



# Pivotal Engineering, LLC



## Statement of Qualifications For Architectural & Engineering Services On An As-Needed Basis for Architectural Type Projects.

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**pivotal**  
engineering  
A Full Service MEP, Civil and Environmental Firm

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# STATEMENT OF QUALIFICATIONS

## Section 1: Introduction

The **Pivotal Engineering, LLC** - here in after called the design “Team” brings an unparalleled depth of capabilities on Architectural, Civil, Geotechnical, Mechanical, Electrical, Structural, Environmental Engineering, Construction Management, Construction Inspection, and Topographic Survey experience. Our Team’s capabilities will provide the Jefferson Parish with the most effective and efficient approach for providing Professional Architectural & Engineering Services On An As-Needed Basis for Architectural Type Projects Throughout The Parish.

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. 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.

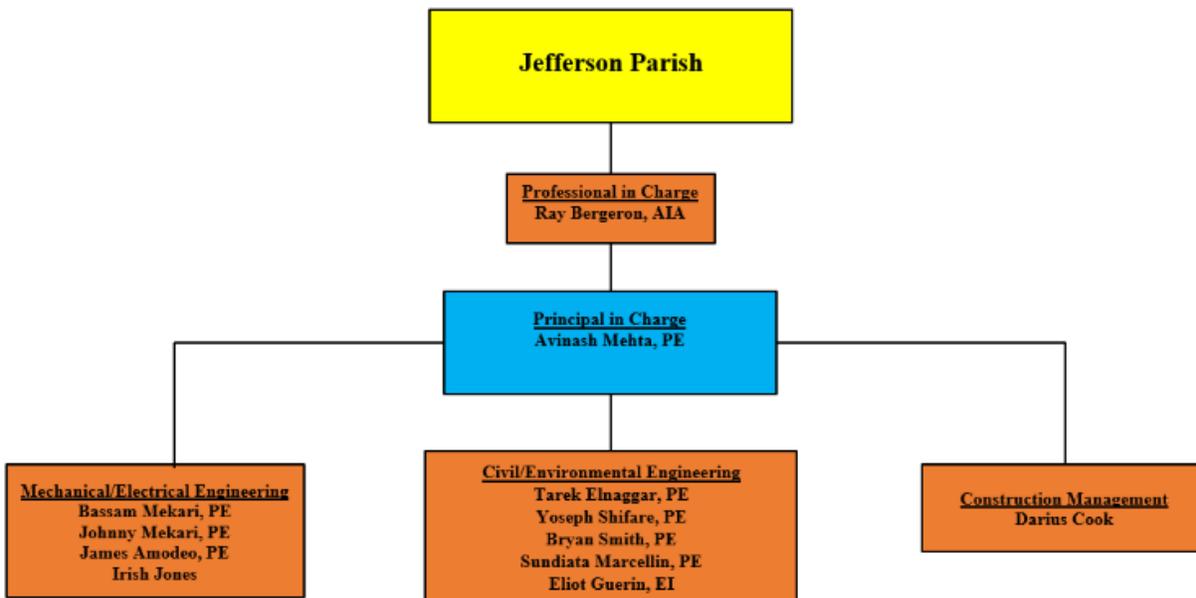
Our management team is comprised of experienced managers and task leaders with proven leadership,

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, 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:

- 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

## Section 2: Organization Chart



## **Section 3: Specialized Experience**

### **3.1 Pivotal Engineering, LLC**

#### **3.2 Company 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, environmental engineering, construction management, construction inspection and program /project management for both public and private entities across the Gulf South Region.

Pivotal Engineering is currently providing these 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 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 local, state, and federal governmental agencies procedures and regulations.

Pivotal has worked with private developers and government agencies to help deal with the challenges of economic revitalization, infill 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 to 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 Engineering is a certified Small Business Enterprise with both the Small Business Administration and the New Orleans Regional Transit Authority and is certified as a Disadvantaged Business Enterprise by the City of

New Orleans. Pivotal Engineering is also certified by the Louisiana Department of Economic Development as a Small Entrepreneurship SE (Hudson Initiative) firm.

### 3.3 Resumes:

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 of dollars.

The Pivotal engineering team is well versed in a variety of software including AutoCAD, CIVIL 3D, HEC RAS, H2O MAP and Arc GIS. We ask that you note the resumes of key staff specialized experience included herein.

#### **Avinash Mehta, PE** **Principal- 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 15 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.

#### **Yoseph Shifare, PE** **Project Manager/Senior 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 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. 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.

#### **Bassam Rossi Mekari, PE** **Principal In Charge/ Sr. 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 25 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.

**Tarek Elnaggar, P.E.  
Senior Civil 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 Environmental Engineer for the company. His experience includes design and construction management for civil and environmental projects, which include 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, permitting, and waste treatment system design.

**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  
ASHRAE, NSPE & ASME

**Experience**

Mr. Amodeo serves as the Senior Mechanical Engineer for Pivotal Engineering. He has over 15 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.

**Sundiata Marcellin, PE  
Civil Project Engineer****Education**

B.S. / 2004 / Civil Engineering

**Professional Associations**

Louisiana / Civil Engineering/ 38589

**Experience**

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. Marcellin is also experienced with FEA Analysis and Structural Analysis, Hazard Mitigation Design & Residential and Commercial Design & Permitting.

**Bryan B. Smith, P.E.**  
**Environmental Project Engineer**

**Education**

BS / Environmental Engineering / 2011  
MS / Civil and Environmental Engineering / 2014

**Professional Associations**

LA PE #43843

**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 Project Engineer**

**Education**

B.S. / 2018 / Civil Engineering

**Professional Associations**

Louisiana /Civil Engineering/ E.I.

**Experience**

Mr. Guerin is a Civil Engineer with 1 year 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. 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.

**Kepal Patel, EI**  
**Electrical Designer**

**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**  
**Senior 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 Manager**

**Education**

University of New Orleans, Civil/Environmental Engineering (BS in progress)

**Certifications**

LDEQ Asbestos Inspector; Asbestos Contractor/Supervisor; LDEQ Lead Inspector

Mr. Cook has 14 years' experience in Project Management of Architectural/Engineering Design and Environmental Inspection and Remediation projects. Mr. Cook's experience includes management of minor residential repair projects to new construction utilizing CDBG and FEMA funding.

### 3.4 Experiences with Similar Projects

Pivotal Engineering team includes senior Electrical, Mechanical, Civil and Environmental engineers and technicians with extensive experience. Additional experience includes asbestos and lead inspections and the development of abatement plans. Pivotal is routinely retained by Fortune 500 companies and government agencies to provide compliance solutions. The following is a brief summary of the team's experience:

#### (1) JP Public Works Warehouse Jefferson Parish, LA

Pivotal Engineering was retained by Jefferson Parish Department of Engineering to provide engineering services for JP 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.

#### (2) 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 problems 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

### **(3) Planters Pump Station, Jefferson Parish, LA**

Pivotal Engineering is retained by Jefferson Parish to provide engineering services, inspection and construction administration of Planters drainage Pump Stations. The scope of engineering services associated with this project includes the removal and replacement of diesel engines, exhaust silencers, process controls and instrumentations, miscellaneous piping and electrical, installation of air cooled heat exchangers, and refurbishment of gear box for drainage pumps of No. 1, 2, 3 and 4.

### **(4) 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.

### **(5) Elmwood & Citrus Lift Station, Jefferson Parish, LA**

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.

### **(6) Joe Brown Memorial Recreational Facility, New Orleans, LA**

Pivotal's main engineering scope consisted of: **1)** Review MEP items in FEMA PWs, **2)** Add items that were missed by FEMA but are storm related, **3)** Provide budgets for PW items and the FEMA missed items, **4)** Meet with FEMA for scope alignment and agree on a strategy for new systems design, **5)** Prepare several mitigation design scenarios in order to meet ABFE or DFIRM elevations, **6)** Evaluate the Dry Proofing and Wet Proofing methodologies and present a design for both scenarios with benefit and cost analysis, **7)** Help client in making final decisions for the best hazard/flood mitigation approach after reviewing the cost and benefit, **8)** Decide if the system can be salvaged or total replacement (in Joe Brown, it was total replacement), **9)** Help client with FEMA negotiations by providing technical justifications for FEMA claims, **10)** Expedite engineering efforts to meet construction deadlines, **11)** Construction Administration.

### **(7) Lincoln Elementary School for the Arts New School Design, Jefferson Parish, LA**

Pivotal Engineering 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

### **(8) R.J. Vial Elementary School Renovations, Paradis, LA**

As the prime consultant and Professional of Record, Pivotal designed the 20,000 sq. ft. classroom renovations to the existing layout. The main scope consisted of adding new fire walls, removing asbestos material, adding new VAV HVAC system, upgrading the electrical network to support the added loads, new lighting and Fire Alarm system.

### **(9) East Bank Treatment Plant Upgrade, Jefferson Parish, LA**

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.

### **(10) 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.

### **(11) 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; develop 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 to add 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 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.

### **(12) 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.

### **(13) Page & Longfellow Lift Station Improvements, Metairie, LA**

Pivotal 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.

### **(14) 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.

### **(15) Design Package #7- Post Katrina Lift/Pumping Stations Overall Upgrades; New Orleans S&WB, New Orleans, LA**

Pivotal was retained by New Orleans Sewerage & Water Board to provide engineering and design services, and upgrades and improvements to 9 lift stations. Pivotal served as the project Sub-Consultant Engineer of record for the upgrades and improvements of a total of 9 lift stations (Castle Manor, Gentilly Oaks, Pump Station #20, Alcee Fortier, City Park, Cerise, Lakeland Terrace, Amid & Oak Island pumping stations). The overall scope consisted of reviewing FEMA PWs, assess all damages in the field due to hurricane Katrina and compare with FEMA's recommended repairs/replacements and make necessary recommendations including additional damages that were not covered by FEMA while providing technical backups and explanations to why such damages were caused by Katrina. Pivotal provided preliminary design reports (one line diagrams) and developed plans and specifications for the equipment that needed to be replaced. The scope specifics consisted of replacing the old gear that was flooded since most of the stations were running on diesel pumps, adding new switch gear (480/277, 400 A), new main feeders, new sub-panels, incorporating new 3 way manual transfer

switch, supplying preliminary design reports to be reviewed by client while proposing new design recommendations, designing new circuits for all Scada panels among other control panels and conducting field visual and physical inspections while recommending what needed to be replaced.

### **(16) Oakland Park WWTP & Purkins Corner WWTP Upgrades; King George County, VA**

Pivotal personnel have been retained by King George County to upgrade Oakland Park wastewater treatment Plant. Scope for these two extended aeration package plants include pilot study to determine operational and design requirements to achieve Chesapeake Bay nutrient limits and removal metals. The pilot study also identified design deficiencies, mechanical and electrical shortfalls that required design improvements. Scope of work for the engineering design included preliminary and final design for the identified improvements and assisting the Authority with DEQ negotiations for consent order. Design of requirement improvements have been completed is the two projects have been bid. Value engineering may be required before the planned improvements can be constructed. Improvements at the two wastewater treatment plants also included, energy efficiency, and flow equalization.

### **(17) State Fair of Virginia Water Supply: Wastewater Pumping Station, Odor Control and 10,600 ft. of Dual (6" and 8" diameter) Force-main Design, State Fair of Virginia**

Pivotal personnel have been retained by The State Fair of Virginia to design and construct a stand-alone wastewater treatment plant with onsite dispersal or discharge to outfall for this project. The State Fair of Virginia event which hosts up to 400,000 people over an 11- day period was projected to generate 2,000,000 gallons of wastewater and a low flow of 300 gallons per day during much of the year when only the staff is at the site. Our personnel performed preliminary engineering including evaluation of available options for handling wastewater generated at the

State Fair grounds. These options included: designing and constructing a stand-alone wastewater treatment plant with onsite dispersal or discharge to outfall; pumping wastewater to Hanover County's Doswell wastewater treatment plant or to the Bear Island Paper effluent treatment plant. The option selected was pumping to the Doswell wastewater treatment plant via a dual force main system with a smaller 6" forcemain being used for the low flow periods and both the 6" and 8" force mains being used during the 11 days State Fair event. Ignatius was the lead design engineer and project manager for the pump station, dual forcemains and odor control. Odor control was provided at both the State of Virginia site and the Doswell WWTP. Our personnel completed the detailed design, obtained design approvals from the State, and were involved in preparing and negotiating delicate agreements for the sale of water and sewers supply services to the State Fair of Virginia by Hanover County via Caroline County.

### **(18) Albert Cammon Middle School New Wing and Locker Room Additions, St. Rose, LA**

The main scope consisted of adding a total of 21,000 sqft to the existing school building. The new additions (2 buildings) consisted of a new locker room for boys and girls with new bathrooms. This locker room connects to the existing gymnasium. The second building consisted of a new classroom wing with 21 classrooms, an art room and a music center. Pivotal engineering was the prime and the professional of record on this job and handled all of the A/E disciplines in house. Some of our responsibilities consisted of meeting with the teachers to finalize the floor plan during the schematic phase and update the construction budget throughout the different phases to stay within client's budget. Since all of the A/E work was performed in our office, there were no conflicts between the disciplines which resulted in eliminating unnecessary change order during the construction phase. Other responsibilities consisted of conducting site construction meetings during the construction administrations, providing

meeting minutes, reviewing and approving pay applications.

Pivotal's scope summary consisted of:  
Architectural, MEP, Civil and Structural designs.

### **(19) 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.

### **(20) NOFD Engine #36, Hurricane Katrina Repairs and Renovations, New Orleans, L**

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.

### **(21) 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.

## **(22) 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).

## **Section 4: 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. Neil Schneider, P.E. Director of Capital Projects, Jefferson Parish Dept. of Capital Projects, (504) 736-6833
- II. Mike Lockwood, P.E. Director of Sewerage, Jefferson Parish Dept. of Sewer, (504) 736-6661
- III. Mitchell Theriot, P.E. Director of Drainage, Jefferson Parish Dept. of Drainage, (504) 736-6751
- IV. Mark Drewes, PE; Director of Public Works; Jefferson Parish, Department of Engineering, (504) 736-6783
- V. Autumn Permenter, PE; Chief Engineer DPW, City of Shreveport; (318) 673-6026
- VI. Myra Alexis-Valentine, Grants Administer, St. John Parish, ( 985) 652-9569
- VII. Jean Todd; US Army Corps of Engineers, (901) 828 – 1503

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

Pivotal Engineering has in depth understanding of local, state, and federal governmental agencies procedures and regulations. Hence, to comply with expected project performance schedule, quality of work, and delivery of the projects on time Pivotal follows the best engineering practices:

### ***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. 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.

### ***Competency, Responsiveness, Cost Control and Work Quality:***

As outlined in this Statement of Qualifications the Team not only presents a 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 and with this have seen 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, 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 on 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 meeting them every time 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 received 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. Management actively promotes quality in our business activities and defines responsibilities for maintaining a quality focus.
- b. Staff members are trained, available, and committed to providing quality services.
- c. Processes and procedures are in place that promotes quality in the delivery of our products and services.
- d. 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.

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

Personnel assigned to this project has extensive design experience with coastal restoration, stormwater management and green infrastructure, as well as a full range of technical and engineering capabilities required to successfully complete any streetscape, water-centric projects as needed by Jefferson Parish.

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.

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

The Team has the required 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 comprised of Companies that have a reputation of project delivery both on time and within budget.

- **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 assembles 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.

- d. 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.

- e. 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.

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

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.

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.

- **Outreach Methods used in the past projects:**

Pivotal Engineering Team has worked closely with Jefferson Parish and other parishes 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.

#### **Section 5: Team's Current Workload**

The Team has the required 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.

## **Appendix A**

### **TEC Professional Services Questionnaire Pivotal Engineering, LLC**

## TEC Professional Services Questionnaire

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

Provide Professional Architectural and Engineering Services On An As-Needed Basis for Architectural Type Projects Located Throughout the Parish

Resolution No. 136764

**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  
 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  
 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>1</u> Clerical
<u>0</u> Ecologists	<u>0</u> Land Surveyor	<u>0</u> Grant/Funding Specialist
<u>2</u> Electrical Engineers	<u>2</u> Mechanical Engineers	<u>0</u> Sanitary Engineers
<u>2</u> Engineer Intern	<u>1</u> Environmental Engineers	
<u>0</u> Professional Land Surveyors		<u>21</u> <b>TOTAL</b>

**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):

**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:**

Ray Bergeron, Chief Architect

**Project Assignment:**

Professional in Charge of Project

**Name of Firm with which associated:**

Pivotal Engineering, LLC

**Years' experience with this Firm:**

7

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

B.S. / 1963 / Architecture

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

Louisiana / Architect / 4280

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

- JP Public Works Warehouse; Jefferson Parish, LA
- Planters Pump Station; Jefferson Parish, LA
- Cleveland & Avron Lift Station Rehabilitation; Jefferson Parish, LA
- Elmwood & Citrus Lift Station Station; Jefferson Parish, LA

Over 40 years of professional experience, working on various projects across the Greater New Orleans and Baton Rouge Area for the state of Louisiana, and the Southeastern United States ranging in costs from \$100,000 to \$25,000,000. During his career, Mr. Bergeron was responsible for the design of numerous office buildings, hotels, restaurants, retail facilities, health and medical facilities, institutional, recreational, and interior designs, as well as single family and multi-family dwellings.

Mr. Bergeron has the ability to create cost efficient design while maximizing the aesthetics. To assure that the many facets of the design process are properly implemented, Mr. Bergeron effectively coordinates with all other disciplines whose input and expertise is critical to the successful completion of the project.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Avinash Mehta, P.E., Principal
<b>Project Assignment:</b>
Principal in Charge - Client Relations
<b>Name of Firm with which associated:</b>
Pivotal Engineering, LLC
<b>Years' experience with this Firm:</b>
8
<b>Education: Degree(s)/Year/Specialization:</b>
M.S. / 2003 / Civil Engineering B.S. / 2000 / Civil Engineering
<b>Active registration: Year first registered/discipline:</b>
2009 / Civil Engineering / 35100
<b>Other experience and qualifications relevant to the proposed Project:</b>
<ul style="list-style-type: none"><li>• Jefferson Parish East Bank WWTP, Harahan, LA</li><li>• Planters Pump Station, Jefferson Parish, LA</li><li>• Elmwood &amp; Cirtus Lift Station, Jefferson Parish, LA</li><li>• Joe Brown Memorial Recreational Facility, New Orleans, LA</li><li>• Lincoln Elementary School for the Arts New School Design, Jefferson Parish, LA</li><li>• R.J. Vial Elementary School Renovations, Jefferson Parish, LA</li></ul> <p>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.</p>



## LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/06/2018, the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Avinash Mehta  
1201 Giuffrias Avenue  
Metairie, LA 70001

	<b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LAPELS)</b>
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com
<b>Mr. Avinash Mehta</b>	
License/Certificate Type - Number	Expiration Date
<b>PE.0035100</b>	<b>03/31/2022</b>
<b>Status: Active</b>	
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>	

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## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Yoseph Shifare, P.E.
<b>Project Assignment:</b>
Project Director
<b>Name of Firm with which associated:</b>
Pivotal Engineering, LLC
<b>Years' experience with this Firm:</b>
8
<b>Education: Degree(s)/Year/Specialization:</b>
B.S. / 2001 / Civil Engineering M.S. / 2014 / Civil Engineering
<b>Active registration: Year first registered/discipline:</b>
2018 / Civil Engineering / PE #42747
<b>Other experience and qualifications relevant to the proposed Project:</b>
<ul style="list-style-type: none"><li>• Jefferson Parish East Bank WWTP; Harahan, LA</li><li>• Ames Montessori School, Jefferson Parish, LA</li><li>• Planters Pump Station, Jefferson Parish, LA</li><li>• Cleveland &amp; Avron Sewer Lift Station Rehabilitation, Jefferson Parish, LA</li><li>• Elmwood &amp; Citrus Lift Station, Jefferson Parish, LA</li><li>• CC-1 Lift Station Upgrade: St Charles Parish DPW; Luling, LA</li><li>• Joe Brown Memorial Recreational Facility, New Orleans, LA</li></ul>
<b>Experience includes:</b>
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.



## LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/06/2018, the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Yoseph Yemane Shifar  
63 Eugenie Court  
New Orleans, LA 70131

	<b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LAPELS)</b>
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com
<b>Mr. Yoseph Yemane Shifare</b>	
License/Certificate Type - Number	Expiration Date
<b>PE.0042747</b>	<b>03/31/2021</b>
<b>Status: Active</b>	
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>	

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## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Tarek Elnaggar, P.E., Principal
<b>Project Assignment:</b>
Civil/Environmental Engineer
<b>Name of Firm with which associated:</b>
Pivotal Engineering, LLC
<b>Years' experience with this Firm:</b>
8
<b>Education: Degree(s)/Year/Specialization:</b>
M.S. / 1988 / Civil-Environmental Engineering B.S. / 1985 / Civil-Environmental Engineering
<b>Active registration: Year first registered/discipline:</b>
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
<b>Other experience and qualifications relevant to the proposed Project:</b>
<ul style="list-style-type: none"><li>• JP Public Works Warehouse; Jefferson Parish, LA</li><li>• Jefferson Parish East Bank WWTP; Harahan, LA</li><li>• Transcontinental-Vineyard Lift Station; Jefferson Parish, LA</li><li>• Cleveland &amp; Avron Sewer Lift Station Rehabilitation; Jefferson Parish, LA</li><li>• Planters Pump Station; Jefferson Parish, LA</li></ul>
<b>Experience includes:</b>
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.



## LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/06/2018, the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Tarek Elnaggar  
192 Forest Oaks Drive  
New Orleans, LA 70131

	<b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LAPELS)</b> 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
	<b>Mr. Tarek Elnaggar</b>	
License/Certificate Type - Number	Expiration Date	
<b>PE.0023832</b>	<b>03/31/2021</b>	
<b>Status: Active</b>		

**Mr. Tarek Elnaggar**

License/Certificate Type - Number      Expiration Date

**PE.0023832**      **03/31/2021**

**Status: Active**

Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).

LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

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## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Bassam Mekari, P.E., Principal
<b>Project Assignment:</b>
Principal In Charge – MEP Project Manager
<b>Name of Firm with which associated:</b>
Pivotal Engineering, LLC
<b>Years' experience with this Firm:</b>
8
<b>Education: Degree(s)/Year/Specialization:</b>
BS /1987 / Electrical Engineering
<b>Active registration: Year first registered/discipline:</b>
2005 / Electrical Engineering
<b>Other experience and qualifications relevant to the proposed Project:</b>
<ul style="list-style-type: none"><li>• Jefferson Parish East Bank WWTP; Harahan, LA</li><li>• Patriot Lift Station Jefferson Parish, LA</li><li>• Transcontinental – Vineland Lift Station ,Jefferson Parish ,LA</li><li>• Cleveland &amp; Avron Sewer Lift Station, Jefferson Parish, LA</li><li>• New Orleans East Bank WWTP, New Orleans, LA</li><li>• Lincoln Elementary School for the Arts, Jefferson Parish, LA</li><li>• Broadmoor Lift Station, Shreveport, LA</li><li>• R.J. Vial Elementary School Renovations, Paradis, LA</li><li>• Albert Cammon Elementary School, St. Charles Parish, LA</li><li>• Joe Brown Recreational Facility, New Orleans, LA</li><li>• Delgado Main Auditorium, New Orleans, LA</li></ul>
<b>Experience includes:</b>
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.



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/06/2018 , the Louisiana Professional Engineering and Land Surveying Board (LPELS) has the following information on file:

Mr. Bassam Abdallah Mek  
1515 Poydras Street, Suite  
New Orleans, LA 70112

	<b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LPELS)</b>	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lpepls.com	
<b>Mr. Bassam Abdallah Mekari</b>		
License/Certificate Type - Number	Expiration Date	
PE.0031801	09/30/2021	
Status: <b>Active</b>		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

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## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Johnny Mekari, P.E., Sr. Electrical Engineer
<b>Project Assignment:</b>
Sr. Electrical Engineer and Project Manager
<b>Name of Firm with which associated:</b>
Pivotal Engineering, LLC
<b>Years' experience with this Firm:</b>
5
<b>Education: Degree(s)/Year/Specialization:</b>
BS /1987 / Electrical Engineering
<b>Active registration: Year first registered/discipline:</b>
1993 / Electrical Engineering
<b>Other experience and qualifications relevant to the proposed Project:</b>
<ul style="list-style-type: none"><li>• JP Public Works Warehouse; Jefferson Parish, LA</li><li>• Jefferson Parish East Bank WWTP; Harahan, LA</li><li>• Transcontinental-Vineyard Lift Station; Jefferson Parish, LA</li><li>• Cleveland &amp; Avron Sewer Lift Station Rehabilitation; Jefferson Parish, LA</li><li>• Planters Pump Station; Jefferson Parish, LA</li><li>• Jefferson Parish East Bank WWTP; Harahan, LA</li></ul>
<b>Experience includes:</b>
<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>



LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/06/2018, the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. John Abdallah Mekari  
438 Highland Trace Drive  
Baton Rouge, LA 70810

	LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com		
	<b>Mr. John Abdallah Mekari</b>		
	License/Certificate Type - Number	Expiration Date	
	<b>PE.0025415</b>	<b>09/30/2021</b>	
	Status: <b>Active</b>		
	<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
James Amodeo, P.E., Sr. Mechanical Engineer
<b>Project Assignment:</b>
MEP Sr. Engineer
<b>Name of Firm with which associated:</b>
Pivotal Engineering, LLC
<b>Years' experience with this Firm:</b>
8
<b>Education: Degree(s)/Year/Specialization:</b>
BS /1994 / Mechanical Engineering
<b>Active registration: Year first registered/discipline:</b>
2011 / Mechanical Engineering
<b>Other experience and qualifications relevant to the proposed Project:</b>
<ul style="list-style-type: none"><li>• Jefferson Parish East Bank WWTP; Harahan, LA</li><li>• Patriot Lift Station Jefferson Parish, LA</li><li>• Cleveland &amp; Avron Sewer Lift Station, Jefferson Parish, LA</li><li>• Lincoln Elementary School for the Arts, Jefferson Parish, LA</li><li>• Broadmoor Lift Station, Shreveport, LA</li><li>• R.J. Vial Elementary School Renovations, Paradis, LA</li><li>• Albert Cammon Elementary School, St. Charles Parish, LA</li><li>• Joe Brown Recreational Facility, New Orleans, LA</li><li>• Delgado Main Auditorium, New Orleans, LA</li></ul>
<b>Experience includes:</b> 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.  Mr. Amodeo will be responsible for all mechanical and plumbing design, review of all applicable code requirements, methodologies and design recommendations and schematics.



## LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/06/2018, the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. James Edward Amodeo  
1511 Dublin Street  
New Orleans, LA 70118

	<b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LAPELS)</b>	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
<b>Mr. James Edward Amodeo</b>		
License/Certificate Type - Number	Expiration Date	
<b>PE.0036489</b>	<b>03/31/2022</b>	
<b>Status: Active</b>		

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LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.

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## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Irish Jones, Sr. Electrical Designer
<b>Project Assignment:</b>
Sr. Electrical Designer
<b>Name of Firm with which associated:</b>
Pivotal Engineering, LLC
<b>Years' experience with this Firm:</b>
8
<b>Education: Degree(s)/Year/Specialization:</b>
N/A
<b>Active registration: Year first registered/discipline:</b>
2014/Building and Electrical General Contractor
<b>Other experience and qualifications relevant to the proposed Project:</b>
<ul style="list-style-type: none"><li>• JP Public Works Warehouse, Jefferson Parish, LA</li><li>• Planters Pump Station; Jefferson Parish, LA</li><li>• Lincoln Elementary School for the Arts, Jefferson Parish, LA</li><li>• R.J. Vial Elementary School Renovations, Paradis, LA</li><li>• Joe Brown Recreational Facility, New Orleans, LA</li></ul>
<b>Experience includes:</b>
<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 will be responsible for all electrical design, review of all applicable code requirements, methodologies and design recommendations and schematics</p>

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Sundiata Marcelin, P.E.
<b>Project Assignment:</b>
Civil Project Engineer
<b>Name of Firm with which associated:</b>
Pivotal Engineering, LLC
<b>Years' experience with this Firm:</b>
1
<b>Education: Degree(s)/Year/Specialization:</b>
B.S. / 2004 / Civil Engineering
<b>Active registration: Year first registered/discipline:</b>
2013 / Civil Engineering/ 38589
<b>Other experience and qualifications relevant to the proposed Project:</b>
<ul style="list-style-type: none"><li>• Sewer Pump Station Testing; New Orleans, Louisiana</li><li>• Jefferson Parish East Bank WWTP</li><li>• Planters Drainage Pump Station</li></ul> <p>Mr. Marcellin serves as a Project Civil Engineer at Pivotal Engineering. He has over 10 years of experience in Civil &amp; Structural Engineering &amp; Construction Management. Mr. Marcelin is also experienced with FEA Analysis and Structural Analysis, Hazard Mitigation Design &amp; Residential and Commercial Design &amp; Permitting.</p>



## LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/06/2018, the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Sundiata Milton Marc  
5607 Baccich Street  
New Orleans, LA 70122

	<b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LAPELS)</b>	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
<b>Mr. Sundiata Milton Marcelin</b>		
License/Certificate Type - Number	Expiration Date	
<b>PE.0038589</b>	<b>09/30/2022</b>	
<b>Status: Active</b>		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

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## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Eliot Guerin, E.I., Project Engineer
<b>Project Assignment:</b>
Civil Engineer
<b>Name of Firm with which associated:</b>
Pivotal Engineering, L.L.C.
<b>Years' experience with this Firm:</b>
2
<b>Education: Degree(s)/Year/Specialization:</b>
B.S. / 2018 / Civil Engineering
<b>Active registration: Year first registered/discipline:</b>
2018 E.I./Civil Engineering Texas EIT 63617
<b>Other experience and qualifications relevant to the proposed Project:</b>
<ul style="list-style-type: none"><li>• JP Public Works Warehouse; Jefferson Parish, LA</li><li>• Planters Pump Station; Jefferson Parish, LA</li><li>• Cleveland &amp; Avron Lift Station Rehabilitation; Jefferson Parish, LA</li><li>• Elmwood &amp; Citrus Lift Station Station; Jefferson Parish, LA</li></ul>
<b>Experience includes:</b>
<p>Mr. Guerin is a civil engineer with 2 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

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Bryan B. Smith, P.E., Environmental Project Engineer
<b>Project Assignment:</b>
Environmental Engineer
<b>Name of Firm with which associated:</b>
Pivotal Engineering, LLC
<b>Years' experience with this Firm:</b>
3
<b>Education: Degree(s)/Year/Specialization:</b>
BS / 2011 / Environmental Engineering MS / 2014 / Civil and Environmental Engineering
<b>Active registration: Year first registered/discipline:</b>
2019 / Environmental / PE # 43843
<b>Other experience and qualifications relevant to the proposed Project:</b>
<ul style="list-style-type: none"><li>• JP Public Works Warehouse; Jefferson Parish, LA</li><li>• Planters Pump Station; Jefferson Parish, LA</li><li>• Cleveland &amp; Avron Lift Station Rehabilitation; Jefferson Parish, LA Elmwood &amp; Citrus Lift Station Station; Jefferson Parish, LA</li></ul>
<b>Experience includes:</b>
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.



## LOUISIANA PROFESSIONAL ENGINEERING AND LAND SURVEYING BOARD

As of 12/06/2018, the Louisiana Professional Engineering and Land Surveying Board (LAPELS) has the following information on file:

Mr. Bryan Benjamin Smith  
1515 Poydras Street, Suite  
New Orleans, LA 70112

	<b>LOUISIANA PROFESSIONAL ENGINEERING &amp; LAND SURVEYING BOARD (LAPELS)</b>	
	9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com	
<b>Mr. Bryan Benjamin Smith</b>		
License/Certificate Type - Number	Expiration Date	
<b>PE.0043843</b>	<b>03/31/2022</b>	
<b>Status: Active</b>		
<p>Please be advised that your license must be in "Active" status in order for you to (a) provide or offer to provide engineering or land surveying services in Louisiana or (b) use the words "engineer", "engineering", "land surveyor", "land surveying" or any modification or derivative thereof in your name or in connection with your business or activities in Louisiana. Licensees whose licenses are in "Retired", "Inactive", or "Expired" status are prohibited from engaging in the activities described above in items (a) and (b).</p> <p>LA R. S. 37:689 requires firms practicing or offering to practice engineering or land surveying in the state of Louisiana to be licensed by the Board prior to offering such services.</p>		

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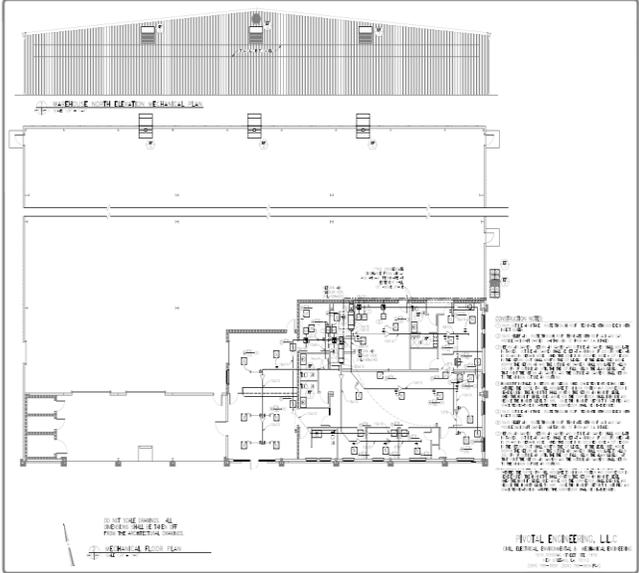
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## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
Darius Cook, Construction Manager
<b>Project Assignment:</b>
Lead Site Inspector/Construction Manager
<b>Name of Firm with which associated:</b>
Pivotal Engineering, LLC
<b>Years' experience with this Firm:</b>
8
<b>Education: Degree(s)/Year/Specialization:</b>
B.S. / in progress / Civil-Environmental Engineering
<b>Active registration: Year first registered/discipline:</b>
None
<b>Other experience and qualifications relevant to the proposed Project:</b>
<ul style="list-style-type: none"><li>• Joe Brown Memorial Recreational Facility; New Orleans, LA</li><li>• Lincoln Elementary School for the Arts New School Design; Jefferson Parish, LA</li><li>• R.J. Vial Elementary School Renovations; Paradis, LA</li></ul>
<b>Experience includes:</b>
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

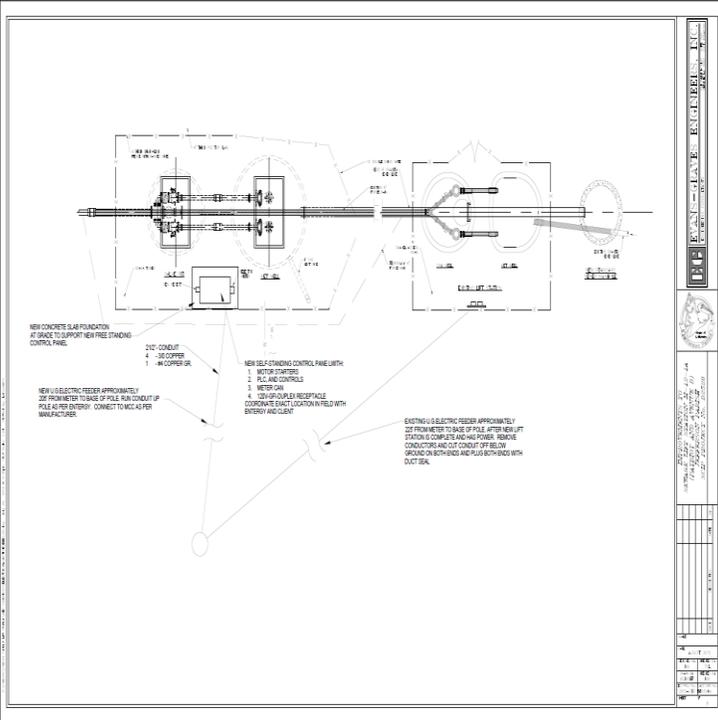
<b>PROJECT NO. 1</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p>JP Public Works Warehouse Jefferson Parish, LA</p> <p>Jefferson Parish Dept. of Engineering 1221 Elmwood Park Blvd., Suite 802 Jefferson, LA 70123 (504) 736-6505</p> <div style="text-align: center; margin-top: 20px;">  </div>	<p>Pivotal Engineering was retained by Jefferson Parish Department of Engineering to provide engineering services for JP Public Works Warehouse. The engineering scope was to provide mechanical &amp; plumbing, electrical, and civil engineering services for the new warehouse facility in Bridge City for Jefferson Parish, Louisiana.</p> <p>JP Public Works Warehouse project is ongoing and it is on 100% completion ready to be announced to bid.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2019	\$75,000	\$75,000

## TEC Professional Services Questionnaire

<b>PROJECT NO. 2</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p>Ames (Collins Elementary) Montessori School Jefferson Parish, LA</p> <p>Jefferson Parish School Board Scott Adams (504) 349 8595</p> 	<p>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 and Construction Management.</p> <p>Our engineers were <u>very instrumental</u> 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, 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.</p> <p>Pivotal's engineers "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.</p> <p>After proving that a 6" line would be acceptable, Pivotal took control of all Construction Management services by planning, coordinating, and controlling construction from start to finish.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2013	\$5,000,000	\$800,000

## TEC Professional Services Questionnaire

### PROJECT NO. 3

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:					
<p>Patriot Lift Station; Jefferson Parish, LA</p> <p>Linda Daly, Director Jefferson Parish Department of Sewer 1221 Yenni Building, Suite 803 Jefferson, LA 70123 (504) 736-6661</p>	<ul style="list-style-type: none"> <li>Perform a full electrical design and specifications for a duplex lift station (Patriot) for Jefferson Parish.</li> </ul> <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, 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.</p>					
						
<p><b>Completion Date</b> (Actual or estimated):</p> <p>2015</p>	<p><b>Estimated Cost:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%;">Entire Project:</th> <th style="width: 50%;">Work for which Firm was Responsible:</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">\$1,000,000</td> <td style="text-align: center;">\$500,000</td> </tr> </tbody> </table>		Entire Project:	Work for which Firm was Responsible:	\$1,000,000	\$500,000
Entire Project:	Work for which Firm was Responsible:					
\$1,000,000	\$500,000					

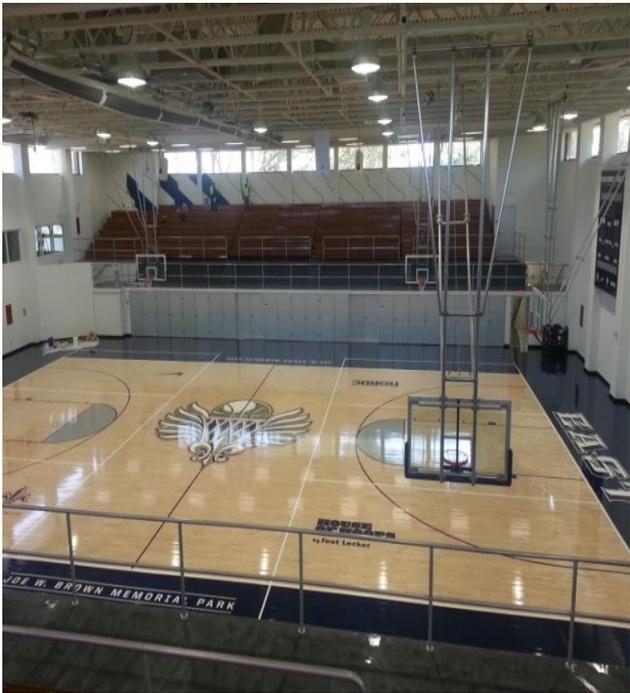
## TEC Professional Services Questionnaire

<b>PROJECT NO. 4</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p>Cleveland &amp; 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="text-align: center;">  </div>	<ul style="list-style-type: none"> <li>• Reconstruction</li> </ul> <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>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2020	\$500,000	\$30,000

## TEC Professional Services Questionnaire

<b>PROJECT NO. 5</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p>Design Package #7- Post Katrina Lift/Pumping Stations Overall Upgrades; New Orleans S&amp;WB, New Orleans, LA</p> <p>New Orleans S&amp;WB Mr. Khalid Saleh, Ph.D (504) 865-0667</p>	<ul style="list-style-type: none"> <li>• Engineering, design, upgrades and improvements of a total of 9 lift stations.</li> </ul> <p>Pivotal served as the project Sub-Consultant Engineer of record for the upgrades and improvements of a total of 9 lift stations (Castle Manor, Gentilly Oaks, Pump Station #20, Alcee Fortier, City Park, Cerise, Lakeland Terrace, Amid &amp; Oak Island pumping stations). The overall scope consisted of reviewing FEMA PWs, assess all damages in the field due to hurricane Katrina and compare with FEMA's recommended repairs/replacements and make necessary recommendations including additional damages that were not covered by FEMA while providing technical backups and explanations to why such damages were caused by Katrina. Pivotal provided preliminary design reports (one line diagrams) and developed plans and specifications for the equipment that needed to be replaced. The scope specifics consisted of replacing the old gear that was flooded since most of the stations were running on diesel pumps, adding new switch gear (480/277, 400 A), new main feeders, new sub-panels, incorporating new 3 way manual transfer switch, supplying preliminary design reports to be reviewed by client while proposing new design recommendations, designing new circuits for all Scada panels among other control panels and conducting field visual and physical inspections while recommending what needed to be replaced.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2010	\$1,000,000	\$1,000,000

## TEC Professional Services Questionnaire

<b>PROJECT NO. 6</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p>Joe W. Brown Memorial Recreational Facility New Orleans, LA</p> <p>Roger Bailey and Associates Architects Roger Bailey (504) 957-6691</p>	<p>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.</p> <p>Our main engineering scope consisted of: <b>1)</b> Review MEP items in FEMA PWs, <b>2)</b> Add items that were missed by FEMA but are storm related, <b>3)</b> Provide budgets for PW items and the FEMA missed items, <b>4)</b> Meet with FEMA for scope alignment and agree on a strategy for new systems design, <b>5)</b> Prepare several mitigation design scenarios in order to meet ABFE or DFIRM elevations, <b>6)</b> Evaluate the Dry Proofing and Wet Proofing methodologies and present a design for both scenarios with benefit and cost analysis, <b>7)</b> Help client in making final decisions for the best hazard/flood mitigation approach after reviewing the cost and benefit, <b>8)</b> Decide if the system can be salvaged or total replacement (in Joe Brown, it was total replacement), <b>9)</b> Help client with FEMA negotiations by providing technical justifications for FEMA claims, <b>10)</b> Expedite engineering efforts to meet construction deadlines, <b>11)</b> Construction Administration.</p>	
		
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2013	\$5,000,000	\$2,000,000

## TEC Professional Services Questionnaire

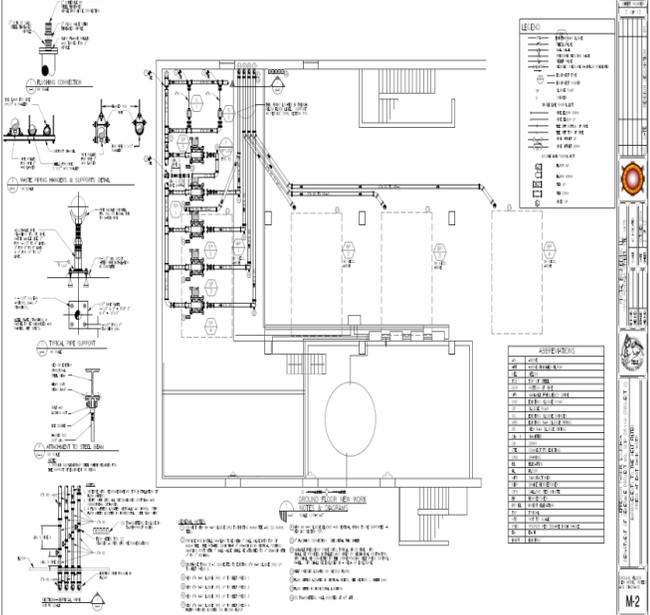
<b>PROJECT NO. 7</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p>Lincoln Elementary School for the Arts New School Design Jefferson Parish, LA</p> <p>Jefferson Parish School Board Scott Adams (504) 349-8595</p> 	<ul style="list-style-type: none"> <li>Scoping Mechanical, Electrical, and Plumbing Design</li> <li>Construction Management</li> </ul> <p>Pivotal Engineering 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.</p> <p>The main scope consisted of:</p> <ul style="list-style-type: none"> <li>HVAC consisted of RTUs and Splits with Hot Gas Reheat (307 tons)</li> <li>A full Blow Building Management System with a manual bypass</li> <li>New fire Alarm System</li> <li>Automatic Sprinkler System</li> <li>PA System</li> <li>CCTV system</li> <li>Plumbing</li> <li>Electrical</li> </ul>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
2013	<b>Entire Project:</b> \$18,000,000	<b>Work for which Firm was Responsible:</b> \$6,000,000

## TEC Professional Services Questionnaire

### PROJECT NO. 8

Project Name, Location and Owner's contact information:	Nature of Firm's Responsibility:	
<p>R.J. Vial Elementary School Renovations Paradis, LA</p> <p>St. Charles Parish John Rome (985) 785-6289</p> <div style="text-align: center;">  </div>	<p>As the prime consultant and Professional of Record, Pivotal designed the 20,000 sq. ft. classroom renovations to the existing layout. The main scope consisted of adding new fire walls, removing asbestos material, adding new VAV HVAC system, upgrading the electrical network to support the added loads, new lighting and Fire Alarm system.</p> <div style="text-align: center;">  </div>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2013	\$1,900,000	\$1,900,000

## TEC Professional Services Questionnaire

<b>PROJECT NO. 9</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p>East Bank Treatment Plant Upgrade, Jefferson Parish, LA</p> <p>Brett Todd, Director Jefferson Parish Department of Sewer 1221 Yenni Building, Suite 803 Jefferson, LA70123 (504) 736-6661</p>	<ul style="list-style-type: none"> <li>Rehabilitation of Filter Presses</li> <li>Replacing Sludge Feed Pumps, Piping, Electrical Panels, Polymer Feed System</li> <li>Construction Inspections</li> </ul> <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>	
		
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2015	\$3,600,000	\$3,600,000

## TEC Professional Services Questionnaire

<b>PROJECT NO. 10</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>	
<p>Transcontinental-Vineyard Lift Station; Jefferson Parish, LA</p> <p>Linda Daly, Director Jefferson Parish Department of Sewer 1221 Yenni Building, Suite 803 Jefferson, LA 70123 (504) 736-6661</p>	<ul style="list-style-type: none"> <li>Perform electrical and control systems evaluation of the lift station and to propose recommended upgrades as needed for its safe and reliable operation.</li> </ul> <p>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.</p> <p>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.</p> <p>Another Pivotal scope was to produce a cost estimate for the recommended upgrades and present to the client.</p>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2016	\$1,000,000	\$400,000

## 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 is a certified Small Business Enterprise with both the Small Business Administration and City of New Orleans. Furthermore, Pivotal has been certified as a Disadvantaged Business Enterprise by the City of New Orleans, Sewerage and Water Board of New Orleans, the New Orleans Aviation Board and Harrah's Casino. Pivotal Engineering is also certified by the Louisiana Department of Economic Development as a Small Entrepreneurship SE (Hudson Initiative) firm.

### **MINIMUM REQUIREMENTS**

- 1. Persons or firms shall have at least (1) principal who is a licensed, registered architect or a professional engineer in the State of Louisiana;**
- 2. Persons or firms shall have a professional in charge of the Project who is a licensed, registered architect in Louisiana with a minimum of five (5) years' experience;**
- 3. Persons or firms shall have one (1) employee who is a licensed, registered architect or 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.**

**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 P.E. #31801

**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

**PRIMARY EVALUATION CRITERIA**

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

The **Pivotal** Engineering staff members that will be assigned to this contract have extensive, specialized experience in Engineering Design and Construction Management for Private Entities, and Government and Municipal Agencies in the Gulf South area. 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 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 architectural or engineering tasks, including project evaluation, project design, drafting or 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 Environmental, 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 of timely completion of newly assigned work, considering the factors of type of architectural or 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 provided by the Director of Public Works for the requesting department 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, facility and building 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 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.

The following is a brief summary of the team's experience:

### **(1) JP Public Works Warehouse Jefferson Parish, LA**

Pivotal Engineering was retained by Jefferson Parish Department of Engineering to provide engineering services for JP 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.

### **(2) 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 problems 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

### **(3) Planters Pump Station, Jefferson Parish, LA**

Pivotal Engineering is retained by Jefferson Parish to provide engineering services, inspection and construction administration of Planters drainage Pump Stations. The scope of engineering services associated with this project includes the removal and replacement of diesel engines, exhaust silencers, process controls and instrumentations, miscellaneous piping and electrical, installation of air cooled heat exchangers, and refurbishment of gear box for drainage pumps of No. 1, 2, 3 and 4.

### **(4) 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.

### **(5) Elmwood & Citrus Lift Station, Jefferson Parish, LA**

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.

### **(6) Joe Brown Memorial Recreational Facility, New Orleans, LA**

Pivotal's main engineering scope consisted of: **1)** Review MEP items in FEMA PWs, **2)** Add items that were missed by FEMA but are storm related, **3)** Provide budgets for PW items and the FEMA missed items, **4)** Meet with FEMA for scope alignment and agree on a strategy for new systems design, **5)** Prepare several mitigation design scenarios in order to meet ABFE or DFIRM elevations, **6)** Evaluate the Dry Proofing and Wet Proofing methodologies and present a design for both scenarios with benefit and cost analysis, **7)** Help client in making final decisions for the best hazard/flood mitigation approach after reviewing the cost and benefit, **8)** Decide if the system can be salvaged or total replacement (in Joe Brown, it was total replacement), **9)** Help client with FEMA negotiations by providing technical justifications for FEMA claims, **10)** Expedite engineering efforts to meet construction deadlines, **11)** Construction Administration.

### **(7) Lincoln Elementary School for the Arts New School Design, Jefferson Parish, LA**

Pivotal Engineering 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

### **(8) R.J. Vial Elementary School Renovations, Paradis, LA**

As the prime consultant and Professional of Record, Pivotal designed the 20,000 sq. ft. classroom renovations to the existing layout. The main scope consisted of adding new fire walls, removing asbestos material, adding new VAV HVAC system, upgrading the electrical network to support the added loads, new lighting and Fire Alarm system.

### **(9) East Bank Treatment Plant Upgrade, Jefferson Parish, LA**

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.

### **(10) 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.

**(5) "Location of the principal office where work will be performed. Preference shall be given to persons or firms with a principal business office at which the work will be performed."**

Pivotal Engineering, LLC is located in Jefferson Parish at 3925 N. I-10 Service Rd. West, Suite 109R, Metairie, LA 70002. This shall prove to be a valuable asset to 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."**

Pivotal Engineering, LLC is not, nor has it ever been, involved in any litigation with the Jefferson Parish or any other

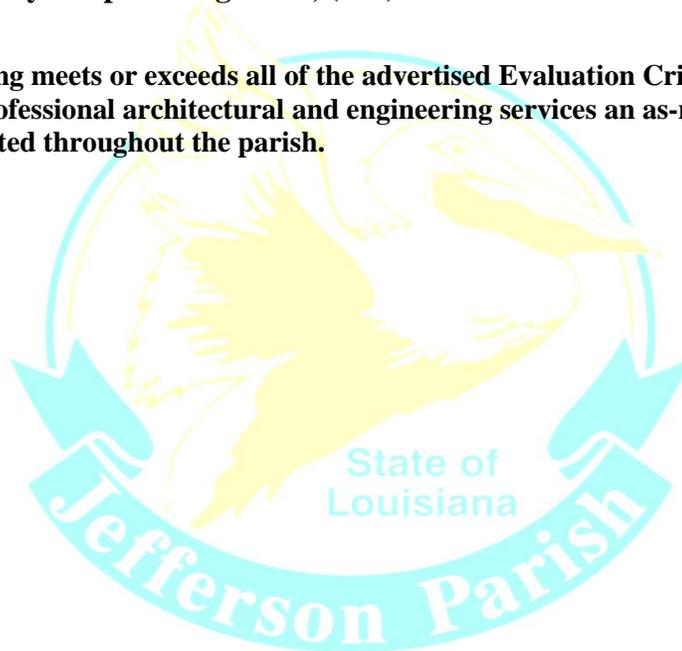
Parish/State/Federal agencies.

(7) Prior successful completion of projects of the type and nature of the architectural or 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. Neil Schneider, P.E. Director of Capital Projects, Jefferson Parish Dept. of Capital Projects, (504) 736-6833
- II. Mike Lockwood, P.E. Director of Sewerage, Jefferson Parish Dept. of Sewer, (504) 736-6661
- III. Mitchell Theriot, P.E. Director of Drainage, Jefferson Parish Dept. of Drainage, (504) 736-6751
- IV. Mark Drewes, PE; Director of Public Works; Jefferson Parish, Department of Engineering, (504) 736-6783
- V. Autumn Permenter, PE; Chief Engineer DPW, City of Shreveport; (318) 673-6026
- VI. Myra Alexis-Valentine, Grants Administer, St. John Parish, ( 985) 652-9569
- VII. Jean Todd; US Army Corps of Engineers, (901) 828 – 1503

In summary, Pivotal Engineering meets or exceeds all of the advertised Evaluation Criteria for this Request for Qualifications for providing professional architectural and engineering services an as-needed basis for architectural type projects located throughout the parish.



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: 01/15/21

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*

*Amud Davari*  
\_\_\_\_\_  
*Chairman*  
*Jane E. Bawie Jr*  
\_\_\_\_\_  
*Secretary*