

March 31, 2023

3:30 pm CST

# Statement of Qualifications

SOQ NO. 23-007

## Professional Mechanical and Engineering Services



p i v o t a l  
e n g i n e e r i n g

A Full Service MEP, Civil and Environmental Firm

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### PIVOTAL ENGINEERING, LLC

3925 N. I-10 SERVICE ROAD W., SUITE 109R

METAIRIE, LA, 70002

OFFICE: 504-799-3653

FAX: 504-799-3654

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## TEC Questionnaire Form

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## **TEC Questionnaire Form**

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### **Pivotal Engineering - TEC Form**

## TEC Professional Services Questionnaire

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

Provide professional mechanical and electrical engineering services on an as-needed basis for projects located throughout the parish.  
Resolution No. 141493

### B. Firm Name & Address:

**p i v o t a l**  
e n g i n e e r i n g

3925 N. I-10 Service Road W., 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, PE, President**  
**President/Principal-In-Charge**  
3925 N. I-10 Service Road W., Suite 109R  
Metairie, LA 70002  
Office 504-799-3653  
amehta@pivotaleng.com

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

**Bassam Mekari, PE**  
**Professional-In-Charge/Principal**  
3925 N. I-10 Service Road W., Suite 109R  
Metairie, LA 70002  
Office 504-799-3653  
bmekari@pivotaleng.com

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

<u>2</u> Administrative	<u>2</u> Estimators	<u>  </u> Specification Writers
<u>1</u> Architects (Licensed)	<u>  </u> Geologists	<u>1</u> Structural Engineers
<u>  </u> Chemical Engineers	<u>  </u> Geotechnical Engineers	<u>  </u> Graduate Engineers
<u>5</u> Civil Engineers	<u>  </u> Interior Designers	<u>1</u> Project Managers
<u>8</u> Construction Inspectors	<u>  </u> Landscape Architects	<u>1</u> Clerical
<u>  </u> Ecologists	<u>  </u> Land Surveyor	<u>  </u> Grant/Funding Specialist
<u>2</u> Electrical Engineers	<u>1</u> Mechanical Engineers	<u>  </u> Sanitary Engineers
<u>3</u> Engineer Intern	<u>2</u> Environmental Engineers	
<u>  </u> Professional Land Surveyors		<u>29</u> TOTAL

### F. Is this submittal by a JOINT-VENTURE? Please check: YES

☐

NO

☒

## TEC Professional Services Questionnaire

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

1. N/A

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

YES ☐ NO ☐

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

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

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

29

## 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:**

**Bassam Mekari, PE; Sr. Electrical Engineer**

**Project Assignment:**

**Professional-In-Charge/Sr. Electrical Engineer**

**Name of Firm with which associated:**

The logo for Pivotal Engineering features the word "pivotal" in a large, lowercase, sans-serif font, with "engineering" in a smaller, lowercase, sans-serif font directly below it. The background of the logo is a dark blue rectangle.

**Years' experience with this Firm:**

**9**

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

**MS in Electrical Engineering - 3 hours remaining**

**BS in Electrical Engineering, 1987, Louisiana State University**

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

**Licensed PE - # 31801**

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

Mr. Mekari serves as the principal of Pivotal Engineering and the Engineering Manager in charge of all of the electrical engineering projects. He has developed tremendous experience in designing and installing Medium and Low Voltage Electrical Distribution Systems for commercial and industrial facilities lift stations, water treatment plants, Schools, Justice Centers, Police Stations, and industrial Thermal Reactors. He also designed/built electrical sub-stations for industrial systems and supervised actual installations throughout the US and worldwide. Mr. Mekari has designed over 200 electrical projects and will be instrumental in the overall plant electrical systems design. He also developed tremendous experience in sizing VFDs, UPSs, LED lighting, Dry and Liquid-Fill Transformers, Motors, Medium and Low Voltage Grounding Systems, Panelboards and Switch Gears, ATSS, Back Up Generators and possesses hands on field installations' experience and construction administration. Mr. Mekari developed expertise is all applicable codes pertaining to his projects such as NEC, NFPA 70E, NFPA 820, UL and local codes.

#### **Experience includes:**

**Ames Montessori School; Jefferson Parish, LA**

Our engineers 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, Pivotal's MEP project

## **TEC Professional Services Questionnaire**

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.

### **Lincoln Elementary School for the Arts New School Design; Jefferson Parish, LA**

Mr. Mekari served as the project main Electrical Engineer of record and the Chief Engineer. 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.

### **Planters Pump Station Improvements; Jefferson Parish, LA**

Mr. Mekari served as the project main electrical engineer. Pivotal Engineering is retained by Jefferson Parish to provide engineering services for the Planters Pump Station Improvements project. The scope of engineering services 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.

### **Oak Street Pump Station Improvements; St Charles Parish, LA**

Mr. Mekari served as the project main electrical engineer of record and the Chief Engineer for the upgrades and improvements of the pump station. Pivotal was retained by St. Charles Parish for the Oak Street Pump Station Improvements project. The scope of services involved:

- Replace the 100 HP Diesel Driven 24" pump by a 36", 200 HP Electrically driven pump with VFD.
- Modify all controls and existing power distribution to fit the new arrangement.
- Upgrade Generator to a 350 KW system to handle new and existing loads.
- Pivotal was responsible for increasing the generator size and adding power and controls for a new 200hp pump.

### **N. Arnoult Drainage Pump Station Improvements; Jefferson Parish. LA**

Mr. Mekari served as the project manager and the main Electrical Engineer for the overall lift station upgrades and pumping capacity increase (5400 gpm). This lift station was one of the larger lift stations for Shreveport DPW. Some of Mr. Mekari's responsibilities included the design of 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, Mr. Mekari added a secondary power supply (600A, 480 V, 3 phase) to the switch gear from a different feeder via an automatic transfer switch. Some other responsibilities also included the installation of new 18" Mag flow meter in the existing below grade force main and new odor control system.

### **Wright Road Improvements; New Orleans, LA**

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

**TEC Professional Services Questionnaire**


meetings.



**Jefferson  
Parish**  
State of Louisiana



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Avinash Mehta, PE; President/Sr. Civil Engineer</b>
<b>Project Assignment:</b>
<b>Principal/Client Relations</b>
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
9
<b>Education: Degree(s)/Year/Specialization:</b>
M.S. Civil Engineering, University of Central Florida, 2003 B.S. Civil Engineering, NMU – India, 2000
<b>Active registration: Year first registered/discipline:</b>
Louisiana PE #35100 Civil
<b>Other experience and qualifications relevant to the proposed Project:</b>
Mr. Mehta serves as the Principal of Pivotal Engineering. Mr. Mehta has over 16 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 street design, pocket park improvements, roadway enhancements, drainage studies, process and design, water and wastewater master planning, drainage design permitting, wastewater system design, potable water system design and conceptual planning and design for coastal restoration projects.
<b>Experience includes:</b>
<u><b>Joe Brown Memorial Recreational Facility; New Orleans, LA</b></u> Mr. Mehta serves as the principal-in-charge for this project. This project was funded by FEMA, CDBG, Bond and NIKE with a construction value of \$5 million. It had several design challenges and a very compressed design and construction schedule. 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.
<u><b>Lincoln Elementary School for the Arts New School Design; Jefferson Parish, LA</b></u> Mr. Mehta serves as the principle-in-charge for this project. 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.
<u><b>Planters Pump Station Improvements; Jefferson Parish, LA</b></u> Mr. Mehta serves as the principle-in-charge for this project. Pivotal Engineering is retained by Jefferson Parish

## **TEC Professional Services Questionnaire**

to provide engineering services for the Planters Pump Station Improvements project. The scope of engineering services 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.

### **Oak Street Pump Station Improvements; St Charles Parish, LA**

Mr. Mehta served as the principle-in-charge for this project. Pivotal was retained by St. Charles Parish for the Oak Street Pump Station Improvements project. The scope of services involved:

- Replace the 100 HP Diesel Driven 24" pump by a 36", 200 HP Electrically driven pump with VFD.
- Modify all controls and existing power distribution to fit the new arrangement.
- Upgrade Generator to a 350 KW system to handle new and existing loads.
- Pivotal was responsible for increasing the generator size and adding power and controls for a new 200hp pump.

### **Hero Pump Station; Jefferson Parish, LA**

Mr. Mehta served as the principle-in-charge for this project. Pivotal was retained by Jefferson Parish for the Hero Pump Station project to improve the electrical systems and its components. Pivotal was responsible for adding power and controls for (4) new trash rakes.

### **Engineers Canal Pump Station Improvements (Norco); St Charles Parish, LA**

Mr. Mehta served as the principle-in-charge for this project. The proposed Engineer's Canal Pump Station Capacity Increase project consists of the installation of a new pump in an open bay of the pump station platform. The 200-horse power electric motor pump will be a 26" submersible pump that will add an additional 28,000 GPM of flow capacity. A new 26" discharge pipe will be installed over the levee and will be approximately 286' in length. The concrete blocks along the side of the levee will be extended approximately 3' to anchor the new discharge pipe. A concrete box and slab extension will be required for the crown of the levee for the vehicle ramp. The proposed project also includes the removal of the existing generator to install a larger generator that will service the existing and new pumps.

### **Des Allemandes Pump Station; Jefferson Parish, LA**

Mr. Mehta served as the principle-in-charge for this project. Pivotal was retained by Jefferson Parish to provide engineering services for the Des Allemandes Pump Station project. The project is to demolish the existing "Des Allemandes Pump Station" and replace it with a new structure and pump.

### **14<sup>th</sup> Street Drainage Improvements; Jefferson Parish, LA**

Mr. Mehta served as the principle-in-charge for this project. Pivotal was retained by Jefferson Parish to provide preliminary and final design phase services for construction plan preparation and construction administration.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Yoseph Shifare, PE, PTOE; Project Director</b>
<b>Project Assignment:</b>
<b>Project Manager/Sr. Civil Engineer</b>
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
9
<b>Education: Degree(s)/Year/Specialization:</b>
M.S. Civil Engineering, University of Louisville, Kentucky, 2014 B.S. Civil Engineering, University of Asmara, Eritrea, 2001
<b>Active registration: Year first registered/discipline:</b>
2018 / Civil Engineering / LA PE # 42747 Louisiana PTOE
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Shifare serves as the project director of Pivotal Engineering in charge of civil/transportation projects. He has over 19 years engineering, project and construction management experience for public infrastructure as well as for industrial, commercial and private facility projects. As project director, leads and manages the day-to-day efforts of engineers on projects that include roadway, traffic analyses, pavement structural design, use of geosynthetics, geometric design, line/grade analyses, pavement marking, intersection improvements, pedestrian/bicycle lanes/paths, excavation/embankment, traffic, drainage/storm water management, water/wastewater infrastructure and landfills. In addition, Mr. Shifare has extensive experience in hydraulic and green infrastructure project design, such as experience providing complex engineering services for hazard mitigation projects for government clients, including but not limited to detention and filtration of stormwater, open channel and pipe flow drainage systems, created wetlands structures, bioretention, and design of hydraulic control structures. He is responsible to client liaison, management of the strategic aspects of project engagement, high-level review of project deliverables, leadership, project accounting and ensuring that engineering practices meets or exceeds industry standards.</p>
<b>Experience includes:</b>
<b><u>Westwego No. 1 Pump Station Improvements; Jefferson Parish, LA</u></b>
Mr. Shifare serves as the project manager for this project. Pivotal Engineering was retained by Jefferson Parish for the Westwego No. 1 Drainage Pump Station project. The scope of work included the demolition of the old Westwego NO. 1 Pump Station building and installation of a 100 cfs pump and generator at the new Pump Station, including ancillary work.
<b><u>N. Arnoult Drainage Pump Station Improvements; Jefferson Parish, LA</u></b>
Mr. Shifare serves as the project manager for this project. Pivotal is retained by Jefferson Parish for design and

## **TEC Professional Services Questionnaire**

construction management of N. Arnoult Drainage Pump Station Improvements. The scope of the project includes the demolishing of existing building, replacing 2 existing vertical turbine pumps with 2 new 25 HP pumps, replacing existing pump control with VFD, ATS and associated electrical upgrades, SCADA, and replacing 100KW diesel generator with sound enclosures and fuel tank.

### **Planters Pump Station Improvements; Jefferson Parish, LA**

Mr. Shifare serves as the project manager for this project. Pivotal Engineering is retained by Jefferson Parish to provide engineering services for the Planters Pump Station Improvements project. The scope of engineering services 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.

### **Hero Pump Station; Jefferson Parish, LA**

Mr. Shifare served as the project manager for this project. Pivotal was retained by Jefferson Parish for the Hero Pump Station project to improve the electrical systems and its components. Pivotal was responsible for adding power and controls for (4) new trash rakes.

### **Engineers Canal Pump Station Improvements (Norco); St Charles Parish, LA**

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### **Des Allemandes Pump Station; Jefferson Parish, LA**

Mr. Shifare served as the project manager for this project. Pivotal was retained by Jefferson Parish to provide engineering services for the Des Allemandes Pump Station project. The project is to demolish the existing "Des Allemandes Pump Station" and replace it with a new structure and pump.

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Mr. Shifare served as the project manager for this project. Pivotal was retained by Jefferson Parish to provide preliminary and final design phase services for construction plan preparation and construction administration.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Bassam Mekari, PE; Sr. Electrical Engineer</b>
<b>Project Assignment:</b>
<b>Sr. Electrical Engineer</b>
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
<b>9</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>MS in Electrical Engineering - 3 hours remaining</b>
<b>BS in Electrical Engineering, 1987, Louisiana State University</b>
<b>Active registration: Year first registered/discipline:</b>
<b>Licensed PE - # 31801</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Mekari serves as the principal of Pivotal Engineering and the Engineering Manager in charge of all of the electrical engineering projects. He has developed tremendous experience in designing and installing Medium and Low Voltage Electrical Distribution Systems for commercial and industrial facilities lift stations, water treatment plants, Schools, Justice Centers, Police Stations, and industrial Thermal Reactors. He also designed/built electrical sub-stations for industrial systems and supervised actual installations throughout the US and worldwide. Mr. Mekari has designed over 200 electrical projects and will be instrumental in the overall plant electrical systems design. He also developed tremendous experience in sizing VFDs, UPSs, LED lighting, Dry and Liquid-Fill Transformers, Motors, Medium and Low Voltage Grounding Systems, Panelboards and Switch Gears, ATs, Back Up Generators and possesses hands on field installations' experience and construction administration. Mr. Mekari developed expertise in all applicable codes pertaining to his projects such as NEC, NFPA 70E, NFPA 820, UL and local codes.</p>
<b>Experience includes:</b>
<b><u>Ames Montessori School; Jefferson Parish, LA</u></b>
<p>Our engineers 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, 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>



## **TEC Professional Services Questionnaire**

### **Lincoln Elementary School for the Arts New School Design; Jefferson Parish, LA**

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Mr. Mekari served as the project manager and the main Electrical Engineer for the overall lift station upgrades and pumping capacity increase (5400 gpm). This lift station was one of the larger lift stations for Shreveport DPW. Some of Mr. Mekari's responsibilities included the design of 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, Mr. Mekari added a secondary power supply (600A, 480 V, 3 phase) to the switch gear from a different feeder via an automatic transfer switch. Some other responsibilities also included the installation of new 18" Mag flow meter in the existing below grade force main and new odor control system.

### **Wright Road Improvements; New Orleans, LA**

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

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Terry Elnaggar, PE; Sr. Civil/Environmental Engineer</b>
<b>Project Assignment:</b>
<b>Sr. Civil Engineer</b>
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
<b>9</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>MS / 1988 / Civil and Environmental Engineering / Univ. of California, Berkley</b>
<b>BS / 1985 / Civil Engineering / Louisiana State University</b>
<b>Active registration: Year first registered/discipline:</b>
<b>LA PE #23832 – Civil/Environmental</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Elnaggar serves as a Principal of Pivotal Engineering LLC. He is the lead civil and environmental engineer for the company. His 30 years of experience includes project management and design work in roadways, drainage, sewer, earthen levees, floodwalls, floodgates and pump stations. He has performed multiple engineering projects for public and private clients on the local, state and federal level. He has served as Project Design Manager for numerous projects including, pavement widening and rehabilitation work. He takes a hands-on approach to successfully managing the design, QA/QC, stakeholder coordination, discipline leads, and schedule management. He has managed and prepared design-build construction plans, utility coordination, drainage, stormwater management, right-of-way plats, complex E&amp;SC, environmental documentation/permitting, and environmental mitigation/restoration. He has also served on the construction program management side with both municipal, and industrial clients, providing oversight of projects designed by other consultants, providing design reviews and coordination between the consultant and the multiple other agencies involved. His experience includes design and construction management for civil and environmental projects including municipal and industrial solid waste permitting, risk assessments, water permitting and compliance, air permitting and compliance, emission inventories and reporting, groundwater investigations, regulatory compliance, environmental process design, permitting, and waste treatment system design.</p>
<b>Experience includes:</b>
<b><u>Wright Road Improvements; New Orleans, LA</u></b>
<p>Mr. Elnaggar served as the Project Engineer for the design of Wright Road located in New Orleans East. The project included subsurface drainage, roadway paving, curb and gutter, utility's location and relocation, sidewalks. Mr. Elnaggar was responsible for coordination and oversight of all engineering and design tasks, and construction management for this project. Mr. Elnaggar also ensured all design guidelines were followed, the project remained within budget, milestone dates were met, and the needs and concerns of the client were addressed. The project was valued at \$9 million.</p>

## **TEC Professional Services Questionnaire**

### **Broadmoor Lift Station Upgrades; Shreveport**

The Project includes the rehabilitation of the facility building including pumps, pipes, screening system, odor control system, and designing of an access road. Mr. Elnaggar reviewed, designed and sized the temporary by pass system; reviewed and designed the horizontal and vertical alignment of a concrete pavement access road. Further, Mr. Elnaggar reviewed and managed the project design package including the specification, capital project estimate and Construction document.

### **CC1 Lift Station Improvements; Luling, LA**


The Project includes analysis and design to increase the existing capacity of the lift station. For this project Mr. Elnaggar reviewed, and analyzed the design of the Odor Control System; reviewed a simply supported two-way slab wet well cover for H2O Loading. Further reviewed and calculated capital cost estimate of the project and Construction document.

### **City of New Orleans Hurricane Ida Emergency Status Damage Assessments, New Orleans, LA**

In the wake of Hurricane Ida (August 2021), Pivotal Engineering was retained by City of New Orleans to perform emergency status damage assessments and repair cost estimates for each of their 416 facilities. Facility types included administrative buildings, recreation centers, parks, playgrounds, life safety stations and other types. Pivotal developed a comprehensive, GIS-based logistical framework for efficient staff management and planning. Due to the constant communication with the teams and client, Pivotal was able to make changes to priority locations within the day. Pivotal used a team of dedicated cost estimators to perform all cost estimates, based on the RSMeans database. Pivotal was able to deploy drone imagery for additional inspection of roof and other inaccessible items. Progress was shared with the City daily via an email summary as well as a real-time, cloud-based data dashboard. Pivotal staff worked seven (7) days per week for six (6) weeks to complete the project.



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>James Amodeo, PE; Sr. Mechanical Engineer</b>
<b>Project Assignment:</b>
<b>Mechanical Engineer</b>
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
<b>9</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>BS / 1994 / Mechanical Engineering</b>
<b>Active registration: Year first registered/discipline:</b>
<b>LA PE #36489 – Mechanical - 2011</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Amodeo serves as the Senior Mechanical Engineer for Pivotal Engineering. Mr. Amodeo has more than 20 years of experience in the analysis, design and project construction management for various types of building mechanical systems, plumbing design, and code compliance.</p> <p>Working on more than 20 FEMA projects post Katrina, Mr. Amodeo has developed tremendous FEMA experience and reviewing PWs and providing cost estimates.</p> <p>Mr. Amodeo will be designated as the Sr. Mechanical Engineer for this project. Mr. Amodeo will be responsible for all mechanical and plumbing design, review of all applicable code requirements, methodologies and design recommendations and schematics</p>
<b>Experience includes:</b>
<b><u>Lincoln Elementary School for the Arts New School Design; Jefferson Parish, LA</u></b>
Mr. Amodeo served as a Sr. Mechanical Engineer for the project. 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.
<b><u>Joe W. Brown Memorial Recreational Facility; New Orleans, LA</u></b>
Mr. Amodeo served as the Sr. Mechanical Engineer for the project. 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

## **TEC Professional Services Questionnaire**

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.

### **Cleveland & Avron Sewer Lift Station Rehabilitation; Jefferson Parish, LA**

Mr. Amodeo served as a Sr. Mechanical Engineer for the lift station upgrades for this project. 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.

### **N. Sibley & Boone Lift Station Improvements; Jefferson Parish, LA**

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

### **Patriot Lift Station; Jefferson Parish, LA**

Mr. Amodeo served as the Sr. Mechanical Engineer for the upgrades and improvements of the lift station. Pivotal was retained to perform a full electrical design with specifications for a duplex lift station (Patriot) for Jefferson Parish. The overall system consisted of a NEMA 4X self-standing main control panel/MCC, 240, 3 phases, 4 wires. The control panel also included logic to allow the pump motors to start/stop manually from the push bottoms at the panel or automatically via the PLC inside the panel. The PLC also controlled the levels at the well and the backup level system. All of the PLC digital and analogue inputs/outputs were also transmitted from the PLC to the Jefferson Parish SCADA system central facility via radio signal.

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Sundiata Marcelin, PE; Sr. Civil Engineer</b>
<b>Project Assignment:</b>
<b>Civil Engineer</b>
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
<b>2+</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>B.S. Civil Engineering, 2004</b>
<b>Active registration: Year first registered/discipline:</b>
<b>2013 / Civil Engineering / LA PE # 38589</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Marcelin has over 10 years of experience in both civil and structural engineering as well as over 15 years of experience in construction management. This civil engineering experience includes complete urban roadway restoration design with new sewage, water, drainage, and full right-of-way layout in Jefferson, St Bernard, and Orleans Parish. Mr. Marcelin has extensive knowledge of the civil infrastructure and design standards of Orleans Parish. This knowledge base allows him to efficiently review designs for both above ground and sub-surface infrastructure. His project experience includes roadway, traffic analyses, pavement structural design, use of geosynthetics, geometric design, line and grade analyses, pavement marking, intersection improvements, pedestrian and bicycle lanes or paths, excavation and embankment, traffic, drainage/storm water management, water and wastewater systems.</p>
<b>Experience includes:</b>
<p><b><u>14th Street Drainage Improvements; Jefferson Parish, LA</u></b></p> <p>Mr. Marcelin serves as a senior engineer for this project, responsible for project coordination, generation of overall design (including calculations and modeling) and the project schedule. Overall, the project goal is to improve the drainage network along 14th Street. Project scope items include the following: construction of new sidewalks and ADA ramps, replacement of pavement and driveways, adjustment of required sewer connections, adjustment of identified water lines and the construction of a new outfall for the canal.</p>
<p><b><u>Wright Road Improvements; New Orleans, LA</u></b></p> <p>Mr. Marcelin serves as a senior engineer for this project, responsible for project coordination, generation of overall design (including calculations and modeling) and the project schedule. Pivotal personnel were retained by the City of New Orleans for the design of Wright Road located in New Orleans East. The project entailed the design of a new roadway section, subsurface sewer, water and drainage facilities, the relocation of conflicting utilities, as well as the development of specifications and construction oversight. Pivotal engineering staff has also been required to provide public coordination, agency approvals, oversee contractor compliance, and represent the Owner at various public meetings.</p>

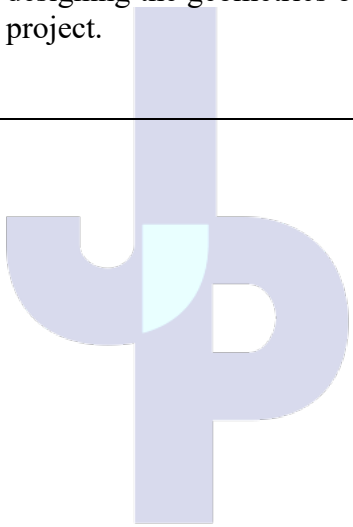
## **TEC Professional Services Questionnaire**

### **RR016 BW Cooper Gert Town Dixon Group C; New Orleans, LA**

Mr. Marcelin is the senior engineer for this project. He is tasked with the completing above and below ground design of the restoration of approximately nine (9) blocks (3,245 ft) in the neighborhood of B.W. Cooper, Gert Town and Dixon. This design includes the horizontal and vertical roadway alignment and right-of-way design complete with new drainage structures based on an updated more resilient analysis procedure, limited waterline and sewer line replacement, and Sidewalk and ADA ramp layout. His work also required coordination and compatibility with adjacent active and future construction projects.


### **RR076 Lake Vista Group D; New Orleans, LA**

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



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State of Louisiana

## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Bryan B. Smith, PE; Environmental Engineer</b>
<b>Project Assignment:</b>
<b>Project Engineer</b>
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
4
<b>Education: Degree(s)/Year/Specialization:</b>
<b>BS / 2011 / Environmental Engineering</b>
<b>MS / 2014 / Civil and Environmental Engineering</b>
<b>Active registration: Year first registered/discipline:</b>
<b>2015 / Environmental / PE # 43843</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Smith serves as a senior environmental engineer and construction manager with Pivotal Engineering. Mr. Smith has more than eight (8) years of experience with the public works and environmental project types, including the design of subsurface utilities and roadways. He is well-rounded in technical approaches for the design, site inspection and coordination of municipal infrastructure projects.</p> <p>Additionally, he is well established in both state and federal regulations for water quality, NPDES compliance and SWPPP preparation. His projects include both public and private sector that require his time in both the office and the field.</p>
<b>Experience includes:</b>
<b><u>France Road North; New Orleans, LA</u></b>
For this project, Mr. Smith assisted with the scoping phase, including site documentation, identification of critical improvements and determination of the extent of drainage/roadway modifications. Pivotal performed design & construction administration services for France Rd. The project included 1.5 miles of full roadway reconstruction design. The scope of this project was to remove and replace roadway & drainage improvements.
<b><u>Plum Orchard -West Lake Forest Group B (New Orleans, LA</u></b>
Mr. Smith performed the design services for the RR3 Plum Orchard/West Lake Forest Group B project. Scope of work included photographic documentation of existing conditions, FEMA-eligible repairs and additional repairs for considerations as well as designing eligible improvements in AutoCAD Civil3d. Additional tasks included revisions to drawings for adherence to CNO, SWBNO and FEMA guidelines.
<b><u>Bonnabel Bike Path; Jefferson Parish, LA</u></b>
Mr. Smith performed scoping phase services for the Bonnabel Bike Path project. As this project was developed to increase community access to quality-of-life resources (Lake Pontchartrain as well as nearby open-space

## **TEC Professional Services Questionnaire**

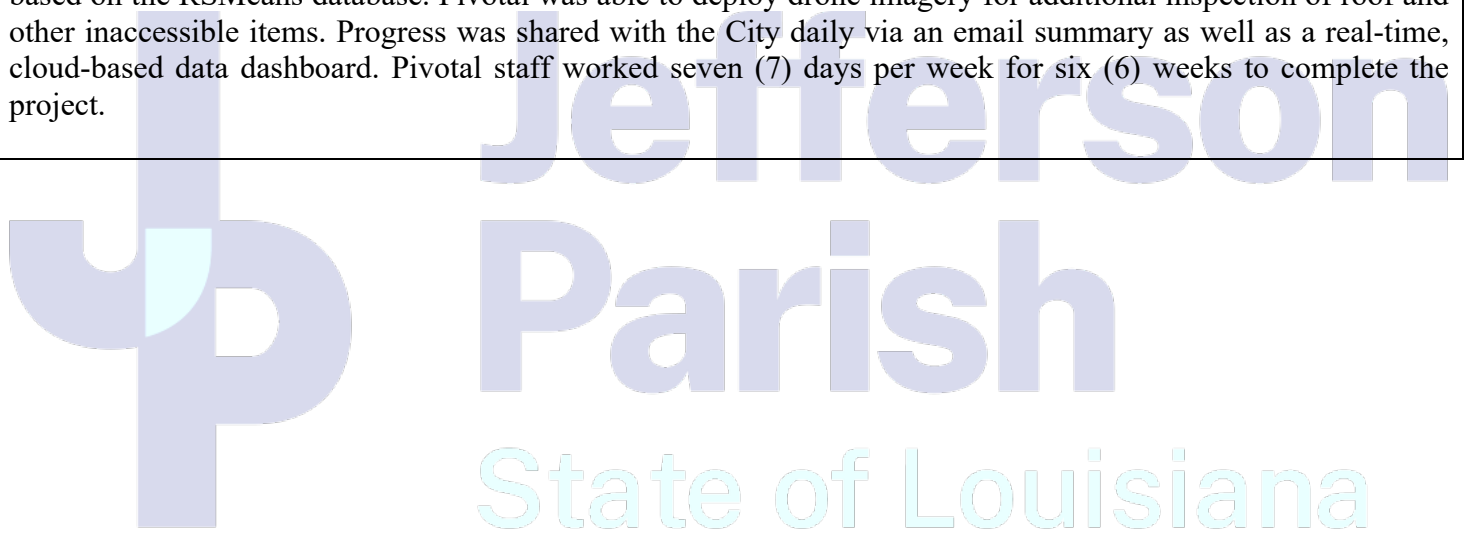
places), maximum attention was given to the configuration of the bike path along Bonnabel Street. Existing trees were integrated into the design as well as standard traffic control devices.

### **Water Effectiveness in Broadmoor; New Orleans, LA**


For this project, Mr. Smith reviewed the design drawings, managed geotechnical soil investigation and performed water quality testing for on-site, pre-construction conditions. His knowledge of green infrastructure design, water quality requirements for such installations and generation construction experienced allowed him to positively impact the project and ensure that the tasks were completed on time.

### **City of New Orleans Hurricane Ida Emergency Status Damage Assessments, New Orleans, LA**

In the wake of Hurricane Ida (August 2021), Pivotal Engineering was retained by City of New Orleans to perform emergency status damage assessments and repair cost estimates for each of their 416 facilities. Facility types included administrative buildings, recreation centers, parks, playgrounds, life safety stations and other types. Pivotal developed a comprehensive, GIS-based logistical framework for efficient staff management and planning. Due to the constant communication with the teams and client, Pivotal was able to make changes to priority locations within the day. Pivotal used a team of dedicated cost estimators to perform all cost estimates, based on the RSMeans database. Pivotal was able to deploy drone imagery for additional inspection of roof and other inaccessible items. Progress was shared with the City daily via an email summary as well as a real-time, cloud-based data dashboard. Pivotal staff worked seven (7) days per week for six (6) weeks to complete the project.




## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Kepal Patel, EI; Electrical Project Engineer</b>
<b>Project Assignment:</b>
<b>Electrical Designer</b>
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
<b>2</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>BS Electrical Engineering 2019</b>
<b>Active registration: Year first registered/discipline:</b>
<b>2019 LA EI # 0034453</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Patel serves as an electrical/roadway designer for Pivotal Engineering. Mr. Patel designing experience includes CADD work, generally to show the pole location, laying out circuit design from the power source to individual poles, type of foundation used, type of fixture used and include its specifications. Currently, he is working on several JP streetlight projects and his role requires voltage drop calculations, conduit sizes, wire sizes, grounding and bonding etc. and thus determine what kind of electrical components would be required for the installations.</p>
<b>Experience includes:</b>
<p><u><b>Planters Drainage Pump Station; Jefferson Parish</b></u></p> <p>Mr. Patel serves as an electrical/roadway designer for this project. Pivotal Engineering is retained by Jefferson Parish to provide engineering services for the Planters Pump Station Improvements project. The scope of engineering services 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.</p>
<p><u><b>Wright Road Improvements; New Orleans, LA</b></u></p> <p>Mr. Patel serves as an electrical/roadway designer. Pivotal personnel were retained by the City of New Orleans for the design of Wright Road located in New Orleans East. The project entailed the design of a new roadway section, subsurface sewer, water and drainage facilities, the relocation of conflicting utilities, as well as the development of specifications and construction oversight. Pivotal engineering staff has also been required to provide public coordination, agency approvals, oversee contractor compliance, and represent the Owner at various public meetings.</p>
<p><u><b>Cousins Blvd Extension</b></u></p> <p>Mr. Patel serves as an electrical/roadway designer for this project.</p>



## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Eliot Guerin, EI; Civil Project Engineer</b>
<b>Project Assignment:</b>
<b>Project Engineer</b>
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
<b>3</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>2018 / E.I. Civil Engineering</b>
<b>Active registration: Year first registered/discipline:</b>
<b>E.I. TX</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Guerin is a civil designer with over three (3) years of experience at Pivotal Engineering. Throughout this time, he has focused on design of roadways, sanitary sewer systems and storm drainage collection systems (including applicable green infrastructure components) More specifically, he is well-established in traffic analyses, pavement structural design, use of geosynthetics, geometric design, line and grade analyses, pavement marking, intersection improvements, pedestrian and bicycle lanes or paths, excavation and embankment, traffic, drainage/storm water management, water and wastewater, and landfills. He is a very competent design engineer with strong skillset in hydraulic &amp; hydrologic modeling and AutoCAD Civil 3D.</p>
<b>Experience includes:</b>
<p><b><u>Pritchard Road Extension</u></b></p> <p>Mr. Guerin serves as a civil designer for this project. Pivotal Engineering is retained by Jefferson Parish to design roadway reconstruction and extension of Pritchard Road. The project scope includes the following:</p> <ul style="list-style-type: none"><li>• Removal and replacement of existing 20 ft wide concrete roadway with 26 ft wide roadway and extend 130 ft to connect Pritchard Road to Sprig Street.</li><li>• Removal and replacement of existing drainage piping. The design of drainage pipe networks is completed for a 10 years storm period using LADOTD drainage software.</li><li>• Relocation of existing street side ditch with a new ditch and box culvert. Drainage ditch, box culvert and junction box designed for 10 years storm period.</li><li>• Offset existing 10" and 18" SFM both vertically and horizontally.</li></ul>
<p><b><u>Drainage Improvements to 14<sup>th</sup> Street; Jefferson Parish, LA</u></b></p> <p>Mr. Guerin serves as a civil designer for this project. Overall, the project goal is to improve the drainage network along 14th Street. Project scope items include the following: construction of new sidewalks and ADA ramps, replacement of pavement and driveways, adjustment of required sewer connections, adjustment of identified water lines and the construction of a new outfall for the canal.</p>



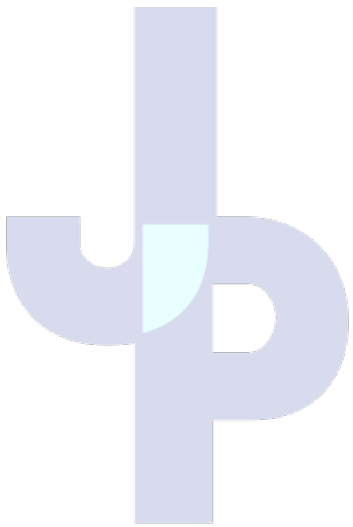
## **TEC Professional Services Questionnaire**

### **Wright Road Improvements; New Orleans, LA**

Mr. Guerin serves as a civil designer for this project. The project includes removing the existing street, drainage and sewer structures and designing new alignment and profile, drainage and sewer structures. He was responsible for designing horizontal and vertical roadway alignment, drainage collection systems, water line replacements, sewer line replacements, geometrics of the streets as well as preparing both capital cost estimates and construction documents.

### **RR 016-019 Improvements**

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



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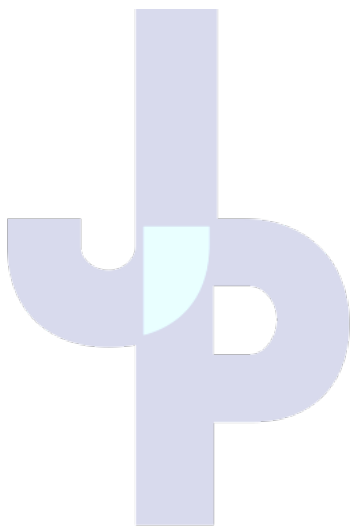
## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Javier Rondan Zambra, EI; Project Engineer</b>
<b>Project Assignment:</b>
<b>Civil Designer</b>
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
<b>1</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>M.S. Civil Engineering - 2021</b>
<b>B.S. Civil Engineering - 2018</b>
<b>Active registration: Year first registered/discipline:</b>
<b>LA EI #035205 / 2022 / Civil</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>Mr. Rondan serves as a civil project engineer with over two (2) years of experience in the transportation sector with a special focus on highway design, construction, and maintenance. He is knowledgeable in traffic engineering design and operation. He is well versed in construction scheduling, means &amp; methods for utility installations and green infrastructure integration.</p>
<b>Experience includes:</b>
<p><b><u>14th Street Drainage Improvements; Jefferson Parish, LA</u></b></p> <p>Mr. Rondan's involvement in this project consists of plan drafting, quantities estimation, cost estimation and documentation for project submittal. Overall, the project goal was to improve the drainage network along 14th Street. Project scope items include the following: construction of new sidewalks and ADA ramps, replacement of pavement and driveways, adjustment of required sewer connections, adjustment of identified water lines and the construction of a new outfall for the canal.</p>
<p><b><u>Wright Road Improvements; New Orleans, LA</u></b></p> <p>Mr. Rondan's involvement in this project consists of plan drafting, quantities estimation, cost estimation and documentation for project submittal. Pivotal personnel were retained by the City of New Orleans for the design of Wright Road located in New Orleans East. The project entailed the design of a new roadway section, subsurface sewer, water and drainage facilities, the relocation of conflicting utilities, as well as the development of specifications and construction oversight. Pivotal engineering staff has also been required to provide public coordination, agency approvals, oversee contractor compliance, and represent the Owner at various public meetings.</p>
<p><b><u>Smith &amp; Toulouse Lift Station Upgrades; Jefferson Parish, LA</u></b></p> <p>This project consists of abandonment of existing dry well and retrofit of existing wet well, construction of new</p>

## **TEC Professional Services Questionnaire**

wet well, valve pit, and force main bypass, and installation of new sewer and pipes and sewer force main, as well as removal and replacement of asphalt roadway with concrete roadway, and drainage improvements. Mr. Rondan's responsibilities include plan drafting, budget and quantities estimation, and documentation for project submittal.



**Jefferson  
Parish**  
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## TEC Professional Services Questionnaire

<b>KEY PERSON, SPECIALIST, OR INDIVIDUAL CONSULTANT:</b>
<b>Name &amp; Title:</b>
<b>Irish Jones; Sr. Electrical Designer</b>
<b>Project Assignment:</b>
<b>Electrical Designer</b>
<b>Name of Firm with which associated:</b>

<b>Years' experience with this Firm:</b>
<b>8</b>
<b>Education: Degree(s)/Year/Specialization:</b>
<b>5 years of college in Electrical Engineering – University of Texas at Arlington</b>
<b>Active registration: Year first registered/discipline:</b>
<b>n/a</b>
<b>Other experience and qualifications relevant to the proposed Project:</b>
<p>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.</p>
<b>Experience includes:</b>
<p><b><u>Planters Drainage Pump Station</u></b></p> <p>Mr. Jones serves as the senior electrical engineer for this project. Pivotal Engineering is retained by Jefferson Parish to provide engineering services for the Planters Pump Station Improvements project. The scope of engineering services 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.</p>
<p><b><u>N. Arnoult Drainage Pump Station Improvements; Jefferson Parish, LA</u></b></p> <p>Mr. Jones serves as the senior electrical engineer for this project. Pivotal is retained by Jefferson Parish under a prime consultant of Hartman Engineering, Inc for a design and construction management of N. Arnoult Drainage Pump Station Improvements. The scope of the project includes the demolishing of existing building, replacing 2 existing vertical turbine pumps with 2 new 25 HP pumps, replacing existing pump control with VFD, ATS and associated electrical upgrades, SCADA, and replacing 100KW diesel generator with sound enclosures and fuel tank.</p>

## TEC Professional Services Questionnaire

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

### PROJECT NO. 1

**Project Name, Location and Owner's contact information:**

**Nature of Firm's Responsibility:**

**JP Public Works Warehouse  
Jefferson Parish, LA**

Jefferson Parish Dept. of  
Engineering  
1221 Elmwood Park Blvd., Suite 802  
Jefferson, LA 70123  
(504) 736-6505

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.



**Completion Date (Actual or estimated):**

**Estimated Cost:**

**Entire Project:**


**Work for which Firm was Responsible:**

2018

\$5,000,000

\$1,500,000

## 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 style="text-align: center;"><b>Joe W. Brown Memorial Recreational Facility New Orleans, LA</b></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: 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.</p> <div style="text-align: center; margin-top: 20px;">  </div>					
<p><b>Completion Date (Actual or estimated):</b></p>	<p style="text-align: center;"><b>Estimated Cost:</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th style="width: 35%; padding: 5px;"><b>Entire Project:</b></th> <th style="width: 65%; padding: 5px;"><b>Work for which Firm was Responsible:</b></th> </tr> <tr> <td style="text-align: center; padding: 10px;">2013</td> <td style="text-align: center; padding: 10px;"> <div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">\$5,000,000</div> <div style="width: 45%;">\$2,000,000</div> </div> </td> </tr> </table>		<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>	2013	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">\$5,000,000</div> <div style="width: 45%;">\$2,000,000</div> </div>
<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>					
2013	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;">\$5,000,000</div> <div style="width: 45%;">\$2,000,000</div> </div>					

## TEC Professional Services Questionnaire

<b>PROJECT NO. 3</b>		
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility</b>	
<p><b>Planters Pump Station Improvements</b>  <b>Jefferson Parish, LA</b></p> <p>Neil Schneider            Jefferson Parish, Capital Projects            1221 Yenni Building, Suite 906            Jefferson, LA 70123            (504) 736-6833</p>	<p>Pivotal Engineering is retained by Jefferson Parish to provide engineering services for the Planters Pump Station Improvements project. The scope of engineering services 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.</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>
2021	\$533,552	\$533,552




## 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 style="text-align: center;"><b>Ames (Collins Elementary) Montessori School Jefferson Parish, LA</b></p> <p>Jefferson Parish School Board Scott Adams (504) 349 8595</p>	<p>Our engineers 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, 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> <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	\$5,000,000	\$ 800,000



## 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><b>Lincoln Elementary School for the Arts New School Design</b>  <b>Jefferson Parish, LA</b>  Jefferson Parish School Board  Scott Adams  (504) 349-8595</p>	<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. 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> <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	\$18,000,000	\$6,000,000

## 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><b>Engineers Canal Pump Station Improvement (Norco)</b>  <b>St. Charles Parish, LA</b></p> <p>St. Charles Parish Government  15045 River Rd.  Hahnville, LA 70057  (985) 783-5102</p>	<p>The proposed Engineer's Canal Pump Station Capacity Increase project consists of the installation of a new pump in an open bay of the pump station platform. The 200-horse power electric motor pump will be a 26" submersible pump that will add an additional 28,000 GPM of flow capacity. A new 26" discharge pipe will be installed over the levee and will be approximately 286' in length. The concrete blocks along the side of the levee will be extended approximately 3' to anchor the new discharge pipe. A concrete box and slab extension will be required for the crown of the levee for the vehicle ramp. The proposed project also includes the removal of the existing generator to install a larger generator that will service the existing and new pumps. With an increase in pumping capacity added, St. Charles Parish expects to see a reduction of flooding in the watershed area.</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>
2019	\$1,600,000	\$423,000

## 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><b>Des Allemandes Pump Station</b>  <b>Jefferson Parish, LA</b></p> <p>Mark Drews, P.E.            Director- Engineering            Jefferson Parish            1221 Elmwood Park Blvd., Suite 802            Jefferson, LA 70123            (504) 736-6000</p>	<p>Pivotal was retained by Jefferson Parish to provide engineering services for the Des Allemandes Pump Station project. The project is to demolish the existing "Des Allemandes Pump Station" and replace it with a new structure and pump. Pivotal is responsible for the following mechanical and electrical scope of services:</p> <ul style="list-style-type: none"> <li>Design fuel system, fuel piping, and fuel pump;</li> <li>Design automatic operating control panel with battery back-up;</li> <li>Design float system;</li> <li>Design site electrical and lighting plan;</li> <li>Design air release valves;</li> <li>Provide pump curve, system curve, and operating condition analysis;</li> <li>Provide pump and engine specifications; and</li> <li>QA/QC of pump and engine submittal.</li> </ul>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2020	\$14,500.00	\$14,500.00


## TEC Professional Services Questionnaire

<b>PROJECT NO. 8</b>																				
<b>Project Name, Location and Owner's contact information:</b>	<b>Nature of Firm's Responsibility:</b>																			
<p><b>Evaluation and Design of Drainage Pump Stations at various locations in the Jefferson Parish</b></p> <p>Jefferson Parish Drainage Department 1221 Yenni Building, Suite 907 Jefferson Parish, LA 504-736-6753</p>	<p><i>Electrical Evaluation and Design of Drainage Pump Stations at various locations</i></p> <table border="1" style="margin: 20px auto; width: 80%; border-collapse: collapse;"> <thead> <tr> <th style="padding: 5px;">Drainage Pump Station Name</th> <th style="padding: 5px;">No. of Pumps</th> </tr> </thead> <tbody> <tr><td style="padding: 5px;">Marian/Gilmore</td><td style="padding: 5px;">1</td></tr> <tr><td style="padding: 5px;">Earhart</td><td style="padding: 5px;">1</td></tr> <tr><td style="padding: 5px;">Northwest</td><td style="padding: 5px;">2</td></tr> <tr><td style="padding: 5px;">Magnolia</td><td style="padding: 5px;">2</td></tr> <tr><td style="padding: 5px;">Northeast</td><td style="padding: 5px;">1</td></tr> <tr><td style="padding: 5px;">Southwest</td><td style="padding: 5px;">1</td></tr> <tr><td style="padding: 5px;">Northline</td><td style="padding: 5px;">1</td></tr> <tr><td style="padding: 5px;">Wassau</td><td style="padding: 5px;">1</td></tr> </tbody> </table>		Drainage Pump Station Name	No. of Pumps	Marian/Gilmore	1	Earhart	1	Northwest	2	Magnolia	2	Northeast	1	Southwest	1	Northline	1	Wassau	1
Drainage Pump Station Name	No. of Pumps																			
Marian/Gilmore	1																			
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<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>																			
TBD	<div style="display: flex; justify-content: space-between;"> <span>\$1,000,000</span> <span>\$1,000,000</span> </div>																			

## 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><b>14th Street Drainage Improvements Jefferson Parish, LA</b></p> <p>Jefferson Parish, Capital Projects Director 1221 Elmwood Park Blvd., Suite 906 Jefferson, LA 70123 (504) 736-6833</p>	<p>Pivotal was retained by Jefferson Parish to provide preliminary and final design phase services for construction plan preparation and construction administration. The major scope of the improvement will include the following:</p> <ol style="list-style-type: none"> <li>1. As requested by the parish the project scope will extend a 36" down Avenue D to Leo Street as shown in sketch attached. The 36" will tie into the already proposed line to be installed on 14th. We have also added 2-24" to connect Avenue C to 14th street for future continuation. (see Attachment C for the schematic locations of the new drainage system.</li> <li>2. All catch basins to be replaced</li> <li>3. Existing drain line is off of street and new line will be placed off of street</li> <li>4. No lateral pipes Crossing Street on Avenue D.</li> <li>5. Utility conflicts will be addressed. Engineer will contact private companies for their utility locations.</li> </ol>	
<b>Completion Date (Actual or estimated):</b>	<b>Estimated Cost:</b>	
	<b>Entire Project:</b>	<b>Work for which Firm was Responsible:</b>
2020	\$1.6M	\$27,527

## 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><b>France Rd. North Paving &amp; Drainage Improvements, New Orleans, LA</b></p> <p>Port of New Orleans 1350 Port of New Orleans Place New Orleans, LA 70130 504-528-2551</p>	<p>Pivotal performed design &amp; construction administration services for France Rd. The project included 1.5 miles of full roadway reconstruction design. The scope of this project is to remove and replace roadway &amp; drainage improvements.</p> <p>The execution and delivery of this project demonstrates that Pivotal engineer's expertise on the following required criteria of specialized experience and technical competence:</p> <p>Louisiana Standards for Roads &amp; Bridges FHWA, AASHTO, ADA and other Federal, States, &amp; Local Public Works requirements Performance history, competency, responsiveness, cost control, work quality and the ability to meet schedules and deadlines.</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>
2020	\$114,000	\$114,000

## **TEC Professional Services Questionnaire**

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

<b>Parties:</b>		<b>Status/Result of Case:</b>
<b>Plaintiff:</b>	<b>Defendant:</b>	
1. N/A	N/A	There are no prior/on-going litigations between Pivotal Engineering, LLC & Jefferson Parish.
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.



## **TEC Professional Services Questionnaire**

### **Required Personnel/Required Firm Qualifications**

**The person or firm submitting a Statement of Qualifications shall have the following minimum qualifications:**

**The persons or firms under consideration shall have at least one (1) principal who is a licensed, registered professional engineer in the State of Louisiana. A subcontractor may not be used to meet this requirement. (Section C. of TEC Professional Services Questionnaire);**

Avinash Mehta, PE

LA PE # 35100 Civil Engineering

**The persons or firms under consideration shall have a professional in charge of the Project who is a licensed, registered professional mechanical or electrical engineer in the State of Louisiana with a minimum of five (5) years' experience (Section K. "PROFESSIONAL IN CHARGE OF PROJECT:" of TEC Professional Services Questionnaire)**

Bassam Mekari, PE

LA PE # 31801 Electrical Engineering

**The persons or firms under consideration shall have one (1) employee who is a licensed, registered professional mechanical or electrical 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 (Section D. of TEC Professional Services Questionnaire).**

James Amodeo, PE

LA PE# 36489 Mechanical Engineering

### **Evaluation Criteria**

#### **1) Professional training and experience in relation to the type of work required for the 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



## **TEC Professional Services Questionnaire**

- 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.

### **2) Size of firm, considering the number of professional and support personnel required to perform the type of engineering tasks**

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

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

## **TEC Professional Services Questionnaire**

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:

- Provide meaningful and early input to address concerns and impacts.
- Identify issues that could substantially delay or prevent granting of permits/approvals.
- Identify opportunities for collaboration, including participating in coordination meetings and joint field reviews, as appropriate.
- 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:

- Identify the Team's roles that are most important to the project.
- Consider interests and seek involvement of select additional parties, such as agency official(s), local utility companies, and other stakeholders.
- Define in a mutually understandable fashion the values, goals, interests and objectives of the project to the larger program goals.
- 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.
- 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 Parish contracts**

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,

## **TEC Professional Services Questionnaire**

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 list of the team's relevant experience:

- Westwego No.1 Pump Station Improvements; Jefferson Parish, LA
- N. Arnoult Drainage Pump Station Improvements; Jefferson Parish, LA
- Planters Pump Station Improvements; Jefferson Parish, LA
- Oak Street Pump Station Improvements; St Charles Parish, LA
- Hero Pump Station; Jefferson Parish, LA
- Engineers Canal Pump Station Improvements (Norco); St Charles Parish, LA
- Des Allemandes, Pump Station; Jefferson Parish, LA
- Evaluation & Design of Drainage Pump Stations at various locations in Jefferson Parish, LA
- 14th Street Drainage Improvements; Jefferson, LA

### **5) Location of the principal office**

Pivotal Engineering, LLC has an office 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, excluding those instances or cases where the person or firm was added as an indispensable party, or where the person or firm participated in or assisted the public entity in prosecution of its claim**

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

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

- Nguyen Phan, P.E., Chief Engineer City of New Orleans DPW. (504) 658-8000, nphan@nola.gov
- Khalid L. Saleh, Ph.D, Senior Design Engineer, City Of New Orleans DPW, (504) 658-8208, ksaleh@nola.gov
- Neil Schneider, CCM, P.E. Director of Capital Projects, Jefferson Parish Department of Capital Projects (504) 736-6833, nschneider@jeffparish.net
- Mike Lockwood, Director of Sewerage, Jefferson Parish Department of Sewer (504) 736-6661, mlockwood@jeffparish.net

## **TEC Professional Services Questionnaire**

- Mark Drewes, PE; Director of Public Works, Jefferson parish, Department of Public Works, (504) 736-6783, [mdrewes@jeffparish.net](mailto:mdrewes@jeffparish.net)
- Angela DeSoto, PE; Director of Engineering; Jefferson Parish, Department of Engineering, (504) 736-6500, [adesoto@jeffparish.net](mailto:adesoto@jeffparish.net)
- Myra Alexis-Valentine, Grants Administer, St. John Parish, (985) 652-9569, [m.alexisv@stjohn-la.gov](mailto:m.alexisv@stjohn-la.gov)
- Jean Todd, Contracting Officer, US Army Corps of Engineers, (901) 828 – 1503, [jean.f.todd@usace.army.mil](mailto:jean.f.todd@usace.army.mil)
- Wes Wyche; Director of Public Works; City of Shreveport; (318) 673-6000, [Wes.Wyche@shreveportla.gov](mailto:Wes.Wyche@shreveportla.gov)
- Christopher Racca; Environmental Protection Manager; Waste Management; (225) 637-2385, [cracca@wm.com](mailto:cracca@wm.com)



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

**Signature:**  **Print Name:** Avinash Mehta, PE

**Title:** President/Principal-In-Charge **Date:** 3/30/2023

## **Attachment A**

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### **Pivotal Engineering SOQ Packet**

# Section 1 - Introduction

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

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

- Civil Engineering
- Environmental Engineering
- Coastal Restoration
- Transportation Engineering
- Architectural Engineering
- Structural Engineering
- Mechanical Engineering
- Electrical Engineering
- Geotechnical Engineering & Testing
- Data Collection
- Data Management
- Data Analytics & Visualization
- Construction Management
- Construction Inspection

Under these disciplines, each team member brings strong technical skills not only in the fundamental of engineering design, but in the latest trends, approaches and software needed for modern solutions. Our team’s capabilities will provide Jefferson Parish with the most effective and efficient approach for providing high quality services.

As guiding values, our team strives for open communication and continual improvement. With each project, internal processes and methodologies are revised to ensure that planning, design and decision-

making conversations are facilitated with efficiency and effectiveness. Each concept is vetted with considerations for innovation, resiliency, added value and technical feasibility. Engineering design must encompass classical theory, industry standards, modern technology and a touch of revolution.

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

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

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

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

Our aim is to provide local talent combined with industry subject matter experts who can guide Jefferson Parish to the optimal solution and manage the implementation to a successful outcome.

# Organizational Chart

**Jefferson Parish**

**PIVOTAL ENGINEERING LLC**  
New Orleans, LA

**Avinash Mehta, PE**  
Principal-in-Charge

**PROJECT MANAGER**

Yoseph Shifare, PE, PTOE

**Mechanical/Electrical/  
Plumbing**

Bassam Mekari, PE  
James Amodeo, PE  
Kepal Patel, EI  
Irish Jones

**Civil/Environmental**

Terry Elnaggar, PE  
Sundiata Marcelin, PE  
Bryan B. Smith, PE  
Eliot Guerin, EI  
Javier Rondan Zambra, EI

**Construction/Inspection**

Darius Cook  
James Seal  
Bealu Shumbeza  
Charles Earls  
Richard Baudier  
Stephen Bobeck  
Warren Braai  
Kolbe Dupuis  
Stacy Baldwin  
Jahvon Young  
Melvin Ukaegbu



## **Section 3 - Team Profile & Experience**

### **3.1 Team Profile**

#### **3.1.1 Pivotal Engineering, LLC**

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

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

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

Pivotal is a certified Small Business Enterprise with both the Small Business Administration and the New Orleans Regional Transit Authority. Furthermore, Pivotal is a Disadvantaged Business Enterprise with

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

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

### **3.2 Experience with similar projects:**

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

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

#### **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.

## **Joe W. Brown Memorial Recreational Facility New Orleans, LA**

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

Our 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.

## **Planters Pump Station Improvements Jefferson Parish, LA**

Pivotal Engineering is retained by Jefferson Parish to provide engineering services for the Planters Pump Station Improvements project. The scope of engineering services 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.

## **Ames (Collins Elementary) Montessori School Jefferson Parish, LA**

Our engineers 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, Pivotal's MEP project manager and asked him if he can look into this issue and resolve it. Mr. Mekari then discovered that the original Civil Engineer bid set showed a 6" underground Fire Line however, his permit set was modified to an 8" Fire Line as demanded by the Parish. Not only the change order was very costly but it was going to delay the school from opening on time which can cause a huge logistical problem to the board.

Pivotal's 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.

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.

## **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

### **Engineers Canal Pump Station Improvement (Norco) St. Charles Parish, LA**

The proposed Engineer's Canal Pump Station Capacity Increase project consists of the installation of a new pump in an open bay of the pump station platform. The 200-horse power electric motor pump will be a 26" submersible pump that will add an additional 28,000 GPM of flow capacity. A new 26" discharge pipe will be installed over the levee and will be approximately 286' in length. The concrete blocks along the side of the levee will be extended approximately 3' to anchor the new discharge pipe. A concrete box and slab extension will be required for the crown of the levee for the vehicle ramp. The proposed project also includes the removal of the existing generator to install a larger generator that will service the existing and new pumps. With an increase in pumping capacity added, St. Charles Parish expects to see a reduction of flooding in the watershed area.

### **Des Allemandes Pump Station Jefferson Parish, LA**

Pivotal was retained by Jefferson Parish to provide engineering services for the Des Allemandes Pump Station project. The project is to demolish the existing "Des Allemandes Pump Station" and replace it with a new structure and pump. Pivotal is responsible for the following mechanical and electrical scope of services:

- Design fuel system, fuel piping, and fuel pump;
- Design automatic operating control panel with battery back-up;
- Design float system;
- Design site electrical and lighting plan;
- Design air release valves;
- Provide pump curve, system curve, and operating condition analysis;
- Provide pump and engine specifications; and
- QA/QC of pump and engine submittal.

### **14th Street Drainage Improvements Jefferson Parish, LA**

Pivotal was retained by Jefferson Parish to provide preliminary and final design phase services for construction plan preparation and construction administration. The major scope of the improvement will include the following:

1. As requested by the parish the project scope will extend a 36" down Avenue D to Leo Street as shown in sketch attached. The 36" will tie into the already proposed line to be installed on 14th. We have also added 2-24" to connect Avenue C to 14th street for future continuation. (see Attachment C for the schematic locations of the new drainage system.
2. All catch basins to be replaced
3. Existing drain line is off of street and new line will be placed off of street
4. No lateral pipes Crossing Street on Avenue D.
5. Utility conflicts will be addressed. Engineer

will contact private companies for their utility locations.

## **France Rd. North Paving & Drainage Improvements, New Orleans, LA**

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

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

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

## **Personnel Qualifications**

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

### **Professional In Charge**

#### **Bassam Rossi Mekari, PE**

**Principal In Charge/ Senior Electrical Engineer**

#### **Education**

BS, Electrical Engineering, Louisiana State University 1987

MS in Electrical Engineering - 3 hours remaining

#### **Professional Associations**

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

#### **Experience**

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

### **Principal/Client Relations**

#### **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 18 years of experience managing civil and environmental engineering projects including project budget, schedule and scope, coordination of resources, business development and client liaison activities. His experience includes the project management for A&E projects, process and design, civil engineering, water and wastewater engineering, drainage design and permitting, wastewater system design, potable water



system design, conceptual planning, and design for coastal restoration projects.

## **Project Manager**

**Yoseph Shifare, PE, PTOE**  
**Project Manager/Sr. Civil Engineer**

### **Education**

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

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

### **Professional Associations**

LA PE # 42747 LA PTOE

### **Experience**

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

## **Mechanical/Electrical/ Plumbing Engineering**

**James Amodeo, PE**  
**Senior Mechanical Engineer**

### **Education**

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

### **Professional Associations**

Louisiana / Mechanical / 36489

Colorado / Mechanical / 36652

### **Experience**

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

**Kepal Patel, EI**  
**Electrical Engineer Intern**

### **Education**

B.S. Electrical Engineering/University of New Orleans

### **Professional Associations**

LA EI # 34453 / Electrical Engineering

### **Experience**

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

**Irish Jones**  
**Electrical Designer**

**Education**

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

**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.

**Civil/Environmental  
Engineering**

**Tarek Elnaggar, PE**  
**Senior Environmental Engineer**

**Education**

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

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

**Professional Associations**

Louisiana/Civil/Environmental  
Engineering/23832

Texas/Civil/Environmental  
Engineering/85089

Mississippi/Civil/Environmental  
Engineering/14839

**Experience**

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

**Sundiata Marcelin, PE**  
**Civil Engineer**

**Education**

BS. Civil Engineering

**Professional Associations**

LA PE # 38589

**Experience**

Mr. Marcelin has over 10 years of experience in both Civil and Structural Engineering as well as over 15 years of experience in Construction Management. This Civil Engineering experience includes complete



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

### **Bryan B. Smith, PE** **Environmental Engineer**

#### **Education**

MS / 2014 / Civil and Environmental Engineering

BS / 2011 / Environmental Engineering

#### **Professional Associations**

LA PE # 0043843/ 2019

#### **Experience**

Mr. Smith serves as a project engineer at Pivotal Engineering, LLC in support of civil and environmental engineering projects. His projects range from public to private sector and require effort in both the field and the office. He has experience in infrastructure design, project management, permitting, field sampling, flow rate testing and laboratory analysis.

### **Eliot Guerin, EI** **Civil Engineer Intern**

#### **Education**

B.S. / 201 / Civil Engineering

#### **Professional Associations**

2018 E.I./Civil Engineering

#### **Experience**

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

### **Javier Rondan Zambra** **Civil Designer**

#### **Education**

M.S. Civil Engineering - 2021

B.S. Civil Engineering - 2018

#### **Experience**

Mr. Rondan serves as a civil project engineer with over two (2) years of experience in the transportation sector with a special focus on highway design, construction, and maintenance. He is knowledgeable in traffic engineering design and operation. He is well versed in construction scheduling, means & methods for utility installations and green infrastructure integration.

## Section 5 - Understanding Project Goals

### Our Approach to Every Project

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

**GOAL 1 – SCHEDULE:** The team has the needed technical personnel to assure Jefferson Parish that all work will be performed in accordance to the contract scope of work and in strict conformance with the latest Codes, guidelines and standards. Our 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. Pivotal's current workload will allow for quick assignment of technical resources to the project at hand. In addition, the team has the required management and field personnel readily available to begin the necessary services upon written notification within 24-hours.

- **Accelerated Design Approach:** We will implement a “rolling” design process that allows the design to run concurrently with the approval required from various stakeholders. Once selected, and before NTP, we will develop a scoping plan to finalize roadway alignments. This will allow Jefferson Parish and other related departments to proceed quickly. Submission of smaller design packages will promote quicker review times and approvals.
- **Quality and Team Integration:** We will utilize stringent internal QA/QC procedures described in detail in Section 6 process to ensure that design and construction meets all the RFP requirements. Pivotal's approach will ensure that all stakeholders are involved in the process from start to finish, and that expectations are understood by all parties. Our 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. Our team will provide cell phone 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. With this, we have seen huge success as it relates to our client's reliance on us as their consultant of choice.

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

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

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

## **Section 6 - Approach to agency coordination and Quality Assurance/ Quality Control Plan**

### **6.1 Past Performance with Public Agencies**

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

- I. Nguyen Phan, P.E., Chief Engineer City of New Orleans DPW. (504) 658-8000, nphan@nola.gov
- II. Khalid L. Saleh, Ph.D, Senior Design Engineer, City Of New Orleans DPW, (504) 658-8208, ksaleh@nola.gov
- III. Neil Schneider, CCM, P.E. Director of Capital Projects, Jefferson Parish Department of Capital Projects (504) 736-6833, nschneider@jeffparish.net
- IV. Mike Lockwood, Director of Sewerage, Jefferson Parish Department of Sewer (504) 736-6661, mlockwood@jeffparish.net
- V. Mark Drewes, PE; Director of Public Works, Jefferson parish, Department of Public Works, (504) 736-6783, mdrewes@jeffparish.net
- VI. Angela DeSoto, PE; Director of Engineering; Jefferson Parish, Department of Engineering, (504) 736-6500, adesoto@jeffparish.net
- VII. Myra Alexis-Valentine, Grants Administer, St. John Parish, (985) 652-9569, m.alexisv@stjohn-la.gov
- VIII. Jean Todd, Contracting Officer, US Army Corps of Engineers, (901) 828 – 1503, jean.f.todd@usace.army.mil
- IX. Wes Wyche; Director of Public Works; City of Shreveport; (318) 673-6000, Wes.Wyche@shreveportla.gov
- X. Christopher Racca; Environmental Protection Manager; Waste Management; (225) 637-2385, cracca@wm.com

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

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

### **6.2 Approach and Resources for Successful Project Completion**

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

#### ***Approach to Agency Coordination:***

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

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

- a. Provide meaningful and early input to address concerns and impacts.
- b. Identify issues that could substantially delay or prevent granting of permits/approvals.
- c. Identify opportunities for collaboration, including participating in coordination meetings and joint field reviews, as appropriate.

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

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

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

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

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

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

Pivotal Engineering has worked closely with Jefferson Parish and other agencies throughout the state of Louisiana coordinating inputs from government agencies, stakeholders and community groups. The outreach was conducted through agencies collaboration meetings, workshops for stakeholders regarding design and management, and community meetings to disseminate the plan for community feedback. The team understands that making this process as extensive as

possible will help with community buy-in for project implementation. Pivotal Engineering acknowledges the meaningful role that a community has in project development and overall success and is committed to maintaining symbiotic relationships with communities throughout project life and beyond.

## **6.3 Quality Control & Quality Assurance Plan:**

As outlined in this Statement of Qualifications, the team not only presents the number of professional and support personnel available to perform these types of engineering tasks, but also demonstrates the breadth and diversity of the capabilities of the staff. Beyond this diversity of capabilities, the team's key personnel staff has combined experience of greater than 500 years of experience in all phases of project delivery, including survey, architectural, civil, geotechnical, mechanical, electrical, structural, environmental engineering, construction management, construction inspection and program/project management. These professional qualifications include city, state, and federal certifications in safety, management, and a list of other certifications.

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

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

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



commitment to meet them every day and with every deliverable. Each project review also includes some elements of internal value engineering. Our senior staff focuses not only on accuracy and completeness, but on value, optimization, simplicity, operations, maintenance, power cost, and constructability.

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

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

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

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

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

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

Pivotal Engineering's management team is comprised of experienced managers and task leaders with proven leadership, thoughtfully bringing together capable team members with exceptional technical skills, and supporting them with good QA/QC processes. Open

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

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

▪ ***Approach to Coordinating Project Delivery Tasks:***

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

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

- a. Identify the team's roles that are most important to the project.
- b. Consider interests and seek involvement of select additional parties, such as agency official(s), local utility companies, and other stakeholders.
- c. Define (in a mutually understandable fashion) the values, goals, interests and objectives of the project to the larger program goals.
- 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.

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**PIVOTAL ENGINEERING, LLC**

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