data collected from the site inspection to produce the final design detailing the required scope of work for each property

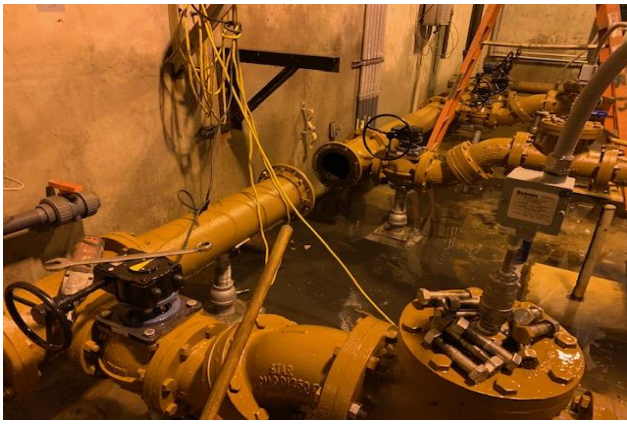
and a proposed cost of construction. The scope of work includes structural improvements needed for a successful lift.

- e. Pivotal provided bid packages for each property based on information contained within the inspection report. Pivotal notified pre-qualified contractors from the Parish's pool via email.
- f. Pivotal assisted the Parish in the collection and tally of bids at final submission and provide a written recommendation of award upon review
- g. Pivotal conducted two (2) milestone inspections; 50% and 100% construction completion, during the course of construction. Each milestone inspection report will be accompanied by a report and progress photos. The reports also identified any construction related issues, proposed change orders and homeowner concerns.
- h. Upon substantial completion, punch list inspections will be conducted on an as-needed basis and reported on the 100% construction inspection report.

(7) Jefferson Parish East Bank WWTP

Pivotal is retained by Jefferson Parish to provide Design, construction administration and Resident Inspection Service for East Bank Waste Water Treatment Plant. The scope of work was to evaluate the existing Filter Press, MCCs and rehabilitate/replace the existing direct on-line motor starters for the filter presses with Variable Frequency Drives (VFDs) and provide the design packages to integrate the new wiring of the VFDs from the existing MCCs by using the existing Circuit Breakers. The construction scope included rehabilitation of Belt Filter Press including electrical panels, controls and electrical works; remove and replace sludge feed pumps, flow meters, muffin monster pumps, polymer feed system, polymer tank and recirculation pump, piping, valves, removable equipment access hatch, remove existing inclined conveyor and replace with horizontal conveyor, remove and replace sludge loading platform and any other items shown on the plans and specifications.

The CA and RI service also guiding the coordination between contractor and the treatment plant on going activities to minimize plant shutdown time in conformance to the construction documents of the project. The project is valued at \$4 .2 million.



(8) Pritchard Road Extension

Pivotal is retained by Jefferson Parish to provide Design, construction administration and Resident Inspection Service for full roadway reconstruction project including improvements such as drainage pipe, drainage ditch, drainage box culvert, and sewer force main relocation . The project entails roadway rehabs to 2 blocks (857 ft). The resident inspection service are required to verify that the construction meets the plans and specs, rehabilitation goals set by Jefferson parish and DOTD. Since Pivotal is the design engineering firm of this project the resident inspection and coordination is outstanding. The CA and RI service also includes coordinating, contractor and utility companies in conformance to the construction documents of the project. The project is valued at \$1 .2 million.



(9) Causeway Street Lighting Improvements

Pivotal was retained by Jefferson Parish to provide design, construction administration and Resident Inspection Service Causeway Boulevard (Veterans Overpass to 6th Street) Street Lighting Improvement. The major scope of the improvement is removal and replacement of existing lighting system.

The CA and RI service also includes coordinating, contractor and utility companies in conformance to the construction documents of the project. The project is valued at \$842,000.



(10) RR139 Plum Orchard/West Lake Forest Group B

Pivotal Engineering is retained by the City of New Orleans Department of Public Works to perform the design and construction management for the Recovery Roads Project in New Orleans East. The project entails roadway rehabs to 19 blocks (6,650 ft) in the neighborhood of Fontainebleau Dr. The resident inspection service are required to verify that the construction meets the plans and specs, rehabilitation goals set by FEMA and CNO, and water line replacement program set by S&WB. As of 2021, Pivotal is providing inspection services in support of the construction activities. The project is valued at \$9 million



Street Lighting Projects

(1) Cousins Blvd Street Lighting Improvement, Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish to perform a preliminary and final design phase services for design and construction plan preparation of the Cousins Blvd. Lighting Improvement (Oakmere Dr. to Woodmere Blvd.). The major scope of the improvement was the installation of a new street lighting system. These facilities are becoming increasingly harder to maintain and far less energy efficient than newer equipment. The proposed project intended to replace these traditional fixtures with energy efficient LED lighting. With the energy efficiency measures proposed, it is expected to reduce the energy use in the range of 25-75% and extend the life of the light fixtures anywhere between 3-25 times their traditional counterparts. The general design requirement of work for this improvement included, but was not limited to, the following:

- a.Length of project is approximately 2600 ft (0.5 Mile) on Parish owned roadway
- b.Recommended pole spacing 140-150 ft
- c.Recommended 27.5 ft. poles, 30 ft. mounting height, 6 ft arm – Single Mast type installed on the south side of the roadway (canal side) , with 20-24” base
- d.Recommended LED lighting - ATB2 40BLEDE10 XXXXX R3 4K P7 PCLL in 4K color Temperature
- e. Recommended 2 feed points (240 volt)

- f. Underground junction box (handholds) is not required. Instead, dual fuse holders shall be used.
- g. Recommended Helical street light foundation
- h. Wiring in directional bore conduit

(2) Jamie Blvd. & W. Tish Dr. Lighting Improvements, Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish to perform preliminary and final design phase services for design and construction plan preparation of the Jamie Blvd. and W. Tish Dr. Lighting Improvement (US 90 to Cambay Dr.). The major scope of the improvement is installation of new street lighting and retrofit of the existing street light system. These facilities are increasingly becoming hard to maintain and are far less energy efficient than newer equipment. The proposed project intends to replace these traditional fixtures with energy efficient LED lighting. With the energy efficiency measures proposed, it is expected to reduce the energy use in the range of 25-75% and extend the life of the light fixtures anywhere between 3-25 times their traditional counterparts. The general design requirement of work for this improvement includes but is not limited to the following:

- a. The following two roadways are included in scope
Jamie Blvd. (US 90 to Cambay Dr.)
W. Tish Dr. (US 90 to Cambay Dr.)
- b. Length of project is approximately 2000 ft (0.4 Mile) each roadway on Parish owned roadway
- c. Recommended pole spacing 140-150 ft
- d. Jamie Blvd. recommended 27.5 ft. poles, 30 ft. mounting height, 6 ft arm – Double Mast type installed on the median, with 20-24” base (Typ. 3 each)
- e. W. Tish Blvd. recommended 27.5 ft. poles, 30 ft. mounting height, 6 ft arm – Single Mast type installed on the side of the road, with 20-24” base (Typ. 3 each)
- f. Both Jamie and W. Tish include retrofit existing street lighting by removing and replacing fixtures (Typ. 14 each).
- g. Recommended LED lighting fixture - ATB2 40BLEDE10 XXXXX R3 4K P7 PCLL in 4K color Temperature

- h. Recommended 1 feed points (120 – 240 volt) for each roadway
- i. Recommended Helical street light foundation
- j. Wiring in a directional bore conduit

(3) Metairie Road Lighting Improvements, Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish to perform a preliminary and final design phase services for design and construction plan preparation of the Metairie Rd. Street Lighting Improvement (Bonnable Blvd. to Orpheum Ave). The major scope of the improvement is installation of street lighting system. The general design requirement of work for this improvement includes but is not limited to the following:

- a. Length of project is approximately 8,500 ft (1.6 Mile) on parish owned back of curb to property line right of way.
- b. Removal of existing metal pole street lights.
- c. Recommended pole spacing 150 to 160 ft
- d. Recommended Dunwoody Aluminum Pole, mounting height 14ft/16ft with 20” base
- e. Recommended 100W LED lighting
- f. Recommended feed points (120 – 240 volt)
- g. Recommended Helical street light foundation
- h. Wiring (directional bore conduit), Fixtures, and miscellaneous construction
- i. Requires Arborist service, tree protection, root pruning and trenching as necessary

(4) West Metairie Road Lighting Improvements, Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish to perform a preliminary and final design phase services for design and construction plan preparation of the W. Metairie Ave. U-Turns Street Lighting Improvement (Roosevelt Blvd. to David Dr.). The major scope of the improvement is installation of street lighting system. The general design requirement of work for this improvement includes, but is not limited to, the following:

- a. The following four W. Metairie Ave. intersections and U-turns are included in the scope.

- Intersection of W. Metairie Ave. and David Drive
 - Intersection of W. Metairie Ave. and Lynnette Drive
 - Intersection of W. Metairie Ave. and N. Bengal Road
 - U turn on W. Metairie Ave. between N. Lester Ave and N. Howard Ave
- b. Recommended pole spacing 150 to 160 ft
 - c. Recommended Dunwoody Aluminum Pole, mounting height 14ft/16ft with 20" base
 - d. Recommended 100W LED lighting
 - e. Recommended 1 feed points (120 – 240 volt) for each intersection
 - f. Recommended Helical street light foundation
 - g. Wiring (directional bore conduit), Fixtures, and miscellaneous construction.
 - h. Median concrete removal, hydro seed grass, and new sidewalk, new ADA ramp

(5) Causeway Boulevard Lighting Improvements, Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish to perform a preliminary and final design phase services for design and construction plan preparation of the Causeway Boulevard (Veterans Overpass to 6th Street) Street Lighting Improvement. The major scope of the improvement included the removal and replacement of existing lighting system. The general design requirement of work for this improvement includes but is not limited to the following:

- a. Length of project is approximately 4,800 ft (0.9 mile) on parish owned roadway.
- b. Removal and replacement of existing street lights (see attached map for approx. locations)
- c. Recommended pole spacing 150 to 160 ft
- d. Recommended mounting height max. 40ft (recommended pole height 35 ft)
- e. Recommended LED lighting
- f. Recommended 3 to 4 feed points (120 – 240 volt)
- g. Recommended Helical street light foundation

- h. Wiring (directional bore conduit), E-boxes, Fixtures, and miscellaneous construction

(6) Green Acres Rd. Lighting Improvements, Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish to perform a preliminary and final design phase services for design and construction plan preparation of the Green Acres Rd. Street Lighting Improvement (W. Metairie Ave. to Airline Dr.). The major scope of the improvement is installation of street lighting system. The general design requirement of work for this improvement includes but is not limited to the following:

- a. Length of project is approximately 2,700 ft (0.51 Mile) on parish owned roadway.
- b. Recommended pole spacing 150 to 160 ft
- c. Recommended mounting height 16ft
- d. Recommended LED lighting
- e. Recommended 2 feed points (120 – 240 volt)
- f. Recommended Helical street light foundation
- g. Wiring (directional bore conduit), E-boxes, Fixtures, and miscellaneous construction

(7) Live Oak Street Solar Lighting Improvements, Jefferson Parish, LA

Pivotal will provide preliminary and final design phase services for design and construction plan preparation of the Live Oak Street Lighting Project (US 90 to S. Kenner Rd). The major scope of the improvement is installation of new solar street lighting system. As per the evaluation phase report, the following general design requirements are established:

- a. Length of project is approximately 18,500 ft (3.5 miles) on Parish owned roadway
- b. Design based on product of Cypress Lighting Technologies, LLC
- c. Pole spacing staggered at 200ft
- d. Pole shall be installed at minimum 6 feet from the edge of travel lane
- e. Single 8 feet long arm shall be used
- f. Fixture mounting height shall be minimum 25 feet

- g. Fixtures shall be all-in-one solar LED Street light (100W) with a minimum 12V 42Ah Lithium battery
- h. Fixture shall be programmable to operate at 30% (30W) when traveling vehicle is not-detected and 80% (80W) when traveling vehicle is detected
- i. Fixture, solar panel and battery shall be warranted for 5 years

Environmental Projects

(1) Ingalls Shipbuilding, Avondale Mainyard, Avondale, LA

Pivotal performed Environmental Site Assessment of 250-acre ship manufacturing facility. Reviewed historical records dating to 1890s and operational data from 1930s. Team conducted details site inspections to locate prudential environmental concerns.

The objective of this project is to conduct an Environmental Site Assessment (ESA) of the Property in accordance with the “Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process,” ASTM Standard E1527-13 (2013), in part to establish the CERCLA “Innocent Land Owner Defense” and whether any potential Recognized Environmental Conditions which can cause a “Business Environmental Risk” (BER) (as defined in ASTM Standard E1527-13) that could adversely impact the Property. Use of ASTM Standard E1527-13 intends to constitute “All Appropriate Inquiries” for establishing Land Owner Liability Protection under the Brownfield Amendments.

(2) Louis Armstrong New Orleans International Airport, Performed Environmental Investigation of Former Burn-pit

Pivotal investigated diesel contaminated soils resulting from past fire-fighting training. Installed eight soil borings and four groundwater wells. Prepared risk assessments and secured a “No Further Action Determination” from the Louisiana Department of Environmental Quality.

(3) Northrop Grumman Ship Systems, Closed Westwego Manufacturing Facility, Westwego, LA

Pivotal identified 35 recognized environmental conditions and conducted site-wide soil, water and groundwater investigation. Prepared detailed risk assessment for closure, served as expert witness during litigation with Union Pacific (landowner). A wastewater treatment permit was secured to treat and discharge over 500,000 gallons of water from the site. This resulted in a \$300,000 savings to the client by eliminating the need for transportation and offsite treatment. Received “No Further Action” required determination from LDEQ.

(4) Northrop Grumman Ship Systems, Closed Manufacturing Facility, Algiers, LA

Pivotal conducted Phase 1 and 2 environmental site assessments. Performed risk assessment and received closure for transfer back to landowner (Port of New Orleans).

(5) Northrop Grumman Ship Systems, Avondale Mainyard Manufacturing Facility, Avondale, LA

Pivotal negotiated cooperative agreement with LDEQ for investigation of impacts detected during site wide utility improvements. Prepared risk assessment for main yard. Closed fuel storage area, former boiler site and lower building ways with “No Further Action.”

(6) City of Shreveport, Woolworth Road Landfill, Shreveport, LA

Pivotal Developed hydro/geological work plan. Liaison for LDEQ approval and exemptions. Prepared permit application for horizontal expansion.

(7) City of Shreveport, Woolworth Road Landfill, Shreveport, LA

Pivotal prepared Title V permit Applications, greenhouse gas reporting, emission inventories and NSPS/MACT reporting.

(8) Louis Armstrong New Orleans International Airport, Performed Environmental Investigation of Fuel Storage area

Pivotal investigated of fuel storage area located at the private air terminal at the airport. Prepared risk assessments and secured a “No Further Action Determination” for the Louisiana Department of Environmental Quality.

(9) Louis Armstrong New Orleans International Airport, Stormwater Permit Compliance

Pivotal provided stormwater compliance for the Airport's water discharge permit. Personnel used ISCO samplers to collect 24-hour composite samples and reported results to the Louisiana Department of Environmental Quality and the City of Kenner's contract operator. Staff reviewed the Airport's Tenants to ensure their operation complied with the Stormwater Pollution Prevention Plan. Staff located the source of a contaminant and assisted the responsible Tenant in modifying operations to prevent future impact to discharges.

(10) Entergy Corporation, Nine Mile Point Generation Facility, Westwego, LA

Pivotal sampled wastewater ponds with low level radioactive isotopes. Prepared risk assessment for closure of wastewater ponds. The project is Approved by LDEQ for “No Further Action.”

(11) Entergy Corporation Sterlington Generation Facility, Sterlington, LA

Pivotal prepared risk assessment for closure of wastewater ponds approved by Louisiana Department of Environmental Quality (LDEQ) for “No Further Action.”

(12) Entergy Corporation, Michoud Generation Facility, Michoud, LA

Pivotal conducted bio assay sampling, analysis and reporting for the Mississippi River Gulf Outlet receiving waters.

(13) Waste Management of Mississippi, Inc, Pecan Grove Landfill, Gulfport, MS

Pivotal prepared wastewater permit applications for discharge to local POTW.

(14) Waste Management of Mississippi, Inc, Pecan Grove Landfill, Gulfport, MS

Pivotal prepared Title V air permit and performed all compliance reporting. Additionally, Pivotal conducted sampling and calculations of leachate to determine compliance with Subpart Kb requirements.

(15) Waste Management of Louisiana, LLC, Reliable Landfill, Livonia, LA

Pivotal prepared permit applications and regulatory compliance documents.

Section 4: Personnel Qualification

Pivotal's Key Personnel have proven excellence in managing projects from cradle to grave while providing value engineering, which saved our clients hundreds of thousands of dollars. Our staff was essential in helping metropolitan New Orleans in expediting its post Katrina recovery by handling and completing over 50 critical City, Parish and/or FEMA funded projects. The current staff of Pivotal has extensive experience managing a variety of complex projects from conception to construction.

The majority of Pivotal's staff has extensive design as well as construction experience. This advantage minimizes contractor change orders, expedites project schedules and improves project details. Our Engineers have great track records with helping our clients meet compressed deadlines while eliminating unnecessary expenses yet delivering better than the intended product. We have also proven to our clients our added "Value Engineering" on several projects, which resulted in direct savings of hundreds of thousands' dollars.

Avinash Mehta, PE Principal In Charge/Client Relations

Education

M.S. Civil Engineering, University of Central Florida, 2003

B.S. Civil Engineering, NMU – India, 2000

Professional Associations

LA PE # 35100

Experience

Mr. Mehta serves as a Principal of Pivotal Engineering. Mr. Mehta has over 18 years of experience managing civil and environmental engineering projects including project budget, schedule and scope, coordination of resources, business development and client liaison activities. His experience includes the project management for A&E projects, process and design, civil engineering, water and wastewater engineering, drainage design and permitting, wastewater system design, potable water system design, conceptual planning, and design for coastal restoration projects.

Bassam Rossi Mekari, PE Senior Electrical Engineer

Education

BS, Electrical Engineering, Louisiana State University 1987

MS in Electrical Engineering - 3 hours remaining

Professional Associations

LA PE # 31801, NFPA Member, ASHRAE Member, American Military Engineers

Experience

Mr. Mekari serves as a Principal of Pivotal Engineering and the Engineering Manager in charge of all of the electrical engineering projects. He has over 28 years of experience in designing and installing electrical distribution systems for public, commercial, and industrial facilities such as schools, fire stations, justice centers, police stations, street lights, lift stations, PLC automations and thermal reactors. He also designed/built electrical installations throughout the US and worldwide. Mr. Mekari has designed over 100 electrical systems and will be instrumental in the overall electrical design and project management.

Yoseph Shifare, PE Project Director/Sr. Civil Engineer

Education

M.S. Civil Engineering, University of Louisville, Kentucky, 2014

B.S. Civil Engineering, University of Asmara, Eritrea, 2001

Professional Associations

LA PE # 42747

Experience

Mr. Shifare serves as a Project Director of Pivotal Engineering in charge of Civil/Transportation engineering projects. He has over 19 years engineering, project and construction management experience for public infrastructures, industrial, commercial and private facilities. As a project director he designs, lead and manage the day to day efforts of engineers on projects that include roadway, traffic, drainage/storm water management, water and wastewater, and landfills. He is responsible to client liaison, manage the strategic aspects of project engagement, review high-level project deliverables, provides leadership, project accounting and ensures the engineering practice meets or exceeds industry standard.

John “Johnny” A. Mekari, P.E.

Senior Electrical Engineer

Education

B.S. Electrical Engineering, 1987

Professional Associations

Louisiana, Electrical Engineering, 25415

Mississippi, Electrical Engineering, 14670

Texas, Electrical Engineering, 87303

Experience

Mr. Mekari serves as the Senior Electrical Engineer of Pivotal Engineering. He has 26 years Electrical Systems Design & Installations Mr. Mekari serves as the Vice President of Pivotal Engineering for the Baton Rouge Operations. He has developed extensive experiences in designing and installing Electrical Distribution Systems and Control Systems for industrial, commercial and municipal facilities. The footprint of the projects designed by Mr. John Mekari extends to local, national and international levels.

James Amodeo, PE

Senior Mechanical Engineer

Education

B.S. Mechanical Engineering, S.U.N.Y at Stony Brook, Stony Brook, New York

Professional Associations

Louisiana / Mechanical / 36489

Colorado / Mechanical / 36652

Experience

Mr. Amodeo serves as the Senior Mechanical Engineer for Pivotal Engineering. He has over 18 years of experience in designing and specifying mechanical and plumbing systems for municipal, industrial, commercial, process and manufacturing applications of all magnitudes. Mr. Amodeo is an ASHRAE Member, NSPE Member, and ASME Member.

Ignatious Mutoti, PE

Water & Wastewater Engineer

Education

PhD, Environmental Engineering, 2003

M.S. Environmental Engineering, 1998

B.S. Applied Chemistry and Chemical Technology, 1993

Professional Associations

Civil/ Environmental Engineering, Virginia, PE 040204016

Experience

Dr. Mutoti has over 23 years of experience in the field of water and wastewater and has held various positions in the public, academic and private consulting sectors. In the past, Dr. Mutoti has held positions as Chemist and Water/Wastewater Laboratory manager, municipal Water/Wastewater Process Engineer responsible for treatment process optimization and troubleshooting for facilities up to 162 MGD. He has taught both undergraduate and graduate level water and wastewater engineering courses as a Professor and has been involved in higher level research projects. Dr. Mutoti has authored and co-authored several journal and newsletter articles and presented at various conferences. He has many years of consulting engineering experience design and operating water and wastewater facilities. In addition, Dr. Mutoti is a certified d water and wastewater plant operator, hydraulic & water quality modeler.

Sundiata Marcelin, PE

Civil Engineer

Education

BS, Civil Engineering

Professional Associations

LA PE # 38589

Experience

Mr. Marcelin has over 10 years of experience in both Civil and Structural Engineering as well as over 15 years of experience in Construction Management. This Civil Engineering experience includes complete urban roadway restoration design with new sewage, water, drainage, and full Right-Of-Way layout in Jefferson, St Bernard, and Orleans Parish. Mr. Marcelin's extensive knowledge of the civil infrastructure and design standards of Orleans Parish makes him a suitable candidate as an experienced design reviewer for both above ground and sub-surface infrastructure. His project experience include roadway, traffic analyses, pavement structural design, use of geosynthetics, geometric design, line and grade analyses, pavement marking, intersection improvements, pedestrian and bicycle lanes or paths, excavation and embankment, traffic, drainage/storm water management, water and wastewater systems.

Tarek Elnaggar, P.E.
Senior Environmental Engineer

Education

M.S. Civil Engineering, University of California, Berkley, 1988

B.S. Civil Engineering, Louisiana State University, 1985

Professional Associations

Louisiana/Civil/Environmental Engineering/23832

Texas/Civil/Environmental Engineering/85089

Mississippi/Civil/Environmental Engineering/14839

Experience

Mr. Elnaggar serves as a Principal of Pivotal Engineering LLC. He is the lead civil and environmental engineer for the company. His 30 years of experience includes project management and design work in roadways, drainage, sewer, earthen levees, floodwalls, floodgates, and pump stations. He has performed multiple engineering projects for public and private clients on the local, state, and federal level. He has also served on the construction program management side with both municipal, and industrial clients, providing oversight of projects designed by other consultants, providing design reviews and coordination between the consultant and the multiple other agencies involved. His experience includes design and construction management for civil and environmental projects including municipal and industrial solid waste permitting, risk assessments, water permitting and compliance, air permitting and compliance, emission inventories and reporting, groundwater investigations, regulatory compliance, environmental process design, and permitting.

Bryan Smith, PE
Environmental Engineer

Education

BS / 2011 / Environmental Engineering

MS / 2014 / Civil and Environmental Engineering

Professional Associations

LA PE # 0043843/ 2019

Experience

Mr. Smith serves as a project engineer at Pivotal Engineering, LLC in support of civil and environmental engineering projects. His projects range from public to private sector and require effort in both the field and the

office. He has experience in infrastructure design, project management, permitting, field sampling, flow rate testing and laboratory analysis.

Eliot Guerin, EI
Civil Engineer Intern

Education

B.S. / 2018 / Civil Engineering

Professional Associations

2018 E.I./Civil Engineering

Experience

Mr. Guerin is a Civil Engineer with 3 years of experience at Pivotal Engineering, focusing on roadway, sanitary sewer, and storm drainage design. His project experience include roadway, traffic analyses, pavement structural design, use of geosynthetics, geometric design, line and grade analyses, pavement marking, intersection improvements, pedestrian and bicycle lanes or paths, excavation and embankment, traffic, drainage/storm water management, water and wastewater, and landfills. He is a very competent design engineer, and hydraulic & water quality modeler, and has excellent CIVIL 3D skills.

Kepal Patel, EI
Electrical Engineer Intern

Education

B.S. Electrical Engineering/University of New Orleans

Professional Associations

LA EI # 34453 / Electrical Engineering

Experience

Mr. Patel serves as an Electrical Designer for Pivotal Engineering. Mr. Patel designing experience includes CADD work, generally to show the pole location, laying out circuit design from the power source to individual poles, type of foundation used, type of fixture used and include its specifications. Currently, he is working on several JP streetlight projects and his role requires Voltage Drop Calculations, Conduit sizes, Wire sizes, grounding and bonding etc. and thus determine what kind of electrical components would be required for the installations.

Irish Jones

Electrical Designer

Education

5 years of college in Electrical Engineering –
University of Texas at Arlington

Professional Associations

None

Experience

Mr. Jones serves as the senior electrical designer of Pivotal Engineering. He has over 40 years of experience in designing electrical installations (power distributions) for industrial and commercial applications of all magnitudes. He obtained his first Class A electrical license in 1967 in Georgia. Being an electrical contractor for over 40 years, Mr. Jones has developed an extensive experience in not only designing and laying out electrical designs, but also in supervising the installations in the construction phase. His expertise allows the team to provide the BEST and MOST ECONOMICAL Electrical Design for any facility. Due to his experience as an electrician and a contractor, Pivotal will not need to depend on the In-plant electrician while conducting the electrical components field investigations.

Darius Cook

Project/Construction Manager

Education

BS, Civil/Environmental Engineering in progress

Professional Associations

Louisiana Licensed: Asbestos Contractor, Asbestos Inspector and Lead Inspector

Experience

Mr. Cook is experienced with overseeing the overall construction activities of the project; preparing daily diary reports of the construction activities; keeping daily, weekly and monthly quantities for the job cost tracking; meeting with contractor and owner's representatives to discuss job progress, concerns, project milestone dates, and contract time and scope; and interacting with the client to make sure all concerns and needs are addressed.

Courtland Parr

Environmental Project Manager

Education

Bachelors of Science in Petroleum Engineering / 2019

Experience

Mr. Parr serves as an Environmental Project Manager at Pivotal Engineering. His experience includes preparing groundwater reports, sampling, and reporting. His experience also includes working in AUTOCAD produce relevant concentration isopleth maps for different parameters.

James Seal

Project/Construction Manager

Education

BS, Construction Management (in progress)

Professional Associations

Certified Flagger

Experience

Mr. Seal serves as a Construction Project Manager of Pivotal Engineering in charge of Civil/Transportation engineering projects construction management. He has over 20 years project and construction management experience for public and municipal infrastructures. His experience exceeds the minimum roadway and drainage inspection requirements of five (5) years. Mr. Seal has successfully completed the Site Inspector and Project Delivery Manager courses at FEMA Emergency Management Institute. In addition, Mr. Seal has extensive training and experience in Hazzard Mitigation. He served as a FEMA contractor, deployed in Miami Florida for hurricane Irma where he managed the repair or replacement of various water and wastewater facilities, recreational facilities as well as beach erosion assessments. His experience exceeds the minimum roadway and bridges inspection requirements of five (5) years.

Luther W. Coates

Roadway/Bridge Construction Inspector

Education

May 1985 Graduated Poplarville High School,
Poplarville, MS

Professional Associations

Certified Embankment and Base Course
Inspection (LADOTD)

- Certified Structural Concrete Inspection (LADOTD)
- PCC Concrete Plant Inspection (LADOTD)
- Authorized Density Tester (LADOTD)
- Authorized Concrete Field Tester (LADOTD)
- Earth Materials as Engineering Materials (NHI)
- Earthwork Site Preparation (NHI)
- TCCC Pipe Inspection (NHI)
- Mix Design for Warm Mix Asphalt (NHI)
- Surveying (NHI)
- Linear Surveying (LADOTD)
- Construction Leveling (LADOTD)
- Highway Plan Reading 1 & 2 (LADOTD)
- ATSSA Traffic Control Technician
- ATSSA Traffic Control Supervisor
- ATSSA Registered Flagger

Experience

Mr. Coates has more than thirty-five years of experience as a construction inspector for various projects of small and big in value including roadway and bridges. While I was with DOTD, I worked on several projects, including the Airline Hwy. Widening Project, the Main St. Baker, (LA 19) Widening, and Joor Rd. His experience exceeds the minimum roadway and bridges inspection requirements of five (5) years.

Stephen G. Bobeck

Roadway Construction Inspector

Education

Diploma, Pope John Paul II High School, Slidell, LA,
1984

United States Navy, San Diego, CA & Philadelphia,
PA, 1985 – 1989

Professional Associations

Certified Flagger

Experience

Mr. Bobeck has fifteen years of experience as a construction inspector for various projects that include cast-in-place structural concrete for bridge and building structures as well as numerous heavy asphalt paving jobs. As Field Technician Manager at Southern Earth Sciences, Mr. Bobeck has overseen the installation and testing of various driven pile foundations including timber-concrete composite and precast prestressed concrete piles. His experience exceeds the minimum roadway and bridges inspection requirements of five (5) years.

Levon Demetris Wright

Sr. Inspector

Education

Civil Engineering/2004/Pensacola Junior College, FL
Associate in Applied Science/ 1989/Auto
Technology/City of Chicago, Germany, West
Germany, Mainz
Associate in Applied Science/Pensacola
Criminal Justice/2010

Professional Associations

TIN #: W623524670

CTQP

2018/Asphalt Plant Inspector, Level 2

2018/Asphalt Plant Inspector, Level 1

2022/Asphalt Paving Inspector, Level 2

2022/Concrete Inspector, Level 346

2022/Earthwork Inspector, Level 1

2022/Earthwork Inspector, Level 2

2022/Final Estimates. Level 2

Does not expire/QA/QC Manager

Experience

Mr. Wright has over 20 years of experience in transportation construction inspection. He excels in coordinating tasks and is effective at managing multiple priorities under tight deadlines. Mr. Wright is highly capable of providing solutions for complex problems while on site. His responsibilities include direct supervision of team members, budget management, reporting, documenting procedures, problem solving, and demonstrating knowledge of applicable laws, regulations, and contract review. His experience exceeds the minimum roadway and bridges inspection requirements of five (5) years.

Warren Braai

Resident Inspector

Education

Marketing/Management– 1978, Our Lady of Holy Cross College, New Orleans, Louisiana

Associate Degree - 1975-1978 - Business Administration
Delgado Community College, New Orleans, Louisiana

Principles of Refrigeration– 1972-1973 - Refrigeration School of New Orleans

Northwestern State College – 1963-1964
Natchitoches, Louisiana

Professional Associations

Certified Welding Inspector
American welding Society QC1-88
Certificate NO. 91080031

Experience

Mr. Braai has 40 Years' experience in Project Coordination/Project Management. His experience also includes QA and QC, welding inspection, fabrication inspection, welding procedures and welding qualification and construction management for onshore and offshore oil and gas production facilities, pipelines, petrochemical plants, and pulp and paper plants. His experience exceeds the minimum roadway inspection requirements of five (5) years.

William Grady Geiger, Jr.

Construction Inspector

Education

Pearl River Junior College, Poplarville, M: Pre-Engineering Program

Tulane University, New Orleans, LA: Civil Engineering Program
Certified Senior Civil Engineering Technician

Professional Associations

Construction Inspector
LA License #012232

Experience

Mr. Geiger has over 45 years of construction inspection experience. Prior to joining Pivotal Engineering, Mr. Geiger was employed by GOTECH Consulting Engineers, Inc. in Baton Rouge, LA where he worked as a field Representative. He was directly responsible for monitoring contractor's quality control on various road projects. Mr. Geiger was also employed by the U.S. Army Corps of Engineers as a senior civil engineer technician for 35 years. His experience exceeds the minimum roadway and bridges inspection requirements of five (5) years.

Cyril M. Duplessis, Sr.

Roadway Construction Inspector

Education

Associate Degree, Program Analyst

Professional Associations

N/A

Experience

Mr. Duplessis is a results-driven professional with extensive experience managing people and project teams, implementing and overseeing construction-based technology programs and administering multi-million-dollar budgets. Possess an in-depth understanding of emerging technologies and their commercial applications. Over thirty years of successful planning and directing activities that provide innovative information technology, telecommunications, and customer service solutions within the construction trade. Backed by strong credentials and a proven history of on-time, on-budget and high-quality project completions, he has a track record of providing quality roadway field inspection services. His experience exceeds the minimum roadway and bridges inspection requirements of five (5) years.

Section 5: Understanding of Project Goals

The Pivotal Team has a long history and considerable amount of design experience as well as experience working on Jefferson Parish project as outlined in Section 3. Our Team fully understands the project goals and requirements as outlined in the RFP under this contract and will combine our knowledge, lessons learned and past project experiences in achieving the following three project goals as described below:

GOAL 1-SCHEDULE: The Team has the needed technical personnel to assure Jefferson Parish that all work will be performed in accordance to the contract scope of work and in strict conformance with the latest Codes, guidelines and standards. The Team has the manpower, equipment, and expertise to execute any given project within a reasonable time frame. The Team is composed of companies that have a reputation of project delivery both on time and within budget. The Team's current workload will allow for quick assignment of technical resources to the project at hand. In addition, the Team has the required management and field personnel readily available to begin the necessary services upon written notification within 24-hours.

- ***Accelerated Design Approach:*** We will implement a "rolling" design process that allows the design to run concurrently with the approval required from various stakeholders. Once selected, and before NTP, we will develop a scoping plan to finalize roadway alignments. This will allow Jefferson Parish and other related departments to proceed quickly. Submission of smaller design packages will promote quicker review times and approvals.
- ***Quality and Team Integration:*** We will utilize stringent internal QA/QC procedures described in detail in Section 6 process to ensure that design and construction meets all the RFP requirements. Our integrated team approach will ensure that all stakeholders are involved in the process from start to finish, and that expectations are understood by all parties. The integrated Team will provide a direct line of communication internally and to anyone who is a representative of Jefferson Parish to the assigned Project Principal and Manager. The integrated Team will provide cell lines as the first line of communication,

followed by e-mail transmissions and office lines as last resorts. The Team will not let calls or e-mails go unanswered more than 24-hours and with this have seen huge success as it relates to our client's reliance on us as their consultant of choice.

- ***Jefferson Parish Approvals:*** We will use our lessons learned from the various RR projects to include the Jefferson Parish as a partner toward achieving the project goals. We will schedule bi-weekly meetings with Public Works early in the design process to ensure our that our design sequence is understood and that our plans will be easily approved at every stage.

GOAL 2 -RIGHT-OF-WAY/ ENVIRONMENTAL RESOURCES: We will minimize impacts to private property and environmental resources by applying practical design approaches. Our Team is committed to executing each project with the highest level of professional care for the protection of human health and the environment. We will continually investigate and document avoidance measure to reduce/eliminate impacts to floodplains, wetlands, forests, streams, buffers, historic properties, communities and endangered species.

GOAL 3-DESIGN EXCELLENCE: Our Team will practice good judgment through execution, as well as sound decision-making within project constraints. PIVOTAL has a history of design excellence, as evidenced by references from various City, state agencies and Parishes across the state. PIVOTAL understands that the key to design excellence is a collaborative, integrated effort between all parties, Including Department of Public Works and the stakeholders. We have a history of completing both large- and small-scale projects and we understand the level of effort that is required to produce quality plans. We will foster a professional environment that promotes solid engineering judgment, places a high value on quality, and ensures DPW and stakeholder expectations are exceeded. All plans and reports released will undergo design QA/QC review, Internal Design Quality Management review, and DPW review as appropriate.

Section 6: Approach to agency coordination and Quality Assurance/Quality Control Plan

6.1 Past Performance with Public Agencies

Pivotal Engineering is currently providing engineering and management services to many municipalities and state agencies in the region including State of Louisiana, City of New Orleans, Jefferson Parish, City of Shreveport, City of Kenner, St. Charles Parish, and St. John Parish. In testimony to our performance history, we offer the following specific references:

- I. Nguyen Phan, P.E., Chief Engineer City of New Orleans DPW. (504) 658-8000, nphan@nola.gov
- II. Khalid L. Saleh, Ph.D, Project Manager Supervisor, City Of New Orleans DPW, (504) 658-8208, ksaleh@nola.gov
- III. Neil Schneider, CCM, P.E. Director of Capital Projects, Jefferson Parish Department of Capital Projects (504) 736-6833, nschneider@jeffparish.net
- IV. Mike Lockwood, Director of Sewerage, Jefferson Parish Department of Sewer (504) 736-6661, mlockwood@jeffparish.net
- V. Mitchell Theriot, P.E. Director of Drainage, Jefferson Parish Department of Drainage (504) 736-6753, mtheriot@jeffparish.net
- VI. Mark Drewes, PE; Director of Public Works, Jefferson parish, Department of Public Works, (504) 736-6783, mdrewes@jeffparish.net
- VII. Angela DeSoto, PE; Director of Engineering; Jefferson Parish, Department of Engineering, (504) 736-6500, adesoto@jeffparish.net
- VIII. Myra Alexis-Valentine, Grants Administer, St. John Parish, (985) 652-9569, m.alexisv@stjohn-la.gov
- IX. Jean Todd, Contracting Officer, US Army Corps of Engineers, (901) 828 – 1503, jean.f.todd@usace.army.mil

Architectural and Engineering Services are also provided to private clients such as Entergy, Waste Management, and private developers.

To achieve the expected project performance schedule, quality of work, and delivery of the projects on time Pivotal follows the best engineering practices:

6.2 Approach and Resources for Successful Project Completion

Pivotal Engineering is well equipped to deliver projects that satisfy all components of design, construction, community engagement and environmental awareness. To achieve the expected outcomes, Pivotal Engineering focuses on the key aspects: logistics, administration, scope, budget, timeframe, technicality, social responsibility, and environmental awareness. These aspects are summarized below:

▪ Approach to Agency Coordination:

The Team will identify responsible agencies as early as practical. The Team will notify Jefferson Parish and address technically any issues of concern regarding the project's scope, potential infrastructure, environmental, social, or economic impacts that could substantially delay or prevent an agency from granting a permit or other approval that is needed for the project. The team will assure that stakeholder agencies are fully engaged in the scoping of the project and the decisions regarding alternatives to be evaluated in detail in the design. Design excellence will be achieved through full collaboration with all the project stakeholders, including utilities, resource agencies, local jurisdictions, communities, property owners and elected officials. We will keep the stakeholders informed through regular updates and face-to-face meetings to ensure their concerns are addressed. By setting expectations for all parties early in the design process and resolving issues quickly, our design plans will reflect the needs of the stakeholders.

The Team understands an agency's role in the development of the project and may include the following as they relate to areas of expertise:

- a. Provide meaningful and early input to address concerns and impacts.
- b. Identify issues that could substantially delay or prevent granting of permits/approvals.

c. Identify opportunities for collaboration, including participating in coordination meetings and joint field reviews, as appropriate.

d. Provide timely compliance with review and comment on preliminary documents to reflect the views and concerns of their respective agencies, alternatives considered and anticipated impacts and mitigation.

▪ ***Capacity to execute environmental projects:***

Pivotal staff have a proven track record with completing environmental projects including large 200+ acre site assessments and large scale site remediation, Pivotal staff have the necessary experience and skill sets to complete any size project. Pivotal ensures redundancy in skills through cross-training on all modeling software, including AutoDesk Sanitary Sewer and Stormwater Analysis, HEC-RAS, H2O Map and ArcGIS packages. Additionally, Pivotal staff are experienced with LandGEM, HELP Model, Sanitas, QGIS and others. Pivotal staff are capable of providing environmental services for project types both large and small.

▪ ***Expertise in Multi-Media Site Investigations, Risk-based Assessment, Reporting and Remediation:***

The Team has considerable experience with solving complex, multi-media environmental problems. From Phase I/II ESA to remediation activities, Pivotal Engineering is well positioned to provide in-house consulting and management of both large- and small-scale environmental projects. The Team is particularly adept at the planning, design, and management of socially sensitive projects. All Team members have worked with communities and public agencies to promote economic growth and to improve the quality of life. For Pivotal Engineering, environmental protection and stewardship are foundational qualities. Each project means more than just a budget and a deadline. Rather, each environmental project is an opportunity to heal long-standing community distrust through sound engineering practice as well as both transparent and effective communication.

The Team has experience and truly understands the significance of solving environmental issues. The future of New Orleans includes environmental leadership and Pivotal Engineering is firmly in support of those efforts.

▪ ***Capacity in Integrating Environmental and Social Concerns:***

The team members that will be assigned to this contract have extensive, specialized experience in preparing Spill Pollution Control and Countermeasures Plans in accordance with 40 CFR Part 112 and Storm Water Pollution Prevention Plans in compliance with LPDES Permits and the U.S. EPA guidance document; *Stormwater Management For Industrial Activities – Developing Pollution Prevention Plans and Best Management Practices*, Office of Water, EPA 832-R-92-006; for public, industrial and private clients across the Gulf South area.

The key personnel involved on the project are senior environmental and geotechnical engineers with tremendous experience in environmental projects which concerns the local citizens. The Team is capable of addressing any concerns by working closely with LDEQ in risk assessments, developing SWPPP, storm water permitting, groundwater investigations, regulatory compliance and environmental process design.

An example can be given by recalling the Lafitte Greenway Project; it was designed by Pivotal. Environmental concerns were mitigated in compliance with LDEQ requirements.

▪ ***Capacity to Create and Lead Multi-Disciplinary Team:***

Pivotal Engineering's management team is comprised of experienced managers and task leaders with proven leadership, thoughtfully bringing together capable Team members with exceptional technical skills and supporting them with good QA/QC processes. Open lines of communication and weekly internal conference calls will ensure that the project is managed successfully, within budget and schedule.

The Team has the ability to assist with both environmental investigation and compliance projects. Furthermore, review of the projects' constructability, inspection, testing reports, cost estimates, meetings participation, contract processing and handling during all phases of the projects can be accomplished by Pivotal accurately. Further, our Team can carry out schematic design services such as outlining and developing general design criteria for enhancement, performing conceptual plans, and preparing and submitting grant applications.

Personnel assigned to this project have an extensive experience in solid waste management, air quality,

water quality, hazardous waste management, environmental site assessments, lead/asbestos abatement, brownfields/Superfund cleanup and management, data validation, and all other related projects. Extensive design experience and a full range of technical and engineering capabilities reinforce the team to successfully complete any related projects as needed by Jefferson Parish. Pivotal has the capability to be in charge of all phases of the referenced projects from the beginning (pre-bid conferences) to delivery of the finished work.

The Team will prepare and submit all the required documents conforming with the City's format, content, and comments. All the drawings and electronic files will be delivered in a format compatible with the City's CAD and software system requirement and have signature and stamp associated with Louisiana registered Civil or Environmental Engineer.

▪ *Team's Ability to Meet Schedules and Deadlines:*

Our Team will carefully track and actively manage the design schedule to ensure that it supports the overall construction schedule. Good judgment will be exercised by including realistic design, QA/QC, and other review and permitting durations. For the benefit of all stakeholders, we will provide a six-week look ahead schedule showing all design packages.

Advance notification of design submissions will be provided to Jefferson Parish and others as required. Regular meetings will be a key element of our approach to design excellence. Disciplines will meet on a weekly basis to discuss the details of the design and coordinate with other disciplines to advance the design. Monthly or Bi-Weekly progress meetings will include all key staff, critical discipline leaders, design /construction leadership, stakeholders and third parties as necessary to complete the work. All meetings will include agendas and meeting minutes including issue tracking/resolution, risk tracking/mitigation, stakeholder concerns/resolutions, permit log/tracking, and six-week look ahead schedules. These meetings will also be used as an opportunity to conduct over-the-shoulder reviews.

The Team has the required technical personnel to assure Jefferson Parish that all work will be performed in accordance with the contract scope of work and in strict conformance with the latest codes, guidelines and standards. The Team has the manpower, equipment, and expertise to execute any given project within a reasonable time frame. The Team is comprised of

Companies that have a reputation of project delivery both on time and within budget.

▪ *Outreach Methods used in the past projects:*

Pivotal Engineering Team has worked closely with Jefferson Parish and other agencies throughout the state of Louisiana coordinating inputs from government agencies, stakeholders and community groups. The outreach was conducted through agencies collaboration meetings, workshops for stakeholders regarding design and management, and community meetings to disseminate the plan for community feedback. The Team understands making this process as extensive as possible will help with community buy-in for green infrastructure implementation and make the implementation of regulations for the betterment of the environment. Pivotal Engineering acknowledges the meaningful role that a community has in project development and overall success and is committed to maintaining symbiotic relationships with communities throughout project life and beyond.

▪ *Experience with the challenges associated with delivering sustainable, regenerative, and resilient projects in the New Orleans area*

In the era of aging infrastructure, such problems will require out-of-the-box and well-developed approaches. Pivotal Engineering has a standing record of delivering site-specific project solutions with adherence to unique conditions. Projects such as the Lafitte Greenway showcase the desire of Pivotal to bring engineering solutions to our region that are both technically feasible and community focused. By the nature of stormwater management by green infrastructure methods, community stakeholders play a vital role in the adoption of the solution. Pivotal is committed to mixing classical drainage techniques, current best management practices and project-specific innovative concepts to each project. Each project will progress with considerations of both the bigger picture and the nuances unique to the project. Additionally, all projects will incorporate concepts that will maximize the life of the project and minimize maintenance requirements thus allowing for both regenerative and resilient qualities to endure over time.

The Greater New Orleans (GNO) area is a wonderfully unique and diverse region. Not many places on the earth have this blend of conditions of topography, soil, rainfall, native vegetation and engineering stormwater management system. As the GNO area moves into the

era of resiliency, special attention much be given to the approaches and guiding values of the solutions. Pivotal has completed many projects, within Orleans Parish, that have allowed adequate time for thorough and extensive investigation of the regional conditions. From roadway projects to environmental remediation activities, Pivotal has investigated the region through all environmental media (soil, water and air) as well as built infrastructure (water/wastewater plants, pump/lift stations, roadways, drainage, etc.). Pivotal is committed to pushing the agenda of stormwater management through technical and social consideration for local conditions, community engagement and longevity. Pivotal understands that solutions should build upon existing knowledge and industry standards not yet adopted in the parish as well as innovative ideas and approaches. The future is bright for Orleans Parish and Pivotal desires to remain a “pivotal” component to the development of our future infrastructure.

6.3 Quality Control & Quality Assurance Plan:

As outlined in this Statement of Qualifications, the Team not only presents the number of professional and support personnel available to perform these types of engineering tasks, but also demonstrates the breadth and diversity of the capabilities of the staff. Beyond this diversity of capabilities, the Team’s key personnel staff has combined experience of greater than 500 years of experience in all phases of project delivery, including Survey, Architectural, Civil, Geotechnical, Mechanical, Electrical, Structural, Environmental Engineering, Construction Management, Construction Inspection and Program/Project Management. These professional qualifications include city, state, and federal certifications in safety, management, and a list of other certifications.

The integrated Team will provide a direct line of communication internally and to anyone who is a representative of Jefferson Parish to the assigned Project Principal and Manager. The integrated Team will provide cell lines as the first line of communication, followed by e-mail transmissions and office lines as last resorts. The Team will not let calls or e-mails go unanswered more than 24-hours. Pivotal has had huge success as it relates to our client’s reliance on us as their consultant of choice.

Our management Team is comprised of experienced managers and task leaders with proven leadership who can thoughtfully bring together capable Team members with exceptional technical skills, and support them with good QA/QC processes. Open lines of communication

and weekly internal conference calls will ensure that the project is managed successfully within budget and schedule.

Pivotal maintains a comprehensive program to ensure that our projects bring the most value to our clients and are of high quality. Each Pivotal project has a comprehensive QA/QC plan to make sure our procedures and documentation conforms to our corporate policies and our client’s requirements. QA/QC is much more than providing reviews and checking computations. Quality is a mindset that is shared by every member of the Pivotal Team. It starts by clearly understanding expectations and making a commitment to meet them every day and with every deliverable. Each project review also includes some elements of internal value engineering. Our senior staff focuses not only on accuracy and completeness, but on value, optimization, simplicity, operations, maintenance, power cost, and constructability.

Our principals and staff have gained this experience not only through many years of providing services to this variety of clients on a very diverse portfolio of projects, but also through focused continuing education. Pivotal Engineering’s principals and staff have all been given accolades on their technical competence and knowledge of administering the contract plans and specifications per agency policy and procedure.

Pivotal believes that quality products and services result from having sound business practices, retaining talented staff, and focusing on being responsive to our client’s needs. Our clients respect us for our philosophy of “doing the right things for the right reasons.”

Quality is integrated into Pivotal’s day-to-day business activities through our Quality Management System (QMS). The programs, policies, and business processes that comprise the QMS have four key elements:

- a. Focus - Management actively promotes quality in our business activities and defines responsibilities for maintaining a quality focus.
- b. Service - Staff members are trained, available, and committed to providing quality services.
- c. Delivery - Processes and procedures are in place that promotes quality in the delivery of our products and services.
- d. Improvement - Continual improvement is achieved through performance measurement and identification of areas for improvement.

Pivotal’s senior management demonstrates its commitment to quality through establishing

responsibilities for quality at all levels of the company, from company principals to members of management to the project team. Responsibilities are documented in Pivotal's QA/QC Program procedures. These procedures define how Pivotal delivers products and services to our clients.

▪ *Experience in creating and working with multi-disciplinary project delivery team:*

Pivotal Engineering's management Team is comprised of experienced managers and task leaders with proven leadership, thoughtfully bringing together capable Team members with exceptional technical skills, and supporting them with good QA/QC processes. Open lines of communication and weekly internal conference calls will ensure that the project is managed successfully, within budget and schedule.

The Pivotal's approach to the assigned project includes integrated and comprehensive engineering services that include facility inventories, development of design criteria, assessment of major engineering components, preparation of specifications, and plans and associated construction cost.

▪ *Approach to Coordinating Project Delivery Tasks:*

The Team will use an Integrated Project Delivery (IPD) approach that integrates staff, systems, team company's structures, and professional practices into a process that collaboratively harnesses the talents and insights of all participants to optimize project results, increase value to the owner and the community, reduces waste, and maximize efficiency through all phases of design, bid, and construction.

The Integrated Project Delivery is assembling a team that is committed to collaborative processes and is capable of working together effectively. In order to accomplish this, the Principal Project Manager will:

- a. Identify the Team's roles that are most important to the project.
- b. Consider interests and seek involvement of select additional parties, such as agency official(s), local utility companies, and other stakeholders.
- c. Define (in a mutually understandable fashion) the values, goals, interests and objectives of the project to the larger program goals.
- e. Identify the Team's organizational and business structure best suited to IPD that is consistent with the Team's capacity and constraints. The choice should not be rigidly bound to traditional project delivery methods but should be flexibly adapted to the project.

f. Develop project agreement(s) to define the roles and accountability of the Team members. The project agreements should be synchronized to assure that company's roles and responsibilities are defined identically in all agreements and are consistent with the agreed Team organizational and business models. Key provisions regarding compensation, obligation, and risk allocation will be clearly defined and should encourage open communication and collaboration.

Attachments

Attachment A – Pivotal Engineering's TEC Form

Attachment B - Linfield, Hunter & Junius, Inc. TEC Form

Attachment C – Gulf South Engineering & Testing, Inc. TEC Form

Attachment A
Pivotal Engineering, LLC TEC Form

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Provide Professional Provide Professional Engineering services related to the design for the Rehabilitation of the Transcontinental & Belle Lift Station (E8-1).

Resolution No. 137449

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

Pivotal Engineering, LLC
3925 N. I-10 Service Rd. West, Suite 109R
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:

Avinash Mehta, P.E., Principal In Charge
3925 N. I-10 Service Rd. West, Suite 109R
Metairie, LA 70002
(504) 799-3653

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.

Avinash Mehta, P.E., Principal In Charge
3925 N. I-10 Service Rd. West, Suite 109R
Metairie, LA 70002
(504) 799-3653

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

<u>0</u> Administrative	<u>1</u> Estimators	<u>0</u> Specification Writers
<u>1</u> Architects (Licensed)	<u>0</u> Geologists	<u>0</u> Structural Engineers
<u>0</u> Chemical Engineers	<u>0</u> Geotechnical Engineers	<u>0</u> Graduate Engineers
<u>3</u> Civil Engineers	<u>0</u> Interior Designers	<u>1</u> Project Managers
<u>8</u> Construction Inspectors	<u>0</u> Landscape Architects	<u>2</u> Clerical
		<u>0</u> Grant/Funding Specialist
<u>0</u> Ecologists	<u>0</u> Land Surveyor	<u>0</u> Sanitary Engineers
<u>2</u> Electrical Engineers	<u>2</u> Mechanical Engineers	
<u>2</u> Engineer Intern	<u>2</u> Environmental Engineers	
<u>0</u> Professional Land Surveyors		<u>22</u> TOTAL

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

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

TEC Professional Services Questionnaire

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

1.

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):
Linfield, Hunter & Junius, Inc. 3608 18th Street, Suite 200 Metairie, LA 70002	Surveying Services	Yes
Gulf South Engineering & Testing, Inc. 15 Veterans Memorial Boulevard Kenner, LA 70062	Geotechnical Services	Yes

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

15

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:

Avinash Mehta, P.E., Principal

Project Assignment:

Principal In Charge - Client Relations

Name of Firm with which associated:

Pivotal Engineering, LLC

Years' experience with this Firm:

8

Education: Degree(s)/Year/Specialization:

M.S. / 2003 / Civil Engineering
B.S. / 2000 / Civil Engineering

Active registration: Year first registered/discipline:

2009 / Civil Engineering / 35100

Other experience and qualifications relevant to the proposed Project:

- Wright Road Improvements; Jefferson Parish, LA
- Eastbank Treatment Plant Upgrade; Jefferson Parish, LA
- N. Sibley & Boone Lift Station Improvements; Jefferson Parish, LA
- Elmwood & Citrus Lift Station Upgrades; Jefferson Parish, LA
- Smith & Toulouse Lift Station Upgrades; Jefferson Parish, LA

Mr. Mehta serves as a Principal of Pivotal Engineering. Mr. Mehta has over 14 years of experience managing Civil and Environmental Engineering projects including project budget, schedule and scope, coordination of resources, business development and client liaison activities. His experience includes the process and design, drainage design permitting, wastewater system design, potable water system design and conceptual planning and design for coastal restoration projects.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Yoseph Shifare, P.E.
Project Assignment:
Project Director/ Sr. Civil Engineer
Name of Firm with which associated:
Pivotal Engineering, LLC
Years' experience with this Firm:
8
Education: Degree(s)/Year/Specialization:
B.S. / 2001 / Civil Engineering M.S. / 2014 / Civil Engineering
Active registration: Year first registered/discipline:
2018 / Civil Engineering
Other experience and qualifications relevant to the proposed Project:
<ul style="list-style-type: none">N. Sibley and Boone Lift Station Improvements; Jefferson Parish, LouisianaCleveland & Avron Sewer Lift Station; Jefferson Parish, LABroadmoor Lift Station Improvements; Shreveport, LACC1 Lift Station Improvements; Luling, LASmith & Toulouse Lift Station Upgrades; Jefferson Parish, LAElmwood & Citrus Lift Station; Jefferson Parish, LAPatriot Lift Station; Jefferson Parish, LA
Experience includes: Mr. Shifare serves as a Project Director of Pivotal Engineering in charge of Civil/Transportation engineering projects. He has over 17 years engineering, project and construction management experience for public infrastructures, industrial, commercial and private facilities. As a project director he designs, leads and manages the day to day efforts of engineers on projects that include roadway, traffic, drainage/storm water management, water and wastewater, and landfills. Mr. Shifare is responsible to client liaison, manage the strategic aspects of project engagement, review high-level project deliverables, provides leadership, project accounting and ensures the engineering practice meets or exceeds industry standard.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Ignatious Mutoti, PE
Project Assignment:
Water and Wastewater Lead Engineer
Name of Firm with which associated:
Pivotal Engineering, LLC
Years' experience with this Firm:
7
Education: Degree(s)/Year/Specialization:
Phd / 2003 / Environmental Engineering M.S. / 1998 / Environmental Engineering B.Sc. / 1993 / Applied Chemistry and Chemical Technology
Active registration: Year first registered/discipline:
Virginia/ Civil/ Environmental Engineering/ PE 040204016
Other experience and qualifications relevant to the proposed Project:
<ul style="list-style-type: none"> State Fair of Virginia Water Supply Storage Systems and Water Booster Station , Caroline County, VA Tampa Bay Water Distribution Water Quality Project ,Florida City of Wildwood Florida – Water and Wastewater Master Plan City of Belleview – Water System Improvements Facilities Planning and Engineering City of Denton Lake Lewisville Water Treatment Plant Upgrade, Denton, TX
Experience includes:
<p>Dr. Mutoti has over 20 years of experience in the field of water and wastewater and has held various positions in the public, academic and private consulting sectors. In the past, Dr. Mutoti has held positions as Chemist and Water/Wastewater Laboratory manager, municipal Water/Wastewater Process Engineer responsible for treatment process optimization and troubleshooting for facilities up to 162 MGD. He has taught both undergraduate and graduate level water and wastewater engineering courses as a Professor and has been involved in higher level research projects. Dr. Mutoti has authored and co-authored several journal and newsletter articles and presented at various conferences. He has many years of consulting engineering experience design and operating water and wastewater facilities. In addition, Dr. Mutoti is a certified water and wastewater plant operator, hydraulic & water quality modeler.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Tarek Elnaggar, P.E., Principal
Project Assignment:
Civil/Environmental Engineer
Name of Firm with which associated:
Pivotal Engineering, LLC
Years' experience with this Firm:
8
Education: Degree(s)/Year/Specialization:
M.S. / 1988 / Civil-Environmental Engineering B.S. / 1985 / Civil-Environmental Engineering
Active registration: Year first registered/discipline:
1990 / Civil/ Environmental Engineering Texas/Civil / Environmental Engineering /85089 Mississippi / Civil/Environmental Engineering/14839 New Mexico / Civil/Environmental Engineering/15032 Colorado/Civil / Environmental Engineering/39440
Other experience and qualifications relevant to the proposed Project:
<ul style="list-style-type: none">• JP Public Works Warehouse; Jefferson Parish, LA• Broadmoor Lift Station Improvements; Shreveport, LA• Engineer's Canal Pump Station Improvement; St. Charles Parish, LA• Westbank ATS Replacement; New Orleans, LA• Transcontinental-Vineyard Lift Station; Jefferson Parish, LA• Patriot Lift Station; Jefferson Parish, LA
Experience includes: Mr. Elnaggar serves as a Principal of Pivotal Engineering LLC. He is the lead civil and environmental engineer for the company. His experience includes design and construction management for civil and environmental projects including water main extensions, water permitting and compliance with DHH, risk assessments, air permitting and compliance, emission inventories and reporting, groundwater investigations, regulatory compliance, environmental process design, permitting, and water and waste treatment system design.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Sundiata Marcelin, P.E., Civil Engineer
Project Assignment:
Civil Project Engineer
Name of Firm with which associated:
Pivotal Engineering, LLC
Years' experience with this Firm:
2
Education: Degree(s)/Year/Specialization:
B.S. / 2004 / Civil Engineering
Active registration: Year first registered/discipline:
2004 / Civil Engineering/ 38589
Other experience and qualifications relevant to the proposed Project:
<ul style="list-style-type: none">• Jefferson Parish East Bank WWTP• Planters Drainage Pump Station• Causeway Street Lighting Improvements; Jefferson Parish, LA• Green Acres Street Lighting; Jefferson Parish, LA• Metairie Rd. Street Lighting; Jefferson Parish LA• W. Metairie Rd. - U Turn St. Lighting• Cousins Blvd. Lighting Improvements (Oakmere Dr. to Woodmere Blvd.)• Jamie Blvd. & W. Tish Dr. Lighting Improvements• Live Oak St. Lighting (US 90 to S. Kenner Rd.)• US 90 (Lapalco to Train Over Pass) Street Lighting Project <p>Mr. Marcellin serves as a Project Civil Engineer at Pivotal Engineering. He has over 10 years of experience in Civil & Structural Engineering & Construction Management. Mr. Marcelin is also experienced with FEA Analysis and Structural Analysis, Hazard Mitigation Design & Residential and Commercial Design & Permitting.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Bassam Mekari, P.E., Principal
Project Assignment:
Principal MEP Project Manager
Name of Firm with which associated:
Pivotal Engineering, LLC
Years' experience with this Firm:
8
Education: Degree(s)/Year/Specialization:
BS /1987 / Electrical Engineering
Active registration: Year first registered/discipline:
2005 / Electrical Engineering
Other experience and qualifications relevant to the proposed Project:
<ul style="list-style-type: none">• N. Sibley and Boone Lift Station Improvements; Jefferson Parish, Louisiana• Cleveland & Avron Sewer Lift Station; Jefferson Parish, LA• Broadmoor Lift Station Improvements; Shreveport, LA• CC1 Lift Station Improvements; Luling, LA• Smith & Toulouse Lift Station Upgrades; Jefferson Parish, LA• Elmwood & Citrus Lift Station; Jefferson Parish, LA• Patriot Lift Station; Jefferson Parish, LA
Experience includes: Mr. Mekari serves as the principal of Pivotal Engineering and the Engineering Manager in charge of all of the electrical and mechanical engineering projects. He has over 25 years of experience in Electrical and Mechanical Systems Design & Installations. He has designed and installed Electrical Distribution Systems for commercial and industrial facilities that range from 13.8KV down to 120/208, managed and designed mechanical and electrical systems for lift stations, Schools, Justice Centers and Police Stations. He designed/built electrical mechanical installations throughout the US and worldwide. Mr. Mekari has designed over 100 electrical and mechanical systems and will be instrumental in the overall design evaluation, improvements and value engineering. Mr. Mekari's forte is creating innovative designs while exceeding client expectations and keeping track of budget. One of the many examples is Ames (Collins) Elementary School where Mr. Mekari was able to save Jefferson Parish School Board a \$250k change order by proving and convincing the parish engineer not to replace the 6" subsurface fire hydrant pipe around the school perimeter with an 8". As a result, not only he saved the Parish ¼ of million dollar change order but the school was able to open on time for the semester.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
James Amodeo, P.E., Sr. Mechanical Engineer
Project Assignment:
MEP Sr. Engineer
Name of Firm with which associated:
Pivotal Engineering, LLC
Years' experience with this Firm:
8
Education: Degree(s)/Year/Specialization:
BS /1994 / Mechanical Engineering
Active registration: Year first registered/discipline:
2011 / Mechanical Engineering
Other experience and qualifications relevant to the proposed Project:
<ul style="list-style-type: none">• N. Sibley and Boone Lift Station Improvements; Jefferson Parish, Louisiana• Cleveland & Avron Sewer Lift Station; Jefferson Parish, LA• Broadmoor Lift Station Improvements; Shreveport, LA• CC1 Lift Station Improvements; Luling, LA• Smith & Toulouse Lift Station Upgrades; Jefferson Parish, LA• Elmwood & Citrus Lift Station; Jefferson Parish, LA• Patriot Lift Station; Jefferson Parish, LA
Experience includes: <p>Mr. Amodeo serves as the Senior Mechanical Engineer for Pivotal Engineering. Mr. Amodeo has more than 25 years of experience in the analysis, design and project construction management for various types of building mechanical systems, plumbing design, and code compliance. Some of the main facilities that Mr. Amodeo designed mechanical systems for are restaurants, schools, hospitals, clinics, fire stations, theaters, shopping centers, office buildings, industrial facilities, lift stations and police stations. Mr. Amodeo is very familiar with Jefferson Parish mechanical rules and regulations and has the ability to provide optimal designs while meeting clients' expectations.</p> <p>Mr. Amodeo will be responsible for all mechanical and plumbing design, review of all applicable code requirements, methodologies and design recommendations and schematics.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Johnny Mekari, P.E., Sr. Electrical Engineer
Project Assignment:
Sr. Electrical Engineer and Project Manager
Name of Firm with which associated:
Pivotal Engineering, LLC
Years' experience with this Firm:
7
Education: Degree(s)/Year/Specialization:
BS /1987 / Electrical Engineering
Active registration: Year first registered/discipline:
1993 / Electrical Engineering
Other experience and qualifications relevant to the proposed Project:
<ul style="list-style-type: none">• Wright Road Improvements; Jefferson Parish, LA• Cleveland & Avron Sewer Lift Station; Jefferson Parish, LA• Broadmoor Lift Station Improvements; Shreveport, LA• CC1 Lift Station Improvements; Luling, LA
Experience includes: <p>Mr. Johnny Mekari serves as the Senior Electrical Engineer for Pivotal Engineering. Mr. Mekari offers more than 26 years of experience in the electrical engineering field which has involved responsibility for the preparation of project budgets and schedules, management of production to meet budget and schedules, management of quality control and advisor to production staff. Work responsibilities have included engineering management, project management, project engineering, lead engineer, supervision, planning and quality control. Mr. Mekari offers not only the technical expertise for electrical projects but also project management experience.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
Bryan B. Smith, P.E., Environmental Project Engineer	
Project Assignment:	
Environmental Engineer	
Name of Firm with which associated:	
Pivotal Engineering, LLC	
Years' experience with this Firm:	
4	
Education: Degree(s)/Year/Specialization:	
BS / 2011 / Environmental Engineering MS / 2014 / Civil and Environmental Engineering	
Active registration: Year first registered/discipline:	
2019 / Environmental / PE 0043843	
Other experience and qualifications relevant to the proposed Project:	
<ul style="list-style-type: none">• Cleveland & Avron Sewer Lift Station Rehabilitation; Jefferson Parish, LA• N. Sibley & Boone Lift Station Improvements; Jefferson Parish, LA• Elmwood & Citrus Lift Station; Jefferson Parish, LA	
Experience includes:	
<p>Mr. Smith serves as a Project Engineer at Pivotal Engineering, LLC in support of civil and environmental engineering projects. His projects range from public to private sector and require effort in both the field and the office. He has experience in infrastructure design, project management, permitting, field sampling, flow rate testing and laboratory analysis.</p>	

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Eliot Guerin, E.I., Civil Engineer Intern
Project Assignment:
Civil Engineer Intern
Name of Firm with which associated:
Pivotal Engineering, L.L.C.
Years' experience with this Firm:
3
Education: Degree(s)/Year/Specialization:
B.S. / 2018 / Civil Engineering
Active registration: Year first registered/discipline:
2018 E.I./Civil Engineering Texas EIT 63617
Other experience and qualifications relevant to the proposed Project:
<ul style="list-style-type: none">• Cleveland & Avron Sewer Lift Station Rehabilitation; Jefferson Parish, LA• N. Sibley & Boone Lift Station Improvements; Jefferson Parish, LA• Elmwood & Citrus Lift Station; Jefferson Parish, LA
Experience includes:
<p>Mr. Guerin is a Civil Engineer with 3 years of experience at Pivotal Engineering, focusing on roadway, sanitary sewer, and storm drainage design. So far, he has done design in these areas for several projects which span municipal utilities to school infrastructure. He has also contributed drafting work, estimation, and contract preparation for Pivotal Engineering. In addition, Mr. Guerin has 6 months of experience at Zachry Group over the course of two internships, one of which was at an active construction site, and contributed a significant amount of estimating work for new power plant construction during this tenure.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Kepal Patel, E.I., Electrical Designer
Project Assignment:
Electrical Designer
Name of Firm with which associated:
Pivotal Engineering, LLC
Years' experience with this Firm:
7
Education: Degree(s)/Year/Specialization:
BS Electrical Engineering 2019
Active registration: Year first registered/discipline:
2019 LA EI # 0034453
Other experience and qualifications relevant to the proposed Project:
<ul style="list-style-type: none">• Jefferson Parish East Bank WWTP• Planters Drainage Pump Station• Causeway Street Lighting Improvements; Jefferson Parish, LA• Green Acres Street Lighting; Jefferson Parish, LA• Metairie Rd. Street Lighting; Jefferson Parish LA• W. Metairie Rd. - U Turn St. Lighting• Cousins Blvd. Lighting Improvements (Oakmere Dr. to Woodmere Blvd.)• Jamie Blvd. & W. Tish Dr. Lighting Improvements• Live Oak St. Lighting (US 90 to S. Kenner Rd.)• US 90 (Lapalco to Train Over Pass) Street Lighting Project
<p>Mr. Patel serves as an Electrical Designer for Pivotal Engineering. Mr. Patel designing experience includes CADD work, generally to show the pole location, laying out circuit design from the power source to individual poles, type of foundation used, type of fixture used and include its specifications. Currently, he is working on several JP streetlight projects and his role requires Voltage Drop Calculations, Conduit sizes, Wire sizes, grounding and bonding etc. and thus determine what kind of electrical components would be required for the installations.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Irish Jones, Sr. Electrical Designer
Project Assignment:
Sr. Electrical Designer
Name of Firm with which associated:
Pivotal Engineering, LLC
Years' experience with this Firm:
8
Education: Degree(s)/Year/Specialization:
N/A
Active registration: Year first registered/discipline:
2014/Building and Electrical General Contractor
Other experience and qualifications relevant to the proposed Project:
<ul style="list-style-type: none">Broadmoor Lift Station Improvements; Shreveport, LAWright Road Improvements; Jefferson Parish, LACC1 Lift Station Improvements; Luling, LAElmwood & Citrus Lift Station Upgrades; Jefferson Parish, LAEastbank Treatment Plant Upgrade; Jefferson Parish, LA <p>Experience includes:</p> <p>Mr. Jones serves as the Senior Electrical Designer for Pivotal Engineering. Mr. Jones has more than 45 years of experience in the analysis, design and project construction management for various types of building electrical systems and code compliance. Some of the main facilities that Mr. Jones designed electrical systems for are restaurants, schools, hospitals, clinics, fire stations, theaters, shopping centers, office buildings, industrial facilities, lift stations and police stations. Due to his field experience as a General Contractor and as a licensed Electrical Contractor, Mr. Jones is capable of providing optimal designs which results in substantial savings to clients. Mr. Jones is very familiar with Jefferson Parish electrical rules and regulations and has the ability to provide optimal designs while meeting clients' expectations.</p> <p>Mr. Jones is a senior level designer who plays an integral role in electrical design work.</p>

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Darius Cook, Project/Construction Manager
Project Assignment:
Construction Manager
Name of Firm with which associated:
Pivotal Engineering, LLC
Years' experience with this Firm:
8
Education: Degree(s)/Year/Specialization:
B.S. / in progress / Civil-Environmental Engineering
Active registration: Year first registered/discipline:
None
Other experience and qualifications relevant to the proposed Project:
<ul style="list-style-type: none">• Wright Road Improvements; New Orleans, LA• Broadmoor Lift Station Improvements; Shreveport, LA• CC1 Lift Station; Luling, LA• N. Sibley & Boone Lift Station Improvements; Jefferson Parish, LA
Experience includes: Mr. Cook serves as the Construction Manager of Pivotal Engineering. Mr. Cook is responsible for overseeing the construction activities of the project; preparing daily dairy reports of the construction activities; keeping daily, weekly and monthly quantities for the job cost tracking; meeting with contractor and owner's representatives to discuss job progress, concerns, and project milestone dates and contract time and scope; interacting with the client to make sure all concerns and needs are addressed.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Levon Demetris Wright, Sr. Inspector
Project Assignment:
Sr. Inspector
Name of Firm with which associated:
Pivotal Engineering, LLC
Years' experience with this Firm:
1<
Education: Degree(s)/Year/Specialization:
Civil Engineering/2004/Pensacola Junior College, FL Associate in Applied Science/ 1989/Auto Technology/City of Chicago, Germany, West Germany, Mainz Associate in Applied Science/Pensacola Criminal Justice/2010
Active registration: Year first registered/discipline:
TIN #: W623524670 CTQP 2018/Asphalt Plant Inspector, Level 2 2018/Asphalt Plant Inspector, Level 1 2022/Asphalt Paving Inspector, Level 2 2022/Concrete Inspector, Level 346 2022/Earthwork Inspector, Level 1 2022/Earthwork Inspector, Level 2 2022/Final Estimates. Level 2
Other experience and qualifications relevant to the proposed Project:
<ul style="list-style-type: none">• RR118-Marlyville-Fontainebleau Group C; New Orleans, LA• Caldwell Blvd Access Road; Davenport, FL• Paths to Progress, Orleans and Jefferson Parishes; New Orleans, LA• Lafayette Regional Airport, 200 Terminal Drive; Lafayette, LA• Mid-Bay Bridge Connector, Mid-Bay Bridge Authority; Niceville, FL
Experience includes:
Mr. Wright has over 20 years of experience in transportation construction inspection. He excels in coordinating tasks and is effective at managing multiple priorities under tight deadlines. Mr. Wright is highly capable of providing solutions for

complex problems while on site. His responsibilities include direct supervision of team members, budget management, reporting, documenting procedures, problem solving, and demonstrating knowledge of applicable laws, regulations, and contract review.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Luther W. Coates, Inspector
Project Assignment:
Inspector
Name of Firm with which associated:
Pivotal Engineering, LLC
Years' experience with this Firm:
1<
Education: Degree(s)/Year/Specialization:
May 1985 Graduated Poplarville High School, Poplarville, MS
Active registration: Year first registered/discipline:
<p>Certified Embankment and Base Course Inspection (LADOTD)</p> <ul style="list-style-type: none"> · Certified Structural Concrete Inspection (LADOTD) · PCC Concrete Plant Inspection (LADOTD) · Authorized Density Tester (LADOTD) · Authorized Concrete Field Tester (LADOTD) <p>Earth Materials as Engineering Materials (NHI)</p> <ul style="list-style-type: none"> · Earthwork Site Preparation (NHI) · TCCC Pipe Inspection (NHI) · Mix Design for Warm Mix Asphalt (NHI) · Surveying (NHI) · Linear Surveying (LADOTD) · Construction Leveling (LADOTD) · Highway Plan Reading 1 & 2 (LADOTD) · ATSSA Traffic Control Technician · ATSSA Traffic Control Supervisor · ATSSA Registered Flagger
Other experience and qualifications relevant to the proposed Project:
<ul style="list-style-type: none"> • LA1 Gateway to the Gulf Bridge Extension; Golden Meadow, LA • LA 3125 turn lanes into Nucor Steel; New Orleans, LA • I-12 Widening Project; New Orleans, LA • Louisiana Department of Transportation and Development Dist. 61 Gang 510; Baton Rouge, LA • Louisiana Department of Transportation and Development Dist. 61 Gang 238; Baton Rouge, LA

Experience includes:

Mr. Coates has more than thirty-five years of experience as a construction inspector for various projects of small and big in value including roadway and bridges. While with DOTD, Mr. Coates worked on several projects, including the Airline Hwy. Widening Project, the Main St. Baker, (LA 19) Widening, and Joor Rd.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Stephen G. Bobeck, Construction Inspector
Project Assignment:
Construction Inspector
Name of Firm with which associated:
Pivotal Engineering, LLC
Years' experience with this Firm:
1<
Education: Degree(s)/Year/Specialization:
Diploma, Pope John Paul II High School, Slidell, LA, 1984 United States Navy, San Diego, CA & Philadelphia, PA, 1985 - 1989
Active registration: Year first registered/discipline:
NJSAT – Asphalt Paving Construction Technologist OSHA - 30 Hour Safety Certification Certified Flagger
Other experience and qualifications relevant to the proposed Project:
<ul style="list-style-type: none">• RR118-Marlyville-Fontainebleau Group C; New Orleans, LA• New Jersey Turnpike Authority, Garden State Parkway Contract; Newark, NJ• New Jersey Turnpike Authority, New jersey Turnpike Authority Contract T300.176. Inspector - Interchange 9 Improvements; Newark, NJ• New Jersey Turnpike Authority, Garden State Parkway Contract P200.260. Inspector - GSP Central Pavement Restoration and Miscellaneous Improvements; Newark, NJ• New Jersey Turnpike Authority, Garden state Parkway Contract P200.218. Inspector – GSP Northern Pavement Restoration and Miscellaneous Improvements; Newark, NJ
Experience includes: Mr. Bobeck has fifteen years of experience as a construction inspector for various projects that include cast- in-place structural concrete for bridge and building structures and numerous heavy asphalt paving jobs. As Field Technician Manager at Southern Earth Sciences, Mr. Bobeck has overseen the installation and testing of various driven pile foundations including timber-concrete composite and precast prestressed concrete piles.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Warren Braai, Inspector
Project Assignment:
Inspector
Name of Firm with which associated:
Pivotal Engineering, LLC
Years' experience with this Firm:
1<
Education: Degree(s)/Year/Specialization:
Marketing/Management– 1978, Our Lady of Holy Cross College, New Orleans, Louisiana Associate Degree - 1975-1978 - Business Administration Delgado Community College, New Orleans, Louisiana Principles of Refrigeration– 1972-1973 - Refrigeration School of New Orleans Northwestern State College – 1963-1964 Natchitoches, Louisiana
Active registration: Year first registered/discipline:
Certified Welding Inspector American welding Society QC1-88 Certificate NO. 91080031
Other experience and qualifications relevant to the proposed Project:
<ul style="list-style-type: none">• Waldermar S. Nelson Company, Inc. Construction Management Group; New Orleans, LA• Warren Inspection Company; Marrero, LA• A&B Industries, Inc. ; Harvey, LA• Petro Chem Inspection ; New Orleans, Louisiana
Experience includes: Mr. Braai has 40 Years experience in Project Coordination/Project Management. His experience also includes QA and QC, welding inspection, fabrication inspection, welding procedures and welding qualification and construction management for onshore and offshore oil and gas production facilities, pipelines, petrochemical plants, and pulp and paper plants.



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
William Grady Geiger, JR., Inspector
Project Assignment:
Inspector
Name of Firm with which associated:
Pivotal Engineering, LLC
Years' experience with this Firm:
1<
Education: Degree(s)/Year/Specialization:
Pearl River Junior College, Poplarville, M: Pre Engineering Program Tulane University , New Orleans, LA: Civil Engineering Program Certified Senior Civil Engineering Technician
Active registration: Year first registered/discipline:
Construction Inspector LA License #012232
Other experience and qualifications relevant to the proposed Project:
<ul style="list-style-type: none">• Cousins Canal Pump Station; Luling, LA• Hoey Canal; New Orleans, LA• Canal Sector Gate Flood Control Project; New Orleans, LA <p>Experience includes: Mr. Geiger has over 45 years of construction inspection experience. Prior to joining Pivotal Engineering, Mr. Geiger Was employed by GOTECH Consulting Engineers, Inc. in Baton Rouge, LA where he worked as a field Representative. He was directly responsible for monitoring contractor's quality control on various road projects. Mr Geuger was also employed by the U.S. Army Corps of Engineers as a senior civil engineer technician for 35 years.</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>Cleveland & Avron Sewer Lift Station Rehabilitation Jefferson Parish, LA</p> <p>Sid Trouard, P.E. Jefferson Parish 1221 Yenni Building, Suite 803 Jefferson, LA 70123 (504) 736-6386</p> <div style="display: flex; justify-content: space-around;">   </div>	<ul style="list-style-type: none"> Reconstruction <p>Pivotal was retained by Jefferson Parish to replace the existing submersible pumps with new submersible pumps with Premium Efficiency Motors and Variable Frequency Drives (VFD) as well as new controls, piping, and valves. 3-15HP pumps will be replaced with 2-25Hp Pumps.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020	\$500,000	\$30,000




TEC Professional Services Questionnaire

PROJECT NO. 2		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>N. Sibley and Boone Lift Station Improvements Jefferson Parish, Louisiana</p> <p>Mitch Theriot P.E. Director Jefferson Parish Drainage Department 1221 Yenni Building, Suite 907 Jefferson Parish, LA 504-736-6753</p> <div style="display: flex; flex-direction: column; align-items: center;">   </div>	<p>Pivotal Engineering was retained by Jefferson Parish to provide preliminary and final design phase services for design and construction plan preparation of the C4-1A (N. Sibley and Boone) Lift Station Rehabilitation project. The major scope of the improvement is replacement of all existing submersible pumps with new submersible pumps with Premium Efficiency Motors and Variable Frequency Drive (VFD) as well as new controls, piping, and valves. 2-15 HP pumps will be replaced with 2-15 HP Pumps.</p> <div style="text-align: center; margin-top: 20px;">  </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2019	\$ 136,428	\$ 136,428

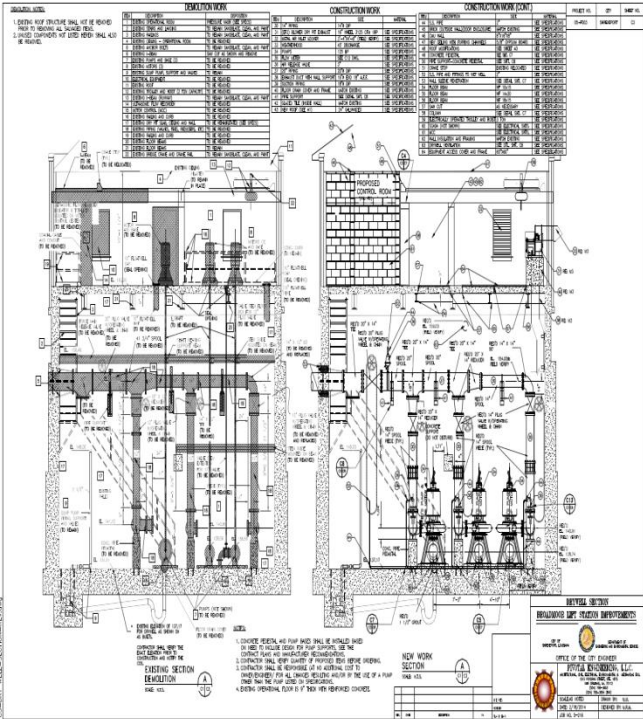
TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Elmwood & Citrus Lift Station Jefferson Parish, LA</p> <p>Sid Trouard, P.E. Jefferson Parish 1221 Yenni Building, Suite 803 Jefferson, LA 70123 (504) 736-63</p> <div style="display: flex; justify-content: space-around;">   </div>	<p>Pivotal Engineering is retained by Jefferson Parish to provide engineering services, inspection and construction administration of Elmwood and Citrus sewer lift station. The scope includes evaluation, preliminary and final design phase services for design and construction plan preparation of the Elmwood & Citrus Lift Station.</p> <p>The Evaluation phase evaluated the feasible relocations of the existing sewer lift station within the parking lot and across Elmwood Park Blvd for the installation of the new lift station.</p> <p>The proposed project includes abandoning existing dry well and pump-out structure, retrofit existing wet well to serve as a manhole, and design a new lift station including NEMA pumps, electrical, and controls required for the construction of the station. The new station required a new 8' fiberglass wet well and valve pit.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2021	\$1,100,000	\$1,100,000

TEC Professional Services Questionnaire

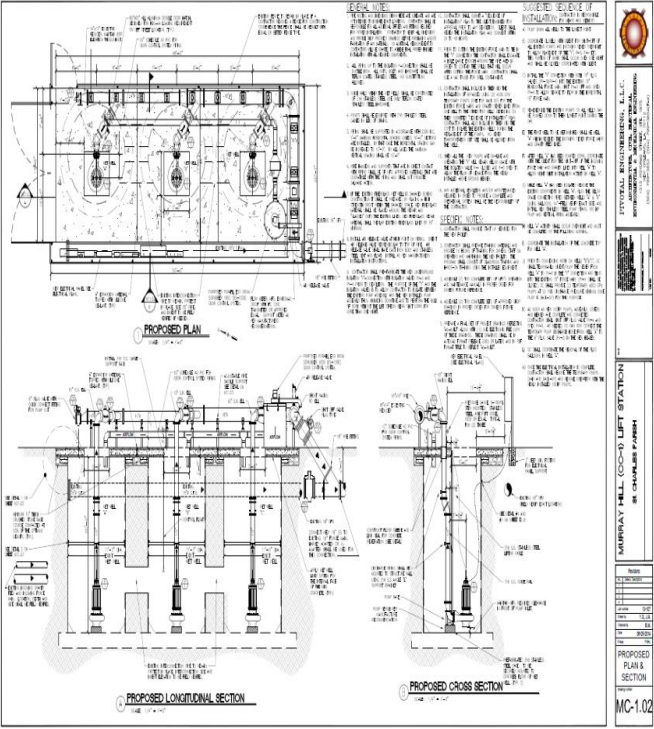
PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Smith & Toulouse Lift Station Upgrades Jefferson Parish, LA</p> <p>Sid Trouard, PE Jefferson Parish, Capital Projects 1221 Elmwood Park Blvd., Suite 906 Jefferson, LA 70123 (504) 736-6386</p> <div style="display: flex; flex-direction: column; align-items: center;">   </div>	<p>Pivotal is retained by Jefferson Parish to provide preliminary and final design phase services for design and construction plan preparation of the H6-5 Smith & Toulouse Lift Station Upgrades.</p> <p>The proposed project includes abandoning existing dry well and pump-out structure, retrofit existing wet well to serve as a manhole, and design new lift station including NEMA pumps, electrical, and controls required for the construction of the station. The new station will require a new 8' fiberglass wet well and valve pit.</p> <div style="text-align: center; margin-top: 20px;">  </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
TBD	\$215,788.59	\$215,788.59

TEC Professional Services Questionnaire

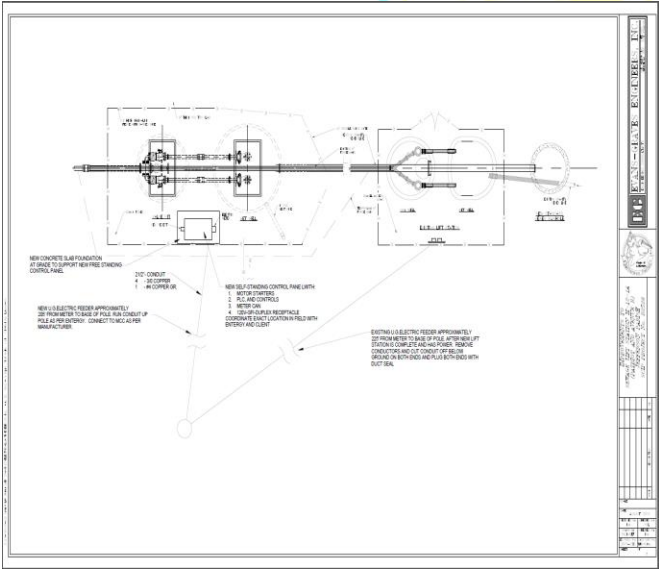
PROJECT NO. 5		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Broadmoor Lift Station Upgrades Shreveport, LA</p> <p>Gary Norman City of Shreveport DPW 505 Travis St. Shreveport, LA 71101 (318) 673-6026</p> 	<ul style="list-style-type: none"> Lift Station Improvements Sewer Design <p>Pivotal personnel were retained by the City of Shreveport to provide A/E services for Broadmoor Lift Station Project.</p> <p>Pivotal was responsible for reviewing the existing plans provided by the Owner; developing preliminary and final design layout plans, mechanical plans and specifications as required by local, city, federal or state agencies. Prior to design, Pivotal personnel designed a new power supply and distribution center (600A, 480V, 3 phase Switch Gear with MCC & VFDs for the (3) new 100 HP pumps) as an upgrade to the facility's existing systems, PLC control, SCADA/Telemetry interface and Automatic Transfer Switch (ATS). Moreover, the scope required the addition of a secondary power supply (600A, 480 V, 3 phase) to the switch gear from a different feeder via an automatic transfer switch. In addition, Pivotal designed a new 18" Mag flow meter in the existing below grade force main and new odor control system in order to eliminate the existing odor problems faced by the neighboring residents. Additional scope included sizing force mains, sizing and selecting pumps, designing bypass pumping plan, rehabilitation of manholes, junction boxes, designing electrical panels and complete architectural improvements to the Lift Station. The project is currently in the Construction Phase. Once the project has been awarded to a contractor, Pivotal will be responsible for the Construction Management Services.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2013	\$3,500,000	\$3,500,000

TEC Professional Services Questionnaire

PROJECT NO. 6

Project Name, Location and Owner's contact information:		Nature of Firm's Responsibility:	
<p>CC-1 Lift Station Improvements, Luling, LA</p> <p>St. Charles Parish Department of Public Works 100 River Oaks Destrehan, LA 985-783-5100</p> 		<ul style="list-style-type: none"> Lift Station Improvements Electrical Panels Switch Gear Sewer Design <p>The scope of the project was a major upgrade and rehabilitation of the existing pump station. The upgrade involved increasing the pumping capacity of the station from 2580 gpm to 4000 gpm (55% pumping capacity increase). Some of the main work scope involved the demolition of the entire existing power distribution gear, removal of existing 6 (30 hp) pumps with all related controls and replacement with (3) 100 hp pumps with soft start controls. Further a cost analysis breakdown between Soft Start and VFDs was performed and the client chose the first option due to budget constraints. Moreover the design involved SCADA controls, new PLC and tying the controls to the department Telemetry system.</p>	
Completion Date (Actual or estimated):		Estimated Cost:	
2014		Entire Project:	Work for which Firm was Responsible:
2014		\$780,000	\$780,000

TEC Professional Services Questionnaire

PROJECT NO. 7						
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:					
<p>Patriot Lift Station; Jefferson Parish, LA</p> <p>Mike Lockwood, Director Jefferson Parish Department of Sewer 1221 Yenni Building, Suite 803 Jefferson, LA 70123 (504) 736-6661</p> <div style="text-align: center; margin-top: 20px;">  </div>	<ul style="list-style-type: none"> Pivotal was tasked with preparing a full electrical design for the Patriot Lift Station (located in Jefferson Parish). <p>The overall system consisted of a NEMA 4X self-standing main control panel/MCC, 240, 3 phases, 4 wires. The control panel also included logic to allow the pump motors to start/stop manually from the push bottoms at the panel or automatically via the PLC inside the panel. The PLC also controlled the levels at the well and the backup level system. All of the PLC digital and analogue inputs/outputs were also transmitted from the PLC to the Jefferson Parish SCADA system central facility via radio signal.</p> <p>One of the main challenges Pivotal faced was the urgency to produce 100% stamped Construction Documents, full specifications and a cost estimate in only 5 days. Pivotal was able to meet the stringent deadline. Another challenge was the lack of existing drawings, which required Pivotal to go to the site and verify available utilities/power and incorporate it into the design drawings. Again, Pivotal was able to do so within the 5 days' time frame and complete the project on time.</p>					
<p style="text-align: center;">Completion Date (Actual or estimated):</p>	<p style="text-align: center;">Estimated Cost:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%; padding: 5px; text-align: center;">Entire Project:</th> <th style="width: 50%; padding: 5px; text-align: center;">Work for which Firm was Responsible:</th> </tr> <tr> <td style="width: 50%; text-align: center; padding: 10px;">2015</td> <td style="width: 50%; text-align: center; padding: 10px;"> <div style="display: flex; justify-content: space-around;"> \$1,000,000 \$500,000 </div> </td> </tr> </table>		Entire Project:	Work for which Firm was Responsible:	2015	<div style="display: flex; justify-content: space-around;"> \$1,000,000 \$500,000 </div>
Entire Project:	Work for which Firm was Responsible:					
2015	<div style="display: flex; justify-content: space-around;"> \$1,000,000 \$500,000 </div>					

TEC Professional Services Questionnaire

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Page & Longfellow Lift Station Improvements Jefferson Parish, LA</p> <p>Mike Lockwood, Director Jefferson Parish Department of Sewer 1221 Yenni Building, Suite 803 Jefferson, LA 70123 (504) 736-6661</p> <div style="display: flex; justify-content: space-around;">   </div>	<ul style="list-style-type: none"> Construction Management for new Power distribution system, piping, and pumps <p>Pivotal Engineering, LLC was retained by Jefferson Parish to provide Construction Management for the Page & Longfellow Lift Station Improvements.</p> <p>The project consisted of installation of a new power distribution system, valves, piping, pumps, and odor control system. Pivotal stationed a Resident Inspector for the entirety of construction. Pivotal's Resident Inspector was tasked with providing daily reports to document the Contractor's daily activities, project progress, and photo documentation to be provided to the client on a daily basis.</p> <p>Pivotal was also responsible for providing review of Contractor Pay Applications, Change Order Requests, and RFIs in a timely manner.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2015	\$1,000,000	\$400,000

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Wright Road Improvements New Orleans, LA</p> <p>Nguyen Phan City of New Orleans 1300 Perdido Street New Orleans, LA (504) 658-8000</p>	<ul style="list-style-type: none"> Roadway Paving and Curb Design Subsurface Drainage and Sewer Design Construction Management <p>Pivotal personnel were retained by the City of New Orleans for the design of Wright Road located in New Orleans East. The project entailed the design of a new roadway section, subsurface sewer, water and drainage facilities, the relocation of conflicting utilities, as well as the development of specifications and construction oversight. Pivotal engineering staff has also been required to provide public coordination, agency approvals, oversee contractor compliance, and represent the Owner at various public meetings.</p> <ul style="list-style-type: none"> Reviewed the required topographical survey of existing site conditions prior to start of design phase. Designed new drainage network for 10 years return period. Designed new gravity sewer collection system to replace existing system that had been in service for more than 40 years. Designed new water main and located it on the median. Designed new street for tie-in to side streets. 	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2013	\$9,000,000	\$9,000,000

TEC Professional Services Questionnaire

PROJECT NO. 10								
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:							
<p>East Bank Treatment Plant Upgrade, Jefferson Parish, LA</p> <p>Linda Daly, Director Jefferson Parish Department of Sewer 1221 Yenni Building, Suite 803 Jefferson, LA70123 (504) 736-6661</p> <div style="display: flex; justify-content: space-around; margin-top: 20px;">   </div>	<ul style="list-style-type: none"> Rehabilitation of Filter Presses Replacing Sludge Feed Pumps, Piping, Electrical Panels, Polymer Feed System Construction Inspections <p>The scope of work was to evaluate the existing Filter Press, MCCs and rehabilitate/replace the existing direct on-line motor starters for the filter presses with Variable Frequency Drives (VFDs) and provide the design packages to integrate the new wiring of the VFDs from the existing MCCs by using the existing Circuit Breakers. The project included replacing five sludge feed pumps and the associated piping and controls.</p>							
Completion Date (Actual or estimated):	<div style="text-align: center;">Estimated Cost:</div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 50%; padding: 5px; text-align: center;">Entire Project:</th> <th style="width: 50%; padding: 5px; text-align: center;">Work for which Firm was Responsible:</th> </tr> <tr> <td style="text-align: center; padding: 10px;">2020</td> <td style="text-align: center; padding: 10px;"> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center; padding: 10px;">\$3,600,000</td> <td style="width: 50%; text-align: center; padding: 10px;">\$3,600,000</td> </tr> </table> </td> </tr> </table>		Entire Project:	Work for which Firm was Responsible:	2020	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center; padding: 10px;">\$3,600,000</td> <td style="width: 50%; text-align: center; padding: 10px;">\$3,600,000</td> </tr> </table>	\$3,600,000	\$3,600,000
Entire Project:	Work for which Firm was Responsible:							
2020	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 50%; text-align: center; padding: 10px;">\$3,600,000</td> <td style="width: 50%; text-align: center; padding: 10px;">\$3,600,000</td> </tr> </table>	\$3,600,000	\$3,600,000					
\$3,600,000	\$3,600,000							

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. None		
2.		
3.		
4.		

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

PIVOTAL ENGINEERING, LLC

Pivotal Engineering, LLC is a full service engineering design firm based in New Orleans, Louisiana. Pivotal has established a reputation for providing superior service to its clients and delivering quality work on time and within budget. Pivotal's principals and staff have in excess of 200 years of combined experience in civil engineering, mechanical engineering, electrical engineering, environmental engineering and program/project management for both public and private entities across the Gulf South Region. The current staff of Pivotal has extensive experience managing a variety of complex projects, from conception to construction.

Pivotal Engineering is a certified Small Business Enterprise with both the Small Business Administration and the New Orleans Regional Transit Authority. Furthermore, Pivotal is certified as a Disadvantaged Business Enterprise with City of New Orleans, Sewerage & Water Board of New Orleans, Louis Armstrong New Orleans International Airport, Harrah's New Orleans Casino & Hotel, and The Housing Authority of New Orleans (HANO). Pivotal Engineering is also certified by the Louisiana Department of Economic Development as a Small Entrepreneurship SE (Hudson Initiative) firm.

MINIMUM REQUIREMENTS

1. "The persons or firms under consideration shall have at least one (1) principal who is a registered professional engineer in the State Louisiana."

Avinash Mehta, P.E.

MS/2003/Civil Engineering; BS/Civil Engineering

Louisiana Civil Engineer, P.E. #0035100

2. "The persons or firms under consideration shall have a professional in charge of the Project who is a registered professional engineer in the State of Louisiana with a minimum of (5) years' experience."

Avinash Mehta, P.E.

MS/2003/Civil Engineering; BS/Civil Engineering

Louisiana Civil Engineer, P.E. #0035100

Terry Elnaggar, P.E.

M.S./1988/Civil Engineering; B.S./1985/Civil Engineering

Louisiana Civil Engineer, P.E., #0023832

Louisiana Environmental Engineer, P.E., #0023832

3. "The persons or firms under consideration shall have one (1) employee who is a registered professional engineer in the State of Louisiana in the applicable discipline involved. A Sub-contractor may meet this requirement only if the advertised Project involves more than one discipline."

Avinash Mehta, P.E.

MS/2003/Civil Engineering; BS/Civil Engineering

Louisiana Civil Engineer, P.E. #0035100

Bassam Mekari, P.E.

BS/1987/Electrical Engineering

Louisiana Electrical Engineer, P.E. #31801

Nathan J. Junius, P.E., P.L.S., PTOE

B.S./2001/Civil Engineering

M.S./2002/Civil Engineering

Louisiana Civil Engineer, P.E. #0031843

Louisiana Land Surveyor, PLS.#0004958

Chad M. Poché, P.E.

MS/1998/Civil Engineering

BS/1993/Civil Engineering

Louisiana Civil Engineer, P.E. #27667

Mississippi Civil Engineer, P.E. #15405

EVALUATION CRITERIA

(1) “Professional training and experience in relation to the type of work required for the engineering services”

The Pivotal Engineering design team brings an unparalleled depth of civil, mechanical, electrical, instrumentation and control, structural engineering, construction management and program management experience and capabilities to provide the Jefferson Parish with the most effective and efficient approach for the development of the civil, mechanical and electrical system upgrades to the Parish’s water systems.

The majority of Pivotal staff has extensive design as well as construction experience. This advantage minimizes contractor change orders, expedites project schedules and improves project details. Our Engineers have great track records with helping our clients meet compressed deadlines while eliminating unnecessary expenses yet delivering better than the intended product. We have also proven to our clients our added “Value Engineering” on several projects which resulted in direct savings of hundreds of thousands of dollars.

Our approach to the assigned project includes integrated and comprehensive engineering services that include facility inventories, development of design criteria, assessment of major engineering components, preparation of equipment specifications, and plans and associated construction cost.

Upon receiving the notice to proceed, we will request a kick off meeting with the Jefferson Parish on site to: a) introduce key team members; b) discuss the work strategy and detailed scope; and c) receive related documents from the City to begin the overall review process.

For the Pivotal Team, safety comes first and no compromises will be allowed. We have zero tolerance safety procedures to perform our tasks for all of our employees. We follow the guidelines that incorporate SAFE work practices as endorsed by NFPA 70E and OSHA. Pivotal has conducted several field inspections on similar projects in order to evaluate live electrical equipment and our staff is highly experienced in safely performing such tasks. Our designated Senior Field Designer/Inspector dedicated to this job has 40 years of experience as a licensed contractor. Pivotal’s field personnel will coordinate with the Jefferson Parish to determine anticipated field investigation schedule and duration for proper scheduling of any shutdowns that may be necessary to collect the field data. Visual inspection does not need scheduled shutdowns.

Our management team is comprised of experienced managers and task leaders with proven leadership, thoughtfully bringing together capable team members with exceptional technical skills, and supporting them with good QA/QC processes. Open lines of communication and weekly internal conference calls will ensure that the project is managed successfully, within budget and schedule.

Our Team is committed to defining the project and setting expectations as our first step toward making that project a success. We as a team will apply various techniques for project estimation and cost control including:

- Set Expectations Early, Review Often
- Planning the Project Budget
- Keeping Track of Costs
- Establishing a Communication Plan
- Effective Time Management
- Project Change Control
- Use of Earned Value to Monitor Both Cost and Schedule

Our integrated team will provide an optimized concurrent engineering environment that provides an opportunity to substantially reduce the total cost of a project. Benefits of our integrated team with members of various skilled disciplines enable a simultaneous contribution to an early project definition and increase the likelihood of a reduced lifecycle cost by avoiding costly alterations later in the design process.

Pivotal Engineering, LLC is not nor has ever been in any litigation/ disqualified with the Jefferson Parish or any other state and federal agencies, within the past five (5) years, because of our performance.

(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.”

As outlined in this Statement of Qualifications, Pivotal not only presents the number of professional and support personnel available to perform this type of engineering tasks, but also demonstrates the breadth and diversity of the capabilities of the staff. Beyond this diversity of capabilities, Pivotal Engineering’s Civil, Planning, Design and Inspection staff has combined experience of greater than 200 years of experience in all phases of project delivery, including electrical, civil, mechanical, environmental, planning, management, design, and construction supervision experience. Professional qualifications include city, state, and federal certifications in safety, management, and a list of other certifications. The Pivotal drafting team is well versed in a variety of software including CIVIL 3D, HEC RAS, H2O MAP and Arc GIS. We ask that you note the resumes included herein for further information.

(3) “Capacity for timely completion of newly assigned work, considering the factors of type of routine engineering task, current unfinished workload, and person or firm’s available professional and support personnel.”

Pivotal Engineering has a depth of technical capabilities and expertise to complete the assigned work in a timely manner. We have the needed technical personnel to assure the Parish that all work will be performed in accordance to the contract scope of work and in strict conformance with the latest City guidelines and standards. Pivotal has the manpower, equipment, and expertise to execute any given project within a reasonable time frame. Pivotal staff has a reputation of project delivery both on time and within budget. Pivotal Engineering’s current workload will allow for quick assignment of technical resources to the project at hand. The firm has the required management and field personnel readily available to begin the necessary services upon written notification.

Historically, Pivotal has provided a direct line of communication to anyone who is a representative of the client to the assigned Project Principal and Manager. It has been our goal to make communication a priority. We’ve provided cell lines as the first line of communication, followed by e-mail transmissions and office lines as last resorts. We do not let calls or e-mails go unanswered more than 24-hours and with this have seen huge success as it relates to our client’s reliance on us as their consultant of choice.

▪ **Approach to Agency Coordination:**

The Pivotal Team will identify responsible agencies as early as practical. The Team will notify the Jefferson Parish and address technically any issues of concern regarding the project’s scope, potential infrastructure, environmental, social, or economic impacts that could substantially delay or prevent an agency from granting a permit or other approval that is needed for the project. The team will assure that agencies are fully engaged in the scoping of the project and the decisions regarding alternatives to be evaluated in detail in the design.

The Team understands an agency’s role in the development of the project and may include the following as they relate to areas of expertise:

1. Provide meaningful and early input to address concerns and impacts.
2. Identify issues that could substantially delay or prevent granting of permits/approvals.
3. Identify opportunities for collaboration, including participating in coordination meetings and joint field reviews, as appropriate.
4. Provide timely compliance with review and comment on preliminary documents to reflect the views and concerns of their respective agencies, alternatives considered and anticipated impacts and mitigation.

■ Approach to Coordinating Project Delivery Tasks:

The Team will use an Integrated Project Delivery (IPD) approach that integrates staff, systems, team company's structures and professional practices into a process that collaboratively harnesses the talents and insights of all participants to optimize project results, increase value to the owner, to the community, reduce waste, and maximize efficiency through all phases of design, bid, and construction.

The Integrated Project Delivery is assembling a team that is committed to collaborative processes and is capable of working together effectively. In order to accomplish this, Principal project manager will:

1. Identify the Team's roles that are most important to the project.
2. Consider interests and seek involvement of select additional parties, such as agency official(s), local utility companies, and other stakeholders.
3. Define in a mutually understandable fashion the values, goals, interests and objectives of the project to the larger program goals.
4. Identify the Team's organizational and business structure best suited to IPD that is consistent with the Team's capacity and constraints. The choice should not be rigidly bound to traditional project delivery methods, but should be flexibly adapted to the project.
5. Develop project agreement(s) to define the roles and accountability of the Team members. The project agreements should be synchronized to assure that company's roles and responsibilities are defined identically in all agreements and are consistent with the agreed Team organizational and business models. Key provisions regarding compensation, obligation and risk allocation will be clearly defined and should encourage open communication and collaboration.

(4) "Past performance by person or firm on projects of or similar comparable size, scope, and scale. Assertions of fault by a person or firm, which shall include time delays, cost over-runs, and or design inadequacies in prior work completed for the Parish shall be evidenced by substantiating documentation or the Director of Engineering and received by the Chairman of the Evaluation Committee a minimum of two (2) weeks prior to the scheduled date of the Technical Evaluation Committee meeting."

Pivotal Engineering has a history of providing lift station design, wastewater, street, water, and drainage design and construction administration services to many municipalities and state agencies in the region including; The City of New Orleans, The City of Shreveport, Sewerage and Water Board, The City of Kenner, St. Charles, St. John and Jefferson Parishes. These services have also been provided to private clients such as Entergy and Waste Management. Pivotal Engineering has in depth understanding of local, state, and federal governmental agencies procedures and regulations. The scope of work on which our staff has worked on includes: water treatment plant improvements, master planning, elevated storage tank designs, sewer treatment plant upgrades, lift stations, build/repair streets, sidewalks, bike paths, drainage systems and utilities. Our engineers have great track records with helping our clients meet compressed deadlines yet delivering the project within budget. Pivotal personnel have heavy construction background capabilities and we have several construction inspectors with extensive experience on board.

Our staff has proven excellence in managing projects from cradle to grave while providing value engineering which saved our clients hundreds of thousands of dollars. Our staff was essential in helping the city of New Orleans expediting its recovery post Katrina by handling and completing over 50 critical FEMA funded projects. Our staff has extensive experience in managing multi-million-dollar projects and programs for public infrastructure and CDBG disaster recovery.

Pivotal maintains a comprehensive program to ensure that our projects bring the most value to our clients and are of high quality. Each Pivotal project has a comprehensive QA/QC plan to make sure our procedures and documentation conforms to our corporate policies and our client's requirements. QA/QC is much more than providing reviews and checking computations. Quality is a mindset that is shared by every member of the PIVOTAL team. It starts by clearly understanding expectations and making a commitment to meeting them every time with every deliverable. Each project review also includes some elements of internal value engineering.

Our Principals and Staff have gained this experience not only through many years of providing services to this variety of clients on a very diverse portfolio of projects, but also through focused continuing education. Pivotal Engineering's principals and staff have all been given accolades on their technical competence and knowledge of administering the contract plans and specifications per agency policy and procedure. Our senior staff focuses not only on accuracy and completeness, but on value, optimization, simplicity, operations, maintenance, power cost, and constructability.

Pivotal believes that quality products and services result from having sound business practices, retaining talented staff, and focusing on being responsive to our client's needs. Our clients respect us for our philosophy of "doing the right things for the right reasons."

Quality is integrated into PIVOTAL's day-to-day business activities through our Quality Management System (QMS).

The programs, policies, and business processes that comprise the QMS have four key elements:

- Management actively promotes quality in our business activities and defines responsibilities for maintaining a quality focus.
- Staff members are trained, available and committed to providing quality services.
- Processes and procedures are in place that promotes quality in the delivery of our products and services.
- Continual improvement is achieved through performance measurement and identification of areas for improvement.

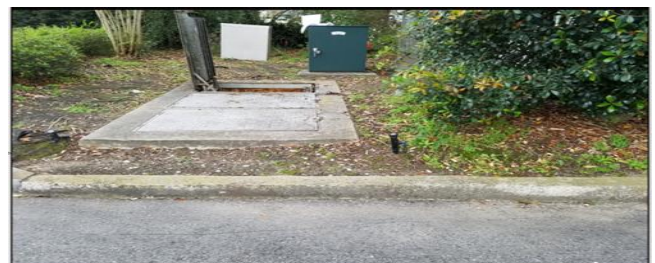
The Team has considerable knowledge in the design and planning of water and wastewater projects and electrical assessments/upgrades. The Team involves particularly adept at the planning, design, and management of wastewater facilities. All Team members have worked with communities and public agencies to provide design solutions for the improvements to wastewater systems.

Pivotal Team has worked on the following partial listing of relevant projects:

Sewer/Lift Station Projects

(1) Cleveland & Avron Sewer Lift Station Rehabilitation; Jefferson Parish, LA

Pivotal was retained by Jefferson Parish to replace the existing submersible pumps with new submersible pumps with Premium Efficiency Motors and Variable Frequency Drives (VFD) as well as new controls, piping, and valves. 3-15HP pumps will be replaced with 2-25Hp Pumps.



(2) N. Sibley & Boone Lift Station Improvements; Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish to provide preliminary and final design phase services for design and construction plan preparation of the C4-1A (N. Sibley and Boone) Lift Station Rehabilitation project. The major scope of the improvement is replacement of all existing submersible pumps with new submersible pumps with Premium Efficiency Motors and Variable Frequency Drive (VFD) as well as new controls, piping, and valves. 2-15 HP pumps will be replaced with 2-15 HP Pumps.



(3) N. Elmwood & Citrus Lift Station Upgrades; Jefferson Parish, LA

- Abandon of existing sewer lift station and install new lift station.

Pivotal Engineering is retained by Jefferson Parish to provide engineering services, inspection and construction administration of Elmwood and Citrus sewer lift station. The scope includes evaluation, preliminary and final design phase services for design and construction plan preparation of the Elmwood & Citrus Lift Station.

The Evaluation phase evaluated the feasible relocations of the existing sewer lift station within the parking lot and across Elmwood Park Blvd for the installation of the new lift station.

The proposed project includes abandoning existing dry well and pump-out structure, retrofit existing wet well to serve as a manhole, and design a new lift station including NEMA pumps, electrical, and controls required for the construction of the station. The new station required a new 8' fiberglass wet well and valve pit.

(4) Smith & Toulouse Lift Station Upgrades; Jefferson Parish, LA

Pivotal is retained by Jefferson Parish to provide preliminary and final design phase services for design and construction plan preparation of the H6-5 Smith & Toulouse Lift Station Upgrades.

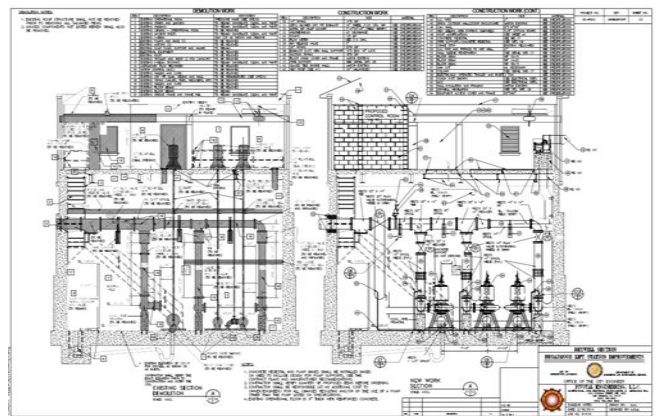


The proposed project includes abandoning existing dry well and pump-out structure, retrofit existing wet well to serve as a manhole, and design new lift station including NEMA pumps, electrical, and controls required for the construction of the station. The new station will require a new 8' fiberglass wet well and valve pit.

(5) Broadmoor Lift Station Upgrades; Shreveport, LA

- Lift Station Improvements
- Sewer Design

Pivotal were retained by the City of Shreveport to provide A/E services for Broadmoor Lift Station Project. Pivotal was responsible for reviewing the existing plans provided by the Owner; developing preliminary and final design layout plans, mechanical plans and specifications as required by local, city, federal or state agencies. Prior to design, Pivotal personnel designed a new power supply and distribution center (600A, 480V, 3 phase Switch Gear with MCC & VFDs for the (3) new 100 HP pumps) as an upgrade to the facility's existing systems, PLC control, SCADA/Telemetry interface and Automatic Transfer Switch (ATS). Moreover, the scope required the addition of a secondary power supply (600A, 480 V, 3 phase) to the switch gear from a different feeder via an automatic transfer switch. In addition, Pivotal designed a new 18" Mag flow meter in the existing below grade force main and new odor control system in order to eliminate the existing odor problems faced by the neighboring residents.



Additional scope included sizing force mains, sizing and selecting pumps, designing bypass pumping plan, rehabilitation of manholes, junction boxes, designing electrical panels and complete architectural

improvements to the Lift Station. The project is currently in the Construction Phase. Once the project has been awarded to a contractor, Pivotal will be responsible for the Construction Management Services.

(6) CC1 Lift Station Improvements; New Orleans, LA

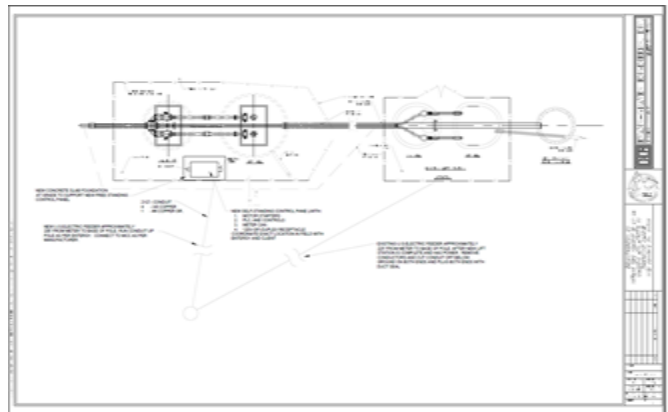
- Lift Station Improvements
- Electrical Panels
- Switch Gear
- Sewer Design

The scope of the project was a major upgrade and rehabilitation of the existing pump station. The upgrade involved increasing the pumping capacity of the station from 2580 gpm to 4000 gpm (55% pumping capacity increase). Some of the main work scope involved the demolition of the entire existing power distribution gear, removal of existing 6 (30 hp) pumps with all related controls and replacement with (3) 100 hp pumps with soft start controls. Further a cost analysis breakdown between Soft Start and VFDs was performed and the client chose the first option due to budget constraints. Moreover the design involved SCADA controls, new PLC and tying the controls to the department Telemetry system.

(7) Patriot Lift Station; Jefferson Parish, LA

- Perform a full electrical design with specifications for a duplex lift station (Patriot) for Jefferson Parish.

The overall system consisted of a NEMA 4X self-standing main control panel/MCC, 240, 3 phases, 4 wires. The control panel also included logic to allow the pump motors to start/stop manually from the push bottoms at the panel or automatically via the PLC inside the panel. The PLC also controlled the levels at the well and the backup level system. All of the PLC digital and analogue inputs/outputs were also transmitted from the PLC to the Jefferson Parish SCADA system central facility via radio signal.



One of the main challenges Pivotal faced was the urgency to produce 100% stamped Construction Documents, full specifications and a cost estimate in only 5 days. Pivotal was able to meet the stringent deadline. Another challenge was the lack of existing drawings, which required Pivotal to go to the site and verify available utilities/power and incorporate it into the design drawings. Again, Pivotal was able to do so within the 5 days' time frame and complete the project on time.

(8) Page & Longfellow Lift Station Improvements; New Orleans, LA

- Construction Management for new Power distribution system, piping, and pumps

Pivotal Engineering, LLC was retained by Jefferson Parish to provide Construction Management for the Page & Longfellow Lift Station Improvements.

The project consisted of installation of a new power distribution system, valves, piping, pumps, and odor control system. Pivotal stationed a Resident Inspector for the entirety of construction. Pivotal's Resident Inspector was tasked with providing daily reports to document the Contractor's daily activities, project progress, and photo documentation to be provided to the client on a daily basis.



Pivotal was also responsible for providing review of Contractor Pay Applications, Change Order Requests, and RFIs in a timely manner.

(9) Wright Road Improvements; New Orleans, LA

- Roadway Paving and Curb Design
- Subsurface Drainage and Sewer Design
- Construction Management

Pivotal personnel were retained by the City of New Orleans for the design of Wright Road located in New Orleans East. The project entailed the design of a new roadway section, subsurface sewer, water and drainage facilities, the relocation of conflicting utilities, as well as the development of specifications and construction oversight. Pivotal engineering staff has also been required to provide public coordination, agency approvals, oversee contractor compliance, and represent the Owner at various public meetings.

- Reviewed the required topographical survey of existing site conditions prior to start of design phase.
- Designed new drainage network for 10 years return period.
- Designed new gravity sewer collection system to replace existing system that had been in service for more than 40 years.
- Designed new water main and located it on the median.
- Designed new street for tie-in to side streets.

(10) Eastbank Treatment Plant Upgrade Jefferson Parish, LA

- Rehabilitation of Filter Presses
- Replacing Sludge Feed Pumps, Piping, Electrical Panels, Polymer Feed System
- Construction Inspections

The scope of work was to evaluate the existing Filter Press, MCCs and rehabilitate/replace the existing direct on-line motor starters for the filter presses with Variable Frequency Drives (VFDs) and provide the design packages to integrate the new wiring of the VFDs from the existing MCCs by using the existing Circuit Breakers. The project included replacing five sludge feed pumps and the associated piping and controls.



Mechanical/ Electrical Projects

(1) DPW Warehouse; New Orleans, LA

Pivotal was retained by the City of New Orleans Department to provide engineering services for DPW Warehouse. The engineering scope was to provide mechanical & plumbing, electrical, and civil engineering services for the new warehouse facility in New Orleans, Louisiana.

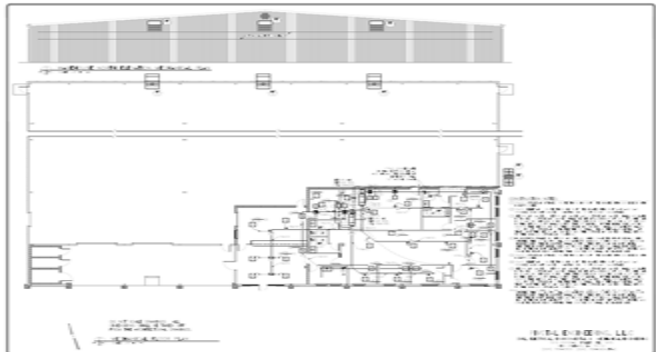
DPW Warehouse project is ongoing and is at 95% design completion stage.



(2) JP Public Works Warehouse; Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish Department of Engineering to provide engineering services for Public Works Warehouse. The engineering scope was to provide mechanical & plumbing, electrical, and civil engineering services for the new warehouse facility in Bridge City for Jefferson Parish, Louisiana.

Public Works Warehouse project is ongoing and it is on 100% completion ready to be announced to bid.



(3) Lincoln Elementary School for the Arts New School Design; Jefferson Parish, LA

Pivotal was retained by Jefferson Parish School Board to provide engineering services for Lincoln Elementary School. The school building is 85,000 square feet. Our scope was to provide the full MEP design services. The frame was a metal building and had one main community center, a 2 story library, kitchen, Cafeteria and classrooms. The construction budget was \$18,000,000.

The main scope consisted of:

- HVAC consisted of RTUs and Splits with Hot Gas Reheat (307 tons)
- A full Blow Building Management System with a manual bypass
- New fire Alarm System
- Automatic Sprinkler System
- PA System
- CCTV system
- Plumbing
- Electrical
-



(4) Joe Brown Center; New Orleans, LA

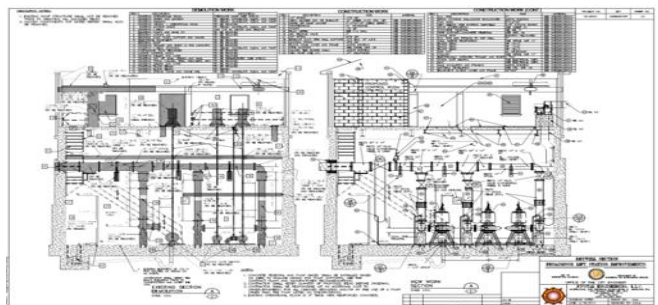
This project was funded by FEMA, CDBG, Bond and NIKE with a construction value of \$5 million (See Photo). It had several design challenges and a very compressed design and construction schedule. On top of the compressed schedule, some other challenges that the design team faced were responding to several changes in design direction during the Construction Document (CD) preparation phase). Such changes resulted due to directive orders from Capital Projects since City was not being able to get a timely resolution from FEMA on approving additional funding for Alternate Items that were not in the PW but were Katrina damaged.

Regardless of the design changes which resulted in producing 3 different set of construction documents, the final Bid Documents schedule was still met due to Pivotal's capability of swiftly responding to any change mandated by the client.



(5) Broadmoor Lift Station Improvements; City of Shreveport, LA

Pivotal was retained by the City of Shreveport to provide A/E services for Broadmoor Lift Station Project. Pivotal was responsible for reviewing the existing plans provided by the Owner; developing preliminary and final design layout plans, mechanical plans and specifications, as required by local, city, federal or state agencies. Prior to Design, Pivotal personnel designed a new power supply and distribution center (600A, 480V, 3 phase Switch Gear with MCC & VFDs for the (3) new 100 HP pumps) as an upgrade to the facility's existing systems, PLC control and



SCADA/Telemetry interface. Moreover, the scope required the addition of a secondary power supply (600A, 480 V, 3 phase) to the switch gear from a different feeder via an automatic transfer switch. In addition, Pivotal designed a new 18" Mag flow meter in the existing below grade force main and new odor control system in order to eliminate the existing odor problems faced by the neighboring residents. Additional scope included sizing force mains, sizing and selecting pumps, design bypass pumping plan, rehabilitation of manholes, junction box, designing electrical panels and complete architectural improvements to the Lift Station. The project is currently in the Bid Phase. Once the project has been awarded to a contractor, Pivotal will be responsible for the Construction Management Services.

(6) Delgado Main Auditorium; New Orleans, LA

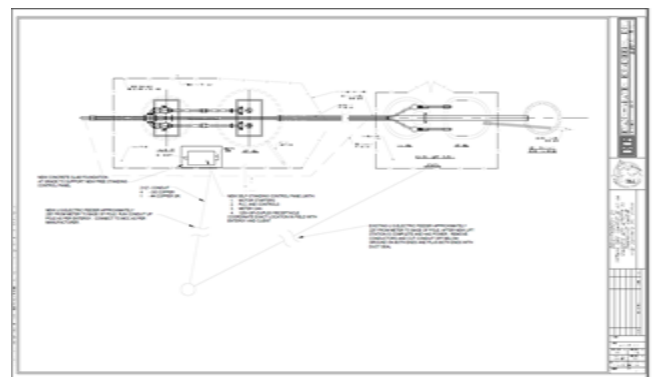
This project consisted of a total overhaul and renovations of the existing auditorium at Delgado. The MEP scope was challenging due to the limitations of the existing systems and lack of as-built to verify whether existing utilities can supply the new additional loads. Due to our "hands on" field experiences, our team was able to run analysis of the existing switch gear and take actual field measurements of the total amperage for a whole week to determine the peak load demand. This additional effort paid off and we determined that the existing gear can handle the additional load which resulted in huge savings to Delgado.



Another challenge that faced our engineers was the fact that during the initial design phase the city water flow and pressure test indicated that it can supply the new sprinkler system. However, during construction phase (2 years after initial pressure and flow readings were taken), the city water pressure and flow dropped dramatically which required the need for a 20 HP Fire Pump to be installed. Although the switch gear power usage was maxed out and the space to install the Fire Pump was very limited, the Pivotal MEP team was able to design and incorporate the installation of a new Fire Pump while selecting the most economical method allowed by code. This resulted in substantial savings to Delgado and resolving the drop in city water pressure and flow. Our main scope summary consisted of: plumbing design for new bathrooms, changing and upgrading the existing AHU and connect it back to the existing 4 pipe system, adding Smoke Evacuation system to meet new auditorium standards, adding a new Fire Pump, adding water curtain for the new stage area fire protection as required by code, adding new IT room and lighting room and a state of the art lighting and sound system to match the new theater contemporary look.

(7) Patriot Lift Station; Jefferson Parish, LA

Pivotal was retained by Jefferson Parish to perform a full electrical design and specifications for a duplex lift station. The overall system consisted of a NEMA 4X self-standing main control panel/MCC, 240, 3 phases, 4 wires. The control panel also included logic to allow the pump motors to start/stop manually from the push buttons at the panel or automatically via the PLC inside the panel. The PLC also controlled the levels at the well and the backup level system. All of the PLC digital and analogue inputs/outputs were also transmitted from the PLC to the Jefferson Parish SCADA system central facility via radio signal. One of the main challenges Pivotal faced was the urgency to produce 100% stamped Construction Documents, a full specifications and a cost estimate in only 5 days. Pivotal was able to meet the stringent deadline. Another challenge was the lack of existing drawings, which required Pivotal to go to the



site and verify available utilities/power and incorporate it into the design drawings. Again, Pivotal was able to do so within the 5 days' time frame and complete the project on time.

(8) Transcontinental-Vineyard Lift Station; Jefferson Parish, LA

Pivotal was retained by Jefferson Parish to perform electrical and control systems evaluation of the lift station and to propose recommended upgrades as needed for its safe and reliable operation. The lift station consisted mainly of a dry pit with (4) 400 Hp pumps, (1) 50 Hp pump and (1) 30 Hp pump. The MCC center was fed with 2 different 2500 A 480V, 3 phases, and 4 wires' feeders. A PLC inside the MCC provides the remote operation of the station and communicates the digital and analogue signals to the Parish SCADA system via radio signal.

The main upgrades as recommended by Pivotal were to reconfigure the incoming power distribution system in order to ensure more reliable power back up, install 2 VFDs for the 2 smaller motors, add an Automatic Transfer Switch to ensure that the station is fully redundant, replace the PLC since the existing one is obsolete and upgrade the control signals accordingly.

Another Pivotal scope was to produce a cost estimate for the recommended upgrades and present to the client.

(9) West Bank Senior Citizens Center; St. John Parish, LA

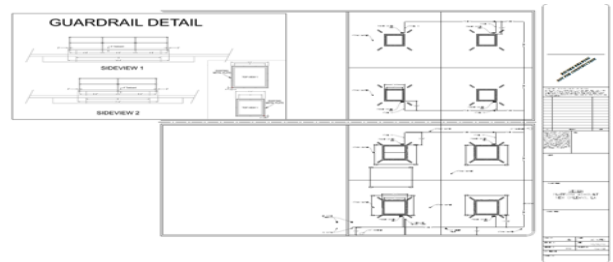
Pivotal was retained by St. John Parish to provide preliminary design for the St. John Parish Senior Citizens Center.

The scope of the project included the following: develop the lighting design including wiring and diagram, develop a preliminary plan indicating the layout of lighting fixtures, perform engineering calculations including necessary calculations for lighting improvements, develop CSI format outline specifications or with city format, and provide a preliminary-level estimate.

(10) Veolia East Bank Treatment Plant; New Orleans, LA

Pivotal have been retained by Sewerage & Water Board with Veolia West North America – South to review the current mechanical and electrical design sketches and approve them for construction, and provide 'redline' as-built drawings to update S&WB drawings files. The

scope of work is to provide eight new floating Mixers (supplied by Praxair) and install them on Train #1 of the Bio-reactor; including stainless steel oxygen supply piping and valve arrangements, safety handrails and mixer anchoring systems. It also installs eight new motor starters in the existing MCC and four VFDs for four of the mixers; and provides for communication with the plant's SCADA system for display of mixer status and control of the VFDs.



(11) Chalmette Main Yard Addition of Emergency Generator; St. Bernard Parish, LA

Pivotal was retained to design the addition of the emergency generator for the Chalmette Main Yard. The scope of the project included work associated with electrical systems and equipment including excavating, backfilling, concrete equipment bases, concrete duct encasements, temporary power and lighting service and equipment for construction, conduit sleeves and supports, anchors, vibration and sound isolation, access panels, identification, record drawings, installation permits, tests, inspections by governing authorities, cutting-and-patching work, utility companies connections coordination, start-up of electrical systems and equipment, training of Owner's operating personnel, operating and maintenance manuals, final cleaning of electrical and similar work.



(12) West Bank ATS Replacement; New Orleans, LA

Pivotal was retained by New Orleans Sewer & Water Board and Veolia to automate the plant's main power feed transfer by providing automatic switching between the main utility feed (4160 V) and the existing 2 MW emergency generator. The existing system was outdated and inoperable.

In 1973, the 10 million gallon-per-day West Bank Sewerage Treatment Plant came on-line. This facility serves the entire west bank community of New Orleans and was recently upgraded, in 2002, to double its capacity.



Pivotal Engineering LLC was assigned to conduct the overall power study for the existing and the newly designed systems since existing power study was outdated. This included tracking the power feeders and provide as-builts in the form of One Line Diagrams of the existing and the newly designed set up, short circuit analysis, coordination study and arch flash analysis and calculations.

The challenges on this project were to verify the existing conditions and underground utilities due to the lack to updated documents. Pivotal successfully field traced all of the existing feeders from the 13.8KV feeds down to the 480V MCCs.

The existing system consisted of an on-site 13.8KV:4160 V Entergy transformer which feeds an outdated manual 4160 V main transfer switch gear. The emergency side of the manual transfer switch gear is also fed by a 2 MW 4160 V generator. Pivotal successfully coordinated the design with Entergy and finalized the bid documents which consisted of structural (new concrete pad and rain cover), civil and electrical documents.

Another big challenge that Pivotal overcame and incorporated in the design documents was providing and incorporating a sequence of installation without having to lose main power to the plant for longer than 3 hours. That was very critical to the client since they could not afford having the plant shut down for more than 3 hours.

Project is presently in the construction phase.

(13) MIMOSA Elementary School HVAC Systems Replacement; Luling, LA

The scope consisted of removing all of the outdated DX Split System HVAC units and replace them with a centralized 4 pipes chill water systems (2 – 150 tons screw type, air cooled chillers), update the Power Distribution Grid and increase its capacity to compensate for the increased power demand, change the hot water boilers and all related pumps, ventilate the classrooms as required by ASHRAE and IBC regulations and add few classrooms to the existing floor plans. The project was challenging do to the lack of existing as-built which made our task more difficult since we had to tie in to existing water system, power grid and sewer system. Our engineers performed detailed field inspections in order to determine how to integrate with existing utilities and avoid any potential conflicts. The project was completed without any change orders on time and within schedule.



In the long term, the new system designed will provide a cost savings of approximately \$10,000 - \$15,000 per year to the St. Charles School Board. Pivotal was also responsible for providing staff to conduct baseline, daily, and clearance asbestos air monitoring during the removal of asbestos piping.

Work scope summary consisted of: MEP, Electrical, Architectural, Structural, Civil and Environmental.

(14) Ames (Collins Elementary) Montessori School Renovations and Expansion; Jefferson Parish, LA

This project consisted of renovating an existing portion of the school (Kitchen and Cafeteria) and adding a new 30,000 sq ft wing for classrooms. Pivotal's scope was to provide full MEP design services.

Pivotal personnel were very instrumental in saving Jefferson Parish School Board a \$250,000.00 unexpected Change Order to remove the newly installed 6" Fire Main underground during the Construction Phase and replacing it by an 8" line as requested by the Parish engineering department. Although the civil engineering portion of the work was not part of our scope, the school board contacted Mr. Mekari, currently Pivotal's MEP project manager and asked him if he can look into this issue and resolve it.

Mr. Mekari then discovered that the original Civil Engineer bid set showed a 6" underground Fire Line however, his permit set was modified to an 8" Fire Line as demanded by the Parish. Not only the change order was very costly but it was going to delay the school from opening on time which can cause a huge logistical problem to the board.

Pivotal's personnel "stepped up to the plate" and were able to prove to the Jefferson Parish Engineering Department that a 6" line would be sufficient although their permit documents that was submitted by the previous Civil Engineer called for an 8" fire line to be installed. Consequently, Mr. Mekari demonstrated and convinced Jefferson Parish Engineers after several meetings with back up hydraulic calculations and he was able to obtain an actual letter from the NFPA referring to code exceptions for this project that a 6" line would be acceptable by code. Not only this resulted in saving of \$250,000.00 but it also allowed the schedule to be met and the school to open in time.



Another setback in the civil design was also discovered by our team as well in the civil scope three weeks before construction completion and school opening date. The previous Civil Engineer had the wrong slope and invert measurements on the main sewer line thus, the newly installed school sewer line did not have enough slope to tie in to the city sewer line. To resolve this problem, Mr. Mekari recommended a lift station which was the only feasible option. The usual delivery date for a lift station is 6 weeks; however, Pivotal's staff was able to design and locate a temporary lift station to be installed. The lift station was designed, ordered, delivered and installed within that same week and school was able to open on time. Again, this shows the due diligence of our staff and their engineering capabilities.

Our main scope summary consisted of:

- HVAC consisted of RTUs and Splits with Hot Gas Reheat for better humidity control (275 tons)
- Automatic Sprinkler System
- PA System
- CCTV system
- Plumbing
- Electrical Power Distribution and Lighting
- Fire Alarm
- Civil design value engineering

(15) NOFD Engine #36, Hurricane Katrina Repairs and Renovations; New Orleans, LA

The main scope on this Engine was to perform major repairs for flood damage incurred to the building post hurricane Katrina. Our team reviewed the related PWs and all related costs and provided engineering estimates for additional items that were not covered in the PWs but were eligible for FEMA funding. Such items were justified because they were either overlooked by FEMA and/or needed to be mediated for codes upgrades. The main project scope consisted of providing a new HVAC system, new standby generator, interior/exterior lighting, engine bay flooring, Fire Alarm system, Hot water boilers and heaters, plumbing fixtures and interior finishes.



Work summary consisted of: FEMA PW Review, Scoping, Architectural, Civil, Mechanical, Electrical and Plumbing Design Review, cost estimates and Construction Administration.

(16) Mosquito Control Department Aircraft Hangar Building Hurricane Katrina Repairs and Renovations; New Orleans, LA

The Hangar is an 8,000 sq ft steel building. The main scope was to repair damages post Katrina and codes upgrades. The project work consisted of a new HVAC system, new power distribution system, new underground feeders and a new hangar door in order to meet the new V-Zone code upgrades, renovated offices, expanded mezzanine, interior/exterior lighting and additional structural bracing to sustain hurricane force winds.



One of the main significant accomplishments on this project was to convince and prove to the Louisiana State Fire Marshall that the Hangar does not need to be sprinkled. The owner was also pushing for the Hangar to be sprinkled since the other 2 neighboring hangars were sprinkled. Pivotal staff's efforts were very helpful to CNO since FEMA was not going to reimburse for the Sprinkler System. This accomplishment was made possible due to the close and swift coordination within Pivotal's Engineering team. This effort saved the city over \$500,000.00 since a new water tower would have had to be installed due to the lack of city water infrastructure in that area. Pivotal personnel also provided the CNO with a Comprehensive Damage Report to be reviewed by FEMA for repairs to or replacement of the existing facility. This report was a critical factor in substantiating the CNO's claim for additional funding to repair the facility. Additionally, funding was to provide for additional above ground storage space and office renovations.

Work Summary consisted of: PWs review, scoping and providing new architectural, MEP, civil and structural designs, revising and updating cost estimates, providing technical arguments for the additional items that were eligible for federal reimbursement but not covered by FEMA.

(17) Parks & Parkways Buildings Hurricane Katrina Repairs and Renovations; New Orleans, LA

The project scope consisted of performing repairs and renovations to multiple buildings for the Parks & Parkways department damaged by Katrina. The work was concentrated on the Administration Building, Approx. 3800 Sq. Ft. covering 2 Floors with an Attic Mechanical Room and an Annex Building approximately 5,000 sq.ft. covering 2 floors. The main work consisted of reviewing FEMA PWs, providing construction budget estimates, scope determination and alignment with FEMA PWs, design documents and construction administration.

Work summary consisted of: mainly MEP engineering designs (total HVAC replacement- total plumbing system replacement – total electrical replacement – new indoor/outdoor lighting).

Roadway Projects

(1) RR016 BW Cooper, Gert Town Dixon Group C, New Orleans, LA

Pivotal is currently retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for nine (9) blocks (3245 ft) in the neighborhoods of B.W. Cooper, Gert Town and Dixon. This design of multiple streets are required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also includes identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.



Pivotal is also responsible for administering the required topographical survey of existing site conditions prior to start of design phase; and for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations. The project is federally funded.

The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ City of New Orleans General Specifications for Street Paving
- ✓ Louisiana Standards for Roads & Bridges

- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*
- ✓ *Satisfied DBE participation goal of 35%*

(2) RR017 BW Cooper, Gert Town Dixon Group D, New Orleans, LA

Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for twelve (12) blocks (4,015 ft) in the neighborhoods of B.W. Cooper, Gert Town and Dixon. This design of multiple streets is required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.



Pivotal is also responsible for administering the required topographical survey of existing site conditions prior to start of design phase.

Pivotal is also responsible for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations. This project is federally funded.

The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *City of New Orleans General Specifications for Street Paving*
- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*
- ✓ *Satisfied DBE participation goal of 35%*

(3) RR018 BW Cooper, Gert Town Dixon Group E, New Orleans, LA

Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for fifteen (15) blocks (6,075 ft) in the neighborhoods of B.W. Cooper, Gert Town and Dixon. This design of multiple streets is required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also includes identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.



Pivotal is also responsible for administering the required topographical survey of existing site conditions prior to start of design phase.

Pivotal is also responsible for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.

The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *City of New Orleans General Specifications for Street Paving*
- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*
- ✓ *Satisfied DBE participation goal of 35%*

(4) RR019 BW Cooper, Gert Town Dixon Group F, New Orleans, LA

Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for six (6) blocks (2,100 ft) in the neighborhoods of B.W. Cooper, Gert Town and Dixon. This design of multiple streets is required to meet rehabilitation goals set by FEMA and CNO and the water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.



Pivotal is also responsible for administering the required topographical survey of existing site conditions prior to start of design phase.

Pivotal is also responsible for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.

The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *City of New Orleans General Specifications for Street Paving*
- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*
- ✓ *Satisfied DBE participation goal of 35%*

(5) RR076 Lake Vista Group D, New Orleans, LA

Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for five (5) blocks (1,750 ft) in the neighborhood of Lake Vista. This design of multiple streets is required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.



Pivotal is also responsible for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.

The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *City of New Orleans General Specifications for Street Paving*
- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*
- ✓ *Satisfied DBE participation goal of 35%*

(6) RR034 E. Carrollton Group C (Adams St.), New Orleans, LA

Pivotal is retained by City of New Orleans to provide roadway full reconstruction including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabilitation for eight (8) blocks (4,936 ft) in the neighborhood of Adams St. This design of multiple streets is required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.



Pivotal is also responsible for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.

The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *City of New Orleans General Specifications for Street Paving*
- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*

- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*
- ✓ *Satisfied DBE participation goal of 35%*

(7) RR203 Gentilly Terrace South Group K, New Orleans, LA

Pivotal is retained by City of New Orleans to provide roadway patch, mill and overlay reconstruction improvement). The project entails roadway rehabilitation within the Gentilly Terrace neighborhood. This design of these streets is required to meet rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB. The project also included design of mill and overlay reconstruction, preparation of capital cost estimates and construction documents for the project.



Pivotal is also responsible for coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.

The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *City of New Orleans General Specifications for Street Paving*
- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*
- ✓ *Satisfied DBE participation goal of 35%*

(8) RR138 Plum Orchard-West Lake Forest Group B, New Orleans, LA

Pivotal was retained by City of New Orleans for repaving the asphalt roadway from curb-to-curb, replacing damaged portions of concrete with new concrete, patching the roadway with asphalt, repairing damaged sidewalks and driveway aprons, installing ADA compliant curb ramps at intersections, and replacing/repairing damaged underground water, sewer and/or drainage lines.



The execution and delivery of this project demonstrates that Pivotal engineer's expertise on the following required criteria of specialized experience and technical competence:

- ✓ *City of New Orleans General Specifications for Street Paving*
- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*
- ✓ *Satisfied DBE participation goal of 35%*

(9) Wright Rd. Improvements, New Orleans, LA

Pivotal Engineering was retained by the City of New Orleans for the design of Wright Road located in New Orleans East. The project entailed the design of a new roadway section, subsurface sewer, water and drainage facilities, the relocation of conflicting utilities, as well as the development of specifications and construction oversight. Pivotal Engineering staff has also been required to provide public coordination, agency approvals, oversee contractor compliance, and represent the Owner at various public meetings. Pivotal performed the following:



- Reviewed the required topographical survey of existing site conditions prior to start of design phase.
- Designed new drainage network for a 10 years return period.
- Designed new gravity sewer collection system to replace existing system that had been in service for more than 40 years.
- Designed new water main and located it on the median.
- Designed new street for tie-in to side streets.
- Coordinated all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.

The project was valued at \$9 million.

The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

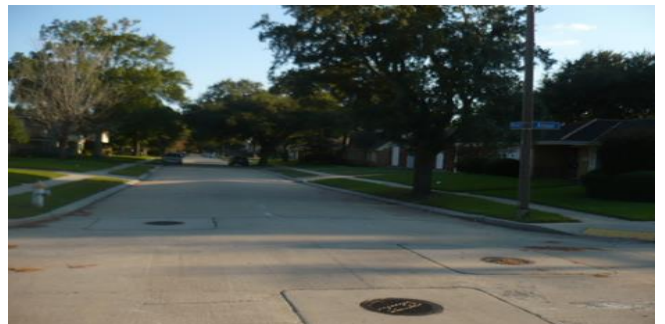
- ✓ *City of New Orleans General Specifications for Street Paving*
- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*
- ✓ *Satisfied DBE participation goal of 35%*

(10) Ramsey St. Improvements, New Orleans, LA

Pivotal Engineering was retained to perform the design and construction supervision for the required improvements to Ramsey Street. The project entailed the design of a new roadway section, subsurface sewer, water and drainage facilities, the relocation of conflicting utilities, as well as the development of specifications and construction oversight. Pivotal Engineering staff has also been required to provide public coordination, agency approvals, oversee contractor compliance, and represent the Owner at various public meetings.

Pivotal was also responsible for the following:

- Designing new drainage collection system that tied into an existing box culvert along adjacent intersection. This was necessary due to the re-occurrence of street flooding during any rain activity that takes place in this area.
- Designing new gravity sewer collection system to replace existing system that had been in service for more than 40 years.



- Designing new street for tie-in to major thoroughfare in the City of New Orleans.
- Coordinating all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.
- Construction Management of the overall construction of the above captioned work.

The project was valued at \$3,500,000.

The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *City of New Orleans General Specifications for Street Paving*
- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*
- ✓ *Satisfied DBE participation goal of 35%*

(11) Pritchard Rd. Extension, Jefferson, LA

Pivotal Engineering is retained by Jefferson Parish to design roadway reconstruction and extension of Pritchard Road. The project scope includes the following:

1. Removal and replacement of existing 20 ft wide concrete roadway with 26 ft wide roadway and extend 130 ft to connect Pritchard Road to Sprig Street.
2. Removal and replacement of existing drainage piping. The design of drainage pipe networks is completed for a 10 years storm period using LADOTD drainage software.
3. Relocation of existing street side ditch with a new ditch and box culvert. Drainage ditch, box culvert and junction box designed for 10 years storm period.
4. Offset existing 10" and 18" SFM both vertically and horizontally.



The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*

(12) Labarre Road Railroad Crossing Drainage Improvement, Jefferson, LA

Pivotal Engineering was retained by Jefferson Parish to provide preliminary and final design phase services for design and construction plan preparation of the Labarre Road. Railroad Crossing Drainage Improvement. The major scope of the improvement includes:

1. The construction of a box at the south west corner of Labarre and the Norfolk railroad; construction of a box at the south east corner of Labarre and the Norfolk railroad; replacement of sidewalk access across the ditch



adjacent to the tracks; and provide handicap ramps across the street from the crossing, due to the tight right of way at the corner. The designer makes sure that the handicap ramp is being built within Parish right of way.

2. The boxes are designed to accommodate all of the existing drain lines in the area in order to preserve current drainage patterns at the crossing.
3. Construction of the box on the east required removal and replacement of ½ of Labarre Road and of the rail road crossing arm.
4. Construction requires deep sheeting, due to proximity of tracks, possibly a coffer dam.
5. Full width of Labarre will be milled and overlaid.

The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*

(13) Clearview Airline Intersection Improvements, Jefferson, LA

Pivotal was retained to assist in the Clearview-Airline Intersection Improvements project. The scope of the project includes the following: widening of the median along Airline Drive to provide for triple left turn lanes, modifying the intersection of Airline Drive and Central Avenue, relocating and replacing the 20' transit water line, modifying the existing traffic signal system along Airline Drive at the intersection of Clearview Parkway and Central Avenue, and extending Rosedale to tie into Airline Drive.



The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*

(14) Southbound Westwood Dr. Rehabilitation, Jefferson, LA

Pivotal Engineering was retained by Jefferson Parish through Digital Engineering and Imaging, Inc. for the design of Southbound Westwood Drive from the Westbank Expressway to Lapalco Blvd. The project entails rehabilitation of existing Westwood Drive (which includes removal and replacement of existing PCCP roadway), installation of additional subsurface drainage and modification of existing subsurface drainage, and installation of new sidewalks, handicapped ramps, and driveways as needed.

The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *Louisiana Standards for Roads & Bridges*

- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*

(15) France Rd. North Paving & Drainage Improvements, New Orleans, LA

Pivotal performed design & construction administration services for France Rd. The project included 1.5 miles of full roadway reconstruction design. The scope of this project is to remove and replace roadway & drainage improvements.



The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*

(16) Lafitte Greenway, New Orleans, LA

Pivotal Engineering completed and delivered to the City of New Orleans the Lafitte Greenway project. This was executed in teaming arrangements with Design Workshop and Dana Brown & Associates. The project consisted of approximately 13,000 ft. of bike/pedestrian trail valued at \$6.5 million. The project included more than five (5) acres of land in storm water management design, green infrastructure containing bioswale, rain gardens and detention basins, sidewalk and roadway improvements, drainage improvements, and lighting improvements.



Pivotal Engineering performed a drainage analysis to calculate 10-year discharge from the identified contributing areas, and incorporated the approved scope of work into the project which included Architectural, Civil, Structural, and Electrical Design.

The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *City of New Orleans General Specifications for Street Paving*
- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*
- ✓ *Satisfied DBE participation goal of 35%*

(17) Bayou Road Streetscape, New Orleans, LA

Pivotal completed and delivered to the City of New Orleans Gentilly Boulevard and Bayou Road Streetscape. The project included landscape, sidewalk and roadway improvements, drainage improvements, and lighting improvements.



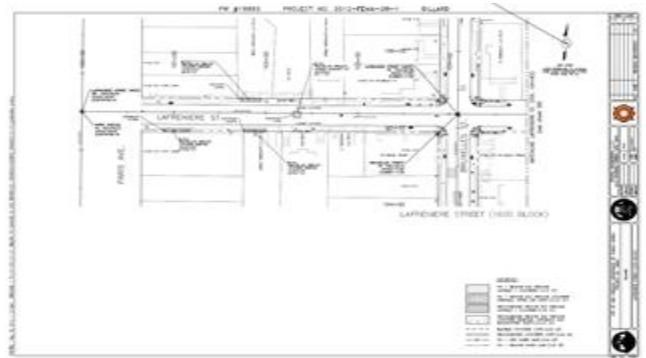
The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *City of New Orleans General Specifications for Street Paving*
- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*
- ✓ *Satisfied DBE participation goal of 35%*

(18) Dillard Neighborhood Streets, New Orleans, LA

Pivotal Engineering was retained by the City of New Orleans to provide A/E Design, and Construction Management services for Dillard Neighborhood Design Project.

The project includes the design of proposed roadway section, subsurface sewer, water and drainage facilities, the relocation of conflicting utilities, as well as the development of specifications and construction oversight. Pivotal personnel were also required to provide public coordination, agency approvals, oversee contractor compliance, and represent the Owner at various public meetings.



Pivotal personnel were responsible for administering the required topographical survey of existing site conditions prior to start of design phase.

Pivotal coordinated all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations.

The total project cost is estimated at 1.5 million dollars.

The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *City of New Orleans General Specifications for Street Paving*
- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*
- ✓ *Satisfied DBE participation goal of 35%*

(19) Napoleon Avenue Box Culvert, New Orleans, LA

Pivotal personnel were retained by the Sewerage & Water Board of New Orleans through Schrenk & Peterson Engineering to coordinate and design the utility relocation plans and specifications.

Pivotal personnel were also responsible for review and approval of required topographical survey of existing site conditions prior to start of design phase.

Pivotal personnel designed new reinforced concrete box culvert along Napoleon Avenue between Constance Street and Carondelet Street in New Orleans, LA, and also designed box culvert crossings at St. Charles Avenue/Napoleon Avenue intersection, which is one of the busiest intersections in the Metropolitan New Orleans area.

Pivotal personnel coordinated all efforts with various private & public utility companies, state & local agencies for the safe and expedient relocation of their existing facilities that conflicted with proposed construction. The project is valued at \$50,000,000.



The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *City of New Orleans General Specifications for Street Paving*
- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*
- ✓ *Satisfied DBE participation goal of 35%*

(20) Morey, Centanni, and Salvadore Street Improvements, Kenner, LA

Pivotal Engineering was retained by the City of Kenner Department of Public Works to perform the design and construction supervision for the required improvements of the above captioned street. The project included the design of proposed roadway section, subsurface sewer, water and drainage facilities, the relocation of conflicting utilities, as well as the development of specifications and construction oversight. Pivotal personnel also provided public coordination, agency approvals, contractor compliance management, and Owner representation at various public meetings.

Pivotal personnel were responsible for administering the required topographical survey of existing site conditions prior to start of design phase.

The design included a new drainage collection system that will tie into an existing drainage system along an adjacent intersection. This was necessary due to the re-occurrence of street flooding during rain activities in the area.

Pivotal personnel coordinated all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations. Pivotal was responsible for construction management of the overall construction of the above captioned work. The project is valued at \$1,200,000.

The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*

(21) Lower 9th Ward, Phase 1 Street and Sub Surface Design Improvements, New Orleans, LA

Pivotal Engineering was retained by the City of New Orleans to provide A/E Design, and Construction Management services for the Lower 9th Ward, Phase 1 Street and Sub Surface Design Improvements Project.

The project included the rehabilitation of 32 blocks of roadway in the Lower 9th Ward of New Orleans. Pivotal was responsible for the rehabilitation design of multiple streets to meet the required rehabilitation goals set by FEMA and CNO and water line replacement program set by S&WB.

The project also included identifying and designing the geometrics of the streets, preparation of capital cost estimates and construction documents for the project.

Pivotal was responsible for administering the required topographical survey of existing site conditions prior to start of design phase and coordinated all efforts with various private & public utility companies, state & local agencies, as well as civic & community organizations. The project was valued at \$4 million.

The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ *City of New Orleans General Specifications for Street Paving*
- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*
- ✓ *Satisfied DBE participation goal of 35%*

(22) Study of Safety Measures for Major East Bank Roadways, Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish to perform the Study of Safety Measures for Major East Bank Roadways Adjacent to Open Canals. The project included a detailed site investigation and documentation of each open canal section bank top width on plans with supporting photographs. Plans also show the recommended improvements as well as the location of accidents for all four segments. Drainage analysis of the required open canal and box culvert section to accommodate a 10-year design storm were performed. In addition, as a safety measure, the existing median side edge line striping was suggested to be removed and raised pavement markers be installed for all segments where new guard rails are recommended.



The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

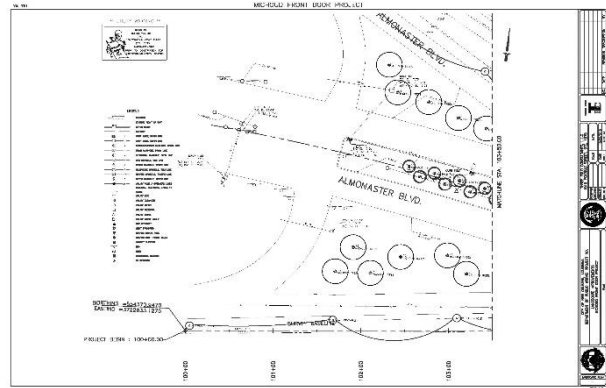
- ✓ *Louisiana Standards for Roads & Bridges*
- ✓ *FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements*
- ✓ *Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.*

(23) Michoud Front Door Improvements, New Orleans, LA

Pivotal completed and delivered to the City of New Orleans Michoud Front Door Improvements in teaming arrangements with Stuart Consulting Group. The project included improvements to landscaping, sidewalks, roadways, drainage and lighting.

The execution and delivery of this project demonstrates that Pivotal has expertise on the following required criteria of specialized experience and technical competence:

- ✓ City of New Orleans General Specifications for Street Paving
- ✓ Louisiana Standards for Roads & Bridges
- ✓ FHWA, AASHTO, ADA and other Federal, States, & Local Public Works requirements
- ✓ Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.
- ✓ Satisfied DBE participation goal of 35%



FEMA, HMGP and CDBG Program/ Construction Management Projects

(1) St. John the Baptist Parish Planning and Zoning Building Environmental and Damage Assessment (Isaac), St. John Parish, LA

Pivotal Engineering provided an Asbestos/Mold inspection and damage assessment of the St. John the Baptist Parish Planning and Zoning Building immediately after Hurricane Isaac. Pivotal's personnel were deployed within 24-hours of request by the Administration to assess storm damage and provide recommendations for re-occupancy. Pivotal's personnel conducted the physical inspection on 9/3/12 and submitted the final report 9/5/12. Pivotal's commitment to the Parish and its employees allowed for timely re-occupation of the building.



(2) St. John the Baptist Parish Minor Housing Repair Program (Gustav/Ike), St. John Parish, LA

Pivotal Engineering provided project management and inspection services for repairs to residential properties throughout St. John the Baptist Parish. Pivotal deployed six (6) inspectors (including three LDEQ Asbestos/Lead Inspectors) to conduct inspections on both the east and west bank of St. John the Baptist Parish. Pivotal worked closely with the Grants Manager to modify the existing program. A review of the program's policies reflected that charges by the program's contractors would exceed both the local and national averages for labor as shown by our RSMeans software. Pivotal's personnel proposed the implementation



of a system of competitive bidding between the contractors. The new system proved valuable. It allowed the Parish to be billed at fair-market rates resulting in the inclusion of more applicants and better allocation of funding. Pivotal's project manager provided real-time cost tracking as construction on properties commenced. Every week, the Grants Manager was provided a "Status Listing" which showed the status of each property inspected and under construction. This listing included the Applicant's Information, Program Eligibility, Project Manager's Opinion of Cost, Construction Cost and Inspection Notes. The listing also showed the program's overall funding available, budget projections and average construction cost of each property. These figures allowed the Grants Manager to be well aware of the program's standing upon request from the Parish President, Chief Administrative Officer and Council Members.

(3) Mimosa Park Elementary School Improvements and Inspections, St. Charles Parish, LA

Pivotal Engineering successfully scoped, designed, and managed the construction of a new 280 ton chilled-water 4-pipe HVAC system and electrical power distribution system for the existing 50,000 square foot campus of Mimosa Park Elementary School. In the long term, the new system will provide a cost savings to the St. Charles School Board of approximately \$10,000 - \$15,000 per year. Pivotal were also responsible for providing staff to conduct baseline, daily, and clearance asbestos air monitoring during the removal of asbestos piping.

(4) St. Charles Parish School Board Transportation Facility, St. Charles Parish, LA

St. Charles Parish School Board's East Bank school bus maintenance facility was 50% over capacity of the existing facility, resulting in delays in both service and maintenance as well as making training difficult. Pivotal was retained to develop the conceptual design for an expanded facility. The improved facility will provide additional service bays, parts storage, new training/meeting room, driver lockers, and offices for dispatch, maintenance and accounting. More efficient electrical and mechanical systems will be incorporated into the new facility. The design will also include new fueling facilities and expanded parking areas, as well as a state-of-the-art bus wash station.

(5) City of New Orleans Mosquito Control Hangar Facility Hurricane Katrina Repairs and Renovations, New Orleans, LA

Pivotal Engineering provided a Comprehensive Damage Report to be reviewed by FEMA and the City of New Orleans for repairs or replacement of the existing facility. This report was critical in substantiating the City of New Orleans' claim for additional funding to repair the facility. Pivotal personnel included in the design an elevated chemical storage, V-Zone structural enhancements, and MEP upgrades. The end result of our diligent work allowed for a building to withstand wind load of up to 135 mph.



(6) City of New Orleans Fire Engine# 10 Hurricane Katrina Repairs and Renovations, New Orleans, LA

Pivotal Engineering was persistence in providing supplemental documentation to FEMA as it related to required building code issues, health and safety issues, and usability of the facility justified the development of four additional revisions to the FEMA PW for this facility. Pivotal personnel were able to successfully substantiate the inclusion of approximately \$220,000 of additional work funded by FEMA.

This work included a new backup generator, new lighting fixtures, new plumbing fixtures, and new air handling units.



(7) FEMA HMGP Elevation Program, Washington Parish, LA

Pivotal Engineering is providing project management and inspection services for repairs to residential properties throughout Washington Parish, under a grant from the FEMA HMGP elevation program.

- a. Pivotal is providing current Flood Elevation Certificate for each property. Coordinate with each homeowner as needed for access.
- b. Pivotal reviewed each FEL to determine the minimum lift required to meet the current BFE plus allowable freeboard.
- c. Pivotal coordinated with each homeowner for a date/time to inspect the property. This inspection shall determine the feasibility of the lift, elevation type, site suitability and structural deficiencies that may impose on the lift.
- d. Pivotal utilized data collected from the site inspection to produce the final design detailing the required scope of work for each property and a proposed cost of construction. The scope of work includes structural improvements needed for a successful lift.
- e. Pivotal provided bid packages for each property based on information contained within the inspection report. Pivotal notified pre-qualified contractors from the Parish's pool via email.
- f. Pivotal assisted the Parish in the collection and tally of bids at final submission and provide a written recommendation of award upon review
- g. Pivotal conducted two (2) milestone inspections; 50% and 100% construction completion, during the course of construction. Each milestone inspection report will be accompanied by a report and progress photos. The reports also identified any construction related issues, proposed change orders and homeowner concerns.
- h. Upon substantial completion, punch list inspections will be conducted on an as-needed basis and reported on the 100% construction inspection report.

Recreational Playground Projects

(1) Norman Playground, New Orleans, LA

Pivotal Engineering was retained by the City of New Orleans Department of Public Works to provide engineering services for Norman Playground. The engineering scope was to provide civil, electrical, mechanical and plumbing engineering services for the new Norman Playground facility in New Orleans, Louisiana.



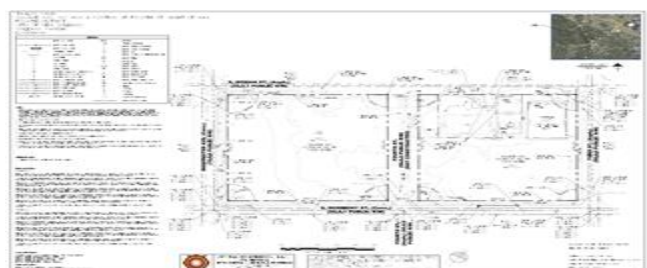
(2) Stallings Gentilly Playground, New Orleans, LA

Pivotal Engineering performed a preliminary structural assessment to add an external room to the existing building in its existing structural condition at the Stallings Gentilly Playground in New Orleans. Pivotal concluded that the add-on was practical and could be done.



(3) Taylor Playground, New Orleans, LA

Pivotal Engineering performed a preliminary electrical assessment to define the required scope of project. Further, Pivotal developed the topographic maps, Right-of-Way map, vicinity maps, TIN surface models and contours from survey field data.



Resident Inspection Projects

(1) Wright Rd, New Orleans, LA

Pivotal is retained by City of New Orleans to provide Design, construction administration and Resident Inspection Service for full roadway reconstruction project including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabs to 4 blocks (2435 ft). The resident inspection service are required to verify that the construction meets the plans and specs, rehabilitation goals set by FEMA and CNO, and water line replacement program set by S&WB. Since Pivotal is the design engineering firm of this project the resident inspection and coordination is outstanding. The CA and RI service also includes coordinating, contractor and utility companies in conformance to the construction documents of the project.

The project is valued at \$6 .2 million.



(2) RR118-Marlyville-Fontainebleau Group C

Pivotal is retained by City of New Orleans to provide Resident Inspection Service for full roadway reconstruction project including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabs to 19 blocks (6,650 ft) in the neighborhood of Fontainebleau Dr. The resident inspection service are required to verify that the construction meets the plans and specs, rehabilitation goals set by FEMA and CNO, and water line replacement program set by S&WB. The inspection service also includes coordinating with the design engineering firm, contractor and utility companies in conformance to the construction documents of the project. The project is valued at \$10.5 million.



(3) RR038 Filmore North Group B

Pivotal is retained by City of New Orleans to provide Resident Inspection Service for full roadway reconstruction project including subsurface improvements (drainage, sewer and water line improvement). The project entails roadway rehabs to 7 blocks (3800 ft) in the neighborhood of Bayou St. John. The resident inspection service are required to verify that the construction meets the plans and specs, rehabilitation goals set by FEMA and CNO, and water line replacement program set by S&WB. The inspection service also includes coordinating with the design engineering firm, contractor and utility companies in conformance to the construction documents of the project. The project is valued at \$ 4.2 million.



(4) St. John the Baptist Parish Planning and Zoning Building Environmental and Damage Assessment (Isaac), St. John Parish, LA

Pivotal Engineering provided an Asbestos/Mold inspection and damage assessment of the St. John the Baptist Parish Planning and Zoning Building immediately after Hurricane Isaac. Pivotal's personnel were deployed within 24-hours of request by the Administration to assess storm damage and provide recommendations for re-occupancy. Pivotal's personnel conducted the physical inspection on 9/3/12 and submitted the final report 9/5/12. Pivotal's commitment to the Parish and its employees allowed for timely re-occupation of the building.



(5) St. John the Baptist Parish Minor Housing Repair Program (Gustav/Ike), St. John Parish, LA

Pivotal Engineering provided project management and inspection services for repairs to residential properties throughout St. John the Baptist Parish. Pivotal deployed six (6) inspectors (including three LDEQ Asbestos/Lead Inspectors) to conduct inspections on both the east and west bank of St. John the Baptist Parish. Pivotal worked closely with the Grants Manager to modify the existing program. A review of the program's policies reflected that charges by the program's contractors would exceed both the local and national averages for labor as shown by our RSMeans software. Pivotal's personnel proposed the implementation of a system of competitive bidding between the contractors. The new system proved valuable. It allowed the Parish to be billed at



fair-market rates resulting in the inclusion of more applicants and better allocation of funding. Pivotal's project manager provided real-time cost tracking as construction on properties commenced. Every week, the Grants Manager was provided a "Status Listing" which showed the status of each property inspected and under construction. This listing included the Applicant's Information, Program Eligibility, Project Manager's Opinion of Cost, Construction Cost and Inspection Notes. The listing also showed the program's overall funding available, budget projections and average construction cost of each property. These figures allowed the Grants Manager to be well aware of the program's standing upon request from the Parish President, Chief Administrative Officer and Council Members.

(6) FEMA HMGP Elevation Program, Washington Parish, LA

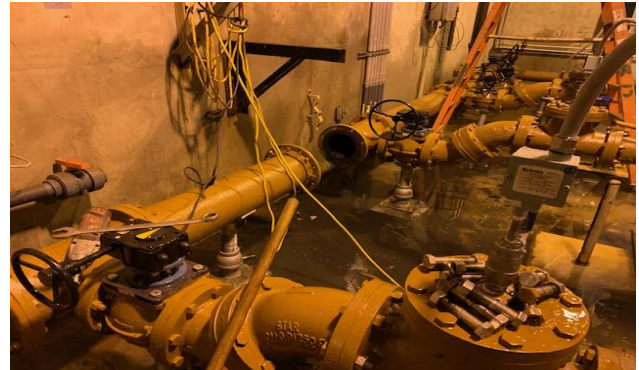
Pivotal Engineering is providing project management and inspection services for repairs to residential properties throughout Washington Parish, under a grant from the FEMA HMGP elevation program.

- a. Pivotal is providing current Flood Elevation Certificate for each property. Coordinate with each homeowner as needed for access.
- b. Pivotal reviewed each FEL to determine the minimum lift required to meet the current BFE plus allowable freeboard.
- c. Pivotal coordinated with each homeowner for a date/time to inspect the property. This inspection shall determine the feasibility of the lift, elevation type, site suitability and structural deficiencies that may impose on the lift.
- d. Pivotal utilized data collected from the site inspection to produce the final design detailing the required scope of work for each property and a proposed cost of construction. The scope of work includes structural improvements needed for a successful lift.

- e. Pivotal provided bid packages for each property based on information contained within the inspection report. Pivotal notified pre-qualified contractors from the Parish's pool via email.
- f. Pivotal assisted the Parish in the collection and tally of bids at final submission and provide a written recommendation of award upon review
- g. Pivotal conducted two (2) milestone inspections; 50% and 100% construction completion, during the course of construction. Each milestone inspection report will be accompanied by a report and progress photos. The reports also identified any construction related issues, proposed change orders and homeowner concerns.
- h. Upon substantial completion, punch list inspections will be conducted on an as-needed basis and reported on the 100% construction inspection report.

(7) Jefferson Parish East Bank WWTP

Pivotal is retained by Jefferson Parish to provide Design, construction administration and Resident Inspection Service for East Bank Waste Water Treatment Plant. The scope of work was to evaluate the existing Filter Press, MCCs and rehabilitate/replace the existing direct on-line motor starters for the filter presses with Variable Frequency Drives (VFDs) and provide the design packages to integrate the new wiring of the VFDs from the existing MCCs by using the existing Circuit Breakers.



The construction scope included rehabilitation of Belt Filter Press including electrical panels, controls and electrical works; remove and replace sludge feed pumps, flow meters, muffin monster pumps, polymer feed system, polymer tank and recirculation pump, piping, valves, removable equipment access hatch, remove existing inclined conveyor and replace with horizontal conveyor, remove and replace sludge loading platform and any other items shown on the plans and specifications.

The CA and RI service also guiding the coordination between contractor and the treatment plant on going activities to minimize plant shutdown time in conformance to the construction documents of the project. The project is valued at \$4 .2 million.

(8) Pritchard Road Extension

Pivotal is retained by Jefferson Parish to provide Design, construction administration and Resident Inspection Service for for full roadway reconstruction project including improvements such as drainage pipe, drainage ditch, drainage box culvert, and sewer force main relocation . The project entails roadway rehabs to 2 blocks (857 ft). The resident inspection service are required to verify that the construction meets the plans and specs, rehabilitation goals set by Jefferson parish and DOTD. Since Pivotal is the design engineering firm of this project the resident inspection and coordination is outstanding. The CA and RI service also includes coordinating, contractor and utility companies in conformance to the construction documents of the project. The project is valued at \$1 .2 million.



(9) Causeway Street Lighting Improvements

Pivotal was retained by Jefferson Parish to provide design, construction administration and Resident Inspection Service Causeway Boulevard (Veterans Overpass to 6th Street) Street Lighting Improvement. The major scope of the improvement is removal and replacement of existing lighting system.

The CA and RI service also includes coordinating, contractor and utility companies in conformance to the construction documents of the project. The project is valued at \$842,000.



(10) RR139 Plum Orchard/West Lake Forest Group B

Pivotal Engineering is retained by the City of New Orleans Department of Public Works to perform the design and construction management for the Recovery Roads Project in New Orleans East. The project entails roadway rehabs to 19 blocks (6,650 ft) in the neighborhood of Fontainebleau Dr. The resident inspection service are required to verify that the construction meets the plans and specs, rehabilitation goals set by FEMA and CNO, and water line replacement program set by S&WB. As of 2021, Pivotal is providing inspection services in support of the construction activities. The project is valued at \$9 million



Street Lighting Projects

(1) Cousins Blvd Street Lighting Improvement, Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish to perform a preliminary and final design phase services for design and construction plan preparation of the Cousins Blvd. Lighting Improvement (Oakmere Dr. to Woodmere Blvd.). The major scope of the improvement was the installation of a new street lighting system. These facilities are becoming increasingly harder to maintain and far less energy efficient than newer equipment. The proposed project intended to replace these traditional fixtures with energy efficient LED lighting. With the energy efficiency measures proposed, it is expected to reduce the energy use in the range of 25-75% and extend the life of the light fixtures anywhere between 3-25 times their traditional counterparts. The general design requirement of work for this improvement included, but was not limited to, the following:

- a. Length of project is approximately 2600 ft (0.5 Mile) on Parish owned roadway
- b. Recommended pole spacing 140-150 ft
- c. Recommended 27.5 ft. poles, 30 ft. mounting height, 6 ft arm – Single Mast type installed on the south side of the roadway (canal side) , with 20-24” base
- d. Recommended LED lighting - ATB2 40BLEDE10 XXXXX R3 4K P7 PCLL in 4K color Temperature
- e. Recommended 2 feed points (240 volt)
- f. Underground junction box (handholds) is not required. Instead, dual fuse holders shall be used.
- g. Recommended Helical street light foundation
- h. Wiring in directional bore conduit

(2) Jamie Blvd. & W. Tish Dr. Lighting Improvements, Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish to perform preliminary and final design phase services for design and construction plan preparation of the Jamie Blvd. and W. Tish Dr. Lighting Improvement (US 90 to Cambay Dr.). The major scope of the improvement is installation of new street lighting and retrofit of the existing street light system. These facilities are increasingly becoming hard to maintain and are far less energy efficient than newer equipment. The proposed project intends to replace these traditional fixtures with energy efficient LED lighting. With the energy efficiency measures proposed, it is expected to reduce the energy use in the range of 25-75% and extend the life of the light fixtures anywhere between 3-25 times their traditional counterparts. The general design requirement of work for this improvement includes but is not limited to the following:

- a. The following two roadways are included in scope
 - Jamie Blvd. (US 90 to Cambay Dr.)
 - W. Tish Dr. (US 90 to Cambay Dr.)
- b. Length of project is approximately 2000 ft (0.4 Mile) each roadway on Parish owned roadway
- c. Recommended pole spacing 140-150 ft
- d. Jamie Blvd. recommended 27.5 ft. poles, 30 ft. mounting height, 6 ft arm – Double Mast type installed on the median, with 20-24” base (Typ. 3 each)
- e. W. Tish Blvd. recommended 27.5 ft. poles, 30 ft. mounting height, 6 ft arm – Single Mast type installed on the side of the road, with 20-24” base (Typ. 3 each)
- f. Both Jamie and W. Tish include retrofit existing street lighting by removing and replacing fixtures (Typ. 14 each).
- g. Recommended LED lighting fixture - ATB2 40BLEDE10 XXXXX R3 4K P7 PCLL in 4K color Temperature
- h. Recommended 1 feed points (120 – 240 volt) for each roadway
- i. Recommended Helical street light foundation
- j. Wiring in a directional bore conduit

(3) Metairie Road Lighting Improvements, Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish to perform a preliminary and final design phase services for design and construction plan preparation of the Metairie Rd. Street Lighting Improvement (Bonnabie Blvd. to Orpheum Ave). The major scope of the improvement is installation of street lighting system. The general design requirement of work for this improvement includes but is not limited to the following:

- a. Length of project is approximately 8,500 ft (1.6 Mile) on parish owned back of curb to property line right of way.
- b. Removal of existing metal pole street lights.
- c. Recommended pole spacing 150 to 160 ft
- d. Recommended Dunwoody Aluminum Pole, mounting height 14ft/16ft with 20” base
- e. Recommended 100W LED lighting
- f. Recommended feed points (120 – 240 volt)
- g. Recommended Helical street light foundation
- h. Wiring (directional bore conduit), Fixtures, and miscellaneous construction
- i. Requires Arborist service, tree protection, root pruning and trenching as necessary

(4) West Metairie Road Lighting Improvements, Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish to perform a preliminary and final design phase services for design and construction plan preparation of the W. Metairie Ave. U-Turns Street Lighting Improvement (Roosevelt Blvd. to David Dr.). The major scope of the improvement is installation of street lighting system. The general design requirement of work for this improvement includes, but is not limited to, the following:

- a. The following four W. Metairie Ave. intersections and U-turns are included in the scope.
 - Intersection of W. Metairie Ave. and David Drive
 - Intersection of W. Metairie Ave. and Lynnette Drive
 - Intersection of W. Metairie Ave. and N. Bengal Road
 - U turn on W. Metairie Ave. between N. Lester Ave and N. Howard Ave
- b. Recommended pole spacing 150 to 160 ft
- c. Recommended Dunwoody Aluminum Pole, mounting height 14ft/16ft with 20” base
- d. Recommended 100W LED lighting
- e. Recommended 1 feed points (120 – 240 volt) for each intersection

- f. Recommended Helical street light foundation
- g. Wiring (directional bore conduit), Fixtures, and miscellaneous construction.
- h. Median concrete removal, hydro seed grass, and new sidewalk, new ADA ramp

(5) Causeway Boulevard Lighting Improvements, Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish to perform a preliminary and final design phase services for design and construction plan preparation of the Causeway Boulevard (Veterans Overpass to 6th Street) Street Lighting Improvement. The major scope of the improvement included the removal and replacement of existing lighting system. The general design requirement of work for this improvement includes but is not limited to the following:

- a. Length of project is approximately 4,800 ft (0.9 mile) on parish owned roadway.
- b. Removal and replacement of existing street lights (see attached map for approx. locations)
- c. Recommended pole spacing 150 to 160 ft
- d. Recommended mounting height max. 40ft (recommended pole height 35 ft)
- e. Recommended LED lighting
- f. Recommended 3 to 4 feed points (120 – 240 volt)
- g. Recommended Helical street light foundation
- h. Wiring (directional bore conduit), E-boxes, Fixtures, and miscellaneous construction

(6) Green Acres Rd. Lighting Improvements, Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish to perform a preliminary and final design phase services for design and construction plan preparation of the Green Acres Rd. Street Lighting Improvement (W. Metairie Ave. to Airline Dr.). The major scope of the improvement is installation of street lighting system. The general design requirement of work for this improvement includes but is not limited to the following:

- a. Length of project is approximately 2,700 ft (0.51 Mile) on parish owned roadway.
- b. Recommended pole spacing 150 to 160 ft
- c. Recommended mounting height 16ft
- d. Recommended LED lighting
- e. Recommended 2 feed points (120 – 240 volt)
- f. Recommended Helical street light foundation
- g. Wiring (directional bore conduit), E-boxes, Fixtures, and miscellaneous construction

(7) Live Oak Street Solar Lighting Improvements, Jefferson Parish, LA

Pivotal will provide preliminary and final design phase services for design and construction plan preparation of the Live Oak Street Lighting Project (US 90 to S. Kenner Rd). The major scope of the improvement is installation of new solar street lighting system. As per the evaluation phase report, the following general design requirements are established:

- a. Length of project is approximately 18,500 ft (3.5 miles) on Parish owned roadway
- b. Design based on product of Cypress Lighting Technologies, LLC
- c. Pole spacing staggered at 200ft
- d. Pole shall be installed at minimum 6 feet from the edge of travel lane
- e. Single 8 feet long arm shall be used
- f. Fixture mounting height shall be minimum 25 feet
- g. Fixtures shall be all-in-one solar LED Street light (100W) with a minimum 12V 42Ah Lithium battery
- h. Fixture shall be programmable to operate at 30% (30W) when traveling vehicle is not-detected and 80% (80W) when traveling vehicle is detected
- i. Fixture, solar panel and battery shall be warranted for 5 years

Environmental Projects

(1) Ingalls Shipbuilding, Avondale Mainyard, Avondale, LA

Pivotal performed Environmental Site Assessment of 250-acre ship manufacturing facility. Reviewed historical records dating to 1890s and operational data from 1930s. Team conducted details site inspections to locate prudential environmental concerns.

The objective of this project is to conduct an Environmental Site Assessment (ESA) of the Property in accordance with the “Standard Practice for Environmental Site Assessments: Phase I Environmental Site Assessment Process,” ASTM Standard E1527-13 (2013), in part to establish the CERCLA “Innocent Land Owner Defense” and whether any potential Recognized Environmental Conditions which can cause a “Business Environmental Risk” (BER) (as defined in ASTM Standard E1527-13) that could adversely impact the Property. Use of ASTM Standard E1527-13 intends to constitute “All Appropriate Inquiries” for establishing Land Owner Liability Protection under the Brownfield Amendments.

(2) Louis Armstrong New Orleans International Airport, Performed Environmental Investigation of Former Burn-pit

Pivotal investigated diesel contaminated soils resulting from past fire-fighting training. Installed eight soil borings and four groundwater wells. Prepared risk assessments and secured a “No Further Action Determination” from the Louisiana Department of Environmental Quality.

(3) Northrop Grumman Ship Systems, Closed Westwego Manufacturing Facility, Westwego, LA

Pivotal identified 35 recognized environmental conditions and conducted site-wide soil, water and groundwater investigation. Prepared detailed risk assessment for closure, served as expert witness during litigation with Union Pacific (landowner). A wastewater treatment permit was secured to treat and discharge over 500,000 gallons of water from the site. This resulted in a \$300,000 savings to the client by eliminating the need for transportation and offsite treatment. Received “No Further Action” required determination from LDEQ.

(4) Northrop Grumman Ship Systems, Closed Manufacturing Facility, Algiers, LA

Pivotal conducted Phase 1 and 2 environmental site assessments. Performed risk assessment and received closure for transfer back to landowner (Port of New Orleans).

(5) Northrop Grumman Ship Systems, Avondale Mainyard Manufacturing Facility, Avondale, LA

Pivotal negotiated cooperative agreement with LDEQ for investigation of impacts detected during site wide utility improvements. Prepared risk assessment for main yard. Closed fuel storage area, former boiler site and lower building ways with “No Further Action.”

(6) City of Shreveport, Woolworth Road Landfill, Shreveport, LA

Pivotal Developed hydro/geological work plan. Liaison for LDEQ approval and exemptions. Prepared permit application for horizontal expansion.

(7) City of Shreveport, Woolworth Road Landfill, Shreveport, LA

Pivotal prepared Title V permit Applications, greenhouse gas reporting, emission inventories and NSPS/MACT reporting.

(8) Louis Armstrong New Orleans International Airport, Performed Environmental Investigation of Fuel Storage area

Pivotal investigated of fuel storage area located at the private air terminal at the airport. Prepared risk assessments and secured a “No Further Action Determination” for the Louisiana Department of Environmental Quality.

(9) Louis Armstrong New Orleans International Airport, Stormwater Permit Compliance

Pivotal provided stormwater compliance for the Airport's water discharge permit. Personnel used ISCO samplers to collect 24-hour composite samples and reported results to the Louisiana Department of Environmental Quality and the City of Kenner's contract operator. Staff reviewed the Airport's Tenants to ensure their operation complied with the Stormwater Pollution Prevention Plan. Staff located the source of a contaminant and assisted the responsible Tenant in modifying operations to prevent future impact to discharges.

(10) Entergy Corporation, Nine Mile Point Generation Facility, Westwego, LA

Pivotal sampled wastewater ponds with low level radioactive isotopes. Prepared risk assessment for closure of wastewater ponds. The project is Approved by LDEQ for "No Further Action."

(11) Entergy Corporation Sterlington Generation Facility, Sterlington, LA

Pivotal prepared risk assessment for closure of wastewater ponds approved by Louisiana Department of Environmental Quality (LDEQ) for "No Further Action."

(12) Entergy Corporation, Michoud Generation Facility, Michoud, LA

Pivotal conducted bio assay sampling, analysis and reporting for the Mississippi River Gulf Outlet receiving waters.

(13) Waste Management of Mississippi, Inc, Pecan Grove Landfill, Gulfport, MS

Pivotal prepared wastewater permit applications for discharge to local POTW.

(5) "Location of the principal office where work will be performed."

Pivotal Engineering, LLC is conveniently located at 3925 N. I-10 Service Road W., Suite 109R; Metairie, LA 70002. This shall prove to be a valuable asset to the Jefferson Parish as our staff can be at the parish's office at moment's notice to attend critical meetings.

(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 or 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."

Pivotal Engineering, LLC is not, nor has it ever been, involved in any litigation with Jefferson Parish or any other Parish/State/Federal agencies.

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

In testimony to our performance history we offer the following specific reference for contact:

- I. Nguyen Phan, P.E., Chief Engineer City of New Orleans DPW. (504) 658-8000, nphan@nola.gov
- II. Khalid L. Saleh, Ph.D, Project Manager Supervisor, City Of New Orleans DPW, (504) 658-8208, ksaleh@nola.gov
- III. Neil Schneider, CCM, P.E. Director of Capital Projects, Jefferson Parish Department of Capital Projects (504) 736-6833, nschneider@jeffparish.net
- IV. Mike Lockwood, Director of Sewerage, Jefferson Parish Department of Sewer (504) 736-6661, mlockwood@jeffparish.net
- V. Mitchell Theriot, P.E. Director of Drainage, Jefferson Parish Department of Drainage (504) 736-6753, mtheriot@jeffparish.net
- VI. Mark Drewes, PE; Director of Public Works, Jefferson parish, Department of Public Works, (504) 736-6783, mdrewes@jeffparish.net

- VII. Angela DeSoto, PE; Director of Engineering; Jefferson Parish, Department of Engineering, (504) 736-6500, adesoto@jeffparish.net
- VIII. Myra Alexis-Valentine, Grants Administer, St. John Parish, (985) 652-9569, m.alexisv@stjohn-la.gov
- IX. Jean Todd, Contracting Officer, US Army Corps of Engineers, (901) 828 – 1503, jean.f.todd@usace.army.mil

In summary, Pivotal Engineering meets or exceeds all the advertised evaluation criteria for this Statement of Qualifications to provide professional engineering services related to the design for the Rehabilitation of the Transcontinental & Belle Lift Station (E8-1).

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

Signature:  _____ Print Name: Avinash Mehta, PE

Title: Principal In Charge Date: 5/26/2021

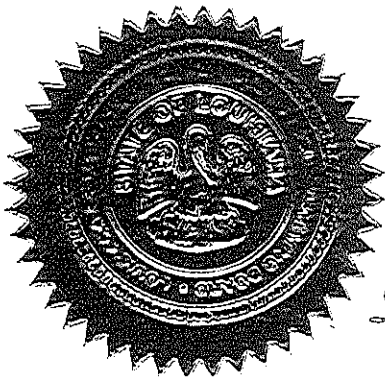
Louisiana Professional Engineering and Land Surveying Board

Hereby Certifies that

Pivotal Engineering LLC

*has complied with the regulation of this Board and is authorized
to provide or to offer to provide engineering services in the State of
Louisiana contingent upon payment of the annual renewal fee.*

Baton Rouge, Louisiana - 12/20/2012



License Number 5213

Michael J. Davis

Jane E. Bawie *Chairman*

Secretary

Attachment B

Linfield, Hunter & Junius, Inc. TEC Form

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Professional Engineering Services for the Rehabilitation
Of the Transcontinental & Belle Lift Station (E8-1)

Resolution No. 137449

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

LINFIELD, HUNTER & JUNIUS, INC.
3608 18th Street, Suite 200
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:

Nathan J. Junius, P.E., P.L.S., Vice President
Linfield, Hunter & Junius, Inc.
3608 18th Street, Suite 200
Metairie, LA 70002
504-833-5300 504-833-5350 fax
njunius@LHJunius.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.

Nathan J. Junius, P.E., P.L.S., Vice President
Linfield, Hunter & Junius, Inc.
3608 18th Street, Suite 200
Metairie, LA 70002
504-833-5300 504-833-5350 fax
njunius@LHJunius.com

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

<u>5</u> Administrative	<u>1</u> Estimators	<u>1</u> Specification Writers
<u>1</u> Architects (Licensed)	<u>1</u> Geologists	<u>4</u> Structural Engineers
<u>1</u> Chemical Engineers	<u>1</u> Geotechnical Engineers	<u>1</u> Graduate Engineers
<u>10</u> Civil Engineers	<u>1</u> Interior Designers	<u>1</u> Project Managers
<u>5</u> Construction Inspectors	<u>1</u> Landscape Architects	<u>1</u> Clerical
<u>1</u> Ecologists	<u>3</u> Land Surveyor	<u>1</u> Grant/Funding Specialist
<u>1</u> Electrical Engineers	<u>1</u> Mechanical Engineers	<u>1</u> Sanitary Engineers
<u>5</u> Engineer Intern	<u>1</u> Environmental Engineers	<u>3</u> CADD Drafters
<u>2</u> Professional Land Surveyors	<u>1</u> Architect Intern	<u>40</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.

Staffing Plan – A Diagram showing all key personnel that would be available for assignment. The Staffing Plan should also include the same information for sub-consultants (if applicable).

LINFIELD, HUNTER & JUNIUS, INC. STAFFING PLAN



Prime Consultant

pivotal

**Routine Engineering Services
for Rehabilitation of the
Transcontinental & Belle Lift
Station (E8-1)**

Resolution No. 137449

Subconsultant



LINFIELD, HUNTER & JUNIUS, INC.
PROFESSIONAL ENGINEERS, ARCHITECTS AND SURVEYORS

Management Team

Nathan J. Junius, P.E., P.L.S.
Principal in Charge

Robert E. Nockton, P.E.
Project Manager

Design Team

Civil Engineering

Sergio J. Girau, P.E.
Senior Civil Engineer

Luis F. Sosa, P.E.
Lead Civil Engineer

Wesley R. Eustis, P.E.
Civil Engineer

Mark K. Annino, E.I.

Land Surveying

Wesley R. Eustis, P.E.
Land Surveyor

Daniel D. Bindewald
Survey Party Chief

Paul H. Morales, IV
Survey Party Chief

Construction Administration and Resident Inspection

Nicholas P. Talbot
Resident Inspector

Bryce L. Vazquez
Resident Inspector

TEC Professional Services Questionnaire

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

1. N/A

2. N/A

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

YES ☐ NO ☐

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

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

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

15

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:

Nathan J. Junius, P.E., P.L.S., PTOE, Vice President

Project Assignment:

Principal In Charge

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

19 Years

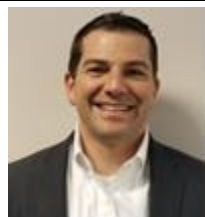
Education: Degree(s)/Year Specialization:

Tulane University / 2001 / B.S. / Civil Engineering
University of Texas / 2002 / M.S. / Civil Engineering

Active registration: Year first registered/discipline:

2002 / Civil / LA License No. PE.0031843 - 2005 / Land Surveying / LA License No. PLS.0004958

Other experience and qualifications relevant to the proposed Project:



Junius has over 19 years of project management, engineering design and construction management experience, with specialized expertise in the planning, permitting, design and construction management for a diverse range of public and private sector projects. Civil projects include major drainage canals, drainage pump stations, site developments, miles of streets, wastewater treatment plants, sewage collections systems, sewer force mains and waterline distribution projects. He has also served as an expert in disputes involving drainage and land surveying.

Junius has conducted numerous boundary, topographic, resubdivision surveys, route surveys, ALTA surveys, hydrographic surveys, utility surveys throughout Louisiana, Mississippi and Texas. ATSSA – Certified Flagger/Traffic Control Technician/Traffic Control Supervisor

SEWER PROJECTS

N. HULLEN AND VETERANS / EDENBORN AND VETERANS FORCE MAIN EXTENSION WITH LIFT STATION IMPROVEMENTS, METAIRIE, LA

This project consisted of the installation of approximately 6,300 linear feet of new HDPE force main by horizontal directional drilling and the rehabilitation of two sewage lift stations.

TEC Professional Services Questionnaire

**Nathan J. Junius, P.E., P.L.S., PTOE, Vice President
Principal in Charge**

Resume

KENNER WASTEWATER TREATMENT PLANT NO. 3 EXPANSION, KENNER, LA

Wastewater treatment plant No. 3 expansion from 42 MGD to 62 MGD.

PARISHWIDE WATER AND SEWERAGE PLANNING, PLAQUEMINES PARISH, LA

Performed analysis of existing water and sewage collection facilities Parish-wide and developed a master water and sewerage plan to provide public sewerage to presently un-sewered areas and to provide for future Parish-wide growth.

SEWAGE COLLECTION SYSTEMS FOR NAS HOUSING, BELLE CHASSE, LA

This project includes the installation of a sewage collection system and potable water distribution system to service 500 townhouses in a new Navy housing development. The system included 2 miles of gravity sewerage, 1 mile of sewage force main, 3 sewage lift stations and the installation of **multiple 8" diameter PVC waterline loops.**

EXPANSION OF BELLE CHASSE WASTEWATER TREATMENT PLANT, BELLE CHASSE, LA

Lead Engineer for the expansion of the plant from 6MGD to 12 MGD including the rehabilitation of existing bio-towers and sludge drying beds and **replacement of numerous site waterlines.**

LAND SURVEYING

Junius has been responsible for survey operations and daily direction of the survey crew. He was also responsible for the QA/QC of multibeam deliverables. Junius has provided virtual reference station (VRS)/ real time kinematic (RTK) surveys and 3rd Order Levels for Control as well as hydrographic multibeam surveys. Deliverables included an EM Files, ASCII Files, XYZ Files and a detailed survey report.

Junius is proficient with Leica Dual Frequency RTK Rovers, Leica DNA03 Digital Auto Level, Leica GPS Base Station, G-882 Magnetometer Leica Total Robotic Total Station, Leica Geo Office, Carlson Survey/Civil Software, Autocad 2016 and Civil 3D.

Junius has conducted numerous boundary, topographic, resubdivision surveys, route surveys, ALTA surveys, hydrographic surveys, utility surveys throughout Louisiana, Mississippi and Texas.

Junius has provided first order leveling for hundreds of miles of levee construction including many floodwalls and pump stations. ROW maps, levee profiles and cross sections were also provided before and after construction to confirm as-built conditions.

Junius is a member of the New Orleans Chapter American Society of Civil Engineers, American Public Works Association, Louisiana Engineering Society, Society of American Military Engineers, Louisiana Society of Land Surveyors and American Council of Engineering Companies of Louisiana/New Orleans Chapter. He has served as board member and president of several of these organizations.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Robert E. Nockton, P.E., Civil Engineer

Project Assignment:

Project Manager

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

25 Years

Education: Degree(s)/Year Specialization:

Rice University / B.S. / 1995 / Civil Engineering

Active registration: Year first registered/discipline:

2000 / Civil / LA License No. PE.0028802

Other experience and qualifications relevant to the proposed Project:



Nockton has been involved in the engineering of a wide variety of projects including improvements to major drainage structures, storm water management systems with green infrastructure, drainage pump stations, drainage studies, urban streets projects, water and **sewerage studies**, new waterlines and **sewer lines**, waterline and **sewer line replacement and upgrades, wastewater pump station design and rehabilitation**, utility relocations, surveying and site design. Nockton has been Project Manager and/or Lead Civil Engineer on many successful projects in the past five years. ATSSA – Certified Flagger/Traffic Control Technician/Traffic Control

Supervisor

N. Hullen and Veterans / Edenborn and Veterans Force Main Extension with Lift Station Improvements, Metairie, LA

Nockton is the **Project Manager** for this project. This project consists of the installation of approximately **6,300 linear feet of new HDPE force main** by horizontal directional drilling and the **rehabilitation of two sewage lift stations**.

SANITARY SEWERAGE SYSTEM ALONG LOUISIANA HIGHWAY 23 FROM BELLE CHASSE WASTEWATER TREATMENT PLANT TO LA REUSSITE, PLAQUEMINES PARISH, LA

Nockton is the **Project Manager** for this project. This project consists of the construction of sanitary sewerage, force mains, three large transfer lift stations, numerous minor lift stations and house connections along a 10-mile reach of presently unsewered area.

TEC Professional Services Questionnaire

Robert E. Nockton, P.E., Civil Engineer
Project Assignment – Project Manager

Resume

ADDITIONAL EXPERIENCE AND QUALIFICATIONS

INCREASE PUMPING CAPACITY OF SEWAGE LIFT STATION NOS. 4 AND 7, BELLE CHASSE, LA

Nockton was **Project Manager** and Lead Civil Engineer for this project. This project included construction of new discharge force mains, upgrading of lift station pumps and motors and rehabilitation of the Lift Station No. 7 wet well.

PARISHWIDE WATER AND SEWERAGE PLANNING, PLAQUEMINES PARISH, LA

Nockton was Lead Civil Engineer for this project. Performed analysis of existing sewage collection facilities Parish-wide and developed a master sewerage plan to provide public sewerage to presently unsewered areas and to provide sewerage for future Parish-wide growth.

EAST BANK SEWERAGE EXTENSIONS, POINTE-A-LA-HACHE TO BOHEMIA, PLAQUEMINES PARISH, LA

Nockton was **Project Manager** and **Lead Civil Engineer** for this project. This project included the installation of a 2-mile long **combination gravity/low pressure sewage collection system** including three sewage lift stations and individual grinder pump stations.

KENNER WASTEWATER TREATMENT PLANT NO. 3 EXPANSION, KENNER, LA

Nockton is **Project Manager** and Lead Civil Engineer for this plant expansion from 42 MGD to 62 MGD.

EXPANSION AND REHABILITATION OF THE BELLE CHASSE WASTEWATER TREATMENT PLANT, PLAQUEMINES PARISH, LA

Nockton was **Project Manager** and Lead Civil Engineer for a plant expansion from 6 MGD to 12 MGD and including rehabilitation of existing clarifiers, bio towers and sludge drying beds.

SEWAGE COLLECTION AND WATER DISTRIBUTION SYSTEMS FOR NAS HOUSING, BELLE CHASSE, LA

Nockton was Lead Civil Engineer for this project. This project included the installation of a **new sewage collection system** and potable water distribution system to service 500 townhouses in a new Navy housing development. The system included **two miles of gravity sewerage, one mile of sewage force main, three sewage lift stations** and the installation of multiple 8" diameter PVC waterline loops.

RUSSELL STREET IMPROVEMENTS, JEFFERSON PARISH, LA

Nockton was Lead Civil Engineer for this project. This project entailed the installation of approximately 1,100 feet of new 45-inch by 73-inch arch pipe beneath Stephen Drive from Russell Street to the Soniat Canal, the reconstruction of Stephen Drive and **sanitary sewer line relocation**.

SANITARY SEWERAGE REPLACEMENT IN LOWER TRIUMPH, PLAQUEMINES PARISH, LA

Oversaw the cleaning, television inspection and smoke testing of sanitary sewer lines and used the results of the television inspection and smoke testing to develop plans for sewer point repairs and rehabilitation of a deteriorated sewage lift station.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Sergio J. Girau, P.E., Vice President, Civil Engineer

Project Assignment:

Senior Civil Engineer

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

32Years

Education: Degree(s)/Year Specialization:

Louisiana State University - B.S. / 1984 / Civil Engineering

Active registration: Year first registered/discipline:

1994 / Civil / LA License No. PE.0025617

Other experience and qualifications relevant to the proposed Project:



Girau specializes in the design and construction administration of civil projects such as urban streets, highways, bridges, site developments, subdivisions, parking facilities, storm water management systems, drainage canals and drainage structures.

Girau has varied project management experience for a wide range of public clients including federal, state and local governments; and private clients, including commercial, institutional and industrial. Girau has successfully managed government projects for Jefferson Parish Department of Public Works, City of New Orleans Department of Public Works, LA-DOTD, Port of New Orleans, Sewerage & Water Board of New Orleans, Orleans Levee Board, U.S. Army Corps of Engineers, and Plaquemines Parish Department of Public Works. As project manager, Girau has overseen the successful preparation of studies, reports, construction plans and specifications of a wide variety of projects including roads and bridges.

N. HULLEN AND VETERANS / EDENBORN AND VETERANS FORCE MAIN EXTENSION WITH LIFT STATION IMPROVEMENTS, METAIRIE, LA

Girau was the Principal in Charge of this project. This project consisted of the installation of approximately 6,300 linear feet of new HDPE force main by horizontal directional drilling and the rehabilitation of two sewage lift stations.

TEC Professional Services Questionnaire

Sergio J. Girau, P.E., Vice President, Civil Engineer
Project Assignment – Senior Civil Engineer

Resume

MAGAZINE STREET / PRYTANIA STREET RECONSTRUCTION, NEW ORLEANS, LA

Girau was the Project Manager for this project. This project entailed the reconstruction of 26,500 feet of roadway including **replacement of sanitary sewer lines** and utility relocation.

LOUISVILLE STREET / CATINA STREET RECONSTRUCTION, NEW ORLEANS, LA

Girau performed as Project manager for this project. This project entailed the reconstruction of 3,950 feet of roadway including **replacement of sanitary sewer lines** and utility relocation.

EAST AND WEST LIVINGSTON PLACE ROADWAY IMPROVEMENTS, METAIRIE, LA

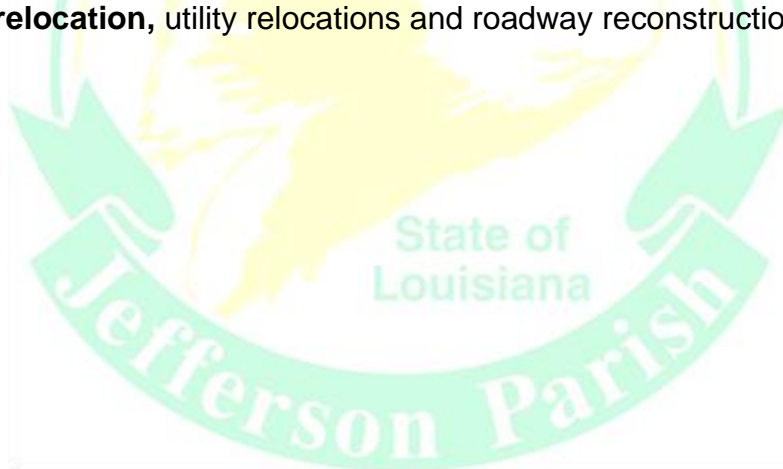
Girau performed as Project Manager for this project. This project consisted of the reconstruction of East and West Livingston Place including installation of new subsurface drainage, **sanitary sewer line replacement** and utility relocation.

DILLARD UNIVERSITY IMPROVEMENTS, NEW ORLEANS, LA

Girau performed as Project manager for this project. LH&J was engaged by Dillard University to design multiple infrastructure projects including improvement of the campus-wide drainage facilities, roadways, parks, pervious pavements, bioswales, parking lots, tennis courts and **new sanitary sewerage with lift station** for new Professional Schools and Student Union Buildings.

HOLLYGROVE DRAINAGE IMPROVEMENTS, NEW ORLEANS, LA

Girau performed as Lead Civil Engineer for this project. LH&J designed all improvements including the covered box culverts, subsurface drainage, two drainage pumping stations, **sanitary sewerage replacement and relocation**, utility relocations and roadway reconstruction.



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Luis F. Sosa, P.E., Civil Engineer

Project Assignment:

Lead Civil Engineer

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

42 Years

Education: Degree(s)/Year Specialization:

Louisiana State University New Orleans / B.A. / 1973 / Biological Sciences

University of New Orleans / B.S. / 1978 / Civil Engineering

Tulane University / M.S. / 1982 / Civil Engineering

Active registration: Year first registered/discipline:

1984 / Civil / LA License No. PE.0020850

1993 / Environmental / LA License No. PE.0020850

Other experience and qualifications relevant to the proposed Project:



Sosa is a seasoned engineer with experience primarily in the areas of major drainage improvements, water treatment and distribution, **wastewater collection system evaluation, repair, and upgrades, wastewater treatment**, and land development.

Sosa has considerable experience performing hydraulic analysis of open channels including culverts and of pressure pipe, including waterlines and sewage force mains.

N. HULLEN AND VETERANS / EDENBORN AND VETERANS FORCE MAIN EXTENSION WITH LIFT STATION IMPROVEMENTS, METAIRIE, LA

Sosa is the **Lead Civil Engineer** for this project. This project consists of the installation of approximately **6,300 linear feet of new HDPE force main** by horizontal directional drilling and the **rehabilitation of two sewage lift stations**.

SANITARY SEWERAGE SYSTEM ALONG LOUISIANA HIGHWAY 23 FROM BELLE CHASSE WASTEWATER TREATMENT PLANT TO LA REUSSITE, PLAQUEMINES PARISH, LA

Sosa is the **Lead Civil Engineer** for this project. This project consists of the construction of sanitary sewerage, force mains, three large transfer lift stations, numerous minor lift stations and house connections along a 10-mile reach of presently unsewered area.

TEC Professional Services Questionnaire

Luis F. Sosa P.E., Civil Engineer
Project Assignment – Lead Civil Engineer

Resume

ADDITIONAL EXPERIENCE AND QUALIFICATIONS

INCREASE PUMPING CAPACITY OF SEWAGE LIFT STATION NOS. 4 AND 7, BELLE CHASSE, LA

Sosa was Senior Civil Engineer for this project. This project included construction of new discharge force mains, upgrading of lift station pumps and motors and rehabilitation of the Lift Station No. 7 wet well. Sosa was the Lead Civil Engineer for a previous project that included the **rehabilitation of the wet wells of these two major lift stations.**

PARISHWIDE WATER AND SEWERAGE PLANNING, PLAQUEMINES PARISH, LA

Sosa was Senior Sanitary Engineer for this project. Performed analysis of existing sewage collection facilities Parish-wide and developed a master sewerage plan to provide public sewerage to presently un-sewered areas and to provide sewerage for future Parish-wide growth.

EAST BANK SEWERAGE EXTENSIONS, POINTE-A-LA-HACHE TO BOHEMIA, PLAQUEMINES PARISH, LA

Sosa was Senior Civil Engineer for this project. This project included the installation of a 2-mile long **combination gravity/low pressure sewage collection system** including three sewage lift stations and individual grinder pump stations.

KENNER WASTEWATER TREATMENT PLANT NO. 3 EXPANSION, KENNER, LA

Sosa was Senior Sanitary Engineer for this plant expansion from 42 MGD to 62 MGD.

BELLE CHASSE WASTEWATER TREATMENT PLANT EXPANSIONS, PLAQUEMINES PARISH, LA

Sosa was the Senior Sanitary Engineer for two expansions of the Belle Chasse Wastewater Treatment Plant. The first expansion, completed in the 1980's, expanded that plant capacity to 6 MGD and added new secondary treatment. Another expansion was recently completed that expanded that plant capacity from 6 MGD to 12 MGD and included rehabilitation of the existing plant facilities.

SANITARY SEWERAGE REPLACEMENT IN LOWER TRIUMPH, PLAQUEMINES PARISH, LA

Sosa was Lead Civil Engineer for this project. Oversaw the cleaning, television inspection and smoke testing of sanitary sewer lines and used the results of the television inspection and smoke testing to develop plans for sewer point repairs and rehabilitation of a deteriorated sewage lift station.

DAVANT TO EAST POINTE-A-LA-HACHE SANITARY SEWERAGE SYSTEM, PLAQUEMINES PARISH, LA

Sosa was the Lead Civil Engineer this project. This work included **five miles of gravity collection lines, two miles of force mains, 300 house connections, and six sewage lift stations.**

PARISHWIDE SMOKE TESTING OF SANITARY SEWERS IN PLAQUEMINES PARISH

Sosa was the Senior Sanitary Engineer responsible for smoke tests, TV inspections, ratings, and **rehabilitation of over 100,000 linear feet of gravity sewers and numerous deteriorated sewage lift stations** in Plaquemines Parish.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Wesley R. Eustis, P.E., P.L.S., Civil Engineer/Land Surveyor

Project Assignment:

Civil Engineer / Land Surveyor

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

17 Years

Education: Degree(s)/Year Specialization:

Louisiana State University / B.S. / 2004 / Civil Engineering

Active registration: Year first registered/discipline:

2010 / Civil / LA License No. PE.0035537

2019 / Land Surveying / LA License No. PLS.0005225

Other experience and qualifications relevant to the proposed Project:



Eustis's engineering experience is primarily in civil sitework, utility relocation and roadway design. A number of these projects have required specialized experience in stormwater management, drainage calculations and incorporation of green infrastructure into the site design. ATSSA – Certified Flagger/Traffic Control Technician/Traffic Control Supervisor

Civil Sitework

- Site feasibility and design phases for numerous CVS/Pharmacy and Dollar General projects throughout the southeastern region of the United States.

Many of these sites included installation of new on-site **sewage lift stations and/or packaged wastewater treatment units.**

- Kia of Covington – Covington, LA
- Campus Federal Credit Union – New Orleans, LA
- Lake Trail Drainage Pump Station – Kenner, LA

Utility Relocations

- Superior Seafood – **Sewer Relocation** – St. Charles Avenue at Napoleon Avenue, New Orleans, LA
- Saenger Theatre – Drainage Relocation – N. Rampart Street at Iberville, New Orleans, LA

TEC Professional Services Questionnaire

Wesley R. Eustis, P.E., P.L.S., Civil Engineer / Land Surveyor
Project Assignment – Civil Engineer / Land Surveyor

Resume

ADDITIONAL EXPERIENCE AND QUALIFICATIONS

Road Design Projects

- Left Turn Lane Addition – US 61 and LA 42 – Prairieville, LA
- Deceleration Lane – US 31W & KY 1008 – Franklin, KY
- Road Widening – Club Deluxe Road – Hammond, LA

Eustis has also worked extensively on the firm's surveying efforts. He has served as rodman, party chief and draftsman for both topographic and boundary surveys and regularly performs computations and analysis of boundaries.

Following is a sampling of Eustis' survey experience:

- Tract A-1 and Tract A-2 - Gonzales, LA - Boundary and Topo Survey
- Tract A-2 - Ascension Parish, LA - Boundary and Topo Survey -
- Parcel 6A-1 - New Orleans, LA - Boundary and Topo Survey
- Tract - Pineville, LA - Boundary and Topo Survey
- Parcels C-1 and C-2 - Slidell, LA - Boundary and Topo Survey
- Lots 11-16 - Ponchatoula, LA - Boundary and Topo Survey
- Lots 1-4, Sq. 77 and Lots 1-4, Sq. 78 - Donaldsonville, LA - Boundary and Topo Survey
- Shop Rite Tract 1 & 2 and the Soileau Tract - Lake Charles, LA - Boundary and Topo Survey
- Tract - Sulphur, LA - Boundary and Topo Survey
- Lot 2, Lot 3, and the George Ledet, Jr. Tract - Galliano, LA - Boundary and Topo Survey
- Tracts 1-3 - Kaplan, LA - Boundary and Topo Survey
- Tracts 1, 2, 28-31 - Lake Charles, LA - Boundary and Topo Survey
- Lots 1-4 and 10-18 - Plaquemine, LA - Boundary and Topo Survey
- Pt No. 1-5 - Walker, LA - Boundary and Topo Survey
- Tracts 1-5, Marksville, LA - Boundary and Topo Survey
- Parcel B - Baton Rouge, LA - Boundary and Topo Survey
- Square 307A, New Orleans, LA - Boundary and Topo Survey
- Mayet Tract and Lot 3 - Near Raceland, LA - Boundary and Topo Survey
- Lots 1, 2, 5&6 - Crowley, LA - Boundary and Topo Survey
- 20 Acres, Sec. 31, T55-R7E - Tangipahoa Parish, LA - Boundary Survey
- Metairie Rd. Sewer Investigation, Jefferson Parish, LA – Topographic Survey

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Mark K. Annino, E.I.

Project Assignment:

Civil Engineering

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

25 Years

Education: Degree(s)/Year Specialization:

University of New Orleans / B.S. / 1995 / Civil Engineering

Active registration: Year first registered/discipline:

1995 / Civil / LA License No. EI.0016308

Other experience and qualifications relevant to the proposed Project:



Annino has vast experience preparing plans and specifications for numerous municipal and private projects. The scopes of these projects include roadways, bridges, subsurface and major drainage structures, water distribution systems, utility system replacement / relocation (sewer, water, drain, etc.), hydraulic structures. Annino has also been involved in the permit application process and construction administration of several of these projects. ATSSA – Certified Flagger/Traffic Control Technician/Traffic Control Supervisor

N. HULLEN AND VETERANS / EDENBORN AND VETERANS FORCE MAIN

EXTENSION WITH LIFT STATION IMPROVEMENTS, METAIRIE, LA

Annino performed preliminary geometric layouts and developed logistical construction procedures for this project that consists of the installation of approximately **6,300 linear feet of new HDPE force main** by horizontal directional drilling and the **rehabilitation of two sewage lift stations**.

MAGAZINE STREET / PRYTANIA STREET RECONSTRUCTION, NEW ORLEANS, LA

Annino was the Civil Engineering Design Team Leader for this project. This project entailed the reconstruction of 26,500 feet of roadway including **replacement of sanitary sewer lines** and utility relocation.

LOUISVILLE STREET / CATINA STREET RECONSTRUCTION, NEW ORLEANS, LA

Annino was the Civil Engineering Design Team Leader for this project. This project entailed the reconstruction of 3,950 feet of roadway including **replacement of sanitary sewer lines** and utility relocation.

TEC Professional Services Questionnaire

Mark K. Annino
Project Assignment – Civil Engineering

Resume

ADDITIONAL EXPERIENCE AND QUALIFICATIONS

PARISHWIDE WATER AND SEWERAGE PLANNING, PLAQUEMINES PARISH, LA

Performed analysis of existing sewage collection facilities Parish-wide and developed a master sewerage plan to provide public sewerage to presently unsewered areas and to provide sewerage for future Parish-wide growth.

EAST AND WEST LIVINGSTON PLACE ROADWAY IMPROVEMENTS, METAIRIE, LA

Annino was the Civil Engineering Design Team Leader for this project. This project consisted of the reconstruction of East and West Livingston Place including installation of new subsurface drainage, **sanitary sewer line replacement** and utility relocation.

CUDDIHY DRIVE AND WOODVINE AVENUE DRAINAGE IMPROVEMENTS, METAIRIE, LA

Annino was the Civil Engineering Design Team Leader for this project. This project consisted of the upgrading of the subsurface drainage system along Cuddihy Drive and a part of Woodvine Avenue, the reconstruction of the affected roadways, **sanitary sewer line relocation** and utility relocation.

WOODLAND AVENUE RECONSTRUCTION, NEW ORLEANS, LA

Annino was the Civil Engineering Design Team Leader for this project. This project entailed the reconstruction of 2,250 feet of divided roadway including **replacement of sanitary sewer lines** and utility relocation.

HOLLYGROVE DRAINAGE IMPROVEMENTS, NEW ORLEANS, LA

Annino performed Civil Engineering on this project. LH&J designed all improvements including the covered box culverts, subsurface drainage, two drainage pumping stations, **sanitary sewerage replacement and relocation**, utility relocations and roadway reconstruction.

EARHART CORRIDOR RECONSTRUCTION, NEW ORLEANS, LA

Annino performed Civil Engineering on this project. This project entailed the reconstruction of 7,000 feet of roadway including **replacement of sanitary sewer lines** and utility relocation.

OTHER RELEVANT PROJECTS:

- St. Charles Avenue - 10,500 feet of roadway reconstruction
- S. Claiborne Ave Canal I - 5,000 feet of roadway reconstruction and utility relocation
- General DeGaulle Crossings (S.P. No. 410-01-0039)
- Dakin Street Corridor
- Reconstruction of Metairie Road Bridge and Approach Roads at 17th Street Canal (S.P. No. 826-04-0011 & 836-05-0005), New Orleans - Metairie, LA
- Reconstruction of Eight Minor Streets, City of New Orleans, LA (City Project # 88-8-A2)
- Pressburg Street and Alcee Fortier Street Reconstruction, New Orleans, LA
- Reconstruction of Leon C. Simon Bridge and Approaches at London Canal, New Orleans, LA
- Reconstruction of Gentilly Boulevard Bridge and Approaches at London Canal, New Orleans, LA
- 70-acre (5,400 parking space) site expansion of Oakwood Shopping Center, Gretna, LA
- Shemberdy Industrial Park Subdivision (23 acres), Jefferson, LA
- North Kenner Park-N-Ride Parking Lot, Kenner, LA

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Daniel D. Bindewald, Survey Party Chief

Project Assignment:

Survey Party Chief

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

12 Years

Education: Degree(s)/Year Specialization:

Southeastern Louisiana University / B.A. / Criminal Justice

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:



Bindewald has served as a survey crew member and more recently as a survey party chief on numerous projects.

Bindewald initially joined LH&J as a survey party crew member and began performing as the **crew chief** of LH&J's Survey Party Team 2 in 2009. Bindewald is proficient in the use of modern GPS/RTK survey instruments, as well as conventional total stations and levels. He is experienced in performing land surveys in all types of environments, including urban, forests and marshes. Bindewald has led survey crews conducting boundary, topographic and hydrographic surveys in

Louisiana, Texas and Mississippi. He is knowledgeable of the USACE New Orleans District Minimum Survey Standards Edition 4.1, February 2015, (as well as prior editions) and has a high level of experience and expertise ensuring that all survey work performed by LH&J for the USACE New Orleans district is performed in strict compliance with these standards. ATSSA – Certified Flagger/Traffic Control Technician/Traffic Control Supervisor

INNER HARBOR NAVIGATION CANAL SURGE PROTECTION BARRIER, ORLEANS PARISH, LOUISIANA

Provided surveying services including locating borings in the field and providing elevations with latitude and longitude coordinates. Located the USACE baselines and tied into the project control to provide station and offset data. Benchmarks were occupied and set for project control. Existing and final cross sections were taken providing cut/fill quantities, station and offset data for 36" diameter pipe piles were provided for QA/QC measures. Bindewald was the GPS survey party crew chief responsible for the accurate collection of all field survey data and reviewed the developed survey files and drawings for consistency with USACE New Orleans District Minimum Survey Standards

TEC Professional Services Questionnaire

Daniel D. Bindewald, Survey Party Chief
Project Assignment – Survey Party Chief

Resume

ADDITIONAL EXPERIENCE AND QUALIFICATIONS

STORM PROOFING ORLEANS PARISH DRAINAGE PUMP STATIONS, NEW ORLEANS, LA

Provided topographic surveys of 18 existing pump station sites for the project. Baselines and benchmarks were established to obtain elevations and latitude/longitude data. Utilities were located and related to the baselines using station/offset data, right-of-way maps were provided to the USACE for project design. Bindewald was the GPS Survey party crew chief responsible for the accurate collection of all field survey data and reviewed the developed survey files and drawings for consistency with USACE New Orleans District Minimum Survey Standards. Program Cost was approximately \$200 million.

PREPARATION OF PLANS AND SPECIFICATIONS FOR THE HURRICANE PROTECTION SYSTEM AT WEST BANK NON-FEDERAL LEVEE NOV-NF-W-04 OAKVILLE TO LAREUSSITE IN PLAQUEMINES PARISH, LA

During the design of this 8.3 mile levee and fronting protection project, Bindewald was the GPS survey party crew chief responsible for performing the supplemental surveys that were needed to complement the Government furnished survey information. Detailed topographic surveys were performed using GPS/RTK equipment at the Ollie Pump Station and at the interface with the adjacent WBV-09a floodwall. Hydrographic surveys were performed to collect bathymetric data for a number of canals and bodies of water that are immediately adjacent to the levee alignment. All elevation data was collected using the North American Vertical Datum (N.A.V.D. 88) (2004.65) and all X-Y coordinates were based upon the Louisiana State Plane Coordinate System, South Zone NAD 83, in U.S. survey feet. During the construction of the project, Bindewald was the GPS survey party chief responsible for field locating the locations for installing 30 temporary bench marks (TBMs) that were supported by 60-foot deep concrete filled boreholes. After construction of the TBMs he performed high precision ± 1.5 mm leveling surveys to tie the TBMs into the required vertical and horizontal datums. He also filed located the installation locations for 34 geotechnical instrumentation clusters and monitoring panels that are used to measure settlement during the first stage of the levee construction and then surveyed the precise elevation and location for each instrument after they were installed. As part of the settlement monitoring program, every two weeks Bindewald leads a survey crew that performs high precision elevation surveys of each of the 34 settlement plates and monitoring panels so that surveyed data can be correlated to the remotely monitored settlement gauges. Construction cost of the project is approximately \$45 million.

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Paul H. Morales, IV, Survey Party Chief

Project Assignment:

Survey Party Chief

Name of Firm with which associated:

LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

8 Years

Education: Degree(s)/Year Specialization:

University of New Orleans / B.S. / 2005 / Civil Engineering

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Morales has both civil engineering design experience and resident inspection experience. During two summers while still in college, he often served as an LH&J survey crew member. He was a design engineer for civil site work on numerous CVS/Pharmacy and Dollar General store sites. Large Scale Topographical and ALTA Surveys for U.S. Army Corps of Engineers, Plaquemines Parish Government and a major pharmacy chain. Elevation, Construction Layout and Pile Layout, GPS, Robotics, Total Station experience including data transfer, plotting and printing. Manual and Mechanical Traffic Counts. TWIC, ATSSA – Certified

Flagger/Traffic Control Technician/Traffic Control Supervisor

RELEVANT EXPERIENCE:**INNER HARBOR NAVIGATION CANAL SURGE PROTECTION BARRIER, ORLEANS PARISH, LA**

Provided surveying services including locating borings in the field and providing elevations with latitude and longitude coordinates. The USACE baselines were located and tied into the project control to provide station and offset data. Benchmarks were occupied and set for project control. Existing and final cross sections were taken providing cut/fill quantities, station and offset data for 36-inch diameter pipe piles were provided for QA/QC measures. Morales performed as a survey party technician for the accurate collection of all field survey data and reviewed the developed survey files and drawings for consistency with New Orleans District Minimum Survey Standards. Construction cost >\$1.5B

HSDRRS LEVEE PROFILES FOR SOUTHEAST LOUISIANA FLOOD PROTECTION AUTHORITY – EAST – LAKE PONTCHARTRAIN LEVEE SYSTEM

Approximately 63 miles of earthen levee centerline profile surveys in Jefferson, Orleans and St. Bernard Parish using tilt rover and base stations. Project compared the existing profile elevations to the design profile elevations.

TEC Professional Services Questionnaire

Paul H. Morales, IV
Project Assignment – Survey Party Chief

SOUTHSHORE HARBOR, NEW ORLEANS, LA

Hydrographic survey of approximately 150 acres in Southshore Harbor including portions of the navigation channel and Lake Pontchartrain. Included cross sections and profiles of approximately 10 acres of the north peninsula floodwall for a potential dredge spoil area.

AVONDALE SHIPYARD REDEVELOPMENT, AVONDALE, LA

Hydrographic surveys for 2 miles of the Mississippi River in front of the existing docks. USACE Baseline profile surveys and cross sections. Included batture surveys and topographic surveys of existing lay down areas.

MAGAZINE STREET TOPOGRAPHIC SURVEY, NEW ORLEANS, LA

LH&J provided topographic surveying services for the project that consisted of the reconstruction of 12,500 linear feet of 35' wide roadway, including removal of over 18,720 linear feet of streetcar tracks that are buried under Magazine Street, construction of new concrete roadway, replacement of the storm drainage system, sewer lines and water mains. Role: Survey Party



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Nicholas P. Talbot, Senior Resident Inspector

Project Assignment:

Senior Resident Inspector

Name of Firm with which associated:



LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

6 Years

Education: Degree(s)/Year Specialization:

University of New Orleans / Management
Delgado Community College / Assoc. B.A. / 2011 / Management

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:



Talbot is a seasoned Construction Inspector with over 14 years of experience. Projects completed in coordination with the United States Army Corps of Engineers (USACE) account for 7 years of this experience. Prior to construction inspection, Talbot was a Materials Testing Field Technician and accordingly is familiar with the normal material tests and procedures commonly needed for construction projects.

REGISTRATIONS/CERTIFICATIONS:

LADOTD – Embankment and Base Course Inspection/Certification

LADOTD – Portland Cement Concrete Paving

LADOTD – Asphalt Concrete Paving Certification

ATSSA – Certified Flagger/Traffic Control Technician/Traffic Control Supervisor

INCREASE PUMPING CAPACITY OF LIFT STATION NO. 7, BELLE CHASSE, LA

Resident Inspector for this **sewerage project** that consisted of pumping improvements to a major lift station, installation of approximately 1,400 feet of 16-inch diameter force main and replacement of approximately 900 feet of concrete roadway. Talbot was responsible for monitoring the work and contractor QC and QA activities, coordinating materials testing activities and verifying contractor payment request quantities.



LINFIELD, HUNTER & JUNIUS, INC.
PROFESSIONAL ENGINEERS, ARCHITECTS, LANDSCAPE ARCHITECTS AND SURVEYORS

Nicholas P. Talbot, Senior Resident Inspector
Project Assignment – Senior Resident Inspector

Resume

ADDITIONAL EXPERIENCE AND QUALIFICATIONS:

DIAMONDHEAD WASTEWATER TREATMENT PLANT EXPANSION PROGRAM
DIAMONDHEAD, MS

Resident Inspector for this \$24 million project to construct a 1.25 MGD wastewater treatment plant in Diamondhead, MS. He provides daily supervision of the Contractor's field activities and monitors activities for permit compliance for this FEMA funded project.

JEFFERSON PARISH SUBMERGED ROADS PROGRAM – ASPHALT PACKAGE,
JEFFERSON PARISH, LA

Resident Inspector for this project that consisted of the cold milling and overlaying of numerous blocks of asphalt roadway. Talbot was responsible for monitoring the work and contractor QC and QA activities, collecting and organizing asphalt truck tickets, verifying contractor payment request quantities and preparation of reports summarizing daily construction activities.

HOEY'S CANAL IMPROVEMENTS (PHASE II & III), JEFFERSON PARISH, LA

Resident Inspector for this drainage project that consisted of the concrete lining of approximately 1,700 feet of earthen canal and included construction of a new in-line pile-supported railroad culvert. Talbot was responsible for monitoring the work and contractor QC and QA activities, coordinating materials testing activities, verifying contractor payment request quantities and preparation of reports summarizing daily construction activities.

USACE – REACH 3 LAKEFRONT LEVEE PHASE 2 PROJECT, NEW ORLEANS, LA

Responsible for monitoring all QC and QA field and laboratory embankment testing. Testing on embankment inclusive of field nuclear densities, sand cone verification and one point proctor testing; reviewed and analyzed all lab reports to ensure accuracy with field data. The project further consisted of clearing and grubbing of existing levee and borrow pits, placement of compacted fill on both protected and flood side of levee, construction of new access road, and the placement of asphalt access road the entire length of project.



TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Bryce L. Vazquez, Resident Inspector

Project Assignment:

Resident Inspector

Name of Firm with which associated:

LINFIELD, HUNTER & JUNIUS, INC.

Years' experience with this Firm:

.5 Years

Education: Degree(s)/Year Specialization:

University of New Orleans / B.S./ 2020 / Civil Engineering

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:**REGISTRATIONS/CERTIFICATIONS:**

ATSSA – Certified Flagger/Traffic Control Technician/Traffic Control Supervisor

N SIBLEY ST. AT WEST NAPOLEON SUBSURFACE DRAINAGE IMPROVEMENTS (PHASE I II), JEFFERSON PARISH, LA

Resident Inspector for this subsurface drainage project that consisted of removing concrete walks and drives to install a new 1130 linear feet of 8" PVC/C900 Water Main, removing 1000 feet of PCC pavement to install new 24" R.C.P. drain line, and replacing 6" sewer lines with PVC on a residential street in Metairie, LA. Vazquez was responsible for monitoring the work and contractor QC and QA activities, coordinating materials testing activities, verifying contractor payment request quantities and preparation of reports summarizing daily construction activities.



FLOOD GATE REPAIRS GATES W-33 & E-07 FOR SOUTH LOUISIANA FLOOD PROTECTION AUTHORITY-EAST, NEW ORLEANS, LA

Resident Inspector for this project that consisted of demolishing sections of broken Flood Gate Wall and repairing the concrete embankment wall, column, and flood gate. Vazquez was responsible for monitoring the work and contractor QC and QA activities, recording contractor work time and train delay time, and verifying contractor payment request quantities and preparation of reports summarizing daily construction activities.

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>N. Hullen and Veterans Force Main Extension/Edenborn and Veterans Force Main Extension with Lift Station Improvements Jefferson Parish, LA</p> <p>Jose Gonzalez, P.E. Jefferson Parish 1221 Elmwood Park Blvd.-Ste 906 Harahan, LA 70123 (504) 736-6833</p>  	<p>Jefferson Parish Sewage Lift Stations G7-9 and F7-6 are two main lift stations that service the sanitary sewerage system along Veterans Memorial Boulevard between Causeway Boulevard and the Suburban Canal. Lift Station G7-9 is located at the southwest corner of the intersection of N. Hullen Street and Veterans Memorial Boulevard. Lift Station F7-6 is located at the southwest corner of the intersection of Edenborn Avenue and Veterans Memorial Boulevard. Over the years these lift stations and their discharge force mains have deteriorated and accordingly the lift stations regularly backup during peak events.</p> <p>This project consists of the rehabilitation of Lift Station G7-9 and Lift Station F7-6 and the construction of new effluent force mains for each lift station. Rehabilitation of the lift stations includes waterproofing of the wet wells and replacing pumps, motors and ancillary equipment. A new 10-inch diameter HDPE force main will be installed by horizontal directional drilling from Lift Station G7-9 along the south side of Veterans Memorial Boulevard to Lift Station F7-6, approximately 1,300 feet in length. This force main will discharge into Lift Station F7-6. A new 14-inch diameter HDPE force main will also be installed by horizontal directional drilling from Lift Station F7-6 along the south side of Veterans Memorial Boulevard to Lift Station F7-11, located along the Suburban Canal, approximately 5,000 feet in length. This force main will discharge into Lift Station F7-11.</p> <p>Linfield, Hunter & Junius, Inc. is providing design phase engineering services for this project.</p> <p><u>Key Features Related to this Solicitation:</u> Sanitary Sewerage (Force Mains); Sewage Lift Station Design and Rehabilitation</p> <p><u>Key Personnel Participation:</u> Sergio J. Girau, P.E.; Robert E. Nockton, P.E.; Luis F. Sosa, P.E.; Mark K. Annino, E.I.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018 A	\$1,750,000	\$1,750,000





TEC Professional Services Questionnaire

PROJECT NO. 2




PROJECT NO. 2		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Sanitary Sewerage System along LA Highway 23 from Belle Chasse Wastewater Treatment Plant to La Reussite Plaquemines Parish, LA</p> <p>Ken Dugas Plaquemines Parish Government 8056 Highway 23, Suite 309 Belle Chasse, LA 70037 (504) 934-6115</p> <div style="text-align: center;">  </div>	<p>This project consists of the installation of a new sewage force main along Louisiana Highway 23 to provide the backbone of a new sewage collection system on the West Bank of the Mississippi River in Plaquemines Parish from the Belle Chasse Wastewater Treatment Plant south to La Reussite. This sewer line will serve a rapidly developing area of Plaquemines Parish that is not currently serviced by public sewerage. Construction of a first phase of the project was recently constructed that included the installation of 12,000 linear feet of 12-inch diameter sewage force main from the Belle Chasse Wastewater Treatment Plant to Oakville and included one transfer lift station in Oakville. Plans and specifications for the next phase of the project are complete and ready for bidding pending acquisition of required rights-of-way. This next phase extends the sewage force main along Highway 23 from Oakville to La Reussite and includes extensions along several side roads off of the highway. This next phase will include the installation of 11,000 linear feet of 10-inch diameter sewage force main, 7,700 linear feet of 8-inch diameter sewage force main, 12,500 linear feet of 6-inch diameter sewage force main, 11,600 linear feet of 4-inch diameter force main, 12,400 linear feet of gravity sewer line, 3 large transfer lift stations along Highway 23, 11 minor lift stations along side roads, two bores beneath Highway 23, 61 individual grinder pump stations and connection of an estimated 216 residences to the proposed sewerage system. This next phase is being funded in part by the LCDBG Program.</p> <p>After construction of this project, the backbone of the sewerage system needed in the rapidly developing area of Plaquemines Parish extending from Oakville to La Reussite will be in place. Extension of sewers to existing residences will then follow.</p> <p>LH&J is providing all engineering services required for the project, including preparation of a topographic and utility survey, preparation of plans and specifications, bid phase services, and construction phase services including resident inspection. Additional services provided by LH&J include the preparation of Coastal Use Permit Applications and assisting Plaquemines Parish to obtain permits, utility crossing agreements and acquiring rights-of-way required for construction.</p> <p><u>Key Features Related to this Solicitation:</u> Sanitary Sewerage (Gravity Collection and Force Mains); Sewage Lift Stations</p> <p><u>Key Personnel Participation:</u> Robert E. Nockton, P.E.; Luis F. Sosa, P.E.; Nathan J. Junius, P.E., P.L.S.</p> <div style="text-align: right;">  </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2017 A	\$7,000,000	\$7,000,000

TEC Professional Services Questionnaire

PROJECT NO. 3						
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:					
<p>Rehabilitation of Sewage Lift Station Nos. 4 and 7 and Force Main Extension to Lift Station No. 8 Belle Chasse, LA</p> <p>Ken Dugas, P.E. Plaquemines Parish Government 8056 Highway 23-Ste 309 Belle Chasse, LA 70037 (504) 934-6115</p> <div style="text-align: center;">  </div>	<div style="display: flex;"> <div style="flex: 1;"> <p>The Belle Chasse Sewerage System was constructed over 50 years ago. Over the years, Lift Station Nos. 4 and 7 deteriorated heavily. These are two main lift stations in the system that collect sewage from contributory gravity collection lines serving adjacent neighborhoods and sewage that is pumped directly from several smaller lift stations. This project included the rehabilitation of Lift Station Nos. 4 and 7 including the structural rehabilitation of the lift station wet wells.</p> <p>This structural rehabilitation consisted of the installation of new reinforcing steel, placing of new concrete/gunnite cover over the reinforcing steel and the installation of a protective coating over the repaired areas. As Lift Station Nos. 4 and 7 are both major lift stations in the Belle Chasse Sewerage System, continuous operation of both lift stations during rehabilitation was critical. The project included the construction of new bypass wet wells at each lift station site that allowed for full temporary bypass pumping while the lift stations were rehabilitated.</p> <p>The project also included the construction of approximately 5,800 linear feet of 24-inch diameter HDPE force main to Lift Station No. 8 to extend a force main that originally discharged into a gravity manhole.</p> <p>Linfield, Hunter & Junius, Inc. provided complete engineering services including topographic surveys, design, bid phase, and construction phase services including resident inspection for work at both lift stations.</p> <p><u>Key Features Related to this Solicitation:</u></p> <p>Sanitary Sewerage (Force Mains); Sewage Lift Stations; Topographic Surveying</p> <p><u>Key Personnel Participation:</u></p> <p>Robert E. Nockton, P.E.; Luis F. Sosa, P.E.; Nathan J. Junius, P.E., P.L.S.</p> </div> <div style="flex: 1;">  </div> </div>					
<p>Completion Date (Actual or estimated):</p>	<p style="text-align: center;">Estimated Cost:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #00a0e3; color: white;"> <th style="width: 35%; padding: 5px;">Entire Project:</th> <th style="width: 65%; padding: 5px;">Work for which Firm was Responsible:</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 20px;">2002 A</td> <td style="text-align: center; padding: 20px;"> <div style="display: flex; justify-content: space-around;"> <div style="width: 45%;">\$740,000</div> <div style="width: 45%;">\$740,000</div> </div> </td> </tr> </tbody> </table>		Entire Project:	Work for which Firm was Responsible:	2002 A	<div style="display: flex; justify-content: space-around;"> <div style="width: 45%;">\$740,000</div> <div style="width: 45%;">\$740,000</div> </div>
Entire Project:	Work for which Firm was Responsible:					
2002 A	<div style="display: flex; justify-content: space-around;"> <div style="width: 45%;">\$740,000</div> <div style="width: 45%;">\$740,000</div> </div>					

TEC Professional Services Questionnaire

PROJECT NO. 4


PROJECT NO. 4		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Increase Pumping Capacity of Sewage Lift Station Nos. 4 and 7 Belle Chasse Sewerage System Plaquemines Parish, LA</p> <p>Ken Dugas, P.E. Plaquemines Parish Government 8056 Highway 23, Suite 309 Belle Chasse, LA 70037 (504) 934-6115</p> <div style="text-align: center; margin-top: 20px;">  </div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;">  </div> <div style="width: 35%;"> <p>Lift Station Nos. 4 and 7 are two main lift stations that service the Belle Chasse area. These lift stations collect sewage from contributory gravity collection lines</p> </div> </div> <p>serving adjacent neighborhoods and sewage that is pumped directly from several smaller lift stations. At times the gravity systems contributory to these lift stations would overflow during wet weather events when the flows from the contributory gravity systems and the total pumping capacity of the contributory lift stations exceeded the pumping capacity of Lift Station Nos. 4 and 7. To reduce the occurrence of these overflows, discharge force mains were re-routed and the capacities of these lift stations were increased.</p> <p>At Lift Station No. 4, a new 24-inch diameter discharge force main was constructed so that the lift station pumps directly to the local treatment plant and the pumping capacity of the lift station was increased from approximately 1,200 gallons per minute to 2,400 gallons per minute. Lift Station No. 7 formerly pumped through an old 14-inch diameter force main that was common to several other lift stations. During wet weather these lift stations and Lift Station No. 7 pumped against one another and reduced flows that each lift station could pump. A new 16-inch diameter discharge force main was constructed for dedicated use by Lift Station No. 7, and the pumping capacity of Lift Station No.7 was increased from approximately 1,300 gallons per minute to 3,000 gallons per minute.</p> <p>Linfield, Hunter & Junius, Inc. provided complete engineering services including topographic surveys, design, bid phase, and construction phase services including resident inspection for work at both lift stations.</p> <p><u>Key Features Related to this Solicitation:</u> Sanitary Sewerage (Force Mains); Sewage Lift Stations; Topographic Surveying</p> <p><u>Key Personnel Participation:</u> Robert E. Nockton, P.E.; Luis F. Sosa, P.E.; Nathan J. Junius, P.E., P.L.S.; Nicholas P. Talbot</p> <div style="text-align: center; margin-top: 20px;">  </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2014 A	\$3,400,000	\$3,400,000

TEC Professional Services Questionnaire

PROJECT NO. 5


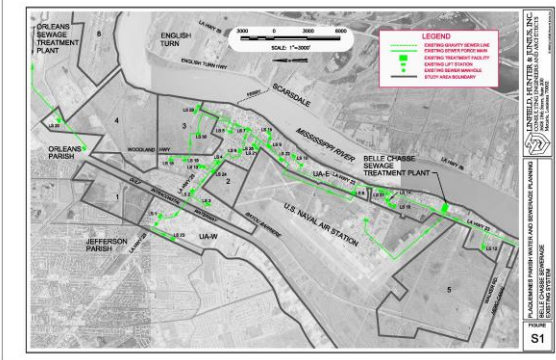
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Plaquemines Parish Water & Sewerage Planning Plaquemines Parish, LA</p> <p>Ken Dugas, P.E. Plaquemines Parish Government 8056 Highway 23 Belle Chasse, LA 70037 (504) 934-6115</p> <div style="text-align: center; margin-top: 20px;">  </div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 65%;"> <p>The Belle Chasse Wastewater Treatment Plant was constructed over 50 years ago as a primary sedimentation and digestion plant. The plant was expanded in the mid 1980's to provide secondary treatment. After this expansion, influent was treated in the following order: aeration and grit removal, comminution and bar screening, primary sedimentation, bio-tower filtration, secondary sedimentation, chlorination and pumping to the Mississippi River. Primary sludge was digested, dried via a belt filter press and sludge drying beds and disposed of in landfills. After this last expansion, the plant treatment capacity was 3.0 million gallons per day (MGD) with a peak hydraulic capacity of 6.0 MGD. Since this expansion, there has been considerable growth in the Belle Chasse area. During wet weather events, the plant was operating at or above its peak hydraulic capacity, often overflowing at the plant headworks. To reduce overflows and to provide for continuing growth in the Belle Chasse area, the plant was again expanded and existing facilities were rehabilitated.</p> <p>Prior to design of the plant expansion and rehabilitation, an assessment of the existing plant was performed. This assessment included an evaluation of several alternatives to increase treatment capacity and peak hydraulic capacity and included a 20-year phasing program to implement plant improvements. Based upon this feasibility assessment, the plant expansion would increase plant treatment capacity to 6.0 MGD and increase plant peak hydraulic capacity to 12.0 MGD.</p> <p>Plant expansion consisted of a new headworks with mechanical bar screening and grit removal via a vortex grit chamber, a new 60-foot diameter primary clarifier, a new 55-foot diameter bio-tower, a new 85-foot diameter secondary clarifier and a new chlorine contact chamber with increased effluent pumping capacity to the Mississippi River. The existing belt filter press was replaced with a larger capacity belt filter press for additional sludge handling capacity. Plant rehabilitation included the replacement of the original primary clarifier equipment, replacement of bio-tower access stairs, the repair of deteriorated concrete at the existing primary clarifiers, the leveling and repair of the sludge drying bed walls and rehabilitation of the influent lift station and trickling filter pump station.</p> <p>Linfield, Hunter & Junius, Inc. provided complete engineering services including design, bid phase, and construction phase services including resident inspection for work at the plant.</p> <p>Key Features Related to this Solicitation: Sewage Lift Stations; Sanitary Sewerage (Gravity Collection and Force Mains)</p> <p>Key Personnel Participation: Sergio J. Girau, P.E.; Robert E. Nockton, P.E.; Luis F. Sosa, P.E.; Mark K. Annino</p> </div> <div style="width: 30%;">    </div> </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2013 A	\$9,000 (fee)	\$9,000 (fee)

TEC Professional Services Questionnaire


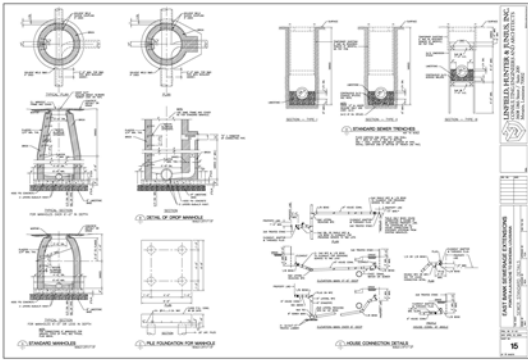
PROJECT NO. 6						
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:					
<p>Plaquemines Parish Water & Sewerage Planning Plaquemines Parish, LA</p> <p>Ken Dugas Plaquemines Parish Government 8056 Highway 23 Belle Chasse, LA 70037 (504) 934-6115</p> <div style="text-align: center; margin-top: 20px;">  </div>	<p>Portions of Plaquemines Parish are experiencing a rapid rate of growth at a time in which the Parish's existing sewerage and water systems are running at capacity, are aging, and during which public sewerage and water systems are being upgraded to provide improved water quality as required by more comprehensive and stricter sewerage and water regulations. LH&J was retained to provide Parish Wide Water and Sewerage Planning to address these needs.</p> <p>LH&J provided complete engineering services for growth projection, flow projections, assessment of existing systems, analysis of alternative improvements to provide for growth, setting of construction budgets and recommended improvements and projection of capital requirements for system expansion and rehabilitation over the next 20 years parish wide.</p> <p>Numerous sewerage improvements identified and recommended in the Planning study were subsequently funded for design and construction. These include the Expansion and Rehabilitation of the Belle Chasse Wastewater Treatment Plant, Re-Routing of Belle Chasse force mains, Increasing Pumping Capacity of Lift Station Nos. 4 and 7 and the Sanitary Sewerage Extension along Louisiana Highway 23 from the Belle Chasse Wastewater Treatment Plant to La Reussite</p> <p><u>Key Features Related to this Solicitation:</u> Sanitary Sewerage (Gravity Collection and Force Mains); Sewage Lift Stations; Wastewater Treatment</p> <p><u>Key Personnel Participation:</u> Robert E. Nockton, P.E.; Luis F. Sosa, P.E.; Mark K. Annino, E.I.</p>					
<p>Completion Date (Actual or estimated):</p>	<p style="text-align: center;">Estimated Cost:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #00a0e3; color: white;"> <th style="width: 35%; padding: 5px;">Entire Project:</th> <th style="width: 65%; padding: 5px;">Work for which Firm was Responsible:</th> </tr> </thead> <tbody> <tr> <td style="text-align: center; padding: 20px;">2002 A</td> <td style="text-align: center; padding: 20px;"> <div style="display: flex; justify-content: space-around;"> <div style="width: 45%;">\$175,000 (fee)</div> <div style="width: 45%;">\$175,000 (fee)</div> </div> </td> </tr> </tbody> </table>		Entire Project:	Work for which Firm was Responsible:	2002 A	<div style="display: flex; justify-content: space-around;"> <div style="width: 45%;">\$175,000 (fee)</div> <div style="width: 45%;">\$175,000 (fee)</div> </div>
Entire Project:	Work for which Firm was Responsible:					
2002 A	<div style="display: flex; justify-content: space-around;"> <div style="width: 45%;">\$175,000 (fee)</div> <div style="width: 45%;">\$175,000 (fee)</div> </div>					

TEC Professional Services Questionnaire



PROJECT NO. 7

Project Name, Location and Owner's contact information:		Nature of Firm's Responsibility:	
<p>Sewer Force Mains Belle Chasse Sewerage System Plaquemines Parish, LA</p> <p>Ken Dugas Plaquemines Parish Government 8056 Highway 23, Suite 309 Belle Chasse, LA 70037 (504) 934-6115</p> <div style="text-align: center; margin-top: 20px;">  </div>	<div style="display: flex; justify-content: space-between;"> <div style="width: 60%;"> <p>The Belle Chasse Sewerage System was constructed over 50 years ago and consists of a series of gravity collection lines, sewage lift stations and force mains which collect and convey domestic wastewater to the local wastewater treatment plant. Over the years, the system has been expanded and modified to meet the demands of population growth in Belle Chasse. Historically, several larger lift stations in the Belle Chasse area have overflowed during wet weather events when the total pumping capacity of the contributory lift stations has exceeded the pumping capacity of the receiving lift stations. This problem was compounded because the main lift stations "piggybacked", that is, discharged directly into the next station downstream. As part of the long-term program to reduce these overflows, force mains are being re-routed so that main lift stations no longer "piggyback" and lift stations are being calibrated so that lift stations can pump into common force mains during wet weather events with main lift stations pumping directly to the local wastewater treatment plant.</p> <p>To date, approximately 27,000 linear feet of 16-inch and 24-inch diameter force main have been constructed. Main lift station capacities have been increased to provide for wet weather requirements and for future growth, and pumps at other smaller lift are being replaced to suit future hydraulic requirements.</p> <p>A hydraulic analysis of the entire Belle Chasse pumped system was recently performed to assess the system response to current operating conditions and to assess the system response to the above system improvements to identify lift station modifications required to suit future system hydraulics.</p> <p>Linfield, Hunter & Junius, Inc. has provided complete engineering services including topographic surveys, design, bid phase, and construction phase services including resident inspection.</p> <p><u>Key Features Related to this Solicitation:</u> Sanitary Sewerage (Gravity Collection and Force Mains); Sewage Lift Stations</p> <p><u>Key Personnel Participation:</u> Robert E. Nockton, P.E.; Luis F. Sosa, P.E.; Nathan J. Junius, P.E., P.L.S.</p> </div> <div style="width: 35%; text-align: center;">  </div> </div>		
Completion Date (Actual or estimated):	Estimated Cost:		
	Entire Project:	Work for which Firm was Responsible:	
Ongoing Since 2000	\$6,000,000	\$6,000,000	

TEC Professional Services Questionnaire

PROJECT NO. 8		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Sewer Improvements - East Bank Pointe-a-la-Hache to Bohemia Plaquemines Parish, LA</p> <p>Ken Dugas, P.E. 8056 Highway 23 Belle Chasse, LA 70037 (504) 934-6115</p> <div style="text-align: center; margin-top: 20px;">  </div>	<div style="display: flex;"> <div style="flex: 1;"> <p>This project consisted of the installation of a combination gravity/low pressure sewerage system in Plaquemines Parish on the East Bank of the Mississippi River from Pointe-A-La-Hache to Bohemia. This area was not previously serviced by public sewerage. Residents were serviced by septic tanks and individual sewage package treatment plants before construction of the project. The scope of this project included the connection of residences to the proposed sewerage system. This project was funded in part by the LCDBG Program.</p> <p>The project included installation of 8,000 linear feet of gravity sewer, 10,000 linear feet of sewer forcemain, 14,000 linear feet of sewer house connection piping, 40 manholes, 3 sewage lift stations, 20 individual grinder pump stations and connection of house connection piping to 130 existing houses or structures.</p> <p>LH&J provided all engineering services required for the project, including preparation of a topographic and utility survey, preparation of plans and specifications, bid phase services, and construction phase services including resident inspection. Additional services provided by LH&J included the preparation the LCDBG Application for the project, preparation of a Coastal Use Permit Application, and assisting the Plaquemines Parish Government in conducting public meetings, obtaining permits and acquiring rights-of-way required for construction.</p> <p><u>Key Features Related to this Solicitation:</u></p> <p>Sanitary Sewerage Design (Gravity Collection and Force Mains); Sewage Lift Station Design; Topographic Surveying</p> <p><u>Key Personnel Participation:</u></p> <p>Robert E. Nockton, P.E.; Luis F. Sosa, P.E.</p> </div> <div style="flex: 1; text-align: center;">  </div> </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2004 A	\$1,073,000	\$1,073,000

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Kenner Wastewater Treatment Plant No. 3 Kenner, LA</p> <p>Tom Schreiner Deputy CAO Public Works & Capital Projects Director of Public Works City of Kenner 1610 Reverend Richard Wilson Drive Kenner, Louisiana 70062 (504) 468-7515</p> <div style="text-align: center; margin-top: 20px;">  </div>	<div style="display: flex;"> <div style="flex: 1;"> <p>Kenner Wastewater Treatment Plant No. 3 (WWTP 3) is the only wastewater treatment plant servicing the City of Kenner. The WWTP 3 serves a population of approximately 67,500. WWTP 3 is located directly north of I-10 West just east of the Jefferson Parish/ St. Charles Parish Line. The City of Kenner is presently upgrading its sewage collection system, which includes increasing the pumping capacity of several major lift stations that pump directly to the WWTP 3.</p> <p>To accommodate the increased pumping capacity of these major lift stations and to reduce the occurrence of overflows during wet weather events, the City of Kenner chose to increase the hydraulic capacity of the WWTP 3 from 42 MGD to 62 MGD by constructing a new headworks with mechanical bar screening and grit removal capabilities that will collect all of the plant influent, two new 85-foot diameter final clarifiers and a new effluent pump station. LH&J was responsible for the design of the new headworks and clarifiers.</p> <p>The WWTP 3 is a complex plant consisting of unit processes that were constructed over the past 50 years. Integration of the proposed improvements introduces a number of operational challenges. Prior to design of the proposed improvements, LH&J performed a detailed assessment of the WWTP 3 and of the planned improvements to evaluate the treatment and hydraulic performance of the plant both before and after the proposed improvements are made. The assessment was also used to evaluate plant operability to assist the plant operators to enhance their operation of the plant over the range of flow conditions.</p> <p>Construction of this project was recently completed.</p> <p><u>Key Features Related to this Solicitation:</u> Wastewater Treatment</p> <p><u>Key Personnel Participation:</u> Robert E. Nockton, P.E.; Luis F. Sosa, P.E.; Nathan J. Junius, P.E., P.L.S.</p> </div> <div style="flex: 1;">  </div> </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2017 A	\$15,500,000	\$15,500,000

TEC Professional Services Questionnaire

PROJECT NO. 10		
Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>Rehabilitation and Upgrade of Magazine and Prytania Streets including Utilities New Orleans, LA</p> <p>Tang Phan, P.E. City of New Orleans Dept. of Public Works 1300 Perdido St, Rm6W02 New Orleans, LA 70112 (504) 565-6844</p> <div style="text-align: center; margin: 20px 0;">  </div> <div style="text-align: center;">  </div>	<p>Magazine and Prytania Streets serve as major arterial roads for a bustling business area of the City of New Orleans. Complete closure of either of these streets would cripple, if not kill, many businesses in this area. Included as part of the design work is a major Construction Phasing Plan comprising seven (7) phases and six (6) different detour routes to keep the streets open to all merchants and their customers.</p> <p>The project required the removal of over 24,000 linear feet of streetcar tracks that were buried under Magazine and Prytania Streets. The total project included 16,000 linear feet of 35' wide concrete roadway, which included a heavy duty concrete pavement with an underlying aggregate base course. One section of Magazine Street, consisting of 2,000 linear feet within Audubon Park, required a major realignment in order to incorporate turning lanes accessing the park's facilities.</p> <p>The drainage system is to be replaced with 10,500 linear feet of 15" to 24" drain pipes. Improvement of the sanitary sewer lines requires the replacement of 9,600 linear feet of 8" and 10" diameter sewer pipe, sewer manholes and house service connections. Approximately 11,800 linear feet of 8" and 12" water mains will also be replaced.</p> <p>Linfield, Hunter & Junius, Inc. is coordinating the requirements and concerns of several entities, including the Sewerage & Water Board of New Orleans, Entergy, Cox Cable, the Downtown Development District, and local merchants' associations.</p> <p>LH&J is providing complete engineering services for this project including preliminary engineering, surveys, traffic engineering, geotechnical engineering, final design, and construction phase services including resident inspection.</p> <p><u>Key Features Related to this Solicitation:</u> This project demonstrates capability and experience in design and phasing of complicated urban construction projects, coordination of third party utility relocations, sewage collection system design, road design, and construction phase services.</p> <p><u>Key Personnel Participation:</u> Sergio J. Girau, P.E.; Robert E. Nockton, P.E.; Mark K. Annino, E.I.; Nathan J. Junius, P.E., P.L.S., Wesley R. Eustis, P.E., P.L.S., Daniel D. Bindewald, Paul H. Morales, IV</p> <div style="text-align: center; margin-top: 20px;">  </div>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018 A	\$10,000,000	\$10,000,000

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. None		
2.		
3.		
4.		

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

INTRODUCTION



LINFIELD, HUNTER & JUNIUS, INC. (LH&J) is pleased to submit its qualifications for the **Jefferson Parish Government Rehabilitation of the Transcontinental and Belle Lift Station (E8-1)** project as required by the advertisement. LH&J will provide surveying services and resident inspection services. LH&J and previous firms have been providing quality engineering and architectural services for over 55 years. As the design engineering consultant for numerous previous sewer lift station projects, LH&J is well postured to provide Jefferson Parish with a team of highly experienced and extremely capable engineers, land surveyors, and other design professionals who are intimately familiar with the critical design and construction considerations that are unique to this very important project. Our past

experience gives us the knowledge and understanding of the needs for this project, in particular sewer lift station design and rehabilitation. This along with our extensive experience in civil engineering design puts LH&J in the advantageous position of being able to dive straight into the project without a learning curve. The professional TEAM selected was chosen because of their **Exceptional Qualifications** in their respective fields of expertise and because of the extensive collective experience working on sewer lift station projects.

We offer a very compact team of local professionals with specialized experience specific to the scope of work required by this solicitation. With all of the work being performed at the offices of LH&J and our subconsultants locally, and with our past experience working together on similar projects, we believe that there will be seamless coordination and interaction between team members. Furthermore, LH&J's in-house land surveyors will be prioritized to this project to ensure that field survey data is rapidly obtained and furnished to our design team. Also, any requirements to obtain supplemental data as the project progresses will be quickly addressed to avoid delays.

After Hurricane Katrina, the firm re-established operations within 2 days. We were probably the first engineering firm to re-establish operations in Metairie. Since Katrina we have significantly increased our staffing levels. Within the past 15 years the firm has designed, overseen, and managed over **\$3.5 Billion** in construction. Many of these projects have been completed or are near completion including several sewer projects.

RELEVANT TO THIS PROJECT

LH&J has **unparalleled** lift station experience in the Metropolitan New Orleans area. Our proposed key personnel for this project have well over **150** cumulative years of experience in all facets of lift station design and construction administration, including new lift stations, upgrading of existing lift station capacities and repair and rehabilitation of existing lift stations. Our ongoing work rehabilitating and upgrading lift stations in the Belle Chasse area has led to a number of innovative designs, wherein lift station capacities have been systematically increased by a combination of pump replacement and rearrangement of discharge force mains to produce a more hydraulically efficient system.

Recent lift station projects include the N. Hullen and Veterans/Edenborn and Veterans Force Main Extension with Lift Station Improvements in Jefferson Parish (currently in design), the Increase Pumping Capacity of Lift Station Nos. 4 and 7 in Plaquemines Parish (recently completed) and the Sanitary Sewerage System along LA Highway 23 in Plaquemines Parish (first phase recently completed, second phase in design). See Section 8 for additional details for our most recent similar lift station projects.

Our team clearly has all the experience and training necessary to provide all the services necessary for the Rehabilitation of the Transcontinental & Belle Lift Station (E8-1) project.

A. MINIMUM REQUIREMENTS FOR SELECTION

The persons or firm submitting a Statement of Qualifications shall have the following minimum qualifications:

1. The persons or firms under consideration shall have at least one (1) principal who is a registered professional engineer in the State of Louisiana.
This will be met by the Prime Consultant.
2. The persons or firms under consideration shall have a professional in charge of the Project who is a registered professional engineer in the State of Louisiana with a minimum of five (5) years' experience.
This will be met by the Prime Consultant.
3. The persons or firms under consideration shall have one (1) employee who is a registered professional engineer in the State of Louisiana in the applicable discipline involved. A subcontractor may meet this requirement only if the advertised Project involves more than one discipline.
Nathan J. Junius, P.E., P.L.S. is a Professional Land Surveyor registered in Louisiana with more than nineteen (19) years of experience in conducting topographic surveys.
Wesley R. Eustis, P.E., P.L.S. is a Professional Land Surveyor registered in Louisiana with more than seventeen (17) years of experience in conducting topographic surveys.

B. EVALUATION CRITERIA

B.1 Professional Training and Experience

Our Team is well qualified to provide the services required for this project. We anticipate that the following services will be required and we have the complete team and will add to the Team as directed by the Parish to provide all these services.

- ✓ Sewerage and Civil Engineering
- ✓ Land Surveying
- ✓ Resident Inspection
- ✓ Traffic Engineering

TEC Professional Services Questionnaire

Sewerage and Civil Engineering (Linfield, Hunter & Junius, Inc.)

A summary of Linfield, Hunter & Junius, Inc.'s professional training and experience in the areas of sewerage includes:

- ✓ Professional staff with well over 150 cumulative years of experience in sewerage projects (see Items K and L).
- ✓ Firm background of over 40 years of sewerage experience.
- ✓ A proven track record of completed sewerage projects from feasibility studies following through to completed construction.
- ✓ Recent completion of successful sewerage projects which are similar to the scope of work of your current project.
- ✓ A working knowledge of state-of-the-art computerized methods and procedures for studies and design.

Linfield, Hunter & Junius, Inc. has a staff of engineers with significant experience in the discipline of sewerage engineering. The following list highlights this experience:

Sergio J. Girau, P.E./Principal/Civil Engineer – Over 30 years of sewerage design experience

Robert E. Nockton, P.E./Project Manager – 25 years of sewerage design experience

Luis F. Sosa, P.E./Civil Engineer – Over 30 years of sewerage design experience

Mark K. Annino/, E.I. – 25 years of sewerage design experience

Land Surveying (Linfield, Hunter & Junius, Inc.)

Linfield, Hunter & Junius, Inc. (LH&J) employs **three full time Registered Professional Land Surveyors** and maintains **two fully staffed survey field crews** who are equipped with modern vehicles and state of the art survey equipment for both conventional and GPS surveying. Our crews have worked in difficult terrain conditions, including coastal marshes, and are equipped for and experienced at performing topographic, boundary, topographic bathymetric, right-of-way, control, and hydrographic surveys as well as performing bench leveling, construction layout surveys and settlement monitoring surveys. Our CADD Drafters are highly experienced in working with both Bentley MicroStation and Autodesk AutoCAD as required. LH&J also utilizes add in modules such as ArcView, Civilsoft and InRoads to enhance the efficiency of data processing and project deliverables. We are competent at working with any vertical and horizontal datum as specified by the Client's requirements. We utilize computer based survey data processing software to achieve maximum efficiency and ensure rapid and reliable deliverables for our Clients. Since placing an increased emphasis on land surveying services, the firm has completed over \$1,000,000 in land surveys for in-house designs and others.

Public

- Jefferson Parish Department of Public Works
- LA Department of Transportation and Development
- Audubon Park, New Orleans
- U.S. Army Corps of Engineers
- City of New Orleans Department of Public Works
- Sewerage and Water Board of New Orleans
- Plaquemines Parish Government
- Pontchartrain Levee District

Private

- CVS/Pharmacies – hundreds
- Dillard University
- Tulane University
- Children's Hospital
- Woodward Design+Build
- Friends of City Park, New Orleans, LA
- Dollar General Stores – over 50
- Exxon/Mobile Corporation
- New Orleans Park-N-Fly
- Multiple design consultants

TEC Professional Services Questionnaire

- St. Tammany School Board statewide
- City of Hammond
- Tangipahoa Parish
- City of Baton Rouge
- University of New Orleans

Registered Surveyors

Nathan J. Junius, P.E., P.L.S.	BSCE, MSCE	19 years experience
Wesley R. Eustis, P.E., P.L.S.	BSCE	17 years experience

Nathan J. Junius, P.E., P.L.S. is a licensed surveyor and heads up Linfield, Hunter & Junius, Inc. surveying. In addition to extensive experience as a civil engineer, Mr. Junius has extensive experience in all aspects of land surveying.

Wesley R. Eustis, P.E., P.L.S. is a licensed surveyor. In addition to extensive experience as a civil engineer, Mr. Eustis has extensive experience in all aspects of land surveying.

Examination of the attached resumes project descriptions in Item K demonstrates that the firm has the professional training and experience to provide complete land surveying services.

B.2 Size of Firm

Linfield, Hunter & Junius, Inc. employs forty (40) individuals, as shown in Item E above. The size of our firm is ideal for projects such as the proposed project because:

- ✓ The firm is large enough that it can absorb projects of the size of the proposed project and not become overburdened by them.
- ✓ The firm is small enough to be nimble and responsive to the client.
- ✓ The management structure is not multi-layered, which facilitates resolution of issues that could otherwise slow down a project.

B.3 Capacity for Timely Completion of Newly Assigned Work

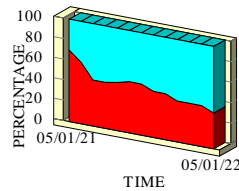
Linfield, Hunter & Junius, Inc. (LH&J) has been in business as a provider of quality engineering services in Southeast Louisiana for over 50 years. After Hurricane Katrina, the firm reestablished operations within 2 days. We were probably the first engineering firm to re-establish operations in Metairie. Since Katrina we have increased our staffing levels including engineers. Within the past 5 years the firm has designed, overseen, and managed over \$1.5 Billion in construction. Many of these projects have been completed or are near completion including the design of the \$160 Million Sewerage and Water Board Pumping Station Storm Proofing Project. Therefore, we have a large engineering team available to jump on this project. This project can be easily absorbed by the firm, as we will have substantial reserve capacity to meet any reasonable project schedule.

Our current and projected firm capacity shown below indicates a 40% capacity shortfall by June 2021. The 15% capacity anticipated for sewer projects would be very welcome and needed to maintain our current staff levels.

TEC Professional Services Questionnaire

Linfield, Hunter & Junius, Inc.

Firm Capacity



■ Firm Workload ■ Excess Capacity

Fast turnaround time is an excellent indication of our ability to respond to the needs of our clients.

Linfield, Hunter & Junius, Inc. has a well-deserved reputation for completing public projects on time; in fact, our firm often completes designs awarded to several firms at the same time before other firms' designs have been completed. Recent examples of this include:

- **17th Street Canal Widening – Hoey's Canal to Airline Drive**

The schedule for this project was accelerated to accommodate aggressive grant funding deadlines. Linfield, Hunter & Junius, Inc. completed design sufficiently ahead of schedule such that the project was bid and construction begun several weeks before the grant deadline date for construction.

- **Hoey's Canal Bypass**

Linfield, Hunter & Junius, Inc. completed design of the first phase of this project ahead of schedule to meet aggressive grant funding deadlines.

- **Alcee Fortier/Pressburg Streets**

This project was designed by Linfield, Hunter & Junius, Inc. and constructed ahead of similarly-sized projects awarded to other firms at the same time.

- **Earhart Boulevard**

Five firms were awarded similarly-sized parts of this project; Linfield, Hunter & Junius, Inc. received the last of these awards yet completed its design first.

- **Leon C. Simon and Gentilly Road Bridges**

Of the eight bridge projects awarded to various firms, Linfield, Hunter & Junius, Inc.'s two bridge projects were the first designs completed, and construction of these bridges was completed first.

- **Hollygrove Area Drainage Project**

This may be the largest single SELA drainage project. The design was completed on time under a very aggressive schedule and the firm was given the **USACE's highest rating of "EXCELLENT" including an "OUTSTANDING" rating** for the "Management and Adherence to Schedules" category. Construction is complete.

- **17th St. Canal Levee Breach Repairs, Interim Closure Structure, and Interim Pumping System**

This was among the most visible and important public projects in New Orleans and Jefferson Parish subsequent to Hurricane Katrina. The design was completed under a very aggressive fast track schedule while the firm reestablished operations and restored its flooded offices in Metairie. More than \$200 Million dollars of improvements were designed within one year. Gates and temporary drainage pumps were in place and operational in time for the 2006 hurricane season less than one year after Hurricane Katrina. The Corps of Engineers issued a **Certificate of Appreciation to the firm for Outstanding Service** in providing engineering support in Southeast Louisiana subsequent to Hurricane Katrina. **The firm received a**

TEC Professional Services Questionnaire

National Honor Award in 2009 from the American Council of Engineering Companies for design of the 17th St. Canal Interim Closure Structure.

B.4 Past Performance by Person or Firm on Similar Contracts

The firm received its first Jefferson Parish contract in 1991, and to date has received the following engineering projects:

- ✓ N. Hullen and Veterans / Edenborn and Veterans Force Main Extension with Lift Station Improvements – COMPLETED
- ✓ Canal Street Improvements – COMPLETED
- ✓ Widening and Deepening of the 17th Street Canal – COMPLETED
- ✓ FEMA Submerged Road Program District 5 Asphalt – COMPLETED
- ✓ Cuddihy Drive and Woodvine Avenue Drainage Improvements - COMPLETED
- ✓ Livingston Place East and West Drainage Improvements - COMPLETED
- ✓ Russell Street Drainage Improvements - COMPLETED
- ✓ Geisenheimer Canal Improvements - COMPLETED
- ✓ Dakin St. Pump Station - COMPLETED
- ✓ Geisenheimer Basin Drainage Study - COMPLETED
- ✓ Hoey's Bypass Canal – Phase I - COMPLETED
- ✓ Hoey's Bypass Canal – Phase II - COMPLETED
- ✓ Hoey's Canal Drainage Improvements (Phase II and III) – Phase III-a - COMPLETED
- ✓ Hoey's Canal Drainage Improvements (Phase II and III) – Phase III-b - COMPLETED
- ✓ Hoey's Canal Drainage Improvements (Phase II and III) – Phase III-c – IN DESIGN
- ✓ Hoey's Basin PAC - COMPLETED
- ✓ Labarre Business Park Drainage Improvements – COMPLETED
- ✓ Woodlawn Drainage Improvements - COMPLETED
- ✓ Dakin Street Corridor – Phase I - COMPLETED
- ✓ Dakin Street Corridor – Phases II and III – IN DESIGN
- ✓ Traffic Engineering – ON AS-NEEDED BASIS

See Item L for additional details regarding work for Jefferson Parish for selected projects.

We have had repeat assignments from all of our public sector clients demonstrating our capabilities to perform at a high level, regardless of the project scope. To the best of our knowledge, **all public projects have been completed within the allotted design time and to the clients' satisfaction.** Fast turnaround time is an excellent indication of our ability to respond to the needs of our clients; **quality is attested to by the number of repeat public clients we have.** Throughout Linfield, Hunter & Junius, Inc.'s history we have maintained an excellent working relationship with each public client. This is a significant accomplishment of which we are very proud.

Major continuing repeat public clients include:

- ✓ Jefferson Parish since 1991 (30 years)
- ✓ The Port of New Orleans since 1971 (50 years)
- ✓ U.S. Army Corps of Engineers since 1973 (48 years)
- ✓ Plaquemines Parish Government since 1973 (48 years)
- ✓ City of New Orleans since 1974 (47 years)
- ✓ U.S. Navy, Southern Division since 1975 (46 years)
- ✓ Sewerage & Water Board of New Orleans since 1979 (42 years)
- ✓ Tangipahoa Parish since 2006 (15 years)

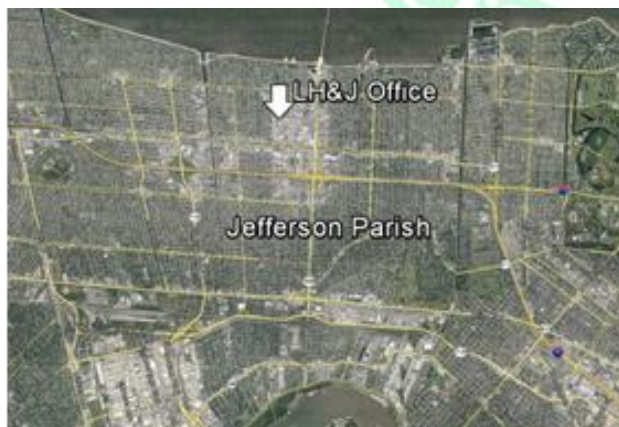
TEC Professional Services Questionnaire

Below is a sampling of awards and commendations our projects have received:

- The New Orleans District of the Corps of Engineers gave Linfield, Hunter & Junius, Inc. a rating of **“Excellent”** for the \$38 million Hollygrove Area Drainage Improvements project (see attached rating).
- The Vicksburg District of the Corps of Engineers recently formally rated the firm’s performance as **“Highly Recommended”**.
- A City of New Orleans department director recently told us (and others) that **Linfield, Hunter & Junius, Inc. should be used as the example for other consulting engineering firms to emulate.**
- The Board of Commissioners of the Port of New Orleans recently commended the firm’s **“outstanding professional services”** in an emergency situation, which allowed the board “to receive bids and award a construction contract in record time” (see attached letters of recommendation).
- The Corps of Engineers issued a **Certificate of Appreciation to the firm for Outstanding Service** in providing engineering support in Southeast Louisiana subsequent to Hurricane Katrina (see attached letter and Certificate of Appreciation).
- The firm received a **National Honor Award** from the American Council of Engineering Companies for design of the 17th St. Canal Interim Closure Structure in 2009.
- The firm received an **Award of Excellence** for the Harvey Floodwall Project in 2009.
- The **New Orleans Business Round Table commended the firm** for the Reconstruction of Tidewater Road in 2009;
- **ACI awarded an Engineering Excellence Award** to the firm for design of the Metairie Road Bridge Project in 2000.

B.5 Location of Principal Office Where Work Will Be Performed

Linfield, Hunter & Junius, Inc. is located in Jefferson Parish at **3608 18th Street, Metairie, LA 70002**. We are centrally located in the parish, and all work will be performed from this office.



B.6 Status of Current Litigation with Jefferson Parish

Linfield, Hunter & Junius, Inc. has no previous or on-going litigation with Jefferson Parish.

TEC Professional Services Questionnaire

B.7 Prior Successful Completion of Projects of the Type and Nature Engineering Services, as defined, for Which Firm Has Provided Verifiable References

Linfield, Hunter & Junius, Inc. has a staff of engineers with significant experience providing the professional services required for this project. **Examination of the Resumes in Item K and the Project Descriptions in Item L demonstrates the extensive experience of our staff** in providing the services required for this project. Our team has a proven track record of completed major projects from feasibility studies following through to completed construction, and has recently completed a number of successful major sewer projects which are similar to the scope of work of your current project and in the same geographical area.

LH&J professionals are licensed to practice civil engineering, environmental engineering, structural engineering, surveying, and architecture, and are nationally certified. As design professionals, the LH&J staff members are active in professional organizations and take advantage of continuing education opportunities. Company design professionals attend seminars on the latest in civil, environmental, structural, and architectural design, traffic and surveying, code issues and applications, regulatory matters, materials, Total Quality Management (TQM), project management, and business management.

The management staff of Linfield, Hunter & Junius, Inc. have been recognized by their peers for their professionalism, expertise, and leadership. The staff members are actively involved in professional associations, and often have served as President, Vice President or Committee Chairmen for these associations.

Closing Statement

We are extremely interested in this solicitation.

Linfield, Hunter & Junius, Inc. has extensive experience in the design of sewerage improvement projects in Jefferson Parish and throughout the New Orleans Metropolitan Area.

Linfield, Hunter & Junius, Inc. has the capacity to easily absorb this project assignment.

Please give us your serious consideration.

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

Signature: _____

Printed Name: **Nathan J. Junius, P.E., P.L.S.**

Title: **Vice President**

Date: **May 24, 2021**

PERFORMANCE EVALUATION (ARCHITECT-ENGINEER)

A-E CONTRACTOR I.D. NUMBER
(For ACASS use only) 101230
1. A-E CONTRACT NUMBER
DACW29-97-C-0048
2. CONSTRUCTION CONTRACT NUMBER

IMPORTANT: Be sure to complete Performance section on reverse. If additional space is necessary for any item, use Remarks section on reverse.

3. TYPE OF EVALUATION			4. PROJECT NUMBER	5. DELIVERY ORDER NUMBER(S) (If applicable)
3a. PHASE OF COMPLETION <input checked="" type="checkbox"/> INTERIM (84 %) <input type="checkbox"/> FINAL	3b. COMPLETION (Check one) <input checked="" type="checkbox"/> DESIGN <input type="checkbox"/> ENGINEERING SERVICES <input type="checkbox"/> CONSTRUCTION	3c. CHECK IF APPLICABLE <input type="checkbox"/> TERMINAL (Explain in REMARKS on reverse)		
6. NAME AND ADDRESS OF A-E CONTRACTOR Linfield, Hunter & Junius, Inc. 3500 N. Causeway Blvd., Suite 200 Metairie, LA 70002			7a. PROJECT TITLE AND LOCATION Southeast Louisiana Project New Orleans, LA	
7b. DESCRIPTION OF PROJECT IF NOT EXPLAINED BY TITLE Hollygrove Area Drainage Project				

8. NAME, ADDRESS AND PHONE NUMBER OF OFFICE RESPONSIBLE FOR:	
8a. SELECTION OF A-E CONTRACTOR Engineering Division New Orleans District New Orleans, LA (504) 862-2623	8b. NEGOTIATION/AWARD OF A-E CONTRACT Elois Evans CEMVN-CT-T
8c. ADMINISTRATION OF A-E CONTRACT Gary L. Hawkins CEMVN-ED-SR	8d. ADMINISTRATION OF CONSTRUCTION CONTRACT

9. A-E CONTRACT DATA (Items 9d thru 9g are not applicable during construction unless there are modifications to the A-E contract) -- "See Instructions"			
9a. TYPE OF WORK PERFORMED BY A-E (DESIGN, STUDY, ETC.) Design		9b. TYPE OF A-E CONTRACT <input checked="" type="checkbox"/> FIRM FIXED-PRICE <input type="checkbox"/> INDEFINITE DELIVERY/INDEFINITE QUANTITY <input type="checkbox"/> COST-REIMBURSEMENT <input type="checkbox"/> OTHER (Specify)	
9c. PROJECT COMPLEXITY C DIFFICULT <input checked="" type="checkbox"/> ROUTINE	9d. PROFESSIONAL SERVICES CONTRACT INITIAL A-E FEE \$2,000,000.00	9e. A-E CONTRACT MODIFICATIONS NO. 8 AMOUNT \$518,350.00	
		TOTAL A-E FEE \$2,518,350.00	
9f. A-E CONTRACT AWARD DATE 6 May 97	9i. NEGOTIATED A-E CONTRACT COMPLETION DATE (OR NUMBER OF DAYS) (including extensions) 19 Feb 02	9g. ACTUAL A-E CONTRACT COMPLETION DATE (OR NUMBER OF DAYS) 19 Feb 02	
9h1. DELIVERY ORDER AWARD DATE	9h1. COMPLETION DATE	9h2. NUMBER OF DAYS	9g1. COMPLETION DATE
			9g2. NUMBER OF DAYS

10. CONSTRUCTION CONTRACT DATA (Not applicable if completion of design or engineering services not involving construction)			
10a. CONSTRUCTION COSTS \$	10a(1). AUTHORIZED CONSTRUCTION COST \$	10a(2). A-E ESTIMATE FOR BID ITEMS AWARDED \$	10a(3). AWARD AMOUNT \$
10b. DATA AT TIME OF CONSTRUCTION COMPLETION (Completion date)		NUMBER	
10b(1). CONSTRUCTION MODIFICATIONS		\$	
10b(2). CONSTRUCTION MODIFICATIONS ARISING FROM DESIGN DEFICIENCIES		\$	
11. A-E LIABILITY <input checked="" type="checkbox"/> NONE <input type="checkbox"/> UNDETERMINED <input type="checkbox"/> PENDING \$ <input type="checkbox"/> SETTLEMENT \$			
12. OVERALL RATING <input checked="" type="checkbox"/> EXCELLENT <input type="checkbox"/> ABOVE AVERAGE <input type="checkbox"/> AVERAGE <input type="checkbox"/> BELOW AVERAGE <input type="checkbox"/> POOR		13. RECOMMENDED FOR FUTURE CONTRACTS? <input checked="" type="checkbox"/> YES <input type="checkbox"/> CONDITIONALLY <input type="checkbox"/> NO (Explain no or conditional in REMARKS on reverse)	
14a. NAME, TITLE AND OFFICE OF RATING OFFICIAL GARY L. HAWKINS Contracting Officer's Representative (504) 862-2077		15a. NAME, TITLE AND OFFICE OF REVIEWING OFFICIAL GERARD S. SATTERLEE, JR. Chief, Engineering Division (504) 862-2240	
14b. SIGNATURE Gary L. Hawkins	14c. DATE 11/12/99	15b. SIGNATURE Gerard S. Satterlee	15c. DATE (Original Report date) 11/12/99
AGENCY USE (Distribution, etc.)			

FOR OFFICIAL USE ONLY

6.

QUALITY OF A-E SERVICES BY DISCIPLINE

(Completion mandatory for both DESIGN and CONSTRUCTION phases evaluations and Engineering Services Evaluations)

6a. DISCIPLINES (if applicable)	DESIGN/SERVICES			CONSTRUCTION			16b. DISCIPLINE, NAME AND ADDRESS OF KEY CONSULTANT(S) (if applicable)
	OUT- STANDING	SATIS- FACTORY	UNSATIS- FACTORY	OUT- STANDING	SATIS- FACTORY	UNSATIS- FACTORY	
ARCHITECTURAL	X						
STRUCTURAL	X						
CIVIL	X						
MECHANICAL	X						
ELECTRICAL	X						
FIRE PROTECTION	N/A						
SURVEY AND MAPPING	X						
COST ESTIMATING		X					
VALUE ENGINEERING		X					
ENVIRONMENTAL ENGINEERING	N/A						
GEOTECHNICAL ENGINEERING	X						
MASTER PLANNING	N/A						
HYDROLOGY	N/A						
CHEMICAL ENGINEERING	N/A						
GEOLOGY	N/A						

17. DESIGN PHASE OR ENGINEERING SERVICES:
 (Quality of A-E Services Evaluation)

ATTRIBUTES	N/A	OUT- STANDING	SATIS- FACTORY	UNSATIS- FACTORY
THOROUGHNESS OF SITE INVESTIGATION		X		
QUALITY CONTROL PROCEDURES AND EXECUTION		X		
PLANS/SPECS ACCURATE AND COORDINATED		X		
PLANS CLEAR AND DETAILED SUFFICIENTLY		X		
MANAGEMENT AND ADHERENCE TO SCHEDULES		X		
MEETING COST LIMITATIONS		X		
SUITABILITY OF DESIGN OR STUDY RESULTS		X		
SOLUTION ENVIRONMENTALLY SUITABLE		X		
COOPERATIVENESS AND RESPONSIVENESS		X		
QUALITY OF BRIEFING AND PRESENTATIONS		X		

18. HOW MANY 100% FINAL RESUBMITTALS WERE REQUIRED BECAUSE OF POOR A-E PERFORMANCE? _____

19. CONSTRUCTION PHASE:
 (Quality of A-E Services Evaluation)

ATTRIBUTES	N/A	OUT- STANDING	SATIS- FACTORY	UNSATIS- FACTORY
PLANS CLEAR AND DETAILED SUFFICIENTLY				
DRAWINGS REFLECT TRUE CONDITIONS				
PLANS/SPECS ACCURATE AND COORDINATED				
DESIGN CONSTRUCTIBILITY				
COOPERATIVENESS AND RESPONSIVENESS				
TIMELINESS AND QUALITY OF PROCESSING SUBMITTALS				
PRODUCT AND EQUIPMENT SELECTIONS READILY AVAILABLE				
TIMELINESS OF ANSWERS TO DESIGN QUESTIONS				
FIELD CONSULTATION AND INVESTIGATIONS				
QUALITY OF CONSTRUCTION SUPPORT SERVICES				

20. REMARKS (Attach additional Sheet(s) or Documentation if necessary)

Concerning Value Engineering, the AE has not provided cost saving recommendations relative to design or construction costs that would justify an outstanding rating. Concerning Cost Estimating, the AE's cost estimates are conservative in some areas and as a result do not warrant an outstanding rating.



August 13, 2007

Mr. Ralph Junius
Linfield, Hunter & Junius, Inc.
3608 18th Street, Suite 200
Metairie, Louisiana 70002

Dear Mr. Junius:

This is to express to you and your staff that it has been a pleasure to work with Mr. Tom Knight and Mr. Mark Annino on recent projects at the Port of New Orleans. Whether it has been a complicated repair of a wind or fire damage, or preliminary engineering for a potential major project, your senior engineers have provided outstanding service to us.

Both of these engineers not only excel in their civil engineering expertise and technical knowledge, but exhibit an aptitude for truly listening to the client and providing what is needed, the way it is needed, and when it is needed. Their responses are prompt and their deliverables are accurate, useful, and exceed our expectations.

I'm sure there are others in your firm that support the work assignments of Mark and Tom, so please share accolades and thanks to them, as well. It is truly refreshing to work with the LHJ team. Port staff has the utmost confidence in the engineering assignments performed and the quality of the work provided.

Thanks for finding time to accommodate us when we have an urgent task, as we are sure that your staff is already quite busy. Keep up the good work. We truly enjoy our working relationship with LHJ.

Sincerely,

Deborah D. Keller, P.E.
Director, Port Development Division

DDK:jeg

cc: Mr. Mark Annino
Mr. Tom Knight
O:\WPENG\Letter to LHJ.wpd



February 8, 1999

Linfield, Hunter and Junius, Inc.
3500 North Causeway Boulevard, Suite 200
Metairie, Louisiana 70002
Attention: Mr. Ralph Junius

**RE: PROFESSIONAL SERVICES PROVIDED
AT NASHVILLE AVENUE TERMINAL**

Dear Mr. Junius:

I wanted to commend you and your staff of engineers for the outstanding professional services provided to the Port of New Orleans in the aftermath of a major vessel allision at our Nashville Avenue Terminal.

Your team responded to our request for services immediately and was instrumental in assessing the extent of the damages. Plans and specification were prepared expeditiously so that we could receive bids and award a construction contract in record time.

Throughout construction your staff was available for consultation with the Board's engineering team and the contractor. Submittals were thoroughly yet quickly reviewed by your engineers.

The Nashville Avenue Terminal is one of our busiest facilities and contains the only Port of New Orleans wharves on the Mississippi with multipurpose gantry cranes. It was crucial to our customers to restore the facility as quickly as possible. Nearly \$200,000 of reconstruction was necessary.

It was a pleasure to work with Linfield, Hunter and Junius, Inc. under these most difficult circumstances and we could not have restored the wharf so quickly without your firm's assistance.

Sincerely,

Deborah D. Keller
Senior Manager, Operations

DDK/mal

BOARD OF COMMISSIONERS OF THE PORT OF NEW ORLEANS



REPLY TO
ATTENTION OF:

DEPARTMENT OF THE ARMY
NEW ORLEANS DISTRICT, CORPS OF ENGINEERS
P.O. BOX 80267
NEW ORLEANS, LOUISIANA 70180-0267

October 15, 2008

Engineering Division
Civil Branch

ACEC
American Council of Engineering Companies
Attn: Daisy Nappier
1015 15th Street, N.W.
8th Floor
Washington, D.C. 20005-2605

Re: 2009 Engineering Excellence Awards
17th Street Canal Interim Closure Structure

Dear Ms. Nappier:

After Hurricane Katrina, the U.S. Army Corps of Engineers was faced with the unprecedented challenge of quickly restoring hurricane protection in a region devastated by a storm of historic proportions. We called upon Linfield, Hunter & Junius, Inc. (LH&J) to assist in our hurricane recovery efforts.

Starting immediately after Hurricane Katrina struck, LH&J provided designs for repair of 17th Street Canal breaches. Over the coming months, they designed the gate structure and the first phase of pumps. Working closely with our Task Force Guardian LH&J provided construction drawings for the gate structure within just a few months of Katrina. LH&J continued to work with us diligently through completion of the project in 2007.

The 17th Street Canal Interim Closure Structure solved an important engineering challenge faced by our organization. The project was completed on a very aggressive schedule in a challenging environment exceeding what we expected. The U.S. Army Corps of Engineers awarded LH&J a Certificate of Appreciation for Support of Task Force Guardian in recognition of the outstanding contribution they provided in support of our efforts in rebuilding the Hurricane Protection System in Southeast Louisiana.

Yours very truly,

A handwritten signature in black ink, reading "Walter O. Baums, Jr.", is positioned above the typed name.

Walter O. Baums, Jr., P.E.
Chief, Engineering Division
U.S. Army Corps of Engineers
New Orleans District
7400 Leake Avenue
New Orleans, LA 70118



USACE - New Orleans District

Certificate of Appreciation

is presented to

Linfield Hunter & Junius, Inc.

For exceptional achievement in support of the Mississippi Valley Division's New Orleans District and the execution of the Hurricane and Storm Damage Risk Reduction System (HSDRRS) mission. The Linfield Hunter & Junius, Inc. contractors' professionalism, competence, and initiative were instrumental to the successful execution in surveying of multiple sites critical to the completion of both design and the construction of the HSDRRS project.

Linfield Hunter & Junius' outstanding achievement is in keeping with the finest traditions of public service and reflects great credit upon the Linfield Hunter & Junius, Inc. team, the U.S. Army Corps of Engineers, and the United States Army.

06 February 2012



**US Army Corps
of Engineers**®
New Orleans District

Edward R. Fleming
Colonel, US Army
Commander, New Orleans District
US Army Corps of Engineers



CERTIFICATE OF APPRECIATION

FOR

SUPPORT OF TASK FORCE GUARDIAN

AWARDED TO

Linfield Hunter & Junius, Inc.

in recognition of the outstanding contributions your company provided in support of Task Force Guardian and the U.S. Army Corps of Engineers in the rebuilding of the Hurricane Protection System of southeast Louisiana. The efforts of your company were integral to meeting the Corps' goal of restoring protection by the June 1 start of hurricane season. The willingness of your employees to work long hours under difficult conditions is a tribute to the professionalism of your company and demonstrates your commitment to rebuilding southeast Louisiana.

Walter O. Baumy, Jr.

WALTER O. BAUMY, JR.
DEPUTY PROGRAM MANAGER
TASK FORCE GUARDIAN



US Army Corps
of Engineers®
New Orleans District

Lewis F. Setliff III

LEWIS F. SETLIFF III
COLONEL, U.S. ARMY
COMMANDER, TASK FORCE GUARDIAN

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name: Public Address:
Linfield, Hunter & Junius, Inc. 3608 18th Street, Suite 200
Metairie, LA 70002

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
EF.0000510	ACTIVE	05/23/1979	03/31/2023	Mr. Nathan John Junius # PE.0031843 - Active

The Louisiana Professional Engineering and Land Surveying Board has the following information on file:

Name: Public Address:
Linfield, Hunter & Junius, Inc. 3608 18th Street, Suite 200
Metairie, LA 70002

License/Certificate Information w/ Supervision

License	Status	First Issuance Date	Expiration Date	Supervisor(s)
VF.0000532	ACTIVE	06/15/2004	09/30/2022	Mr. Nathan John Junius # PLS.0004958 - Active

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9643 Brookline Avenue | Suite 121 | Baton Rouge, LA 70809-1433
225-925-6291 | Fax 225-925-6292

Attachment C

Gulf South Engineering & Testing, Inc. TEC Form

TEC Professional Services Questionnaire

A. Project Name and Advertisement Resolution Number:

Professional Engineering Services related to the Design of the
Rehabilitation of the Transcontinental & Belle Lift Station (E8-1)
 SOQ 21-008 | Resolution No. 137449

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



Gulf South Engineering and Testing, Inc.
 15 Veterans Memorial Boulevard
 Kenner LA 70062

C. Name, title, & 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:

Chad M. Poché, P.E., Principal/Vice President
 504-305-4401 • cpoche@gulfsoutheng.com
 Registered Professional Civil Engineer, Louisiana No. 27667 (1998)

D. Name, title, & 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.

Chad M. Poché, P.E., Principal/Vice President
 504-305-4401 • cpoche@gulfsoutheng.com
 Registered Professional Civil Engineer, Louisiana No. 27667 (1998)

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

5	Administrative	-	Estimators	-	Specification Writers
-	Architects (Licensed)	-	Geologists	-	Structural Engineers
-	Chemical Engineers	2	Geotechnical Engineers	1	Graduate Engineers
-	Civil Engineers	-	Interior Designers	-	Project Managers
9	Construction Inspectors	-	Landscape Architects	-	Clerical (<i>see Administrative</i>)
-	Ecologists	-	Land Surveyor (<i>*see PLS</i>)	-	Grant/Funding Specialist
-	Electrical Engineers	-	Mechanical Engineers	-	Sanitary Engineers
-	Engineer Intern	-	Environmental Engineers	1	Construction Managers
1	Professional Land Surveyors			1	Laboratory Managers

*employees also include one Construction Engineer, two Construction Materials Testing (CMT) Supervisors, two Senior Engineering Technicians, one Laboratory Technician, one Soil Boring Driller, and one Soil Boring Driller Apprentice

28* TOTAL

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

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

TEC Professional Services Questionnaire

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

1. N/A

2.

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

YES _____ NO _____

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

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

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

28 (all personnel will be available to the project; individuals to be assigned)

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., résumé) that demonstrates the employment history 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:

Chad M. Poché, P.E.
Vice-President

Project Assignment:

Engineering Manager; Geotechnical Engineer

Name of Firm with which associated:



ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants

Years experience with this Firm:

10 years with this firm (2011); 28 years total (1993)

Education: Degree(s)/Year/Specialization:

M.S., 1998, Civil Engineering, University of New Orleans
B.S., 1993, Civil Engineering, Louisiana State University

Active registration: Year first registered/discipline:

1998, Civil Engineer, Louisiana No. 27667
2002, Civil Engineer, Mississippi No. 15405
Water Well Contractor, LA No. 0840 (exp 06/30/2020)

Other experience and qualifications relevant to the proposed Project:

Mr. Poché is the Vice President, co-founder, and partner in Gulf South. He has been a consulting geotechnical engineer for nearly 30 years in South Louisiana, working on traditional and unique geotechnical engineering projects (shallow and deep foundation design, slope stability, pavement design, etc.). Mr. Poché has also provided construction oversight for virtually every type of earthwork related project. He has been the geotechnical engineer of record for thousands of projects throughout his career.

Mr. Poché's experience includes the development of appropriate scopes of work and proposals for a broad range of projects; planning and coordinating analyses; preparing technical reports; foundation and geotechnical engineering design; construction recommendations; Miss. River facility permitting; managing personnel and office operations, and; serving as an Expert Witness. Mr. Poché has logged soil borings; overseen the installation of ground water monitoring wells, piezometers, and inclinometers; overseen and evaluated pile load tests; overseen, performed, and evaluated dynamic pile testing (PDA and PIT); performed CMT field testing and inspection; and performed laboratory testing.

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

Chad M. Poché, P.E. (continued)

Improvements to Sewer Lift Station M-11-3 (13th & Farrington) and Force Main, Marrero, Jefferson Parish, LA. Gulf South provided the materials testing and inspection during construction. Gulf South's scope of services included vibration monitoring, bedding and backfill testing, compaction/density tests, and concrete testing and inspection. (\$15,000 (fee); 2019)

Lift Station F-8-3 Replacement, Metairie, Jefferson Parish, LA. Geotechnical engineering services for the construction of a new lift station to replace the existing Jefferson Parish lift station (LS F-8-3) station off West Esplanade Avenue (between Houma Blvd. and Hudson St.) in Metairie, LA. Gulf South's scope includes drilling a single undisturbed soil boring to a depth of 100 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$8,500 (fee); 2020)

Lift Station F-13-6 Replacement, Marrero, Jefferson Parish, LA. Geotechnical investigation for construction of a new lift station replacing an existing one off Ehret Road and Broas Street in Marrero, LA. Scope includes drilling a single 80 ft. undisturbed soil boring, lab testing, and engineering analyses including below grade foundation recommendations, allowable pile load capacities, estimates of settlement, bedding and backfill recommendations, and general construction procedures and recommendations. (\$7,900 (fee); 2019)


New Lift Station (Elmwood Park Blvd. & Citrus Blvd.), Metairie, Jefferson Parish, LA. Geotechnical investigation for construction of a new sewer lift station near the intersection of Elmwood Park Boulevard and Citrus Boulevard in Metairie, LA. Gulf South's scope includes drilling a single undisturbed soil boring (depth of 80 ft), lab testing, and engineering analyses including net allowable soil bearing values (as appropriate), below grade foundation recommendations, allowable pile load capacities (timber), estimates of settlement, rigid and/or flexible pavement design recommendations, and general construction procedures and recommendations. (\$7,500 (fee); 2018)

New Sewer Lift Station (Toulouse Avenue & Smith Drive), Metairie, Jefferson Parish, LA. Geotechnical investigation for a new sewer lift station (8 ft. dia. & 20 ft. bgs) at intersection of Toulouse Ave. and Smith Dr. in Metairie, LA. Gulf South's scope includes drilling one undisturbed soil boring to a depth of 80 feet, lab testing, and engineering analyses including net allowable soil bearing values, bedding and backfill recommendations, allowable pile load capacities, estimate of settlement, rigid and/or flexible pavement design recommendations, and general construction procedures and recommendations. (\$7,500 (fee); 2018)

New Sewer Lift Station (Butler Drive & Grambling Street), Waggaman, Jefferson Parish, LA. Geotechnical investigation for a new sewer lift station (8 ft. diameter and 12 ft. bgs) at intersection of Butler Dr. and Grambling St. in Waggaman, LA. Gulf South's scope includes drilling one undisturbed soil boring to a depth of 60 feet, lab testing, and engineering analyses including net allowable soil bearing values, bedding and backfill recommendations, allowable pile load capacities, estimate of settlement, and general construction procedures and recommendations. (\$7,500 (fee); 2018)

New Sewer Lift Station (Melrose Lane & Walker Road), River Ridge, Jefferson Parish, LA. Geotechnical investigation for the construction of a new lift station near Melrose Lane and Walter Road in River Ridge, LA. Gulf South's scope includes drilling one undisturbed soil boring to a depth of 80 feet, lab testing, and engineering analyses including net allowable soil bearing values, below ground foundation recommendations, allowable pile load capacities, estimates of settlement, and general construction procedures and recommendations. (\$7,500 (fee); 2018)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:
Name & Title:
Blake E. Vutera, P.E. Engineering Manager
Project Assignment:
Engineering Manager/Geotechnical Engineer
Name of Firm with which associated:
<div style="display: flex; align-items: center;">  <div> ENGINEERING AND TESTING, INC. <small>Geotechnical & Materials Consultants</small> </div> </div>
Years experience with this Firm:
9 years with this firm (2012); 15 years total (2006)
Education: Degree(s)/Year/Specialization:
M.S., 2018, Civil Engineering, University of New Orleans Certification - Coastal Engineering, 2018, University of New Orleans B.S., 2008, Civil Engineering, Louisiana State University
Active registration: Year first registered/discipline:
2013, Civil Engineer, Louisiana, No. 38607 2018, Professional Engineer, Texas No. 129410
Other experience and qualifications relevant to the proposed Project:
<p>Mr. Vutera serves as Gulf South's Engineering Manager and is based in Gulf South's Kenner, LA office. His experience with the firm includes daily work on geotechnical engineering projects as well as managing all geotechnical investigations and providing assistance with laboratory testing and construction materials testing and inspection. Engineering analyses that Mr. Vutera routinely performs include: shallow and deep foundations, slope stability analyses, settlement estimates, and pavement design. He is responsible for engineering design, report preparation, proposal preparation, personnel management, project management, and client interaction.</p> <p>Mr. Vutera's field work consists of borehole logging; installation of ground water monitoring wells, piezometers, and inclinometers; overseen and evaluated pile load tests; overseen, performed, and evaluated dynamic pile testing (PDA and PIT); pavement coring; nuclear field density tests; and hand augers. Mr. Vutera has been the geotechnical engineer of record for hundreds of projects throughout his career.</p> <p>New Lift Station (Elmwood Park Blvd. & Citrus Blvd.), Metairie, Jefferson Parish, LA. Geotechnical investigation for construction of a new sewer lift station near the intersection of Elmwood Park Boulevard and Citrus Boulevard in Metairie, LA. Gulf South's scope includes drilling a single undisturbed soil boring (depth of 80 ft), lab testing, and engineering analyses including net allowable soil bearing values (as</p>

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

Blake E. Vutera, P.E. (continued)

appropriate), below grade foundation recommendations, allowable pile load capacities (timber), estimates of settlement, rigid and/or flexible pavement design recommendations, and general construction procedures and recommendations. (\$7,500 (fee); 2018)

Lift Station F-13-6 Replacement, Marrero, Jefferson Parish, LA. Geotechnical investigation for construction of a new lift station replacing an existing one off Ehret Road and Broas Street in Marrero, LA. Scope includes drilling a single 80 ft. undisturbed soil boring, lab testing, and engineering analyses including below grade foundation recommendations, allowable pile load capacities, estimates of settlement, bedding and backfill recommendations, and general construction procedures and recommendations. (\$7,900 (fee); 2019)

New Sewer Lift Station (Butler Drive & Grambling Street), Waggaman, Jefferson Parish, LA. Geotechnical investigation for a new sewer lift station (8 ft. diameter and 12 ft. bgs) at intersection of Butler Dr. and Grambling St. in Waggaman, LA. Gulf South's scope includes drilling one undisturbed soil boring to a depth of 60 feet, lab testing, and engineering analyses including net allowable soil bearing values, bedding and backfill recommendations, allowable pile load capacities, estimate of settlement, and general construction procedures and recommendations. (\$7,500 (fee); 2018)

New Sewer Lift Station (Toulouse Avenue & Smith Drive), Metairie, Jefferson Parish, LA. Geotechnical investigation for a new sewer lift station (8 ft. dia. & 20 ft. bgs) at intersection of Toulouse Ave. and Smith Dr. in Metairie, LA. Gulf South's scope includes drilling one undisturbed soil boring to a depth of 80 feet, lab testing, and engineering analyses including net allowable soil bearing values, bedding and backfill recommendations, allowable pile load capacities, estimate of settlement, rigid and/or flexible pavement design recommendations, and general construction procedures and recommendations. (\$7,500 (fee); 2018)

Lift Station F-8-3 Replacement, Metairie, Jefferson Parish, LA. Geotechnical engineering services for the construction of a new lift station to replace the existing Jefferson Parish lift station (LS F-8-3) station off West Esplanade Avenue (between Houma Boulevard and Hudson Street) in Metairie, LA. Gulf South's scope includes drilling a single undisturbed soil boring to a depth of 100 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$8,500 (fee); 2020)

New Sewer Lift Station (Melrose Lane & Walker Road), River Ridge, Jefferson Parish, LA. Geotechnical investigation for the construction of a new lift station near Melrose Lane and Walter Road in River Ridge, LA. Gulf South's scope includes drilling one undisturbed soil boring to a depth of 80 feet, lab testing, and engineering analyses including net allowable soil bearing values, below ground foundation recommendations, allowable pile load capacities, estimates of settlement, and general construction procedures and recommendations. (\$7,500 (fee); 2018)

Lift Station – Ginette Street at Bellemeade Boulevard, Gretna, Jefferson Parish, LA. Geotechnical investigation for construction of a lift station near Ginette Street at Bellemeade Boulevard in Gretna, LA. Gulf South's scope includes drilling one soil boring to a depth of 60 feet, laboratory testing, soil boring logging, and engineering consultation. Gulf South was contracted by Jefferson Parish to provide geotechnical engineering expertise to help settle disputes between the contractor and the design engineer. (\$5,000 (fee); 2016)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Joseph H. "Trey" Binder, III
Laboratory Manager

Project Assignment:

Laboratory Manager; Laboratory Technician

Name of Firm with which associated:



ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants

Years experience with this Firm:

10 years with this firm (2011); 15 years total (2006)

Education: Degree(s)/Year/Specialization:

A.D., 2011, General Studies, Nunez Community College

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Mr. Binder has direct experience with field and laboratory testing services; his field work includes soil inspection and testing consisting of nuclear density testing and soil boring logging, vibration monitoring, pile inspection, concrete testing and inspection, asphalt testing and inspection, and pavement coring. In the laboratory, Mr. Binder has performed soil laboratory testing consisting of unconfined compression strength tests, triaxial strength tests, Atterberg limits, organic content tests, moisture and density tests, Proctor compaction tests, sieve analyses, and sample extrusion.

- HAZMAT Awareness
- HAZMAT Operations Training
- ACI Aggregate Base Testing Technician

Lift Station F-8-3 Replacement, Metairie, Jefferson Parish, LA. Geotechnical engineering services for the construction of a new lift station to replace the existing Jefferson Parish lift station (LS F-8-3) station off West Esplanade Avenue (between Houma Boulevard and Hudson Street) in Metairie, LA. Gulf South's scope includes drilling a single undisturbed soil boring to a depth of 100 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$8,500 (fee); 2020)

Improvements to Sewer Lift Station M-11-3 (13th & Farrington) and Force Main, Marrero, Jefferson Parish, LA. Gulf South provided the materials testing and inspection during construction. Gulf South's scope of services included vibration monitoring, bedding and backfill testing, compaction/density tests, and concrete testing and inspection. (\$15,000 (fee); 2019)

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

Joseph H. Binder, III (continued)

New Sewer Lift Station, Mississippi Ave. and Fulton St., Metairie, Jefferson Parish, LA. Geotechnical investigation for a new sewer lift station at the intersection of Mississippi Ave. and Fulton St. in Metairie. Gulf South's scope includes drilling a single soil boring to a depth of 50 feet, lab testing, and geotechnical engineering analysis including allowable soil bearing values, allowable pile load capacities, estimate of settlement, and bedding/backfill recommendations. (\$5,000 (fee); 2015)

New Pump/Lift Station, Airline Park Boulevard at West Metairie Avenue, Jefferson Parish, LA. Geotechnical investigation for a new pump/lift station for Jefferson Parish near the intersection of Airline Park Blvd. and W. Metairie Avenue. Scope consisted of performing one soil boring to 50 feet, lab testing, and geotechnical engineering analyses consisting of allowable soil bearing values, bedding and backfill recommendations, estimates of settlement, and general construction recommendations. (\$5,000 (fee); 2013)

Lift Station, Bayou Segnette State Park, Westwego, Jefferson Parish, LA. Geotechnical investigation for construction of a new sewer lift station consisting of a valve pit and wet well (approx. 7 and 15 feet below the ground surface, respectively) at Bayou Segnette State Park. Scope includes drilling a single soil boring to a depth of 50 feet, lab testing, and geotechnical engineering analysis, including net allowable soil bearing values, bedding and backfill recommendations (as appropriate), allowable pile load capacities, estimates of settlement, and general construction procedures & recommendations. (\$3,500 (fee); 2016)

Lift Station Replacement – Mississippi Avenue at 21st Street, Metairie, Jefferson Parish, LA. Geotechnical investigation for a new lift station off Mississippi Ave. at 21st St. in Metairie, LA. Gulf South's scope includes drilling a single soil boring to a depth of 60 feet, lab testing, and geotechnical engineering analyses including allowable soil bearing values, allowable pile load capacities, estimates of settlement, bedding and backfill recommendations, and general construction recommendations. (\$7,500 (fee); 2016)

Lift Station – Ginette Street at Bellemeade Boulevard, Gretna, Jefferson Parish, LA. Geotechnical investigation for construction of a lift station near Ginette Street at Bellemeade Boulevard in Gretna, LA. Gulf South's scope includes drilling one soil boring to a depth of 60 feet, laboratory testing, soil boring logging, and engineering consultation. Gulf South was contracted by Jefferson Parish to provide geotechnical engineering expertise to help settle disputes between the contractor and the design engineer. (\$5,000 (fee); 2016)

Lift Station Replacement (N. Pierce Avenue & Versailles Street), Metairie, Jefferson Parish, LA. Geotechnical investigation for a new lift station replacement in Metairie, LA. Gulf South's scope includes drilling a single soil boring to a depth of 50 feet, lab testing, and engineering analysis, including below-grade foundations, deep foundations, estimates of settlement, bedding & backfill recommendations, and general construction procedures and recommendations. (\$4,500 (fee); 2016)

New Sewer Lift Station (Butler Drive & Grambling Street), Waggaman, Jefferson Parish, LA. Geotechnical investigation for a new sewer lift station (8 ft. diameter and 12 ft. bgs) at intersection of Butler Dr. and Grambling St. in Waggaman, LA. Gulf South's scope includes drilling one undisturbed soil boring to a depth of 60 feet, lab testing, and engineering analyses including net allowable soil bearing values, bedding and backfill recommendations, allowable pile load capacities, estimate of settlement, and general construction procedures and recommendations. (\$7,500 (fee); 2018)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Sara E. Lockwood, E.I.
Graduate Geotechnical Engineer

Project Assignment:

Graduate Geotechnical Engineer/Engineering Intern

Name of Firm with which associated:



ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants

Years experience with this Firm:

2 years with this firm (2019); 4 years total (2017)

Education: Degree(s)/Year/Specialization:

B.S., 2019, Civil Engineering, University of New Orleans
B.S., 2016, Physics, Loyola University

Active registration: Year first registered/discipline:

2020, Engineering Intern, Louisiana, No. EI.0034718

Other experience and qualifications relevant to the proposed Project:

Ms. Lockwood is serving as a Graduate Engineer, providing such duties as project management, geotechnical engineering analyses, and field & laboratory testing & inspection. Her coursework included such disciplines as foundation engineering, soil mechanics, geotechnical engineering, structural concrete & structural steel design, and sustainability principals. She worked as an intern during her college career for a local consulting group, assisting on a variety of environmental studies for infrastructure projects, and preparing regulatory permit applications, as well as preparation of various components of Louisiana DEQ and NEPA documents.

- Society of Women Engineers
- American Society of Civil Engineers

Lift Station F-8-3 Replacement, Metairie, Jefferson Parish, LA. Geotechnical engineering services for the construction of a new lift station to replace the existing Jefferson Parish lift station (LS F-8-3) station off West Esplanade Avenue (between Houma Boulevard and Hudson Street) in Metairie, LA. Gulf South's scope includes drilling a single undisturbed soil boring to a depth of 100 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations. (\$8,500 (fee); 2020)

Lake Cataouatche Pump Station, Avondale, Jefferson Parish, LA. Geotechnical engineering services for the construction of a replacement Lake Cataouatche drainage pump station in Avondale, LA. Gulf South's scope includes drilling a single undisturbed soil boring (depth of 100 ft bgs), laboratory testing, engineering analyses and general construction procedures and recommendations. (\$12,500 (fee); 2019)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:

Name & Title:

Ross L. White

Soil Boring Driller/Supervisor

Project Assignment:

Soil Boring Driller/Supervisor

Name of Firm with which associated:



ENGINEERING AND TESTING, INC.
Geotechnical & Materials Consultants

Years experience with this Firm:

3 years with this firm (2018); 12 years total (2009)

Education: Degree(s)/Year/Specialization:

High School Diploma

Active registration: Year first registered/discipline:

N/A

Other experience and qualifications relevant to the proposed Project:

Mr. White is a soil boring driller with over a decade of experience as a soil boring driller and driller's helper, and has operated truck, track, and ATV mounted drilling rigs. In addition, he has performed soil borings over water on a barge and using barge drilling equipment. Mr. White is very familiar with the soils of Louisiana and Southeast Texas.

- *ISTC basic, Entergy PowerSafe*
- *CDL A Class Driver's License (exp 11/2024)*

New Sewer Lift Station (Toulouse Avenue & Smith Drive), Metairie, Jefferson Parish, LA. Geotechnical investigation for a new sewer lift station (8 ft. diameter and 20 ft. bgs) at intersection of Toulouse Ave. and Smith Dr. in Metairie, LA. Gulf South's scope includes drilling one undisturbed soil boring to a depth of 80 feet, lab testing, and engineering analyses including net allowable soil bearing values, bedding and backfill recommendations, allowable pile load capacities, estimate of settlement, rigid and/or flexible pavement design recommendations, and general construction procedures and recommendations. (\$7,500 (fee); 2018)

New Sewer Lift Station (Butler Drive & Grambling Street), Waggaman, Jefferson Parish, LA. Geotechnical investigation for a new sewer lift station (8 ft. diameter and 12 ft. bgs) at intersection of Butler Dr. and Grambling St. in Waggaman, LA. Gulf South's scope includes drilling one undisturbed soil boring to a depth of 60 feet, lab testing, and engineering analyses including net allowable soil bearing values, bedding and backfill recommendations, allowable pile load capacities, estimate of settlement, and general construction procedures and recommendations. (\$7,500 (fee); 2018)

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

Ross L. White (continued)

New Sewer Lift Station (Melrose Lane & Walker Road), River Ridge, Jefferson Parish, LA. Geotechnical investigation for the construction of a new lift station near Melrose Lane and Walter Road in River Ridge, LA. Gulf South's scope includes drilling one undisturbed soil boring to a depth of 80 feet, lab testing, and engineering analyses including net allowable soil bearing values, below ground foundation recommendations, allowable pile load capacities, estimates of settlement, and general construction procedures and recommendations. (\$7,500 (fee); 2018)

New Lift Station (Elmwood Park Blvd. & Citrus Blvd.), Metairie, Jefferson Parish, LA. Geotechnical investigation for construction of a new sewer lift station near the intersection of Elmwood Park Boulevard and Citrus Boulevard in Metairie, LA. Gulf South's scope includes drilling a single undisturbed soil boring (depth of 80 ft), lab testing, and engineering analyses including net allowable soil bearing values (as appropriate), below grade foundation recommendations, allowable pile load capacities (timber), estimates of settlement, rigid and/or flexible pavement design recommendations, and general construction procedures and recommendations. (\$7,500 (fee); 2018)


Lift Station F-13-6 Replacement, Marrero, Jefferson Parish, LA. Geotechnical investigation for construction of a new lift station replacing an existing one off Ehret Road and Broas Street in Marrero, LA. Gulf South's scope includes drilling a single 80 ft. undisturbed soil boring, lab testing, and engineering analyses including below grade foundation recommendations, allowable pile load capacities, estimates of settlement, bedding and backfill recommendations, and general construction procedures and recommendations. (\$7,900 (fee); 2019)

New Lift Stations – Stennis Space Center, Hancock County, MS. Geotechnical investigation for new lift stations with wet wells inside the John C. Stennis Space Center in Hancock County, MS. Gulf South's scope includes drilling multiple undisturbed soil borings (two at 40 ft., two at 35 ft., four at 25 ft., and two at 20 ft.), lab testing, and engineering analyses including allowable soil bearing values, estimates of settlement, bedding and backfill recommendations, below grade foundation recommendations, and general construction procedures & recommendations. (\$19,000 (fee); 2018)

Lake Cataouatche Pump Station, Avondale, Jefferson Parish, LA. Geotechnical engineering services for the construction of a replacement Lake Cataouatche drainage pump station in Avondale, LA. Gulf South's scope includes drilling a single undisturbed soil boring (depth of 100 ft bgs), laboratory testing, engineering analyses and general construction procedures and recommendations. (\$12,500 (fee); 2019)

Proposed Steel Sheetpile Bulkhead – Crest Pump Station, North Lafourche Conservation Levee & Drainage District, Bayou Folse, Lafourche Parish, LA. Geotechnical investigation for construction of a new bulkhead near the Crest Pump Station along Bayou Folse in Lafourche Parish, LA. Gulf South's scope includes drilling a single undisturbed soil boring (depth of 80 ft.), lab testing, and engineering analyses including bulkhead design parameters, tie back wall design parameters, and general construction procedures and recommendations. (\$5,500 (fee); 2019)

TEC Professional Services Questionnaire

KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:	
Name & Title:	
<p>Christopher Boutwell Construction Materials Testing (CMT) Supervisor</p>	
Project Assignment:	
Construction Materials Testing (CMT) Supervisor	
Name of Firm with which associated:	
<div style="display: flex; align-items: center;">  <div> <p>ENGINEERING AND TESTING, INC. Geotechnical & Materials Consultants</p> </div> </div>	
Years experience with this Firm:	
9 years with this firm (2012); 12 years total (2009)	
Education: Degree(s)/Year/Specialization:	
<i>High School Diploma</i>	
Active registration: Year first registered/discipline:	
N/A	
Other experience and qualifications relevant to the proposed Project:	
<div style="display: flex;"> <div style="flex: 1;"> <p>Mr. Boutwell serves as a CMT Supervisor in Gulf South's Kenner, LA office. As a CMT Supervisor, Mr. Boutwell is responsible for scheduling technicians, technical training, resolving technical and personnel issues, equipment maintenance, preparing proposals, reviewing reports, and client interaction. Mr. Boutwell's construction monitoring experience includes nuclear density testing, concrete testing and inspection, asphalt inspection, earthwork testing and inspection, driven pile inspection, vibration monitoring, augercast pile inspection, and drilled shaft inspection. Mr. Boutwell is proficient in the following laboratory tests: soil and concrete compressive strength, moisture content, grain size sieve, organic content, Proctor compaction, lime/soil and soil/cement % determinations, density tests, and Atterberg limits.</p> <p>Mr. Boutwell has logged soil borings, performed pile load tests, floor flatness testing, anchor bolt pull out tests, obtained and secured samples from soil borings and borrow pits, and completed hand augers. Mr. Boutwell routinely operates Gulf South's pavement coring machines.</p> <p>Patriot Street Lift Station, Metairie, Jefferson Parish, LA. Project consisted of the construction of a new sewer lift station for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Our scope of services included performing pile plant inspection, pile monitoring during installation, vibration monitoring, concrete testing and inspection, earthwork testing and inspection including soil sampling and field density tests, and steel inspection. (\$30,000 (fee); 2016)</p> </div> <div style="flex: 0.5; border: 1px solid black; padding: 5px; margin-left: 10px;"> <ul style="list-style-type: none"> ACI Concrete Field Testing – Grade I APNGA Nuclear Moisture/Density Gauge Training OSHA Safety Training – 8 hr. </div> </div>	

TEC Professional Services Questionnaire

Other experience and qualifications relevant to the proposed Project:

Christopher Boutwell (continued)

Lift Station Replacement – Mississippi Avenue at 21st Street, Metairie, Jefferson Parish, LA. Geotechnical investigation for a new lift station off Mississippi Ave. at 21st St. in Metairie, LA. Gulf South's scope includes drilling a single soil boring to a depth of 60 feet, lab testing, and geotechnical engineering analyses including allowable soil bearing values, allowable pile load capacities, estimates of settlement, bedding and backfill recommendations, and general construction recommendations. (\$7,500 (fee); 2016)

Relocation of Lift Station L-12-3, Marrero, Jefferson Parish, LA. Construction inspection and materials testing for new lift station and sewer pipe installed at Patriot Ave. and Avenue G in Marrero, LA. Services consist of in-place fill density testing and vibration monitoring. (\$15,000 (fee); 2012)

Kawanee at Olympic Lift Station, Metairie, Jefferson Parish, LA. Project consisted of the construction of a new sewer lift station and below grade piping for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Our scope of services included performing vibration monitoring, concrete testing and inspection, earthwork testing and inspection including soil sampling and field density tests, and steel inspection. (\$10,000 (fee); 2016)

New Sewer Force Main Installation (Midway & Wildwood to Lift Station E3-1), Jefferson Parish, LA. Project consisted of the construction of several thousand linear feet of sewer force main for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Our scope of services included vibration monitoring, concrete testing and inspection, earthwork testing and inspection including soil sampling and field density tests, and steel inspection. (\$10,000 (fee); 2016)

Improvements to Sewer Lift Station M-11-3 (13th & Farrington) and Force Main, Marrero, Jefferson Parish, LA. Gulf South provided the materials testing and inspection during construction. Gulf South's scope of services included vibration monitoring, bedding and backfill testing, compaction/density tests, and concrete testing and inspection. (\$15,000 (fee); ongoing)

Firehouse Road Sewer Force Main Replacement, Kenner, Jefferson Parish, LA. Gulf South performed field and laboratory testing during construction for a new sewer force main for Jefferson Parish in Kenner, LA. Gulf South's scope of work included field density tests, earthwork inspection, and concrete testing and inspection. (\$10,000 (fee); 2019)

Chateau Transfer Station Force Main - Phase I (Duncan Canal to Chateau Transfer Station), City of Kenner, LA. Geotechnical investigation for a new sewer force main. Gulf South performed geotechnical investigation for the 3 phase project. Scope of work included drilling 6 soil borings to a depth of 50 feet, laboratory testing, and geotechnical engineering services consisting of providing allowable pile load capacities and subsoil profiles for directional drilling purposes. (\$14,900 (fee); 2014)

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>Lift Station F-8-3 Replacement, Metairie, Jefferson Parish, Louisiana</p> <p>Richard C. Lambert Consultants, LLC 900 West Causeway Approach Mandeville LA 70471</p> <p>Franz J. Zemmer, 985-727-4449 fzemmer@rclconsultants.com</p>	<p>Geotechnical engineering services for the construction of a new lift station to replace the existing Jefferson Parish lift station (LS F-8-3) station off West Esplanade Avenue (between Houma Boulevard and Hudson Street) in Metairie, LA. Gulf South's scope includes drilling a single undisturbed soil boring to a depth of 100 feet below the ground surface, laboratory testing, engineering analyses and general construction procedures and recommendations.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2020 03 (MAR)	N/A	\$8,500 (fee)

PROJECT NO. 2

Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
<p>Improvements to Sewer Lift Station M-11-3 (13th & Farrington) and Force Main, Marrero, Jefferson Parish, Louisiana</p> <p>Shread-Kuyrkendall & Associates, Inc. 104 Campus Drive East, Suite 102 Destrehan LA 70047</p> <p>Steve P. Breeding, P.E., 985-764-4060 sbreeding@skaengr.com</p>	<p>Gulf South provided the materials testing and inspection during construction. Gulf South's scope of services included vibration monitoring, bedding and backfill testing, compaction/density tests, and concrete testing and inspection.</p>	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2019 11 (NOV)	N/A	\$15,000 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 3		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
Lift Station F-13-6 Replacement, Marrero, Jefferson Parish, Louisiana H. Davis Cole & Associates, LLC 1340 Poydras St Ste 1850 New Orleans LA 70112-5278 David M. Martin, P.E., 504-836-2020 dmartin@hdaviscole.com	Geotechnical investigation for construction of a new lift station replacing an existing one off Ehret Road and Broas Street in Marrero, LA. Gulf South's scope includes drilling a single 80 ft. undisturbed soil boring, lab testing, and engineering analyses including below grade foundation recommendations, allowable pile load capacities, estimates of settlement, bedding and backfill recommendations, and general construction procedures and recommendations.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2019 02 (FEB)	N/A	\$7,900 (fee)

PROJECT NO. 4		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
New Lift Station (Elmwood Park Blvd. & Citrus Blvd.), Metairie, Jefferson Parish, Louisiana Pivotal Engineering, LLC 1515 Poydras Street Suite 1875 New Orleans LA 70112 Yoseph Shifare, E.I., 504-799-3653 yshifare@pivotaleng.com	Geotechnical investigation for construction of a new sewer lift station near the intersection of Elmwood Park Boulevard and Citrus Boulevard in Metairie, LA. Gulf South's scope includes drilling a single undisturbed soil boring (depth of 80 ft), lab testing, and engineering analyses including net allowable soil bearing values (as appropriate), below grade foundation recommendations, allowable pile load capacities (timber), estimates of settlement, rigid and/or flexible pavement design recommendations, and general construction procedures and recommendations.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018 09 (SEP)	N/A	\$7,500 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 5		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
New Sewer Lift Station (Butler Drive & Grambling Street), Waggaman, Jefferson Parish, Louisiana Professional Engineering & Environmental Consultants (PEEC), Inc. 1065 Muller Parkway Suite B Westwego LA 70094 Jeff Meyers, 504-347-1900 jeff@peecinc.com	Geotechnical investigation for a new sewer lift station (8 ft. diameter and 12 ft. bgs) at intersection of Butler Dr. and Grambling St. in Waggaman, LA. Gulf South's scope includes drilling one undisturbed soil boring to a depth of 60 feet, lab testing, and engineering analyses including net allowable soil bearing values, bedding and backfill recommendations, allowable pile load capacities, estimate of settlement, and general construction procedures and recommendations.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018 07 (JUL)	N/A	\$7,500 (fee)

PROJECT NO. 6		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
New Lift Station (Toulouse Avenue & Smith Drive), Metairie, Jefferson Parish, Louisiana Pivotal Engineering, LLC 1515 Poydras Street Suite 1875 New Orleans LA 70112 Yoseph Shifare, E.I., 504-799-3653 yshifare@pivotaleng.com	Geotechnical investigation for a new sewer lift station (8 ft. diameter and 20 ft. bgs) at intersection of Toulouse Ave. and Smith Dr. in Metairie, LA. Gulf South's scope includes drilling one undisturbed soil boring to a depth of 80 feet, lab testing, and engineering analyses including net allowable soil bearing values, bedding and backfill recommendations, allowable pile load capacities, estimate of settlement, rigid and/or flexible pavement design recommendations, and general construction procedures and recommendations.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018	N/A	\$7,500 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 7		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
New Sewer Lift Station (Melrose Lane & Walker Road), River Ridge, Jefferson Parish, Louisiana Bryant Hammett & Associates, LLC 1201 S. Pupera Avenue Unit 301 Gonzales LA 70737 Bruce K. Dyson, P.E., PLS, 225-450-1721 bdyson@bha-engineers.com	Geotechnical investigation for the construction of a new lift station near Melrose Lane and Walter Road in River Ridge, LA. Gulf South's scope includes drilling one undisturbed soil boring to a depth of 80 feet, lab testing, and engineering analyses including net allowable soil bearing values, below ground foundation recommendations, allowable pile load capacities, estimates of settlement, and general construction procedures and recommendations.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2018	N/A	\$7,500 (fee)

PROJECT NO. 8		
Project Name, Location, and Owner's Contact Information:	Nature of Firm's Responsibility:	
Patriot Street Lift Station, Metairie, Jefferson Parish, Louisiana Evans-Graves Engineers 1 Galleria Blvd Ste 1520 Metairie LA 70001 Stephen Lundgren, 504-836-8190 slundgren@evans-graves.com	Project consisted of the construction of a new sewer lift station for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Scope of services included performing pile plant inspection, pile monitoring during installation, vibration monitoring, concrete testing and inspection, earthwork testing and inspection including soil sampling and field density tests, and steel inspection.	
Completion Date (Actual or estimated):	Estimated Cost:	
	Entire Project:	Work for which Firm was Responsible:
2016	N/A	\$30,000 (fee)

TEC Professional Services Questionnaire

PROJECT NO. 9		
Project Name, Location, and Owner's Contact Information: Kawanee at Olympic Lift Station, Metairie, Jefferson Parish, Louisiana Arcadis U.S. Inc. 3850 N. Causeway Blvd Ste 990 Metairie LA 70002 Joseph Sensebe, P.E., 504-648-3601 joseph.sensebe@arcadis-us.com	Nature of Firm's Responsibility: Project consisted of the construction of a new sewer lift station and below grade piping for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Our scope of services included performing vibration monitoring, concrete testing and inspection, earthwork testing and inspection including soil sampling and field density tests, and steel inspection.	
Completion Date (Actual or estimated): <div style="text-align: center;">2016</div>	Estimated Cost:	
	Entire Project: <div style="text-align: center;">N/A</div>	Work for which Firm was Responsible: <div style="text-align: center;">\$10,000 (fee)</div>

PROJECT NO. 10		
Project Name, Location, and Owner's Contact Information: New Sewer Force Main Installation (Midway & Wildwood to Lift Station E3-1), Jefferson Parish, Louisiana Shread-Kuyrkendall & Associates, Inc. 104 Campus Dr East Ste 102 Destrehan LA 70047 Steven P. Breeding, P.E., 985-764-4060 sbreeding@skaengr.com	Nature of Firm's Responsibility: Project consisted of the construction of several thousand linear feet of sewer force main for the Jefferson Parish Department of Public Works. Gulf South provided materials testing and inspection during construction (CMT). Our scope of services included vibration monitoring, concrete testing and inspection, earthwork testing and inspection including soil sampling and field density tests, and steel inspection.	
Completion Date (Actual or estimated): <div style="text-align: center;">2016</div>	Estimated Cost:	
	Entire Project: <div style="text-align: center;">N/A</div>	Work for which Firm was Responsible: <div style="text-align: center;">\$10,000 (fee)</div>

TEC Professional Services Questionnaire

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

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

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



INTRODUCTION

Gulf South Engineering and Testing, Inc. (Gulf South) is a geotechnical engineering and construction materials testing and inspection company which began operations in 2011. Since that time, we have grown to two offices and over two dozen employees. Gulf South provides a broad range of geotechnical related services, completing more than 100 geotechnical engineering projects and 300 construction materials testing and inspection projects each year. These projects typically include soil borings (shallow and deep borings), laboratory testing (AASHTO, ASTM methods, etc.), soil classification (USCS), geotechnical engineering, and construction material testing and field inspection.

Gulf South is a woman-owned, Hudson Initiative-certified small business in Louisiana. Our Kenner laboratory is AASHTO and CCRL certified and USACE validated.

TEC Professional Services Questionnaire

N. continued.

Geotechnical Engineering Services

Gulf South's ownership and senior management have decades of combined experience in the profession and have completed thousands of projects. One of Gulf South's Principals, Chad M. Poché, P.E., is a founder of the company and Professional Engineer registered in Civil Engineering in Louisiana and Mississippi with specific training and experience in geotechnical engineering. He has more than 25 years of experience in planning, administering, and conducting geotechnical investigations.

The firm has specific engineering experience and training in Geotechnical Engineering, Foundation Design, and Geology & Geohydrology; our staff has extensive experience in all aspects of soil mechanics and geotechnical engineering with specific knowledge in the following areas:

- *Shallow and deep foundations (piles, shafts, augercast, screw/anchor piles)*
- *Deep excavations, cofferdams, retaining walls*
- *Levees and soft ground construction*
- *Slope stability & seepage*
- *Settlement analyses*
- *Shoreline protection*
- *Scour analyses*
- *LRFD Design*
- *Mechanically Stabilized Earth (MSE) Walls*
- *Earthwork*
- *Development of load test programs*
- *Geotechnical instrumentation and construction monitoring*
- *Canals and pump station foundations*
- *Pipe bedding and backfill*
- *Roadways and bridges*
- *Pavements*

Field Investigation Services

Gulf South owns truck mounted (ARDCO C-1000) and track mounted (ARDCO SD 350) drilling rigs with associated and appurtenant support equipment (water trucks and buggy). Our equipment and crews are capable of drilling soil borings to depths of up to 300 feet and installing monitor wells, piezometers, and inclinometers. We can also perform CPT soundings, geoprobe borings, and field testing at any site. Our staff has extensive experience in planning, oversight, and direction of field investigations.

Laboratory Testing Services

Gulf South's laboratory is equipped to serve the specific needs of our clients and managed by trained and experienced personnel. All testing is performed in accordance with ASTM, AASHTO, and/or other approved procedures. Gulf South routinely performs soil and concrete strength testing (unconfined and triaxial), soil classification tests (Atterberg limits, moisture content, density, particle size), soil and aggregate sieves, organic content, pH, soil resistivity, and moisture/density relationships (Proctor tests). Gulf South's laboratories are managed by full time, experienced, managers and staff.

Gulf South's Kenner laboratory is AASHTO and CCRL certified and USACE validated.

Construction Materials Testing & Inspection

Gulf South provides a full range of construction materials testing and inspection services for structures, earthwork, foundations, pipelines, and pavements. The range of services provided by the Gulf South team includes:

TEC Professional Services Questionnaire

N. continued.

- *Fill and base compaction and density testing*
- *Vibration monitoring*
- *Pre- and post-construction inspection*
- *Concrete testing and inspection*
- *Soil testing (field and laboratory)*
- *Asphalt testing*
- *Pile (driven & augercast) and shaft installation monitoring*
- *Load tests*
- *Earthwork/proof roll inspection*
- *Welding inspection*
- *Steel inspection*
- *Noise monitoring*

We have provided construction testing and oversight for projects as small as fill for a house pad to as **large as the \$1.2 billion Louis Armstrong New Orleans International Airport New Terminal** project.

PROFESSIONAL TRAINING & EXPERIENCE

The Principals and key employees of Gulf South have many years of applicable experience in working for and with Government Agencies and private industry. Founding principal and Vice President of Gulf South, Chad M. Poché, P.E., has been a practicing registered geotechnical engineer in South Louisiana for since 1998. He has specialized training and experience in geotechnical engineering throughout Louisiana.

Gulf South's Engineering Manager, Blake E. Vutera, P.E., has over 14 years experience in geotechnical investigations and has provided engineering analysis, laboratory testing, construction materials testing and inspection. He has been the geotechnical engineer of record for hundreds of projects throughout his career

As evidenced in the provided projects and personnel résumés, key personnel past experience includes the completion of thousands of projects in the region throughout their careers for a broad range of clients, including both the government and private sectors. We are able to submit data in formats acceptable and customized to our clients' needs.

Further, Gulf South continues to expand its staff and mentor the next generation of geotechnical engineers and professionals. One of our newest employees, Sara E. Lockwood, is a recent UNO Civil Engineering graduate who is working with our seasoned professionals in the challenging field of geotechnical engineering in the State of Louisiana. She has already gained extensive experience working on projects since joining the firm in 2019 and will continue to expand her knowledge and skill set working with our firm.

SIZE OF FIRM & CAPACITY FOR TIMELY COMPLETION

At 28 employees, Gulf South has the appropriate number of employees and personnel for this project. We will complete our scope of services on time and within budget. Further said, Gulf South is able to readily meet the time and budget constraints for projects assigned to this contract. Our current work load is such that we can expeditiously complete projects for this contract.

PAST PERFORMANCE ON JEFFERSON PARISH PROJECTS

Gulf South has worked both directly and indirectly for various **Jefferson Parish Departments** (Public Works, Engineering Department, Drainage Department, Jefferson Parish School Board, etc.) throughout our history. This would include, **but not be limited to**, the following:

TEC Professional Services Questionnaire

N. continued.

- Lift Station F-8-3 Replacement, Metairie, Jefferson Parish, LA
- Improvements to Sewer Lift Station M-11-3 & Force Main, Marrero, Jefferson Parish, LA
- New Lift Station (Elmwood Park Blvd. & Citrus Blvd.), Metairie, Jefferson Parish, LA
- New Sewer Force Main Installation (Midway & Wildwood to Lift Station E3-1), Jefferson Parish, LA
- St. Peter's Ditch - Phase IV (Pump Station at Clearview), Metairie, Jefferson Parish, LA
- New Sewer Lift Station (Butler Drive & Grambling Street), Waggaman, Jefferson Parish, LA
- New Sewer Lift Station (Melrose Lane & Walker Road), River Ridge, Jefferson Parish, LA
- New Sewer Lift Station (Mississippi Ave. and Fulton St.), Metairie, Jefferson Parish, LA
- Lift Station Replacement - N. Pierce Avenue & Versailles Street, Metairie, Jefferson Parish, LA
- Lift Station Replacement - Mississippi Avenue at 21st Street, Metairie, Jefferson Parish, LA
- Kawanee at Olympic Lift Station, Metairie, Jefferson Parish, LA
- Marrero WWTP New Administration Building and Safe Room, Marrero, Jefferson Parish, LA
- David Drive Drainage Improvements (West Esplanade Avenue to Bruin Drive), Jefferson Parish, LA
- Waggaman Subsurface Drainage Improvements, Waggaman, Jefferson Parish, LA
- Clearview Parkway Drainage Project, Metairie, Jefferson Parish, LA
- Trudeau Drive at Canal No. 5 Drainage Improvements, Metairie, Jefferson Parish, LA
- Taft Park Drainage Improvements, Jefferson Parish, LA
- Drainage Improvements, Citrus Road & Greg Court, Metairie, Jefferson Parish, LA
- Westwego Pump Station #1, Jefferson Parish, LA
- Citrus Road and Greg Court Subsurface Drainage Improvements, Jefferson Parish, LA
- Westgate Drainage Improvements, Metairie, Jefferson Parish, LA
- Trudeau Drive Drainage Improvements at West Metairie Canal, Metairie, Jefferson Parish, LA
- Bike Path Soil Borings, Jefferson Highway to Northline Street, Jefferson Parish, LA
- Green Acres Road - New Street Lighting, Metairie, Jefferson Parish, LA
- Drainage Infrastructure Improvements, South Avondale Subdivision, Avondale, Jefferson Parish, LA
- Parish Line Drainage Pump Station Improvements - Phase I, City of Kenner, Jefferson Parish, LA
- St. Peter's Ditch (4700 W. Metairie Ave.), Metairie, Jefferson Parish, LA
- Canal Bank Stabilization, Wayne Avenue at West Bank Expressway, Jefferson Parish, LA
- Engineering Analysis Review (EAR) - Lafitte Tidal Protection Project (Phase I), Lafitte, Jefferson Parish, LA
- Marsh Island Restoration Project, Lafreniere Park, Metairie, Jefferson Parish, LA
- West Esplanade Avenue Restoration (Tartan Drive to Haring Road), Metairie, Jefferson Parish, LA
- Earhart Expressway (Clearview Parkway to Central Avenue) Lighting Improvements, Jefferson Parish, LA
- Submerged Roads Program - Multiple Phases, Metairie, Jefferson Parish, LA
- Public Works West Bank Central Warehouse, Bridge City, Jefferson Parish, LA
- Jefferson Parish Fire Department – Garage (River Road), Bridge City, Jefferson Parish, LA
- Jefferson Parish Dept. of Public Works West Bank Central Warehouse, Bridge City, Jefferson Parish, LA
- New Charter School, Behrman Highway, Terrytown, Jefferson Parish, LA
- Jefferson Parish Library Renovations (2350 Metairie Road), Metairie, Jefferson Parish, LA
- Clancy-Maggiore Elementary School – New Art and Band Wing, Kenner, Jefferson Parish, LA
- Johnny Bright Playground Gymnasium HVAC Installation, Metairie, Jefferson Parish, LA
- Kennedy Heights Playground Gymnasium HVAC Renovation, Avondale, Jefferson Parish, LA

Beyond the projects included within this form, additional project information (including listings, background, & client contacts) are available upon request. We have also completed similar services for Public and Private concerns throughout the region.

LOCATION OF THE PRINCIPAL OFFICE

Gulf South is located in Jefferson Parish at 15 Veterans Memorial Boulevard in Kenner, Louisiana.

TEC Professional Services Questionnaire

N. continued.

LITIGATION

As noted in *Item M*, Gulf South has not been involved in litigation with Jefferson Parish, nor with any of the firm's clients.

REFERENCES

The Principals and key employees of Gulf South have many years of applicable experience in working for and with Government Agencies and private industry. We are proud that a majority of its work is from repeat clients –we complete our projects on-time and within budget. Gulf South invites you to contact any of our clients for a candid discussion of our service and professionalism, and offer these direct references:

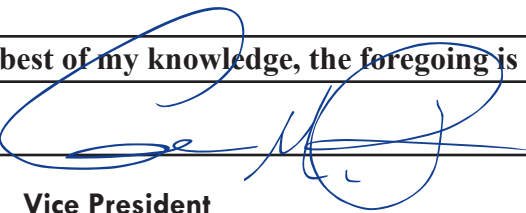
- **Mark R. Drewes, P.E.**, Director, Jefferson Parish Public Works Department (504-736-6783 | JPPW@jeffparish.net)
- **Neil Schneider, CCM, P.E.**, Director, Capital Projects, Jefferson Parish Public Works Department (504-736-6783 | JPPW@jeffparish.net)
- **Tom Schreiner**, Deputy CAO, Public Works & Capital Projects, City of Kenner (504-468-7515 | tschreiner@kenner.la.us)
- **Angela DeSoto, P.E.**, Director of Engineering, Jefferson Parish (504-736-6511 | ADeSoto@jeffparish.net)
- **Sid Trouard, P.E.**, Program Manager, Sewerage Capital Improvement Program, Jefferson Parish (504-736-6386 | STrouard@jeffparish.net)
- **Tacie Rabalais, P.E.**, Parish Engineer, Ascension Parish Government Engineering Department (225-621-5700 | trabalais@apgov.us)
- **Joey Tureau**, Infrastructure Division Director, Ascension Parish (225-450-1013 | jtureau@apgov.us)

INSURANCE

Gulf South is fully insured to provide the services we offer; additional information is available upon request.

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

Signature:



Print Name:

Chad M. Poché, P.E.

Title:

Vice President

Date:

May 10, 2021