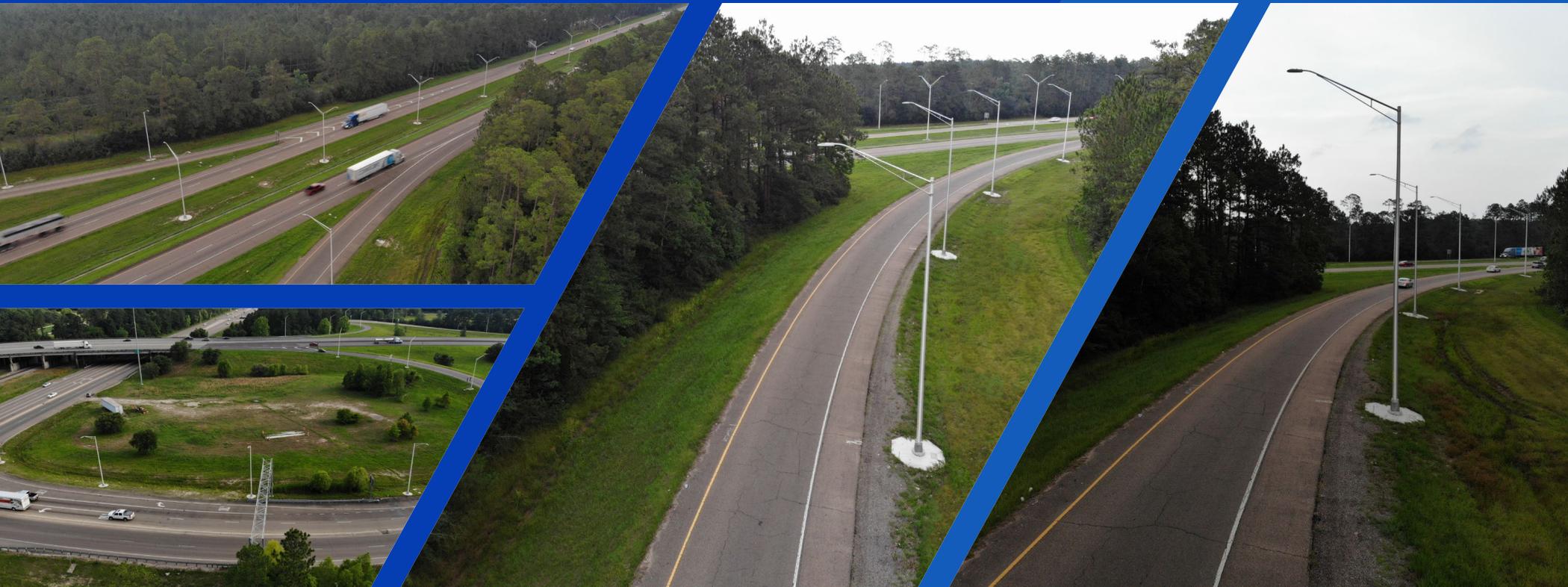


# Statement of Qualifications



CONTRACT NOS. 4400026073 AND 4400026074

# IDIQ CONTRACTS FOR ELECTRICAL SERVICES STATEWIDE



May 25, 2023



(Revised January 1, 2023)

# DOTD FORM: 24-102

## PROPOSAL TO PROVIDE CONSULTANT SERVICES

Prime consultant shall complete the DOTD Form 24-102 without altering the Form's text; however, the instruction and/or guidance for Sections 12 through 23 can be removed but do not remove Section title and number.

ANY CONSULTANT FAILING TO SUBMIT ANY OF THE INFORMATION REQUIRED ON THE DOTD FORM 24-102, OR PROVIDING INACCURATE INFORMATION ON THE DOTD FORM 24-102, MAY BE CONSIDERED NON-RESPONSIVE.

1. Contract Name as shown in the advertisement	<b>IDIQ CONTRACTS FOR ELECTRICAL SERVICES STATEWIDE</b>
2. Contract Number(s) as shown in the advertisement	4400026073 AND 4400026074
3. State Project Number(s), if shown in the advertisement	N/A
4. Prime consultant name (name must match as registered with the Louisiana Secretary of State where such registration is required by law)	<b>G.E.C., Inc.</b>
5. Prime consultant license number (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	EF.0001917
6. Prime consultant mailing address	8282 Goodwood Blvd., Baton Rouge, LA 70806
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	8282 Goodwood Blvd., Baton Rouge, LA 70806
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Cary Bourgeois, PE, Senior Vice President, (225) 612-4121, cbourgeois@gecinc.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Cary Bourgeois, PE, Senior Vice President, (225) 612-4121, cbourgeois@gecinc.com
10. This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response.	 <hr/> Signature above shall be the same person listed in Section 9:  <hr/> May 25, 2023 <hr/> Date:

Prime consultant should enter the firm name in the footer at the bottom of this page. (It will carry over to subsequent pages.)

**G.E.C., INC.**

11. If a Disadvantaged Business Enterprise (DBE) goal has been set for this advertisement, indicate which firm(s) will be used to meet the DBE goal and each firm(s)' percentage.

Firm(s):

**GOTECH, Inc.**

Firm(s)' %

**10%**

## 12. Past Performance Evaluation Discipline Table

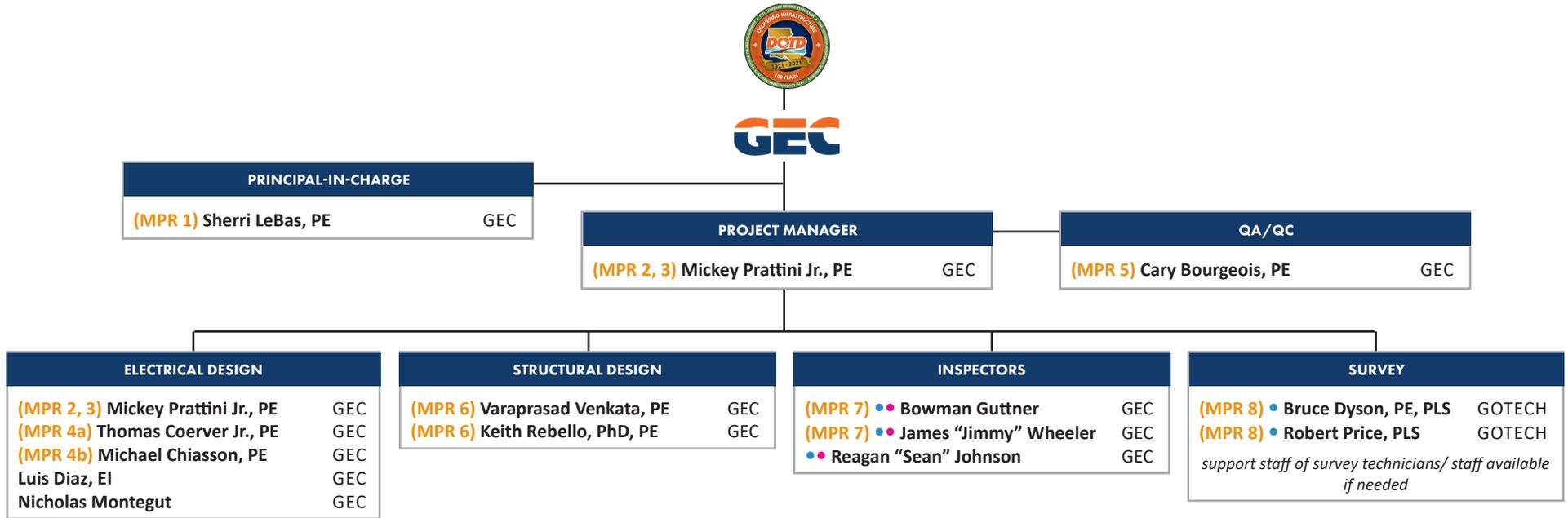
Past Performance Evaluation Discipline	% of Overall Contract	G.E.C., Inc. (GEC) (Prime)	DBE FIRM	Each Discipline must total to 100%
			GOTECH, Inc.	
Other (Electrical)	90%	100%		100%
Survey	10%		100%	100%
Identify the percentage of work for the <b>overall contract</b> to be performed by the prime consultant and each sub-consultant.				
Percent of Contract	100%	90%	10%	100%

## 13. Firm Size

Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
 <b>G.E.C., Inc.</b>	Principal	2	4
	Supervisor - Eng	1	10
	Engineer	4	11
	Engineer Intern	1	1
	Technician	2	2
	ITS Technician - Lead	2	2
 <b>GOTECH, Inc.</b>	Principal	1	1
	Engineer	2	6
	Engineer Intern	1	1
	Surveyor	1	2
	Party Chief	2	3

# 14. Organizational Chart

CONTRACT NOS. 4400026073 AND 4400026074  
 IDIQ Contracts for Electrical Services, Statewide



**LEGEND**

- (#) Fulfills MPR
- Work Zone Training
- NEC and NFPA 70E courses

## 15. Minimum Personnel Requirements

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/certification & number (Ex: PE # - Civil)	State of license	License / certification expiration date
1	Sherri LeBas, PE		PE No. 23844 (Civil & Environmental)	Louisiana	03/31/2025
2	Mickey Prattini Jr., PE		PE No. 35993 (Electrical & Computer)	Louisiana	03/31/2025
3	Mickey Prattini Jr., PE		PE No. 35993 (Electrical & Computer)	Louisiana	03/31/2025
4a	Thomas Coerver Jr., PE		PE No. 30722 (Electrical & Computer)	Louisiana	09/30/2023
4b	Michael Chiasson, PE		PE No. 17978 (Electrical)	Louisiana	09/30/2024
5	Cary Bourgeois, PE		PE No. 23414 (Civil)	Louisiana	09/30/2023
6	Varaprasad Venkata, PE		PE No. 40594 (Structural)	Louisiana	09/30/2024
	Keith Rebello, PhD, PE		PE No. 24937 (Civil)	Louisiana	03/31/2025
7	George "Bowman" Guttner		2021 NFPA 70E 2023 NFPA 70 (NEC)	-	-
	James "Jimmy" Wheeler		2021 NFPA 70E 2023 NFPA 70 (NEC)	-	-
8	Bruce Dyson, PE, PLS		PLS No. 4670	Louisiana	03/31/2024
	Robert Price, PLS		PLS No. 4889	Louisiana	03/31/2024

MPRS ARE TO BE MET BY SEPARATE INDIVIDUALS OF THE PRIME CONSULTANT, UNLESS STATED OTHERWISE BELOW.

MPR Nos. 1 through 3 may be met by the same person.

MPR No. 4a may be met by the individual(s) who meet MPR No. 2 or MPR No. 3.

MPR Nos. 5 through 8 may be satisfied through the use of a sub-consultant(s).

## 16. Staff Experience

### PERSONNEL RESUMES **Project Leadership**

Firm employed by <b>G.E.C., Inc.</b>	
Name	<b>Sherri LeBas, PE</b> <span style="float: right;">Years of relevant experience with this employer</span> <b>7</b>
Title	<b>Senior Vice President</b> <span style="float: right;">Years of relevant experience with other employer(s)</span> <b>30</b>
Degree(s) / Years / Specialization	<b>B.S. / 1985 / Civil Engineering</b>
Active registration number / state / expiration date	<b>23844 / Louisiana / 03-31-2025</b>
Year registered	<b>1990</b> <span style="margin-left: 20px;">Discipline</span> <b>Professional Engineer, Civil &amp; Environmental</b>
Contract role(s) / brief description of responsibilities	<b>Role on this Project: Principal in Charge</b>
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	<i>Ms. LeBas is a Senior Vice President of GEC. She is a professional civil engineer with 36 years of experience in designing and managing numerous projects and programs during her career in Louisiana state government and private industry. During her 24.5 years at the Louisiana Department of Transportation and Development (LADOTD), Ms. LeBas designed and managed projects for a combined 14 years in the Road Design Section which led to serving as a facilitator for the Change Management Program, Assistant to the Secretary for Policy, Deputy Secretary and then Secretary for 6 years from 2010 to 2016. From 1998 to 2003, Ms. LeBas managed projects funded through Capital Outlay at the Louisiana State Division of Administration, Facility Planning and Control. In May of 2016, Ms. LeBas brought her skills and experience to GEC providing services for LADOTD, City of Kenner, City of New Orleans, East Baton Rouge Parish and St. Tammany Parish. Ms. LeBas also meets with elected officials and other stakeholders discussing policy and resources required for infrastructure. Additionally, Ms. LeBas discusses opportunities for teaming with other consulting firms in order to present and provide a client with the best team possible to provide outstanding services and deliverables.</i>
09/20-Present	<b>H.004100 / I-10, LA 415 TO ESSEN LANE ON I-10 AND I-12: Baton Rouge, LA. Assistant Project Manager</b> - Ms. LeBas serves as Assistant Project Manager for this CMAR project, leading the development and annual updates of the Design Quality Manual, Project Management Plan, Initial Financial Plan, Project Implementation Plan and document control. Ms. LeBas is managing the Community Connections/ Context Sensitive Solutions process which includes meetings with stakeholders and public outreach. In addition, Ms. LeBas provides management oversight of the design elements being designed by GEC engineers which include lighting (roadway and enhancement), retaining wall, bridge, and noisewalls and coordination with roadway and overall design elements.
08/20-Present	<b>H.013897 / I-10 &amp; I-12 COLLEGE DRIVE FLYOVER RAMP DESIGN-BUILD: Baton Rouge, LA. Quality Design Manager</b> - Ms. LeBas is providing management of the quality design reviews for the GEC/Boh Bros. team. GEC is responsible for engineering design and quality reviews for roadway, drainage, bridge, noise walls, traffic management plans, intelligent transportation systems, and lighting.
2016-Present	<b>ROAD TRANSFER PROGRAM MANAGEMENT: Statewide, LA. Principal-in-Charge</b> - Ms. LeBas serves as a resource to GEC’s Program Manager of the LADOTD Road Transfer Program. Ms. LeBas provides feedback, is the direct link for communication and service between GEC’s Project Manager who is stationed at LADOTD Headquarters and GEC’s staff, and attends bi-monthly status meetings with the LADOTD Road Transfer Team.
03/10 – 01/16	<b>LADOTD: Baton Rouge, LA. Secretary</b> - Ms. LeBas set the vision & led LADOTD in the delivery of the \$1.8 B annual transportation infrastructure capital & operating program. She developed & discussed transportation policy, issues, feedback, future planning with stakeholders, media, citizens & local, state & national public & elected officials. She pursued & obtained funding working with state & federal officials. She has the skills and credentials to provide design guidance, work with staff to develop solutions to some of the most complicated design policy issues. Some notable projects that required Ms. LeBas’s leadership included the funding, design and construction of I-49 from I-220 to the Arkansas State line which included the 2019 ACEC Award Winning I-220/I-49 Interchange which included aesthetic features such as the locally designed column motifs and decorative lighting; LA 1 from Leesville to Fourchon TIFIA refinancing; D-B projects on I-12 in Livingston Parish; & two D-B Interchange projects on US 90 (Future I-49).

Firm employed by <b>G.E.C., Inc.</b>			
Name	<b>Mickey Prattini Jr., PE, CBCP</b>	Years of relevant experience with this employer	8
Title	<b>Electrical Section Manager</b>	Years of relevant experience with other employer(s)	11
Degree(s) / Years / Specialization	B.S. / 2004 / Electrical Engineering		
Active registration number / state / expiration date	35993 / Louisiana / 03-31-2025		
Year registered	2011	Discipline	Professional Engineer, Electrical & Computer
Contract role(s) / brief description of responsibilities	Role on this Project: <b>Project Manager</b>		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
	<p><i>Mr. Prattini’s more than 17 years of electrical design experience includes lighting design and quality control, wastewater treatment facilities and lift stations, multiple pump motor installations in hazardous (classified) locations, generator installation projects, and multiple government (municipal and transportation) projects. Mr. Prattini is experienced with NFPA standards required by electrical projects and is capable of completing the design and project management related tasks required for this project. He has consistently managed client and stakeholder relations along with design challenges to produce quality deliverables in line with the project’s delivery schedule. He has been a Society of Fire Protection Engineers (SFPE) member since 2017.</i></p>		
09/19 - Present	<p><b>RETAINER NO. 44-10428, H.004774.5/H.007300.6 / KANSAS LANE – GARRETT RD CONNECTOR: Ouachita Parish, LA. Electrical Engineer of Record-</b> Mr. Prattini is in responsible charge of the electrical engineering design of the Kansas Lane – Garrett Road Connector project, which currently utilizes over 130 low mast lighting poles to illuminate 5 roundabouts, interstate overpass bridge, and interconnecting roads throughout the project limits. Mr. Prattini is collaborating &amp; providing design direction to electrical designers, intermittently checking electrical plans &amp; calculations, and participating in the quality control / quality assurance (QC/QA) process.</p>		
08/21 - Present	<p><b>RETAINER NO. 44-4128, H.004273.5 / I-49 CONNECTOR (LAFAYETTE REGIONAL AIRPORT TO I-10/I-49/US 167 INTERCHANGE): LA. Electrical Engineer -</b> Mr. Prattini researched and collaborated with the design team regarding roadway lighting pole, fixture, and accessory selection. Lighting options were presented to the Lafayette Consolidated Government (LCG) and Lafayette Utilities System (LUS), who maintains the lighting systems.</p>		
04/19 - Present	<p><b>RETAINER NO. 44-5267, H.003074.5 / WILLIAMS BLVD – VETERANS BLVD., ROUTE I-10: Jefferson Parish, LA. Electrical Engineer of Record -</b> Mr. Prattini is overseeing the photometrics, electrical calculations, and drawing development of the project, which includes a total length of 2 miles of widening and three interchanges, all of which will need revisions to the existing lighting systems as well as FAA coordination for the lighting design</p>		
07/18 - 02/23	<p><b>RETAINER NO. 44-11354, H.013442.6 / I-10, CROWDER BOULEVARD INTERSTATE LIGHTING: New Orleans, LA. Electrical Engineer -</b> Mr. Prattini performed QC review during the design phase. During the construction phase, Mr. Prattini collaborated on engineering support activities and performed the final walk-thru and punchlist with DOTD district personnel and the City of New Orleans.</p>		
09/20 – 07/22 (Design) 08/22 – Present (Construction)	<p><b>RETAINER NO. 44-11354, H.013617 / I-10, I-610E INTERCHANGE LIGHTING. TASK ORDER NO. 1: New Orleans, LA. Electrical Engineer of Record -</b> Mr. Prattini oversaw the design, participated in stakeholder meetings, performed QC review, and addressed design comments during the design phase. During the construction phase, Mr. Prattini is responding to RFI’s and collaborating on submittal reviews. Project is in the Construction Assembly period at this time.</p>		
10/22 - Present	<p><b>RETAINER NO. 44-11354, H.014552.5 / I-49, LA 31 INTERCHANGE LIGHTING (OPELOUSAS), TASK ORDER NO. 2: Opelousas, LA. Electrical Engineer of Record -</b> Mr. Prattini is overseeing the photometrics, engineering calculations, and plan development for this project.</p>		
12/22 - Present	<p><b>RETAINER NO. 44-11354, H.014556.5 / I-49, US 190 INTERCHANGE LIGHTING (OPELOUSAS), TASK ORDER NO. 3: Opelousas, LA. Electrical Engineer of Record -</b> Mr. Prattini is overseeing the photometrics, engineering calculations, and plan development for this project.</p>		
02/23 - Present	<p><b>RETAINER NO. 44-11354, H.014557.5 / I-49, JUDSON WALSH DRIVE INTERCHANGE LIGHTING (OPELOUSAS), TASK ORDER NO. 4: Opelousas, LA. Electrical Engineer of Record -</b> Mr. Prattini is overseeing the photometrics, engineering calculations, and plan development for this project.</p>		

Firm employed by <b>G.E.C., Inc.</b>	
Name	<b>Mickey Prattini Jr., PE, CBCP</b> <span style="float: right;"><i>Continued Resume</i></span>
06/15 - 10/15	<b>RETAINER NO. 44-2746, T.O. H.010916 / PRIEN LAKE MAIN SPAN RE-DECK: Lake Charles, LA.</b> <i>Quality Control</i> - Mr. Prattini performed Quality Control for this project. GEC provided design services under two Task Orders and will provide CE&I under a third.
11/16-02/17	<b>RETAINER NO. 44-2746, T.O. H.010440 / I-210 OVER CALCASIEU RIVER WEST OF I-10 INTERSTATE LIGHTING: Lake Charles, LA.</b> <i>Quality Control</i> - Mr. Prattini performed Quality Control for this project. Services include feasibility study, design, development of plans and specifications, and CE&I as required.
01/18 - 09/20	<b>RETAINER NO. 44-2746, T.O. H.012602 / MORRISON ROAD INTERSTATE LIGHTING: New Orleans, LA.</b> <i>Quality Control</i> - Mr. Prattini performed Quality Control for this project during design and CE&I support during construction. Project limits included the I-10 / Morrison Road Interchange. GEC provided design and construction services under two separate Task Orders.
02/17 – 02/17	<b>RETAINER NO. 44-2746, T.O. H.012469, US 190, MISSISSIPPI RIVER BRIDGE – NAVIGATION LIGHT REPLACEMENT: Baton Rouge, LA.</b> <i>Quality Control</i> - Mr. Prattini performed Quality Control for this project. Project makeup consists of the following types of roadway lighting standards: navigation and aviation lighting. GEC provided design services only under this contract.
07/15 – 02/17	<b>H.004698/H.007250, LADOTD, ALMONASTER AVE. BRIDGE AND APPROACHES: New Orleans, LA.</b> <i>Electrical Engineer / Quality Control</i> - Mr. Prattini performed the preliminary electrical design followed by Quality Control in the later stages of this project. Project consisted of replacing the existing bridge with a rolling leaf bridge to support the roadway and railroad in accordance with all relevant standards.
02/20-Present	<b>H.013897 / I-10 &amp; I-12 COLLEGE DR. FLYOVER RAMP DESIGN-BUILD PROJECT: East Baton Rouge Parish, LA.</b> <i>Engineer of Record</i> - Mr. Prattini has provided photometric and lighting design review and quality control review for the GEC/Boh Bros. team. GEC is responsible for engineering and design quality control services as necessary to complete the design and construction for the I-10 & I-12 College Dr. Flyover Ramp Design-Build Project.
09/20-Present	<b>H.004100.5 / I-10, LA 415 TO ESSEN LANE ON I-10 AND I-12: West and East Baton Rouge Parishes, LA.</b> <i>Electrical Engineer of Record</i> - Mr. Prattini completed an enhancement lighting study for Segment 1 of the project to incorporate aesthetic lighting at the City Park Lake Bridge and emphasize the Greenway path from the Expressway Park to the bridge. Though the project is currently in design, Mr. Prattini is currently overseeing and collaborating on the design of the enhancement, roadway, and walkway lighting.
06/15 – 09/18	<b>GNOEC, REPLACE THE DMS: St Tammany and Jefferson Parishes, LA.</b> <i>Electrical Engineer of Record</i> - The project provided for the removal and replacement of 15 Dynamic Messaging Sign (DMS) installations on the Lake Pontchartrain Causeway Bridge and approach roadway systems. Over 5,000' of fiber and 15,000' of underground conduit was installed to upgrade GNOEC's Northshore communications infrastructure. GEC identified unique opportunities to introduce system improvements for updating the traffic management system (hardware and software) placed on the overhead truss installed for the toll collection system. GEC identified unique opportunities to introduce system improvements that would have a direct impact on traffic management and the on-going effort to provide dynamic solutions. Cost: \$3.2M
06/16 – 07/18	<b>GNOEC, GENERATOR RELOCATION AND FUEL SYSTEM: St. Tammany Parish, LA.</b> <i>Electrical Engineer of Record</i> - The project involved the installation of two, 2,000 gallon, above ground fuel tanks (diesel and gasoline) with connected standby generator and fuel dispensing system. The generator supplies backup power to the North Toll Plaza site, which includes their toll collection system. Total Construction Cost: \$453k
04/18 – 01/23	<b>STANDBY GENERATORS AT PARISH PUMP STATIONS (BIG BELLE TERRE, CAPT. BOURGEOIS, AND NED DUHE): St John the Baptist Parish, LA.</b> <i>Project Manager &amp; Electrical Engineer of Record: HMGP</i> -funded project to install generators at three sewer lift station locations. Mr. Prattini is performing the project management duties, coordinating and tasking personnel, and overseeing the electrical design development.
06/18 - 01/21	<b>OAK HARBOR EAST UTILITY, LAKESHORE ESTATES 300K AND 450K WWTP EXPANSION: Slidell, LA.</b> <i>Electrical Engineer of Record</i> - Mr. Prattini designed the power distribution system for a 300,000 gallon per day WWTP system including generator standby power system, area lighting, and construction support. Immediately after construction completion of the 300K expansion, the design and construction of a 450,000 gallon per day WWTP system followed. Mr. Prattini designed the power distribution system for a 450,000 gallon per day WWTP system, and provided construction support engineering services (submittal review, RFI response, site visits, etc.) during the construction of both WWTP systems.

Firm employed by <b>G.E.C., Inc.</b>	
Name	<b>Cary Bourgeois, PE</b> Years of relevant experience with this employer 38
Title	<b>Senior Vice President</b> Years of relevant experience with other employer(s) 0
Degree(s) / Years / Specialization	B.S. / 1983 / Civil Engineering
Active registration number / state / expiration date	23414 / Louisiana / 09-30-2023
Year registered	1989 Discipline Professional Engineer, Civil
Contract role(s) / brief description of responsibilities	Role on this Project: <b>QA/QC</b>
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	<i>Mr. Bourgeois is GEC’s Senior Vice President involved in supervising activities and performing design services on several large-scale projects. Mr. Bourgeois is experienced in the areas of Roadway, Bridge, Toll Collection Systems, and Intelligent Transportation Systems (ITS) design along with extensive experience in safety inspection of bridges. He has valuable experience in the design and geometry associated with roadways and bridge structures. He is thoroughly familiar with AASHTO Policy on Geometric Design of Highways and Streets, AASHTO Standard Specifications for Highway Bridges, Manual on Uniform Traffic Control Devices, the Highway Capacity Manual and the Standard Specifications for Structural Support for Highway Signs, Luminaries and Traffic Signals. He has provided ITS deployment and implementation planning, field device optimum positioning and placement, civil/structural engineering, and plan and specification development. As Senior Vice President of Engineering, he manages design and quality assurance, and supervises production of plans and specifications as well as general construction engineering and inspection.</i>
06/12-10/18	<b>LADOTD RETAINER #440002746, RETAINER CONTRACT FOR ELECTRICAL SERVICES STATEWIDE: Statewide, LA. Quality Assurance</b> - Mr. Bourgeois was responsible for design assistance and overall Quality Assurance for several of the task orders under this 6 year retainer for Roadway Lighting Design across the state.
07/19-Present	<b>LADOTD RETAINER #4400011354, RETAINER CONTRACT FOR ELECTRICAL SERVICES STATEWIDE: Statewide, LA. Quality Assurance/Principal in Charge</b> - Mr. Bourgeois is responsible for design assistance and overall Quality Assurance for several of the task orders under this current retainer for Roadway Lighting Design across the state.
08/20-Present	<b>H.013897 I-10 &amp; I-12 COLLEGE DR. FLYOVER RAMP DESIGN-BUILD PROJECT: East Baton Rouge Parish, LA. Design Manager</b> - Mr. Bourgeois is responsible for the overall design and design quality control of this \$53,000,000 project which will provide exit ramps that are separated from the merge of I-10 and I-12. To accomplish this, I-12 westbound will be re-routed under a rebuilt I-10 westbound bridge. He oversaw completion of a photometric report and lighting plans. The lighting design consists of both high mast and low mast lighting.
03/21-Present	<b>H.004100.5 / I-10, LA 415 TO ESSEN LANE ON I-10 AND I-12: West and East Baton Rouge Parishes, LA. GEC Design Manager and Quality Assurance-</b> Mr. Bourgeois oversaw production of an enhancement lighting study for Segment 1 of the project to incorporate aesthetic lighting at the City Park Lake Bridge and emphasize the Greenway path from the Expressway Park to the bridge.
03/91 – 10/97	<b>454-01-0054 &amp; 450-10-0099 / LADOTD, ROUTE I-12, I-10 TO U.S. 61, AND ROUTE I-10, ACADIAN THRUWAY TO I-12: Baton Rouge, LA. Project Manager</b> - Mr. Bourgeois performed QA and project management on this project. He specifically acted as Quality Assurance for all disciplines involved including surveying, structures/bridge design, electrical and controls design and civil engineering design. This project consists of the phased rebuilding and widening while under traffic of approximately 4.65 miles of urban interstate highway with roadway and bridges on I-10 and I-12.
02/12-05/14	<b>H.009323 / LADOTD, NORTH CHANNEL BASCULE CONTROL SYSTEM REPLACEMENT: Mandeville, LA. Overall Project Manager</b> - Mr. Bourgeois was responsible for project management for this project. Project makeup consisted of upgrading control and electrical distribution system replacement for the existing double-leaf bascule for the northbound and southbound bridge across Lake Pontchartrain.

Firm employed by <b>G.E.C., Inc.</b>	
Name	<b>Cary Bourgeois, PE</b> <span style="float: right;"><i>Continued Resume</i></span>
03/91-Present	<b>GNOEC LAKE PONTCHARTRAIN CAUSEWAY, CONSULTING ENGINEER: St Tammany and Jefferson Parishes, LA.</b> <i>Overall Project Manager/Structural Engineer</i> - Mr. Bourgeois performs Quality Assurance and project management on this project. He specifically acted as Quality Assurance for all disciplines involved including surveying, structures/bridge design, electrical and controls design (including roadway lighting) and civil engineering design. Mr. Bourgeois has been associated with the project since the selection of GEC as Consulting Engineer and has served as Project Manager for over 20 years. Mr. Bourgeois also performed significant electrical review on the design plans for the 25kVA bascule bridge system, medium voltage motors throughout the bridge, roadway lighting systems, and low voltage systems for cameras and fiber optic connections.
06/15-09/18	<b>GNOEC, PROJECT NO. 429, REPLACE THE DMS: St Tammany and Jefferson Parishes, LA.</b> <i>Principal-in-Charge</i> - The project provided for the removal and replacement of 15 Dynamic Messaging Sign (DMS) installations on the Lake Pontchartrain Causeway Bridge and approach roadway systems. Over 5,000' of fiber and 15,000' of underground conduit was installed to upgrade GNOEC's Northshore communications infrastructure. GEC identified unique opportunities to introduce system improvements for updating the traffic management system (hardware and software) placed on the overhead truss installed for the toll collection system. GEC identified unique opportunities to introduce system improvements that would have a direct impact on traffic management and the on-going effort to provide solutions.
01/99-10/00	<b>GNOEC, PROJECT NO. 1105, HIGH VOLTAGE AERIAL CABLE REPLACEMENT: St Tammany and Jefferson Parishes, LA.</b> <i>Principal-in-Charge</i> - GNOEC commissioned GEC to prepare plans and specifications for a new 25kV power system including emergency generation for the South Toll Plaza and North Shore Maintenance Facility. A new power distribution system was designed for maximum reliability through the utilization of cutting edge high-speed relays and modern control schema and programming techniques. Normal system configuration is with Entergy feeding the southern 12 miles of the Causeway Bridge and CLECO feeding the northern 12 miles. The system has a 24.9kV nominal distribution voltage to supply power to Toll Plazas on both shores as well as the 24-mile bridge. In addition to roadway lighting, navigation lighting, variable message signs and CCTV cameras, the power system supplies a double-leaf bascule drawbridge for the northbound and southbound bridges. The system employs 25kV, 600A rated, SF6 gas-filled switchgear and solid state relays for protection and automatic system reconfiguration.
01/91-11/91	<b>45-05-0053 / LADOTD, ROUTE I-49 (SECTION AU-23) HORSESHOE CANAL TO BROADWAY: Alexandria, LA.</b> <i>Project Engineer</i> - Mr. Bourgeois performed Quality Assurance and project management on this project. He specifically acted as Quality Assurance for all disciplines involved including surveying, structures/bridge design, electrical and controls design and civil engineering design. This project consisted of four- and six- lanes of mainline railroad overpass including approaches and access roads for a section of urban interstate highway in Alexandria.
02/07-12/15	<b>GNOEC, LAKE PONTCHARTRAIN CAUSEWAY, TOLL COLLECTION SYSTEM REPLACEMENT PROGRAM, 817 - UPGRADE THE GNOEC TOLL TAG STORE CUSTOMER SERVICE CENTER, 634 - NORTH TOLL PLAZA LANE MODIFICATIONS &amp; 819 - REPLACE THE GNOEC TOLL COLLECTION SYSTEM: St Tammany and Jefferson Parishes, LA.</b> <i>Principal-in-Charge</i> - Mr. Bourgeois participated in the development, advertisement, review, and implementation of the requests for proposals used for these projects. Mr. Bourgeois worked with the successful proposer and reviewed the system requirements document, the systems design document, the final design document, the factory acceptance test, end to end test, and commissioning test. The Toll Collection System Replacement Program, begun in 2007 with the need to vacate the South Toll Plaza to facilitate construction of levee improvements in the aftermath of Hurricane Katrina, consisted of the following three phases: Upgrade the GNOEC Toll Tag Store Customer Service Center, North Toll Plaza Lane Modifications and Replace the GNOEC Toll Collection System. Upgrade the GNOEC Toll Tag Store Customer Service Center provided for the purchase and installation of new Customer Service Center software, hardware and associated network. The system was designed with three database/application servers configured for triple redundancy. North Toll Plaza Lane Modifications provides for the construction of a fifth Toll Lane and Canopy and renovation of the pavement and drainage at the North Shore Toll Plaza. Replace the GNOEC Toll Collection System provides the GNOEC with a new Toll Collection System with an expected life cycle of no less than fifteen (15) years developed from an existing and stable product base. The Toll Collection System provides updated hardware and software for Automatic Vehicle Classification (AVC) and Electronic Toll Collection (ETC) systems. The upgrade provides enhanced maintainability and reliability and incorporates systems that are easily updated and expanded for future enhancements, such as Open Road Tolling (ORT).

## 16. Staff Experience

### PERSONNEL RESUMES **Electrical Design**

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Firm employed by <b>G.E.C., Inc.</b>			
Name	<b>Thomas Coerver Jr., PE</b>	Years of relevant experience with this employer	33
Title	<b>Senior Electrical Engineer</b>	Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization	B.S. / 1980 / Electrical Engineering; MBA / 1990 / Management Information Systems		
Active registration number / state / expiration date	30722 / Louisiana / 09-30-2023		
Year registered	2003	Discipline	Professional Engineer, Electrical & Computer
Contract role(s) / brief description of responsibilities	Role on this Project: <b>Electrical Engineer</b>		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
	<p><i>Mr. Coerver has experience in engineering and planning for interstate lighting, utilities distribution systems, automatic test systems, and navigation and flood control projects. He also has over 20 years of experience with computers using several operating systems for GIS design, implementation, and analysis; computer aided design and drafting; database design and analysis; and internet publishing. His most recent projects at GEC involved roadway and bridge lighting, electrical power distribution systems, fiber optic communication systems, and wireless and landline communication systems. Design duties include preparation of plans and specifications, Quality Control and Quality Assurance (QC/QA) review, calculations, data collection, and report preparation. Construction Engineering and Inspection (CE&amp;I) duties include review of shop drawing and equipment submittals, respond to request for information, review/prepare as-built drawings, review payment applications, and perform periodic inspection and final system acceptance.</i></p>		
09/20-Present	<p><b>H.004100.5 / I-10, LA 415 TO ESSEN LANE ON I-10 AND I-12: West and East Baton Rouge Parishes, LA. Electrical Engineer</b> - Mr. Coerver completed a Roadway, Walkway, Underpass, Service Road and Roundabout Lighting study and an enhancement lighting study for Segment 1 of the project to incorporate aesthetic lighting at the City Park Lake Bridge and emphasize the Greenway path from the Expressway Park to the bridge. He also provides QA/QC for the lighting analysis, voltage drop calculation, and lighting layout of the enhancement lighting and roadway lighting.</p>		
04/21 - Present	<p><b>RETAINER NO. 44-11354, H.013617.6 / I-10, I-610E INTERCHANGE LIGHTING. TASK ORDER NO. 1: LA. Electrical Design</b> - Mr. Coerver provided QA/QC for the design of this project. Design tasks included construction plan set development, photometric calculations, voltage drop and conduit fill calculations, conductor sizing, equipment specifications, arc flash hazard analysis, and protective device sizing. Mr. Coerver reviews engineering shop drawings and equipment submittals from the contractor for acceptance to fabricate, install and purchase equipment for construction, and review and respond to request for information (RFIs). Starting Period: April 20212021-Present</p>		
02/20-Present	<p><b>H.013897 / I-10 &amp; I-12 COLLEGE DRIVE FLYOVER RAMP DESIGN-BUILD: Baton Rouge, Louisiana. Electrical Engineer</b> - Mr. Coerver has performed photometric and lighting layout design, sequence of construction, schedule analysis, and quality control review for the GEC/Boh Bros. team. GEC is responsible for engineering and design quality control services as necessary to complete the design and construction for the I-10 &amp; I-12 College Dr Flyover Ramp Design-Build Project which consists generally of highway and bridge design and engineering services.</p>		
06/17-Present	<p><b>H.003074 / I-10 WIDENING, WILLIAMS TO VETERANS BLVD: New Orleans, LA. Electrical Designer</b> - Mr. Coerver was involved in roadway lighting design and provided QA/QC on this project. GEC Electrical is responsible for preparing a feasibility study for the lighting within the project limits that will be affected by the widening of the I-10 in this area. This includes a total length of 2 miles of widening and three interchanges, all of which will need revisions to the lighting systems as well as significant coordination with the FAA for the lighting design.</p>		
09/17-01/20	<p><b>RETAINER NO. 44-10428, H.004774.5/H.007300.6 / KANSAS LANE – GARRETT RD CONNECTOR: Ouachita Parish, LA. Electrical Design</b> - Mr. Coerver provided QA/QC for the lighting analysis, voltage drop calculation, and lighting layout of the enhancement lighting and roadway lighting.. Design task included construction plan set development, photometric calculations, voltage drop and conduit fill calculations, conductor sizing, equipment specifications, arc flash hazard analysis, and protective device sizing. Starting Period: September 2017</p>		
07/18 - 02/23	<p><b>RETAINER NO. 44-11354, H.013442.6 / I-10, CROWDER BOULEVARD INTERSTATE LIGHTING: LA. QA/QC</b> - Mr. Coerver provided QA/QC for the lighting analysis, voltage drop calculation, and lighting layout of the enhancement lighting and roadway lighting.</p>		

Firm employed by **G.E.C., Inc.**

Name	Thomas Coerver Jr., PE <span style="float: right;"><i>Continued Resume</i></span>
08/22-Present	<b>RETAINER NO. 44-11354, H.013617.6 / I-10, I-610E INTERCHANGE LIGHTING. TASK ORDER NO. 1: LA.</b> <i>Electrical Design</i> - Mr. Coerver provided QA/QC for the design of this project. Design tasks included construction plan set development, photometric calculations, voltage drop and conduit fill calculations, conductor sizing, equipment specifications, arc flash hazard analysis, and protective device sizing. Mr. Coerver reviews engineering shop drawings and equipment submittals from the contractor for acceptance to fabricate, install and purchase equipment for construction, and review and respond to request for information (RFIs). Starting Period: April 2021
10/22-Present	<b>RETAINER NO. 44-11354, H.014552.5 / I-49, LA 31 INTERCHANGE LIGHTING (OPELOUSAS), TASK ORDER NO. 2: Opelousas, LA.</b> <i>QA/QC</i> - Mr. Coerver provides QA/QC for the lighting analysis, voltage drop calculation, and lighting layout of the roadway lighting. Design task included construction plan set development, photometric calculations, voltage drop and conduit fill calculations, conductor sizing, equipment specifications, arc flash hazard analysis, and protective device sizing.
12/22-Present	<b>RETAINER NO. 44-11354, H.014556.5 / I-49, US 190 INTERCHANGE LIGHTING (OPELOUSAS), TASK ORDER NO. 3: Opelousas, LA.</b> <i>QA/QC</i> - Mr. Coerver provides QA/QC for the lighting analysis, voltage drop calculation, and lighting layout of the roadway lighting. Design task included construction plan set development, photometric calculations, voltage drop and conduit fill calculations, conductor sizing, equipment specifications, arc flash hazard analysis, and protective device sizing.
03/23-Present	<b>RETAINER NO. 44-11354, H.014557.5 / I-49, JUDSON WALSH DRIVE INTERCHANGE LIGHTING (OPELOUSAS), TASK ORDER NO. 4: Opelousas, LA.</b> <i>QA/QC</i> - Mr. Coerver provides QA/QC for the lighting analysis, voltage drop calculation, and lighting layout of the roadway lighting.. Design task included construction plan set development, photometric calculations, voltage drop and conduit fill calculations, conductor sizing, equipment specifications, arc flash hazard analysis, and protective device sizing.
06/15-Present	<b>RETAINER NO. 44-2746, T.O. H.010916 / PRIEN LAKE MAIN SPAN RE-DECK: Lake Charles, LA.</b> <i>Electrical Designer</i> - Mr. Coerver designed roadway lighting for this project under the signing engineer. Project limits include the I-210 Bridge over Prien Lake and the I-210 / Cove Lane Interchange. Project makeup consists of the following types of roadway lighting standards: 12 ground mount low mast and 50 barrier mount low mast. GEC provided design services under 2 Task Orders and will provide CE&I under a third. In addition, lighting control and power distribution and system protection is included.
06/16-03/19	<b>RETAINER NO. 44-2746, T.O. H.003451 / LA 434 INTERCHANGE LIGHTING (LACOMBE): Lake Charles, LA.</b> <i>Electrical Engineer of Record</i> - Mr. Coerver was the signing engineer on this project. Project limits include the I-12 / LA 434 Interchange. Project makeup consists of the following types of roadway lighting standards: 72 ground mount low mast and 4 underpass. GEC provided design services and construction services under two Task Orders. In addition, lighting control and power distribution and system protection was included.
07/15-10/16	<b>RETAINER NO. 44-2746, T.O. H.010720 / I-12, LA 1088 INTERCHANGE LIGHTING: Slidell, LA.</b> <i>Electrical Engineer of Record</i> - Mr. Coerver was the signing engineer on this project. Project limits include the I-12/ LA 1088 Interchange. Project makeup consists of the following types of roadway lighting standards: 68 ground mount low mast and 8 underpass. GEC provided design services and construction services under two Task Orders, in addition to lighting control, power distribution, and system protection.
2018	<b>RETAINER NO. 44-2746, T.O. H.000687 / I-12 AT US-11 INTERCHANGE LIGHTING: Slidell, LA.</b> <i>Electrical Engineer</i> - Mr. Coerver performed electrical design, developed plans and specifications, and performed engineering during construction for the following types of roadway lighting standards: 55 ground-mount low mast, one ground mount high mast, and eight underpass. In addition, lighting control and power distribution and system protection was included in the design.
01/17-06/18	<b>RETAINER NO. 44-2746, T.O. H.012601 / READ BLVD INTERSTATE LIGHTING: New Orleans, LA.</b> <i>Electrical Engineer of Record</i> - Mr. Coerver provided submittal reviews for this project. GEC provided design and construction services under two separate Task Orders.
2013-2018	<b>RETAINER NO. 44-2746, T.O. H.003462 / I-12 AT NORTSHORE BOULEVARD INTERCHANGE LIGHTING: Slidell, LA.</b> <i>Electrical Engineer</i> - Project makeup consisted of the following types of roadway lighting standards: 27 ground mount low mast, 20 barrier mount low mast, 8 ground mount high mast, and 8 underpass. In addition, lighting control and power distribution and system protection was included. Services include design, development of plans and specifications, and CE&I as required.

Firm employed by <b>G.E.C., Inc.</b>			
Name	<b>Michael Chiasson, PE</b>	Years of relevant experience with this employer	13
Title	<b>Senior Electrical Engineer</b>	Years of relevant experience with other employer(s)	33
Degree(s) / Years / Specialization	B.S. / 1973 / Electrical Engineering		
Active registration number / state / expiration date	17978 / Louisiana / 09-30-2024		
Year registered	1973	Discipline	Professional Engineer, Electrical
Contract role(s) / brief description of responsibilities	Role on this Project: <b>Electrical Engineer</b>		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
	<p>Mr. Chiasson has over 45 years of experience performing design of electrical and controls systems projects (including roadway lighting). At GEC Mr. Chiasson has completed designs for roadway lighting, several waste water lift stations, drainage pumping stations, and control systems. At Dow Chemical, he was responsible for the preparation of plans and specifications (design and development) of process control engineering projects, from plans and specifications to final construction inspection. Other duties include engineering calculations, field inspections, data collection, and report preparation. Mr. Chiasson has been involved in lighting projects including Causeway lighting as well as many DOTD projects listed below.</p>		
09/17-01/20	<p><b>RETAINER NO. 44-10428, H.004774.5/H.007300.6 / KANSAS LANE – GARRETT RD CONNECTOR: Ouachita Parish, LA. Electrical Engineer - Mr. Chiasson</b> was involved in the QA/QC checking of all the drawings.</p>		
03/23-Present	<p><b>RETAINER NO. 44-11354, H.014552.5 / I-49, LA 31 INTERCHANGE LIGHTING (OPELOUSAS), TASK ORDER NO. 2: Opelousas, LA. Electrical Engineer - Mr. Chiasson</b> was involved in the QA/QC checking of all the drawings.</p>		
03/21 - Present	<p><b>H.013897 / I-10 &amp; I-12 COLLEGE DRIVE FLYOVER RAMP DESIGN-BUILD: Baton Rouge, Louisiana. Electrical Engineer - Mr. Chiasson</b> has performed photometric and lighting layout design, sequence of construction, schedule analysis, and quality control review for the GEC/Boh Bros. team. GEC is responsible for engineering and design quality control services as necessary to complete the design and construction for the I-10 &amp; I-12 College Dr Flyover Ramp Design-Build Project which consists generally of highway and bridge design and engineering services.</p>		
08/18 - Present	<p><b>H.003074 / I-10 WIDENING, WILLIAMS TO VETERANS BLVD: New Orleans, LA. Electrical Designer - Mr. Chiasson</b> was involved in roadway lighting design and provided QA/QC on this project. GEC Electrical is responsible for preparing a feasibility study for the lighting within the project limits that will be affected by the widening of the I-10 in this area. This includes a total length of 2 miles of widening and three interchanges, all of which will need revisions to the lighting systems as well as significant coordination with the FAA for the lighting design.</p>		
2013-2018	<p><b>RETAINER NO. 44-2746, T.O. H.010440 / I-210 OVER CALCASIEU RIVER WEST OF I-10 INTERSTATE LIGHTING: Lake Charles, LA. Quality Assurance/Quality Control - Mr. Chiasson</b> performed the initial roadway lighting design and QA/QC services.</p>		
04/15 – 10/17	<p><b>H.011476 I-10 ATCHAFALAYA EMERGENCY CROSSINGS: Ramah/Henderson, LA. Electrical Engineer - Mr. Chiasson</b> prepared Supplemental EA, Plans, Specifications &amp; Estimates (PS&amp;E) and CRES for remote operation/rehabilitation of barrier gates on emergency crossovers for elevated section of I-10 between Ramah and Henderson. This task included detailing the integration of additional crossover locations (at multiple LADOTD TMC locations) for providing LADOTD staff with status and control information concerning the gate system. Network design included connections to existing fiber optic backbone. Mr. Chiasson designed the control system and network</p>		
01/11-10/13	<p><b>440000688, H.005755 / ADVANCED WARNING SIGNS FOR MOVABLE BRIDGES: Orleans Parish, LA. Electrical Engineer - This project</b> involved designing a bridge status gathering system which then drove DMS message signs to help redirect traffic flow around bridges which were not available due to the bridge opening being done. A total of 3 bridges were connected to the traffic information and 8 traffic display signs were used in this project. Mr. Chiasson was involved in the QA/QC checking of all the drawings</p>		

Firm employed by <b>G.E.C., Inc.</b>	
Name	<b>Michael Chiasson, PE</b> <span style="float: right;"><i>Continued Resume</i></span>
09/15	<b>H.011350 / CAMERON PARISH FERRY MESSAGE SYSTEM: Cameron Parish, LA.</b> <i>Electrical QA/QC</i> - Mr. Chiasson helped with the design and QA/QC for the signage system in Cameron Parish. The signage system covered 3 bridges.
09/22 – Present	<b>H.004100.5 / I-10, LA 415 TO ESSEN LANE ON I-10 AND I-12: West and East Baton Rouge Parishes, LA.</b> <i>QA/QC</i> - Mr. Chiasson is involved in the QA/QC validation of the various sections of lighting for the roadway.
03/23 – Present	<b>RETAINER NO. 44-11354, H.014552.5 / I-49, LA 31 INTERCHANGE LIGHTING (OPELOUSAS), TASK ORDER NO. 2: Opelousas, LA.</b> <i>Electrical Engineer</i> - Mr. Chiasson is involved in all of the QA/QC for the project.
07/10 - 02/16	<b>H.009323, NORTH CHANNEL BASCULE CONTROL SYSTEM REPLACEMENT: Jefferson Parish, LA.</b> <i>Electrical Engineer of Record</i> - Designed the replacement control system, roadway lighting, traffic gate, and warning light systems for the Causeway bascule, located near the north shore. The roadway lighting system was replaced to make it meet current National Electrical Code (NEC) requirements. Many older bridge components were replaced with modern equivalents. During the design phase. Mr. Chiasson was responsible for plan development, material and equipment specifications, engineering calculations, and probable costs opinions. During construction, Mr. Chiasson provided engineer support services, including submittal review, RFI response, and participating in the start-up and commissioning of the bridge systems.
01/13 – 02/17	<b>ALMONASTER AVENUE BRIDGE AND APPROACHES: New Orleans, LA.</b> <i>Electrical Engineer</i> - Mr. Chiasson performed the preliminary design for navigation lighting and site lighting for the Almonaster Bridge. Additional tasks included wiring details, conduit/conductor sizing and layout, power distribution plans (one-line and three-line), and traffic/ barrier gate design. Mr. Chiasson addressed QC review comments. Project consisted of replacing the existing bridge with a rolling leaf bridge to support the roadway and railroad in accordance with all relevant standards.

Firm employed by <b>G.E.C., Inc.</b>	
Name	<b>Luis Diaz, EI</b> Years of relevant experience with this employer 2
Title	<b>Engineer Intern</b> Years of relevant experience with other employer(s) 1
Degree(s) / Years / Specialization	B.S. / 2019 / Electrical Engineering
Active registration number / state / expiration date	34863 / Louisiana / 09-30-2023
Year registered	2021 Discipline Engineer Intern
Contract role(s) / brief description of responsibilities	Role on this Project: <b>Electrical Engineer Intern</b>
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	<i>Mr. Diaz has 2 years of experience in designing electrical lighting and power systems at GEC Inc. As an engineer intern, under the supervision of a professional engineer, he has performed photometric calculations, voltage drop and conduit fill calculations, conductor sizing, equipment specifications, arc flash analysis, and protective device sizing for LADOTD interstate and urban projects. In addition to roadway lighting projects, Mr. Diaz has experience in the analysis of generator systems performing generator-sizing calculations to meet a project’s power requirements. Mr. Diaz also worked at CDI Engineering Solutions for 1 year and 2 months under the supervision of a professional engineer. Luis checked wiring diagrams, detail drawings (MCC buckets and switchgear cabinets), one-lines, 3-lines, and schematics (breakers and motor starters). He also assisted in designing MCC elevations, detail drawings for MCC buckets, conductor sizing, and cable tray. Mr. Diaz has 6 years of experience working with electrical motors which included the task of tearing down, reconditioning and onsite inspection and diagnostics. Mr. Diaz also performed modifications such as C-PHASE conversion, space heater installation, and conversion of ball bearing lubrication from grease to oil mist. Performed the following tests: checked motor health, phase to phase (megger), phase to ground (megger), and Vibration on 3-Phase motors with motors ranging from 480V-4160V (Specialized equipment).</i>
07/21-Present	<b>H.004100.5 / I-10, LA 415 TO ESSEN LANE ON I-10 AND I-12: West and East Baton Rouge Parishes, LA. Electrical Design</b> - Mr. Diaz designed the enhancement lighting study for Segment 1 of the project to incorporate aesthetic lighting at the City Park Lake Bridge and emphasize the Greenway path from the Expressway Park to the bridge and coordinated with lighting vendors to process the electrical design for the enhancement lighting systems across the I-10 CMAR Segment 1 portion of the project. Mr. Diaz has designed the Roadway, Walkway, Underpass, Service Road and Roundabout Lighting. He is also involved in the lighting analysis, voltage drop calculation, and lighting layout of the enhancement lighting and roadway lighting.
2021 - Present	<b>RETAINER NO. 44-10428, H.004774.5/H.007300.6 / KANSAS LANE – GARRETT RD CONNECTOR: Ouachita Parish, LA. Electrical Design</b> - Mr. Diaz currently provides the design of this project under the supervision of the signing professional engineer. Design task included construction plan set development, photometric calculations, voltage drop and conduit fill calculations, conductor sizing, equipment specifications, arc flash hazard analysis, and protective device sizing. Starting Period: September 2017
2021-Present	<b>RETAINER NO. 44-5267, H.003074.5 / WILLIAMS BLVD – VETERANS BLVD., ROUTE I-10: Jefferson Parish, LA. Electrical Design</b> - Mr. Diaz currently provides the design of this project under the supervision of the signing professional engineer. Design task included construction plan set development, photometric calculations, voltage drop and conduit fill calculations, conductor sizing, equipment specifications, arc flash hazard analysis, and protective device sizing. Starting Period: June 2017
2021-Present	<b>RETAINER NO. 44-11354, H.013617.6 / I-10, I-610E INTERCHANGE LIGHTING. TASK ORDER NO. 1: LA. Electrical Design / Construction Engineering and Inspection</b> - Mr. Diaz completed the design of this project under the supervision of the signing professional engineer. Design task included construction plan set development, photometric calculations, voltage drop and conduit fill calculations, conductor sizing, equipment specifications, arc flash hazard analysis, and protective device sizing. Mr. Diaz performs on-site field walk and inspection for assembly period, reviews engineering shop drawings and equipment submittals from the contractor for acceptance to fabricate, install and purchase equipment for construction, and review and respond to request for information (RFIs). Starting Period: April 2021
2021-Present	<b>H.004273.5 / LADOTD, I-49 CONNECTOR, LAFAYETTE PARISH: Lafayette, LA. Electrical Design</b> - Mr. Diaz is performing a lighting analysis near the ramps of SE Evangeline Thruway for pole locations to coordinate with FAA to satisfy requirements near the airport.

Firm employed by **G.E.C., Inc.**

Name	Luis Diaz, EI <span style="float: right;"><i>Continued Resume</i></span>
10/22-Present	<b>RETAINER NO. 44-11354, H.014552.5 / I-49, LA 31 INTERCHANGE LIGHTING (OPELOUSAS), TASK ORDER NO. 2: Opelousas, LA.</b> <i>Electrical Design-</i> Mr. Diaz currently provides the design of this project under the supervision of the signing professional engineer, participating in the design of the photometric calculations.
12/22-Present	<b>RETAINER NO. 44-11354, H.014556.5 / I-49, US 190 INTERCHANGE LIGHTING (OPELOUSAS), TASK ORDER NO. 3: Opelousas, LA.</b> <i>Electrical Design-</i> Mr. Diaz currently provides the design of this project under the supervision of the signing professional engineer, participating in the design of the photometric calculations.
01/23-Present	<b>RETAINER NO. 44-11354, H.014557.5 / I-49, JUDSON WALSH DRIVE INTERCHANGE LIGHTING (OPELOUSAS), TASK ORDER NO. 4: Opelousas, LA.</b> <i>Electrical Design -</i> Mr. Diaz currently provides the design of this project under the supervision of the signing professional engineer, participating in the design of the photometric calculations.
05/21-Present	<b>H.013897 / I-10 &amp; I-12 COLLEGE DRIVE FLYOVER RAMP DESIGN-BUILD: Baton Rouge, Louisiana.</b> <i>Construction Engineering and Inspection -</i> Mr. Diaz completed checks on the photometric and lighting layout design for the GEC/Boh Bros. team. GEC is responsible for engineering and design quality control services as necessary to complete the design and construction for the I-10 & I-12 College Dr. Flyover Ramp Design-Build Project.
2021-Present	<b>AMES BLVD DECORATIVE ST. LIGHTING (JEFFERSON PARISH): New Orleans, LA.</b> <i>Electrical Design/ Construction Engineering and Inspection -</i> Mr. Diaz completed the design of this project under the supervision of the signing professional engineer. Design task included construction plan set development, photometric calculations, voltage drop and conduit fill calculations, conductor sizing, equipment specifications, arc flash hazard analysis, and protective device sizing. Mr. Diaz currently provides construction engineering support services.
2022- Present	<b>PS#13 EXPANSION, SELA: Algiers, LA.</b> <i>Electrical Design -</i> Mr. Diaz completed the design of this project under the supervision of the signing professional engineer. He has worked in the writing of the Electrical Specifications following the Army Core of Engineers' standards. Mr. Diaz has checked one-line drawings, elevation drawings, designed the cable schedule, and designed the lighting layout sheets.
2021- Present	<b>TOWN OF SPRINGFIELD LIFT STATION PROJECT: Springfield, LA.</b> <i>Electrical Design -</i> Mr. Diaz currently provides the design of this project under the supervision of the signing professional engineer. Mr. Diaz has participated in an on-site visit, multi-disciplinary meetings, completed the electrical plan set submitted to be constructed. He, also, was a part of the electrical specifications, for the project.

Firm employed by <b>G.E.C., Inc.</b>	
Name	<b>Nicholas Montegut</b> Years of relevant experience with this employer 5
Title	<b>Electrical Designer</b> Years of relevant experience with other employer(s) 0
Degree(s) / Years / Specialization	B.S. / 2017 / Electrical Engineering
Active registration number / state / expiration date	N/A
Year registered	N/A Discipline N/A
Contract role(s) / brief description of responsibilities	Role on this Project: <b>Electrical Design</b>
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	<i>Mr. Montegut has 5 years of experience in designing electrical lighting and power systems. As an electrical designer, under the supervision of a professional engineer, he has performed photometric calculations, voltage drop and conduit fill calculations, conductor sizing, equipment specifications, arc flash analysis, and protective device sizing for LADOTD interstate and urban projects. In addition to roadway lighting projects, Mr. Montegut has experience in the analysis of generator systems performing generator-sizing calculations to meet a project’s power requirements, voltage drop and conduit fill calculations, conductor sizing, protective device coordination and arc flash analysis using ETAP.</i>
07/21-Present	<b>H.004100.5 / I-10, LA 415 TO ESSEN LANE ON I-10 AND I-12: West and East Baton Rouge Parishes, LA. Electrical Design</b> - Mr. Montegut assisted with an enhancement lighting study for Segment 1 of the project to incorporate aesthetic lighting at the City Park Lake Bridge and emphasize the Greenway path from the Expressway Park to the bridge. He also assists in the design of the Roadway, Walkway, Underpass, Service Road and Roundabout Lighting. Mr. Montegut is involved in the lighting analysis, voltage drop calculation, and lighting layout of the enhancement lighting.
07/18-Present	<b>RETAINER NO. 44-5267, H.003074.5 / WILLIAMS BLVD – VETERANS BLVD., ROUTE I-10: Jefferson Parish, LA. Electrical Design</b> - Mr. Montegut completed design work under the supervision of the signing professional engineer. Design task included construction plan set development, photometric calculations, voltage drop and conduit fill calculations, conductor sizing, equipment specifications, arc flash hazard analysis, & protective device sizing.
05/20-03/23	<b>RETAINER NO. 44-11354, H.013442.6 / I-10, CROWDER BOULEVARD INTERSTATE LIGHTING: LA. Construction Engineering and Inspection</b> - In July 2019, GEC was selected by LADOTD for a six-year retainer contract to provide Stage 3 (Design) and Stage 5 (Construction Support/Inspection), services. For the I-10: Crowder Blvd. Interstate Lighting, Route I-10 project in Orleans Parish (H.013442), Mr. Montegut is providing construction related engineering services.
12/19-Present	<b>RETAINER NO. 44-10428, H.004774.5/H.007300.6 / KANSAS LANE – GARRETT RD CONNECTOR: Ouachita Parish, LA. Electrical Design</b> - Mr. Montegut is currently providing the design work through the 98% stage under the supervision of the signing professional engineer. 100% sealed drawings are anticipated to be completed later in 2023. Design task included construction plan set development, photometric calculations, voltage drop and conduit fill calculations, conductor sizing, equipment specifications, arc flash hazard analysis, and protective device sizing.
03/18-Present	<b>RETAINER NO. 44-4128, H.004273.5 / I-49 CONNECTOR (LAFAYETTE REGIONAL AIRPORT TO I-10/I-49/US 167 INTERCHANGE): LA. Electrical Design</b> - Mr. Montegut has provided design work for a lighting feasibility study. This task included preliminary lighting analysis and light pole layouts for coordination with the FAA due to nearby proximity of Lafayette Regional Airport.
08/22-Present	<b>RETAINER NO. 44-11354, H.013617.5, H.013617.6 / I-10, I-610E INTERCHANGE LIGHTING. TASK ORDER NO. 1: LA. Electrical Design, Construction Engineering and Inspection</b> - Mr. Montegut completed the design work under the supervision of the signing professional engineer. Design task included construction plan set development, photometric calculations, voltage drop and conduit fill calculations, conductor sizing, equipment specifications, arc flash hazard analysis, and protective device sizing. Construction is on-going and Mr. Montegut reviews engineering shop drawings and equipment submittals from the contractor for acceptance to fabricate, install and purchase equipment for construction. Review and respond to request for information (RFIs).

Firm employed by <b>G.E.C., Inc.</b>	
Name	<b>Nicholas Montegut</b> <span style="float: right;"><i>Continued Resume</i></span>
10/22-Present	<b>RETAINER NO. 44-11354, H.014552.5 / I-49, LA 31 INTERCHANGE LIGHTING (OPELOUSAS), TASK ORDER NO. 2: Opelousas, LA. Electrical Design-</b> Mr. Montegut is currently providing the lighting design for this project, which is in the 95% submittal stage. Current design task include photometric analysis and light pole layout.
12/22-Present	<b>RETAINER NO. 44-11354, H.014556.5 / I-49, US 190 INTERCHANGE LIGHTING (OPELOUSAS), TASK ORDER NO. 3: Opelousas, LA. Electrical Design-</b> Mr. Montegut is currently providing the lighting design for this project, which is in the 60% submittal stage. Current design task include photometric analysis and light pole layout.
03/23-Present	<b>RETAINER NO. 44-11354, H.014557.5 / I-49, JUDSON WALSH DRIVE INTERCHANGE LIGHTING (OPELOUSAS), TASK ORDER NO. 4: Opelousas, LA. Electrical Design -</b> Mr. Montegut is currently providing the lighting design for this project, which is in the 60% submittal stage. Current design task include photometric analysis and light pole layout.
09/20-Present	<b>H.013897 / I-10 &amp; I-12 COLLEGE DRIVE FLYOVER RAMP DESIGN-BUILD: Baton Rouge, Louisiana. Electrical Design -</b> Mr. Montegut completed the design work under the supervision of the signing professional engineer. Design task included construction plan set development, photometric calculations, voltage drop and conduit fill calculations, conductor sizing, equipment specifications, arc flash hazard analysis, and protective device sizing for the GEC/Boh Bros. team. GEC is responsible for engineering and design quality control services as necessary to complete the design and construction for the I-10 & I-12 College Dr. Flyover Ramp Design-Build Project
04/18-09/20	<b>H.012601.6 / LADOTD, READ BLVD INTERSTATE LIGHTING: New Orleans, LA. Construction Engineering and Inspection -</b> Mr. Montegut reviews engineering shop drawings and equipment submittals from the contractor for acceptance to fabricate, install and purchase equipment for construction. Review and respond to request for information (RFIs). Project limits include the I-10 / Read Blvd. Interchange. Project makeup consists of the following types of roadway lighting standards: ground mount low mast, ground mount high mast, and underpass.
04/18-06/19	<b>H.012602.6 / LADOTD, MORRISON ROAD INTERSTATE LIGHTING: New Orleans, LA. Construction Engineering and Inspection -</b> Mr. Montegut reviews engineering shop drawings and equipment submittals from the contractor for acceptance to fabricate, install and purchase equipment for construction. Review and respond to request for information (RFIs). Project limits include the I-10 / Morrison Road Interchange. Project makeup consists of the following types of roadway lighting standards: ground mount low mast, structure mount low mast, ground mount high mast, and underpass.
10/18-06/22	<b>H.010916 / LADOTD, PRIEN LAKE MAIN SPAN RE-DECK: Lake Charles, LA. Construction Engineering and Inspection -</b> Mr. Montegut reviews engineering shop drawings and equipment submittals from the contractor for acceptance to fabricate, install and purchase equipment for construction. Review and respond to request for information (RFIs). Project limits include the I-210 Bridge over Prien Lake and the I-210 / Cove Lane Interchange. Project makeup consists of the following types of roadway lighting standards: 12 ground mount low mast and 50 barrier mount low mast.
10/19-Present	<b>H.011670 / LADOTD, LOYOLA INTERCHANGE IMPROVEMENTS: Kenner, LA. Electrical Review -</b> Mr. Montegut provided review and comment recommendations for the pre-design lighting report submitted by the design firm for this project. The pre-design lighting report consisted of a photometric analysis detailing the existing lighting system and provided an overview of the proposed lighting design concepts for modifications to the I-10 interchange at Loyola Drive.

## 16. Staff Experience

### PERSONNEL RESUMES **Electrical Inspection**

Firm employed by <b>G.E.C., Inc.</b>	
Name	<b>George "Bowman" Guttner</b> Years of relevant experience with this employer <b>18</b>
Title	<b>Senior Electrical / ITS Inspector</b> Years of relevant experience with other employer(s) <b>5</b>
Degree(s) / Years / Specialization	N/A
Active registration number / state / expiration date	N/A
Year registered	N/A Discipline N/A
Contract role(s) / brief description of responsibilities	Role on this Project: <b>Electrical Inspector</b>
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	<i>Mr. Guttner has over 23 years of experience in electrical system design and construction of low voltage systems, 8 of which he worked as a licensed electrical contractor in the state of Louisiana. He also has experience in the installation and maintenance of UPS and standby generator backup power systems. He is the lead inspector for GEC on electrical power construction projects. He has the following certifications: ATSSA Flagger, TCS Refresher Work Zone, NFPA 70 &amp; 70E Certification</i>
07/2017 - Present	<b>4400005267, H.003074.5 / WILLIAMS BLVD – VETERANS BLVD., ROUTE I-10: Jefferson Parish, LA. Electrical Inspector</b> - Mr. Guttner has performed site research of existing conditions, obtained utility locates, assisted in the lighting layout and plan review process, and coordinated with the FAA and local utility company relating to permits and planning.
07/18 - 05/19 (Design) 06/20 – 02/23 (Construction)	<b>RETAINER NO. 44-2746 &amp; 44-11353, T.O. H.013442.5 &amp; H.013442.6 / CROWDER BLVD INTERSTATE LIGHTING: New Orleans, LA. Inspector</b> - Project limits include the I-10 / Crowder Blvd. Interchange. During the design phase, Mr. Guttner coordinated utility locates, submitted FAA permit applications, and performed plan reviews. During the construction phase, Mr. Guttner was the lead electrical inspector for the project which consisted of: ground mount low mast, structure mount low mast, ground mount high mast, and underpass. In addition, lighting control, power distribution, and system protection was included.
12/22 - Present	<b>4400011354, H.013617.6 / IDIQ CONTRACT FOR ELECTRICAL STATEWIDE - I-10, I-610E INTERCHANGE LIGHTING. TASK ORDER NO. 1: New Orleans, LA. Electrical Inspector</b> - Mr. Guttner is GEC's lead electrical inspector for the project, and has reviewed contractor submittals.
04/19 - Present	<b>4400010428, H.004774.5 &amp; S.P.# H.007300.6 / KANSAS LANE - GARRETT RD CONNECTOR AND I-20 IMPROVEMENTS: Ouachita Parish, LA. Electrical Design</b> - Mr. Guttner has assisted in the development of lighting layout sheets, FAA permit applications, existing utility locates & coordination, and plan review process.
05/18 – 8/20	<b>T.O. H.012404.6 / OFF RAMPS AT LA 182 LIGHTING: Lafayette, LA. Inspector</b> - Project limits include the I-10 off ramps at LA 182 Interchange. Mr. Guttner was an inspector for the project which consisted of: ground mount low mast poles
12/19-08/22	<b>T.O. H.012874.6 / I-55 LA 22 INTERSTATE LIGHTING: Tangipahoa Parish, LA. Inspector</b> - Project limits include the I-10 / LA-22 Interchange. Mr. Guttner performed construction site visits, reviewed contractor RFIs, and provided site visit reports and punchlists. He was an inspector for the project which consisted of: ground mount low mast, ground mount high mast. In addition, lighting control, power distribution, and system protection is included.
09/20-Present	<b>H.013897 / I-10 &amp; I-12 COLLEGE DR. FLYOVER RAMP DESIGN-BUILD PROJECT: East Baton Rouge Parish, LA. Electrical Inspector</b> - Mr. Guttner has assisted with photometric and lighting layout design and ITS for the GEC/Boh Bros. team. GEC is responsible for engineering and design quality control services as necessary to complete the design and construction for the I-10 & I-12 College Dr Flyover Ramp Design-Build Project.

Firm employed by <b>G.E.C., Inc.</b>	
Name	<b>George "Bowman" Guttner</b> <span style="float: right;"><i>Continued Resume</i></span>
06/12-05/15	<b>ACCESS CONTROL CAMERAS AND WIRELESS RADIO LINKS, PLAQUEMINES PARISH GOVERNMENT: Plaquemine, LA.</b> <i>Project Manager</i> - Mr. Guttner was the project manager and responsible for electrical inspection and reporting. This project includes work performed at the government complex and telecommunications for the parish line to create a secure, camera system. Work included installation of low voltage power and other electrical systems.
02/14-05/15	<b>CAMERAS AND ACCESS CONTROL IN PARISH COURTHOUSE, ST. CHARLES PARISH GOVERNMENT: St Charles Parish, LA.</b> <i>Project Manager</i> - Mr. Guttner was the project manager and responsible for electrical inspection and reporting. This project includes installation of approximately 55 cameras and 20 access control doors to increase the security of the courthouse. Work included installation of low voltage power and other electrical systems.
04/16 – 4/17	<b>RETAINER NO. 44-2746, T.O. H.000687, I-12 AT US 11 INTERCHANGE LIGHTING: Slidell, LA.</b> <i>Electrical Inspector</i> - Mr. Guttner is responsible for electrical inspection and reporting for this project. Services include design, development of plans and specifications, and CE&I under two separate task orders.
10/12-10/18	<b>RETAINER NO. 44-2746, T.O. H.003451 / LA 434 INTERCHANGE LIGHTING: Slidell, LA.</b> <i>Inspector</i> - Project limits include the I-12 / LA 434 Interchange. Mr. Guttner was an inspector for the project which consisted of: 72 ground mount low mast and 4 underpass. In addition, lighting control, power distribution, and system protection is included.
11/15 – 9/18	<b>RETAINER NO. 44-2746, T.O. H.010720, I-12, LA 1088 INTERCHANGE LIGHTING: Slidell, LA.</b> <i>Electrical Inspector</i> - Mr. Guttner is responsible for electrical inspection and reporting for this project. GEC provided design services and construction services under two Task Orders.
08/16 – 11/17	<b>H.012469, LADOTD RETAINER #4400002746, US 190, MISSISSIPPI RIVER BRIDGE – NAVIGATION LIGHT REPLACEMENT: Baton Rouge, LA.</b> <i>Electrical Inspector</i> - Mr. Guttner was responsible for electrical inspection and reporting for this project. GEC provided design services only under this contract.
01/17-11/17 (Design) 04/18 – 6-21 (Construction)	<b>RETAINER NO. 44-2746, T.O. H.012601.5 / READ BLVD INTERSTATE LIGHTING: New Orleans, LA.</b> <i>Inspector</i> - Project limits include the I-10 / Read Blvd. Interchange. Mr. Guttner has assisted in the development of lighting layout sheets, FAA permit applications, existing utility locates & coordination, and plan review process. During Construction, Mr. Guttner was an inspector for the project which consisted of: ground mount low mast, structure mount low mast, ground mount high mast, and underpass. In addition, lighting control, power distribution, and system protection is included.
01/17 - 1/18 (Design) 04/18 – 9/21 (Construction)	<b>RETAINER NO. 44-2746, T.O. H.012602.5 / MORRISON ROAD INTERSTATE LIGHTING: New Orleans, LA.</b> <i>Inspector</i> - Project limits include the I-10 / Morrison Road Interchange. Mr. Guttner has assisted in the development of lighting layout sheets, FAA permit applications, existing utility locates & coordination, and plan review process. During Construction, Mr. Guttner was an inspector for the project which consisted of: ground mount low mast, structure mount low mast, ground mount high mast, and underpass. In addition, lighting control, power distribution, and system protection is included.
09/17-02/18	<b>H.012748 / RETAINER CONTRACT FOR ITS DESIGN AND IMPLEMENTATION SERVICES, BR HUB GENERATORS: Baton Rouge, LA.</b> <i>Inspector</i> - Mr. Guttner assisted with submittal reviews and provided construction support for the Baton Rouge Hubsite generators task order under this retainer.
6/16 – 7-16 (Phase I) 4/18 – 9/22 (Phase II)	<b>EMERGENCY GENERATORS PHASE I AND PHASE II: St John the Baptist Parish.</b> <i>Inspector</i> - Mr. Guttner performed the site inspection for the phase I and phase II generator installations. He assisted the design team with electrical plan layouts, field verification & documentation, utility coordination, and plan reviews. Phase I consisted of the installation of seven standby generators located at various sewer lift stations and treatment plants in St. John the Baptist Parish. Phase II added an additional three generators to existing lift stations.
2/20-03/23	<b>LA SAFE AIRLINE AND MAIN COMPLETE STREETS: St John the Baptist Parish, LA.</b> <i>Electrical Design</i> - Mr. Guttner provided design and utility coordination.

Firm employed by <b>G.E.C., Inc.</b>	
Name	<b>James "Jimmy" Wheeler</b>
Title	<b>Senior ITS Inspector</b>
Degree(s) / Years / Specialization	N/A
Active registration number / state / expiration date	N/A
Year registered	N/A
Discipline	N/A
Contract role(s) / brief description of responsibilities	Role on this Project: <b>Electrical Inspector</b>
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	<i>Mr. Wheeler is a Senior ITS Inspector at GEC with more than 28 years of construction management experience that affords him a wealth of electrical and ITS construction and implementation knowledge. He is the lead inspector for GEC on electrical, ITS, and associated construction projects. In addition, Mr. Wheeler has experience with construction installation and operation including equipment maintenance, heavy equipment operation, installation of dynamic message signs and CCTV cameras with structures in both Louisiana and Texas, installation of bridge mounted conduit and junction boxes and underground conduit and pullboxes, installation of high mast lighting and roadway illumination, installation of electrical service points, installation of guard rail, installation of communication hub buildings, installation of fiber optic cable and splicing, traffic signal build out and commissioning, and setup and execution of lane closures. Mr. Wheeler has the following certifications: 2023 NFPA 70 National Electrical Code (NEC); 2021 NFPA 70E Standard for Electrical Safety; ATSSA Traffic Control Supervisor Refresher Training; ATSSA Certified Flagger; SSPC C-5 Certification</i>
10/18 – 07/22	<b>4400004729; S.P. NO. H.003003 / I-10, LA 328 TO I-49 JUCT.: Lafayette and St Martin Parish, LA. Electrical Inspector</b> - Project includes full-depth replacement of the pavement within the existing lanes, widening the westbound and eastbound pavement surface, and installing concrete median protection. Project replaces the LA 328 overpass and widens the overpasses and structures on Bayou Teche, Vermillion River, Louisiana Ave, Francis Coulee and LA 176 (Moss St). Pavement striping, raised markers, and rumble strips were installed. Mr. Wheeler's primary duties included all low and high mast lighting, along with the complete rebuild of both east and westbound weigh stations weigh-in-motion system.
04/20-Present	<b>H.011670 / I-10/LOYOLA INTERCHANGE IMPROVEMENTS: Jefferson Parish, LA. Electrical Inspector</b> - GEC, selected as the Owner Verification firm, is providing all necessary engineering & related services for Design-Build Construction Support Services for the administration of the Design-Build contract on behalf of LADOTD, along with managing the implementation of the Project's Construction Quality Assurance Program (CQAP). Mr. Wheeler performs electrical inspection services. Mr. Wheeler's duties include inspection of all roadway lighting installation and new traffic signals for Loyola including Louisiana's first DDI Intersection. He also provides full inspection of sound walls and class 2&3 finish on new ramps.
05/08 – 10/13	<b>737-99-0799 / BATON ROUGE TO NEW ORLEANS, ITS – TIM PHASE I, ROUTE I-10-BONNET CARRÉ FLOODWAY, D-B: Statewide, LA. Electrical Inspector</b> - Mr. Wheeler was responsible for electrical inspection and reporting for this project. The project included Design and installation of ITS devices including ground and structure mounted Dynamic Message Signs (DMS), ground and structure mounted Closed Circuit Television Cameras (CCTV), structure mounted Traffic Detectors, underground and structure mounted conduit, power distribution, and wireless and fiber optic communications. Mr. Wheeler performed Quality Control inspection for the D-B team.
06/10 – 08/11	<b>737-99-0604 / BATON ROUGE TO LAFAYETTE, ITS – TIM PHASE 2, ROUTES I-10, I-49, US 90, AND US 190, D-B: Statewide, LA. Electrical Inspector</b> - Mr. Wheeler provided electrical inspection/reporting & CE&I services for installation of 24 CCTV, 4 DMS detection, & wireless/fiber optic communications.
06/11 – 05/14	<b>440000688, H.006761 / ITS - TIM PHASE 3: Statewide, LA. Electrical Inspector</b> - Mr. Wheeler was responsible for electrical inspection and reporting for this project. CE&I for the construction and integration of twelve (12) new DMS sites, forty (40) CCTV sites (new and existing), two (2) new hub sites, eleven (11) RVD sites (new and existing) and thirty (30) miles of new fiber optic network backbone elements.
10/14-01/17	<b>440000688, H.006831 / BATON ROUGE ITS DEPLOYMENT PHASE 3: Statewide, LA. Electrical Inspector</b> - Mr. Wheeler was responsible for electrical inspection and reporting for this project. CE&I for five (5) new DMS sites, ten (10) new CCTV sites, one (1) new hub site, thirty (30) Bluetooth Vehicle Detectors (combined with new and existing sites) and five (5) miles of new fiber optic build-out, conduit, and associated pullboxes.

Firm employed by <b>G.E.C., Inc.</b>	
Name	<b>Reagan "Sean" Johnson</b>
Title	<b>Senior ITS Inspector</b>
Degree(s) / Years / Specialization	A.A. / 1987 / Computer Science
Active registration number / state / expiration date	N/A
Year registered	N/A
Discipline	N/A
Contract role(s) / brief description of responsibilities	Role on this Project: <b>Electrical Inspector</b>
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	<i>Mr. Johnson holds the position of ITS Technician and has over 22 years of experience in computing with skills in UNIX, Linux, and Windows 9xx/NT/2K/XP/server. In addition, he possesses experience with a wide variety of information systems ranging from routing and switching, optical network design, Ethernet network design and management, CCTV video network design and configuration, and point-to-point and point-to-multipoint WAN connectivity. Mr. Johnson is well versed in fiber optic cable outside and inside plant design and handling practices. This includes OTDR analysis, optical budget calculation, cable specification, termination, and selective splicing methods. He has expansive background in design, implementation, integration, and construction inspection. Mr. Johnson has the following certifications: 2023 NFPA 70 National Electrical Code (NEC); 2021 NFPA 70E Standard for Electrical Safety; ATSSA Traffic Control Supervisor Refresher Training; ATSSA Certified Flagger</i>
01/11-12/15	<b>LAKE PONTCHARTRAIN CAUSEWAY BASCULE CONTROL SYSTEM REPLACEMENT, GNOEC: St Tammany and Jefferson Parishes, LA. Electrical Inspector</b> - GEC designed a replacement control system to allow operator control of the bascule bridge system at the North Channel of the Lake Pontchartrain Causeway. Mr. Johnson performed inspection of the installation of new electrical components, PLC, operators control console and roadway lighting systems as well as the testing of these systems to assure that they met the requirements and specifications.
08/17-04/18	<b>44-1634, H.011503 / I-10 TWIN SPANS ITS: Orleans and St Tammany Parishes, LA. Electrical Inspector</b> - The project consisted of construction and integration of one (1) new DMS site, four (4) new CCTV sites, bridge mounted CCTV platforms, and integration into existing fiber optic backbone including new and existing conduit and associated pullboxes.
09/10-12/13	<b>H.006761 / ITS-TRAFFIC INCIDENT MANAGEMENT (TIM-PHASE 3), ROUTES I-10, I-110, I-12, AND US 61, DESIGN BUILD PROJECT: Baton Rouge, LA. ITS Technician</b> - Mr. Johnson responsibility included CE&I for the construction and integration of 12 new DMS sites, 40 CCTV sites (new and existing), 2 new hub sites, 11 RVD sites (new and existing), and fiber optic network backbone elements.
06/10-08/11	<b>737-99-0604 / BATON ROUGE TO LAFAYETTE, ITS – TRAFFIC INCIDENT MANAGEMENT (TIM) PHASE 2, ROUTES I-10, I-49, US 90, AND US 190, DESIGN BUILD PROJECT: Baton Rouge, LA. ITS Technician</b> - Mr. Johnson was responsible for CE&I and plan/submittal review services.
05/08-06/14	<b>737-99-0799 / BATON ROUGE TO NEW ORLEANS, ITS – TRAFFIC INCIDENT MANAGEMENT (TIM) PHASE I, ROUTE I-10 – BONNET CARRE FLOODWAY, DESIGN BUILD PROJECT: Baton Rouge, LA. ITS Technician</b> - Mr. Johnson was responsible for CE&I and plan/submittal review services.
07/16-12/21	<b>H.012381 / FIBER OPTIC MAPPING AND MANAGEMENT: LA. Inspector</b> - Mr. Johnson performed testing and cataloging of the installed DOTD fiber optics systems. Locations include Hammond, Covington, Slidell, Shreveport, Houma, and Baton Rouge. Fiber optic testing was performed across three separate task orders.
09/20-Present	<b>H.013897 / I-10 &amp; I-12 COLLEGE DR. FLYOVER RAMP DESIGN-BUILD PROJECT: East Baton Rouge Parish, LA. Electrical Inspector</b> - Mr. Johnson has been performing site inspection, verifying as-builts, and performing design reviews.

## 16. Staff Experience

### PERSONNEL RESUMES **Structural Design**

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Firm employed by <b>G.E.C., Inc.</b>			
Name	<b>Varaprasad Venkata, PE</b>	Years of relevant experience with this employer	16
Title	<b>Senior Civil / Structural Engineer</b>	Years of relevant experience with other employer(s)	10
Degree(s) / Years / Specialization	B.S. / 1992 / Civil Engineering; M.S. / 1995 / Structural Engineering		
Active registration number / state / expiration date	40594 / Louisiana / 09-30-2024		
Year registered	2016	Discipline	Professional Engineer, Structural
Contract role(s) / brief description of responsibilities	Role on this Project: <b>Structural Engineer</b>		
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
	<i>Mr. Venkata has 22 years of structural engineering experience involving highway bridges, low &amp; high mast light pole supports, highway sign supports, hurricane protection systems, water treatment and distribution facilities, and industrial structures. He has provided design services for state agencies inclusive of FHWA funding, tolling commissions, as well as non-state entities and private industry. His design experience includes AASHTO structural sign supports for highway signs, traffic signal supports, camera pole platforms and supports, DMS sign supports and main platforms, and low and high mast light pole attachments and foundations. His bridge design experience includes the widening of existing structures and new structures for highly congested interstates and major highways, which includes, but not limited to, the design of pile bents, column bents, PSC girders, concrete deck, pre-stressed Type III girder spans, and steel girders.</i>		
10/20-12/20	<b>4400011354, H.013442.6 / IDIQ CONTRACT FOR ELECTRICAL STATEWIDE - I-10, CROWDER BOULEVARD INTERSTATE LIGHTING: New Orleans, LA. Structural Engineer</b> - Mr. Venkata provided structural design of light pole supports foundations and RFI responses during construction.		
05/21-12/22	<b>4400011354, H.013617.6 / IDIQ CONTRACT FOR ELECTRICAL STATEWIDE - I-10, I-610E INTERCHANGE LIGHTING, TASK ORDER NO. 1: New Orleans, LA. Structural Engineer</b> - Mr. Venkata provided the structural design of high mast and low mast light pole supports foundations. Also, reviewed shop drawings for light poles.		
02/20-Present	<b>H.013897 / I-10 &amp; I-12 COLLEGE DR. FLYOVER RAMP DESIGN-BUILD PROJECT: East Baton Rouge Parish, LA. Primary Bridge Engineer</b> - Mr. Venkata is the Primary Bridge Engineer for the I-10 & I-12 College Dr. Flyover Design-Build Project. He designed and supervised the design of concrete girder spans for the Flyover and concrete decks for both the Flyover and Ward Creek Bridge. Additionally, Mr. Venkata designed and supervised plan development for all Substructures, Median Barriers, and Moment Slabs on the project. Currently, he is working on developing plans for the phased replacement of deck joints on the Ward Creek Bridge, to ensure maintenance of 5 lanes of traffic on I-10 westbound. Mr. Venkata also analyzed and designed the median barriers to support structure mount low mast poles. He designed foundations for ground mount high and low mast pole support foundations and reviewed shop drawings and pole design calculations submittals.		
07/12-Present	<b>H.003074 / I-10 WIDENING, WILLIAMS TO VETERANS: New Orleans, LA. Structural Engineer</b> - Mr. Venkata performed superstructure and substructure load rating for existing bridges and ramps for this highly congested 2.28-mile urban interstate. The extensive load rating and documentation provided to LADOTD allowed an informed decision to be made on whether to widen or replace the existing bridges at Veterans crossing. Mr. Venkata performed structural design of Pile bents, column bents, LG type PSC Girders, steel plate girders, bearing pads, deck slabs, curtain walls for new Southbound bridge, Northbound bridge and off Ramp to Veterans Blvd. in accordance with AASHTO LRFD Bridge design specifications and LADOTD BDEM. He also assisted in the development of plans and specs. Mr. Venkata worked on design and as designed rating for both bridges in accordance with AASHTO LRFD Bridge Design Specifications and LADOTD Bridge design standards. In addition, Mr. Venkata provided design of two structure-mounted trusses (overhead and cantilever) for relocated signs.		
10/12-12/12	<b>4400000688, H.009088.6 / DMS LADDER SYSTEM - PHASE 1: St John Baptist, St Charles &amp; Jefferson Parishes, LA. Structural Engineer</b> - Mr. Venkata provided QC support on structural design of the ladder system and maintenance platforms (steel) for the top mounted and cantilever overhead truss mounted DMS signs at 14 sites in accordance with AASHTO and LADOTD standard specifications.		

Firm employed by <b>G.E.C., Inc.</b>	
Name	<b>Varaprasad Venkata, PE</b> <span style="float: right;"><i>Continued Resume</i></span>
06/12-12/12	<b>H.009427 / NEW ORLEANS CORE ITS: Kenner, Metairie and New Orleans, LA. Structural Engineer</b> - GEC was tasked by LADOTD to provide design services for the New Orleans Core ITS Project. Four of the DMS were supported on at-grade cantilever trusses and two DMS were supported on at-grade truss spans. The at-grade truss span over I-10 near downtown New Orleans consisted of one two-span continuous truss over all lanes of interstate traffic supporting 1 sign (2 total) for each direction. This allowed for a more optimal location of the signs. Mr. Venkata provided Q.C. for structural design of the steel truss and foundation. All design was in accordance with AASHTO Standard Specifications for Highway Signs, Luminaries and Traffic Signals.
03/09-12/09	<b>737-99-0799 / BATON ROUGE TO NEW ORLEANS - ITS - TIM PHASE 1: St Charles, LA. Structural Engineer</b> - Mr. Venkata performed structural design for the pile bent mounted camera poles steel support brackets, control cabinet support platforms (steel), and anchor bolts in accordance with AASHTO "Structural Supports for Highway Signs, Luminaries, and Traffic Signals", ASCE -07 (Wind loading), ACI – 318 (Anchor bolts) and LADOTD Bridge Design Manual.
06/13-11/13	<b>440000688, H.010674.5/ DMS LADDER SYSTEM – PHASE 2: East Baton Rouge, West Baton Rouge, Iberville and Ascension Parishes &amp; Caddo and Bossier Parishes LA. Structural Engineer</b> - Mr. Venkata performed structural design for this project. This includes design of the ladder system and maintenance platforms (steel) for top mounted and cantilever overhead truss mounted DMS signs at 20 sites in accordance with AASHTO and LADOTD standard specifications. Services included design, development of plans and specifications.
05/14-08/14	<b>4400003994, H.010677.5 / DMS LADDER SYSTEM – PHASE 3: Lafayette, St Martin, St Landry Parishes, LA. Structural Engineer</b> - Mr. Venkata performed structural design for this project. This includes design of replacement of support posts for the existing top mounted DMS Signs at 4 sites and the ladder system and maintenance platforms (steel) for top mounted DMS signs at 6 sites in accordance with AASHTO and LADOTD standard specifications. Services included design, development of plans, and specifications.
06/13-11/13	<b>4400001634, H.010705 / DMS LADDER SYSTEM – PHASE 4: East Baton Rouge, West Baton Rouge, Iberville and Ascension Parishes &amp; Caddo and Bossier Parishes LA. Structural Engineer</b> - Mr. Venkata performed structural design for this project. This includes design of the ladder system and maintenance platforms (steel) for top mounted and cantilever overhead truss mounted DMS signs 18 sites in accordance with AASHTO and LADOTD standard specifications. Services included design, development of plans and specifications.
06/15-09/15	<b>4400003994, H.011499.5 / DMS LADDER SYSTEM – PHASE 5: Jefferson and Orleans Parishes, LA. Structural Engineer</b> - Mr. Venkata performed structural design for this project. This includes design of the Ladder system and Maintenance platforms (steel) for cantilever truss mounted DMS signs and overhead truss mounted DMS signs at 8 sites in accordance with AASHTO and LADOTD standard specifications. Services included design, development of plans and specifications.
06/14-01/15	<b>4400003994, H.011182 / ITS DYNAMIC MESSAGE SIGNS (KENNER): Jefferson Parish, LA. Structural Engineer</b> - Mr. Venkata performed structural design for this project. This includes design of the cantilever steel post, base plate, anchor bolts, foundation, and ladder system for 3 new DMS sites and design of control panel support foundations in accordance with AASHTO and LADOTD standard specifications. Services included design, development of plans and specifications.
09/14-08/15	<b>4400003994, H.010192 / LAKE CHARLES ITS – PHASE 2: Calcasieu, LA. Structural Engineer</b> - Mr. Venkata performed structural design for this project. This includes design of the cantilever steel post, base plate, anchor bolts, foundation and ladder system for 2 new DMS sites and design of control panel support foundation in accordance with AASHTO and LA DOTD standard specifications. Also performed design for ladder system for the existing overhead DMS truss. Services included design, development of plans and specifications.
03/15-11/15	<b>4400003994, H.011472 / BONNET CARRE EMERGENCY CROSSING: St. John and St. Charles Parishes, LA. Structural Engineer</b> - Mr. Venkata performed structural design for this project. This includes design of the Structure mounted overhead DMS Truss supports, Base plates, Anchor bolts and Ladder system in accordance with AASHTO and LADOTD standard specifications. Services included design, development of plans and specifications.

Firm employed by <b>G.E.C., Inc.</b>	
Name	<b>Keith Rebello, PhD, PE</b>
Title	<b>Senior Structural Engineer</b>
Degree(s) / Years / Specialization	B.S. / 1983 / Civil Engineering, M.S. / 1986 / Civil Engineering, Ph.D. / 1990 / Civil Engineering
Active registration number / state / expiration date	24937 / Louisiana / 03-31-2025
Year registered	1992
Discipline	Professional Engineer, Civil
Contract role(s) / brief description of responsibilities	Role on this Project: <b>Structural Engineer</b>
Experience dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	<i>Dr. Rebello has 30 years of structural engineering experience following his research work on non-linear deformation behavior of pre-stressed concrete bridges. He has designed a variety of structural components for electrical projects including light poles (steel and aluminum) and light pole foundations including anchor bolts, base plate, concrete components, and drilled shafts, as well as structure mounted light pole attachments including barrier mounted structural components, such as concrete blisters, steel brackets, and concrete anchors in accordance with both AASHTO Standard and LRFD Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals. His design expertise includes complex interstate and highway bridges (new, replacement, rehabilitation and widening), retaining walls, noise walls, buildings, water and wastewater treatment facilities, hurricane protection systems &amp; hydraulic structures. He has experience in rating of bridges in accordance with LADOTD and AASHTO MBE requirements and performed ratings using AASHTOWare Bridge Rating (Virtis) software and finite element analysis.</i>
10/12-10/18	<b>4400002746 RETAINER CONTRACT FOR ELECTRICAL SERVICES: Statewide, LA. Structural Engineer</b> - Dr. Rebello provided lighting systems support designs for the various projects included in this contract. He reviewed manufacturer provided shop drawings and calculations.
07/19-Present	<b>4400011354 RETAINER CONTRACT FOR ELECTRICAL SERVICES: Statewide, LA. Structural Engineer</b> - Dr. Rebello is currently supervising design and designing supports in accordance with "AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals" for Interchange and Navigation Lighting on task orders included in this retainer contract.
04/15-09/18	<b>DMS SUPPORTS FOR GNOEC PROJECT DMS – 429: St Tammany and Jefferson Parishes, LA. Structural Engineer</b> - Dr. Rebello designed supports for Dynamic Message Signs on the Crossovers on the Lake Pontchartrain Causeway as well as on the East and West Approaches to the Causeway. The supports consist of a steel framed structure anchored to concrete blocks with anchor bolts and base plates. The concrete blocks are in turn anchored to the Crossover without damaging or overstressing the existing structure. Additionally, he designed supports for Camera Poles on the Crossovers. Designs were in conformance with "AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals". Dr. Rebello also reviewed shop drawings and calculations prepared by the camera pole manufacturer.
09/21-Present	<b>GNOEC PROJECT UPGRADE CCTV SYSTEM - 207: St Tammany and Jefferson Parishes, LA. Structural Engineer</b> - Dr. Rebello designed a special steel bracket support for a 40'-0" tall camera pole. The steel bracket was attached to the end of a bridge bent on the south end of the southbound Lake Pontchartrain Causeway Bridge. He obtained loads from the camera pole by applying guidance given in "AASHTO LRFD Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals". He designed anchorage of the support to the bent to avoid all bent cap reinforcement using post-installed anchor rods. He reviewed shop drawings and calculations prepared by the camera pole manufacturer. Additionally, Dr. Rebello designed a drilled shaft foundation with anchors provided by the manufacturer to support a ground-mounted light pole.
06/17-06/18	<b>44-02746, H.010916, PRIEN LAKE MAIN SPAN RE-DECK: Lake Charles, LA. Structural Engineer</b> - Dr. Rebello designed and modified blister-type light pole supports in the median barriers and outside barriers on the I-10 Bridge over Prien Lake. Attachment of the new supports required the design of reinforcement anchorage into the deck and existing barriers. Loads were as given in "AASHTO LRFD Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals". He reviewed shop drawings and calculations prepared by the light pole manufacturer.

Firm employed by **G.E.C., Inc.**

Name	Keith Rebello, PhD, PE <span style="float: right;"><i>Continued Resume</i></span>
10/20-Present	<b>H.004100 – I-10, LA 415 TO ESSEN LANE: Baton Rouge, LA.</b> <i>Structural Engineer</i> - Dr. Rebello designed a two-span truss spanning a future widened I-10 near Dalrymple Dr. to support multiple Dynamic Message Signs as part of the ITS portion of this project. Additionally, he designed light pole supports on the wall cap on Wall No. 12. Both truss supports and light pole supports are anchored to concrete foundations using pre-installed concrete anchor rods. All designs are in accordance with "AASHTO LRFD Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals".
01/12-10/14	<b>H.009427.5 – NEW ORLEANS CORE ITS: New Orleans, LA.</b> <i>Structural Engineer</i> - Dr. Rebello designed a two-span truss and cantilever trusses to support Dynamic Message Signs on I-10 in Jefferson and Orleans parishes. Truss supports are anchored to concrete foundations using pre-installed concrete anchor rods with heavy base plates. All designs were in accordance with "AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires and Traffic Signals".

## 16. Staff Experience

### PERSONNEL RESUMES **Survey**

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Firm employed by <b>GOTECH, Inc.</b>			
Name	<b>Bruce Dyson, PE, PLS</b>	Years of relevant experience with this employer	29
Title	<b>General Manager</b>	Years of relevant experience with other employer(s)	17
Degree(s) / Years / Specialization		B.S. / 1978 / Civil Engineering	
Active registration number / state / expiration date		20162 / Louisiana / 03-31-2024 4670 / Louisiana / 03-31-2024	
Year registered	1982 1992	Discipline	Professional Engineer, Civil Professional Land Surveyor
Contract role(s) / brief description of responsibilities		Role on this Project: <b>Professional Land Surveyor</b>	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).		
46 years of experience	<p><i>Mr. Dyson has been involved in a variety of survey projects. He is experienced in the areas of civil engineering, project management, construction administration and management, and cost estimating. Specific areas of expertise include drainage improvements, land surveying and flood control. Mr. Dyson has supervised up to five survey crews at GOTECH working on a variety of public and private contracts such as contracts with LA DOTD, US Army Corps of Engineers, Federal Aviation Administration, Parish governments, and New Orleans Sewerage &amp; Water Board. • Traffic Control Technician – ATSSA Expires 06/21/2026 • Traffic Control Supervisor – ATSSA Expires 06/22/2026 • Registered Flagger – ATSSA Expires 08/04/2026</i></p>		
04/15 - Present	<p><b>LADOTD CONTRACT NO. 4400004485; STATE PROJECT NO. H.009320:</b> Acadian Rd Roundabout, Route LA 20 (Canal Blvd) &amp; Local Routes (Back Street, Jackson Street, Thompson Place), Thibodaux, LA - Mr. Dyson was the Engineering / Survey Manager providing professional supervision and project management oversight for the right-of-way mapping services to support parcel acquisition required for design of a new road roundabout in Thibodaux, Louisiana. Project included field property surveys performed to DOTD survey standards and parcel title work reviews of affected properties. Final right-of-way map and parcel description deliverables, along with MicroStation parcel mapping files, were reviewed and submitted in accordance with established DOTD Location and Survey delivery requirements.</p>		
10/17 - 03/18	<p><b>LADOTD CONTRACT NO. 4400002746; STATE PROJECT NO. H. 012602.5:</b> I-10 at Morrison Rd Interstate Lighting, Orleans Parish, LA – Mr. Dyson provided project oversight as Engineering / Surveyor Manager with supervision and project management of topographic surveys to support various interstate lighting design projects. The projects included static GPS control surveys and topographic field surveys performed to DOTD survey standards within the full limits of the highway interchange. The survey field information gathered included roadway surface features, drainage structures, designated subsurface utility locations, and structure data on elevated portions of the interstate bridge overpass. Final deliverables, and MicroStation mapping files, were certified and submitted in accordance with established DOTD Location and Survey delivery requirements.</p>		
02/14 - 11/16	<p><b>LADOTD PROJECT NO. H.007855:</b> LA Hwy 431 at LA Hwy 934 Intersection Improvements, Ascension Parish, LA – Mr. Dyson was the quality control reviewer for the Hwy 431 / 934 Intersection Improvements project. GOTECH provided topographic surveying and mapping services for the project. The work was located in Ascension Parish on what are currently two-lane highways with narrow shoulders and adjacent open ditch drainage. GOTECH field crews obtained field data in a format that was used to in MicroStation CADD drawings with Inroad’s software. GOTECH also mapped the data in an AutoCAD version for the designers to use. The topographic map showed existing features as pavement, ditches, culverts, lighting, signs, utility poles, traffic controls, driveways, and other utilities. GOTECH also developed an existing drainage map for the project. The watershed covered approximately 25 acres of contributing drainage area.</p>		
10/12 - 12/14	<p><b>LADOTD PROJECT NO. H.009276:</b> I-10 (LA 30 to LA 22), Ascension Parish, LA – Mr. Dyson was the quality control reviewer for the Interstate 10 project in Ascension Parish. The project included a segment of the Interstate from LA Hwy 30 to LA Hwy 22. Cross Sections were taken from right-of-way line to right-of-way line to provide data for the Interstate widening design. Overpass details were obtained to show bridge details, bent locations, piling spacing and clearance dimensions.</p>		

Firm employed by **GOTECH, Inc.**

Name	Bruce Dyson, PE, PLS <span style="float: right;"><i>Continued Resume</i></span>
09/07 - 09/13	<b>LADOTD PROJECT NO. 704-92-0036 &amp; 704-92-0037:</b> New Orleans Submerged Streets Repair-Permanent Repair to Federal Aid Eligible Roads as a Result of Damage Due to Hurricane Katrina in 2005 - Mr. Dyson was the Engineering Coordinator for this project. GOTECH provided topographic surveying, preliminary and final roadway plans, and construction support for the project streets located in Jefferson and Orleans Parishes.
02/06 - 08/11	<b>LADOTD PROJECT NO. 052-02-0024:</b> John James Audubon Bridge Design/Build Project, St. Francisville, LA - Mr. Dyson was an assistant design engineer on the project, performing quality control reviews on the construction documents. The cable-stayed bridge structure crossed the Mississippi River linking the St. Francisville area with the New Roads community. Approximately 3.5 miles of a mainline and sideroad network were designed by GOTECH. The project involved intersection designs, drainage analysis, alignment geometric designs, profile/grade analysis and cost estimating.

Firm employed by <b>GOTECH, Inc.</b>	
Name	<b>Robert Price, PLS</b> Years of relevant experience with this employer 5
Title	<b>Director of Operations</b> Years of relevant experience with other employer(s) 20
Degree(s) / Years / Specialization	M.S. / 2009 / Engineering & Technology Management; B.S. / 1997 / Survey & Mapping; B.S. / 1993 / Industrial Technology & Building Construction
Active registration number / state / expiration date	4889 / Louisiana / 03-31-2024
Year registered	1992 Discipline Professional Land Surveyor
Contract role(s) / brief description of responsibilities	Role on this Project: <b>Professional Land Surveyor</b>
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
25 years of experience	<i>Mr. Robert Price is a Licensed Professional Land Surveyor with more than 20 years of experience in land surveying and mapping; project management; and personnel management. He has provided surveying and utility location designation support for pipeline, road improvement, LNG facilities, oil and gas well locations, and private development projects. • Traffic Control Technician – ATSSA Expires 06/21/2026 • Traffic Control Supervisor – ATSSA Expires 06/22/2026 • Registered Flagger – ATSSA Expires 08/12/2026</i>
04/15 - Present	<b>LADOTD CONTRACT NO. 4400004485; STATE PROJECT NO. H.009320:</b> Acadian Rd Roundabout, Route LA 20 (Canal Blvd) & Local Routes (Back Street, Jackson Street, Thompson Place), Thibodaux, LA Mr. Price is the Professional Land Surveyor providing professional supervision and project management oversight for the right-of-way mapping services to support parcel acquisition required for design of a new road roundabout in Thibodaux, Louisiana. Project included field property surveys performed to DOTD survey standards and parcel title work reviews of affected properties. Final right-of-way map and parcel description deliverables, along with MicroStation parcel mapping files, were reviewed and submitted in accordance with established DOTD Location and Survey delivery requirements.
10/17 - Present	<b>MOVE ASCENSION HENRY ROAD SAFETY WIDENING (LA 73 TILLOTSON ROAD/AKINS ROAD):</b> Ascension Parish, LA. Mr. Price is the project manager providing the topographic surveying and mapping services to support the design and right-of-way acquisition for the Move Ascension - Henry Road widening project. Project surveys were in support of new design to widen approximately 8-miles of roadway in Ascension Parish. Sub to GSA, Inc.
04/18 - 06/18	<b>LADOTD CONTRACT NO. 4400005891; STATE PROJECT NO. H.012479:</b> Local Road Safety Program / Safe Routes to School Peltier Park Sidewalks Mr. Price was the Survey Project Manager managing the topographic survey to support design for various sidewalk, driveway and handicapped curbed ramp improvements along the perimeter of Peltier Park in Thibodaux, Louisiana. Project field activities included a 2,400-linear foot existing conditions and utility survey utilizing Louisiana DOTD electronic data collection standards. The final deliverables for the project consisted of detailed plan/profile sheets drawn for the project alignment.
05/17 - 07/17	<b>LADOTD CONTRACT NO. 4400005660; STATE PROJECT NO. H.012874.5:</b> I-55 at Hwy 22 Interchange Lighting, Tangipahoa Parish, LA As Survey Project Manager, Mr. Price professionally managed the topographic and utility location survey services in support of design plans and specifications for the I-55 at LA Hwy 22 Interchange Lighting in Tangipahoa Parish. Survey crews conducted a complete topographic, elevation and utility survey within the entire limits of the I-55 Interchange with LA Highway 22. The topographic survey included data collected on the highway crossing exit/entrance ramps and elevated overpasses in addition to the location of both above ground and subsurface utilities required to facilitate design of lighting structures. All final deliverables were certified and submitted in strict accordance with DOTD Location and Survey standards.
10/17 - 03/18	<b>LADOTD CONTRACT NO. 4400002746; STATE PROJECT NO. H.012602.5:</b> I-10 at Morrison Rd Interstate Lighting, Orleans Parish, LA Mr. Price provided project oversight as a Professional Land Surveyor with supervision and project management of topographic surveys to support various interstate lighting design projects. The projects included static GPS control surveys and topographic field surveys performed to DOTD survey standards within the full limits of the highway interchange. The survey field information gathered included roadway surface features, drainage structures, designated subsurface utility locations, and structure data on elevated portions of the interstate bridge overpass. Final deliverables, and MicroStation mapping files, were certified and submitted in accordance with established DOTD Location and survey delivery requirements.

## 17. Firm Experience

Firm Name		<b>G.E.C., Inc. (sub: GOTECH, Inc.)</b>		Past Performance Evaluation Discipline(s)*	<b>** Other (Electrical)</b>
Project Name	<b>Retainer Contract for Electrical Services</b>			Firm responsibility (prime or sub?)	Prime
Project Number	4400011354	Owner's Name	LADOTD		
Project Location	Statewide, Louisiana		Owner's Project Manager	Agnes Fung, PE, PMP	
Owner's address, phone, email	1201 Capital Access Road, Baton Rouge, LA 70804, (225) 379-1352, Agnes.Fung@la.gov				
Services commenced by this firm (mm/yy)	07/19	Total consultant contract cost (\$1,000's)			\$ 1,100
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)			\$ 1,100

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

\* If there is more than one past performance evaluation discipline included in the proposal, then indicate which past performance evaluation discipline(s) this project is being used to represent.

\*\*This field cannot be left blank and N/A is not acceptable. The only past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other (please specify).

In July 2019, GEC was selected by LADOTD, with GOTECH, Inc. as a sub, for a six year retainer contract to provide Stage 3 (Design) and Stage 5 (Construction Support/Inspection), services.

GEC's design services include preparation of construction plans, specifications and special provisions, feasibility studies, construction cost estimates, photometric analysis of new and existing systems, and engineering calculations (including structural and arc flash analysis).

GEC also provides construction related engineering services for existing and proposed roadway lighting projects including shop drawing and submittal reviews. Finally, GEC performs other electrical design and construction services as requested by LADOTD.

Task orders include:

- H.013442, I-10: Crowder Blvd. Interstate Lighting, Route I-10, Orleans Parish: GEC provided construction related engineering services. (05/20-03/23) (pictured right)
- H.013617.5, I-10: I-610 E Interchange Lighting, Route I-10, Orleans Parish: GEC is providing plans, specifications and special provisions, construction estimate, photometric, and engineering calculations services for a complete lighting system for the interchange, including ramps and the intersection of these two interstates. Design is in accordance with DOTD Illumination & Electrical Standards and AASHTO Design Guides, including local and applicable codes. A second task order was issued for construction related engineering services.
- H.014552.5, I-49: LA 31 Interchange Lighting (Opelousas)
- H.014553.5, I-49: LA 3233 Interchange Lighting (Opelousas)
- H.012469.5, US 190: MRB-Navigation Light Replacement



GEC is designing multiple interstate intersection lighting projects for this current retainer contract. GEC's sub GOTECH has completed four survey task orders to LADOTD standards.

- H.014556.5, I-49: US 190 Interchange Lighting (Opelousas)
- H.014557.5, I-49: Judge Walsh Drive Interchange Lighting (Opelousas)

GEC Firm Members Involved: Cary Bourgeois, PE, Mickey Prattini Jr., PE, Thomas Coerver Jr., PE, Michael Chiasson, PE, Keith Rebello, PhD, PE, Varaprasad Venkata, PE, Luis Diaz, EI, Nick Montegut, George "Bowman" Guttner, James "Jimmy" Wheeler

GOTECH Firm Members Involved: Robert Price, PLS, Bruce Dyson, PLS

Firm Name	<b>G.E.C., Inc. (sub: GOTECH, Inc.)</b>		Past Performance Evaluation Discipline(s) *	<b>** Other (Electrical)</b>
Project Name	<b>Retainer Contract for Electrical Services</b>		Firm responsibility (prime or sub?)	Prime
Project Number	4400002746	Owner's Name	LADOTD	
Project Location	Statewide, Louisiana	Owner's Project Manager	Joseph Douglas, PE	
Owner's address, phone, email	1201 Capital Access Road, Baton Rouge, LA 70804, (225) 379-1315, Joseph.douglas@la.gov			
Services commenced by this firm (mm/yy)	10/12	Total consultant contract cost (\$1,000's)	\$ 4,536	
Services completed by this firm (mm/yy)	10/18	Cost of consultant services provided by this firm (\$1,000's)	\$ 4,536	

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

\* If there is more than one past performance evaluation discipline included in the proposal, then indicate which past performance evaluation discipline(s) this project is being used to represent.

\*\* This field cannot be left blank and N/A is not acceptable. The only past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other (please specify).

GEC was selected by LADOTD, with GOTECH, Inc. as a sub, for a six-year retainer contract to provide Stage 3 (design – Part I, III, and IV) and Stage 5 (construction – Part I and II), services. Design services included preparation of construction plans, specifications and special provisions, feasibility studies, construction cost estimates, photometric analysis of new and existing systems, and engineering calculations (including structural and arc flash analysis). GEC also provided construction related engineering services for existing and proposed roadway lighting projects including shop drawing and submittal reviews. In addition, the scope of work included the performance of independent reviews on lighting and enhancement projects (designed by others) and for permit review as submitted by the DOTD Project Manager. Finally, GEC performed other electrical design and construction services as requested by LADOTD.

This retainer contract included two pilot projects to install the first two LADOTD interstate lighting systems using LED high mast and LED low mast roadway lighting. In addition, GEC performed the design for a pilot project to install the first remote monitoring system on a LADOTD lighting project.

For this contract, GEC was prime with one sub-consultant for survey tasks. This retainer contract included two pilot projects to install the first two LADOTD interstate lighting systems using LED high mast and LED low mast roadway lighting. Various lighting was included on these contracts including high mast, low mast, underpass, navigation, and aviation. A total of 21 task orders were executed; selected projects (and their descriptions included):

- Project No. H.010440, I-210 Over Calcasieu River West of I-10 Interstate Lighting – Lake Charles, LA. Project included 8000' of bridge and two major interchanges.
- Project No. H.003452/H.000687, I-12 @ Northshore Blvd. Interchange Lighting/ US-11 Interchange Lighting – Slidell, LA. These projects were the first two LED projects in Louisiana and included both high mast and low mast light standards.
- Project No. H.010916, Prien Lake Main Span Re-Dec, Lake Charles, LA. Three task orders made up this project to address items discovered on H.010440.
- Project No. H.012469, US 190: Miss River Br – Navigation Light Replacement, Baton Rouge, LA. Project included navigation & aviation lighting.
- Project No. H.012601.5/H.012602.5, Read Blvd Interstate Lighting/ Morrison Road Interstate Lighting, New Orleans, LA. Both projects included a complete rehabilitation (and upgrade to LED) of the respective lighting system including the addition of high mast and underpass lighting at each.
- Project No. H. 003495 & H.011111, I-49 North (I-220 – MLK Drive) Segment K – Shreveport, LA.
- Project No. H.000687, I-12 @ US-11 Interchange Lighting – Slidell, LA.
- Project No. H.010720, I-12 @ LA 1088 Interchange Lighting – Slidell, LA.
- Project No. H.009185, I-12 Northshore/Airport Rd. - US 11, Slidell, LA.
- Project No. H.010171, COA Versailles Blvd. Roadway Lighting, Alexandria, LA.
- Project No. H.003451, LA 434 Interchange Lighting (Lacombe), Slidell, LA.
- Project No. H.012602.5, Morrison Road Interstate Lighting, New Orleans, LA.

GEC regularly coordinated with multiple local, state, and federal agencies and entities. These included: Federal Aviation Administration, United States Coast Guard, Amtrak and Kansas City Southern railroads, New Orleans Parks and Parkways, LADOTD Electrical, Road, and Bridge Design, various electrical contractors, and other design consultants.

*GEC Firm Members Involved: Cary Bourgeois, PE, Mickey Prattini Jr., PE, Thomas Coerver Jr., PE, Michael Chiasson, PE, Keith Rebello, PhD, PE, Varaprasad Venkata, PE, Luis Diaz, EI, Nick Montegut, George "Bowman" Guttner, James "Jimmy" Wheeler*

*GOTECH Firm Members Involved: Robert Price, PLS, Bruce Dyson, PLS*

Firm Name		<b>G.E.C., Inc.</b>		Past Performance Evaluation Discipline(s) *		<b>** Other (Electrical)</b>	
Project Name	<b>Kansas Lane – Garrett Rd Connector</b>			Firm responsibility (prime or sub?)		Sub	
Project Number	H.004774.5/H.007300.6		Owner's Name	LADOTD			
Project Location	Ouachita Parish, LA		Owner's Project Manager	Catherine Mastin			
Owner's address, phone, email	1201 Capital Access Road, Baton Rouge, LA 70804, (225) 379-1652, Catherine.mastin@la.gov						
Services commenced by this firm (mm/yy)	09/17		Total consultant contract cost (\$1,000's)	\$ 527			
Services completed by this firm (mm/yy)	Ongoing		Cost of consultant services provided by this firm (\$1,000's)	\$ 527			

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

\* If there is more than one past performance evaluation discipline included in the proposal, then indicate which past performance evaluation discipline(s) this project is being used to represent.

\*\*This field cannot be left blank and N/A is not acceptable. The only past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other (please specify).

GEC is member of the design team currently spearheaded by Lazenby & Associates, Inc. GEC completed a lighting feasibility analysis for new lighting to be installed along with 5 new roundabouts under this project. The project limits are the I-20 / Kansas Lane interchange in Monroe and the overall project goal is to implement a grade separated bridge structure over I-20 and the KCS railroad facility north of the interchange. The realignment of Kansas Lane and Garrett Roads will also be required and these will be converted into a multilane transportation facility in Monroe, LA.

After completion of the preliminary stages, G.E.C. was tasked with providing the lighting design for this project. The lighting system for the approximate 16,400' of roadway consists of (137) low mast lighting poles. The project includes illumination for (5) roundabouts and an interstate overpass bridge located within the project limits. Special consideration was needed for the lighting system due to the nearby proximity of Monroe Regional Airport and the KCS railroad. This required extensive coordination and planning with the FAA and railroad entities. The project is currently in the 98% submittal stage with construction expecting to begin in 2024.

*Firm Members Involved: Cary Bourgeois, PE, Thomas Coerver Jr., PE, Mickey Prattini Jr., PE, Michael Chiasson, PE, Luis Diaz, El Bowman Guttner, Nicholas Montegut*



The Kansas Garrett connector project utilizes 135+ low mast poles to illuminate over 16,000' of roadway, which includes 5 roundabouts and an overpass bridge.

Firm Name		<b>G.E.C., Inc.</b>		Past Performance Evaluation Discipline(s)*	<b>** Other (Electrical)</b>
Project Name	<b>I-10: LA 415 to Essen Lane on I-10 and I-12</b>			Firm responsibility (prime or sub?)	Sub
Project Number	H.004100.5	Owner's Name	LADOTD		
Project Location	West and East Baton Rouge Parishes, Louisiana		Owner's Project Manager	Nicholas Olivier	
Owner's address, phone, email	1201 Capital Access Road, Baton Rouge, LA 70804, (225) 379-1133, nicholas.olivier@la.gov				
Services commenced by this firm (mm/yy)	09/20	Total consultant contract cost (\$1,000's)	\$ 3,342		
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)	\$ 3,342		

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

\* If there is more than one past performance evaluation discipline included in the proposal, then indicate which past performance evaluation discipline(s) this project is being used to represent.

\*\*This field cannot be left blank and N/A is not acceptable. The only past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other (please specify).

GEC is providing engineering services, including right-of-way corridor preservation milestone plan preparation for the corridor from the College Drive east ramp terminals to the I-10/I-12 interchange area. GEC is assisting the Prime with project transition and data transfer, document control, meetings and coordination, project tracking, initial financial plan, Project Management Plan (PMP), and Project Implementation Plan (PIP).

Segment 1 of the I-10 CMAR project will incorporate aesthetic lighting to convert the City Park Lake Bridge into an iconic structure, and emphasize the Greenway path from Expressway Park to the bridge. Aesthetic lighting will also be incorporated throughout the I-10 viaduct in Baton Rouge which includes E. Washington St., Terrace St, Perkins Rd., Julia St, and Myrtle St. The addition of aesthetic lighting will transform these areas into signature community gathering areas. GEC completed an enhancement lighting study for the corridor including a preliminary cost estimation for the installation of enhancement lighting for this segment of the project. GEC is currently developing construction plans for the aesthetic lighting and the project is currently in 60% design stage,

GEC is also responsible for the roadway lighting design for this project. This will include preparation of construction plans, specifications and special provisions, engineering calculations, photometric calculations and light pole layouts. The roadway lighting system will consist of both interstate lighting including ramps and connecting surface streets within the project limits.

*Firm Members Involved: Sherri LeBas, PE, Cary Bourgeois, PE, Mickey Prattini Jr., PE, Thomas Coerver Jr., PE, Luis Diaz, EI, Nicholas Montegut, Keith Rebello, PhD, PE, Varaprasad Venkata, PE, Bowman Guttner*



GEC is responsible for the design of the roadway lighting system which will consist of both interstate lighting including ramps and connecting surface streets within the project limits.

Firm Name	<b>G.E.C., Inc.</b>		Past Performance Evaluation Discipline(s)*	<b>** Other (Electrical)</b>
Project Name	<b>I-10 &amp; I-12 College Dr Flyover Ramp Design-Build</b>		Firm responsibility (prime or sub?)	Prime
Project Number	H.013897	Owner's Name	LADOTD	
Project Location	Baton Rouge, Louisiana	Owner's Project Manager	Peggy Jo Paine, PE	
Owner's address, phone, email	1201 Capital Access Road, Baton Rouge, LA 70804, Peggy.paine@la.gov, (225) 379-1065			
Services commenced by this firm (mm/yy)	08/20	Total consultant contract cost (\$1,000's)	\$ 6,079	
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)	\$ 6,079	

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

\* If there is more than one past performance evaluation discipline included in the proposal, then indicate which past performance evaluation discipline(s) this project is being used to represent.

\*\*This field cannot be left blank and N/A is not acceptable. The only past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other (please specify).

The BOH/GEC Team was selected to provide bridge design and engineering services for this Design-Build contract. The Team's design improves the flow of traffic and safety of the I-10 & I-12 College Dr Flyover Ramp Design-Build Project by improving the I-10/I-12 merge through the elimination of lane changes that must occur when I-10 WB traffic exits at College Drive. Our design achieves this by realigning the two existing I-12 WB through lanes to more closely follow the I-12 EB existing alignment, completely replacing the I-10 WB Overpass Bridge with a new structure at a bridge width which will accommodate both the I-10 WB through lanes and the I-10 WB College exit ramp, and utilizing the existing I-12 WB pavement for the I-12 WB College Drive exit ramp. Improvements to the I-12/I-10 exit lane with College Drive intersection are also included.

In addition to bridge and roadway design, GEC completed a photometric report and lighting plans for the design-build project. The lighting design consists of both high mast and low mast lighting. The design utilizes (8) new high mast light poles and (4) existing high mast light poles that will be re-used in the design. The design also includes (3) ground mount low mast light poles and (22) median barrier mount low mast light poles. Through the design-build process, GEC was also tasked with construction engineering and inspection services for this project. This requires the review of engineering shop drawings and equipment submittals from the electrical contractor. Construction for this project has begun, with an estimated completion of July 2024.

*Firm Members Involved: Cary Bourgeois, PE, Sherri LeBas, PE, Keith Rebello, PhD, PE, Varaprasad Venkata, PE, Mickey Prattini Jr., PE, Thomas Coerver Jr., PE, Michael Chiasson, PE, Luis Diaz, EI, Nick Montegut, Bowman Guttner, Sean Johnson*



GEC designed interstate lighting consisting of both high and low mast lighting for this ongoing design-build contract in East Baton Rouge Parish.

Firm Name	<b>GOTECH, Inc.</b>		Past Performance Evaluation Discipline(s)*	**	<b>Survey</b>
Project Name	<b>IDIQ Contract for Design of Safety Projects Statewide with Majority of Work in District 02, 61 &amp; 62</b>			Firm responsibility (prime or sub?)	Sub
Project Number	4400015484	Owner's Name	LADOTD		
Project Location	Statewide	Owner's Project Manager	Mark Chenevert		
Owner's address, phone, email	1201 Capitol Access Road, Room 405-E, Baton Rouge, LA 70802-4438, 225-379-1591, mark.chenevert@la.gov				
Services commenced by this firm (mm/yy)	01/20	Total consultant contract cost (\$1,000's)	\$N/A		
Services completed by this firm (mm/yy)	05/20	Cost of consultant services provided by this firm (\$1,000's)	\$84		

Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

\* If there is more than one past performance evaluation discipline included in the proposal, then indicate which past performance evaluation discipline(s) this project is being used to represent.

\*\*This field cannot be left blank and N/A is not acceptable. The only past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other (please specify).

GOTECH provided topographic and utility location survey services in support of design plans and specifications for a complete lighting system for the I-10 at Read Boulevard Interchange in Orleans Parish. Survey crews conducted a complete topographic, elevation and utility survey within the entire limits of the I-10 Interchange with Read Boulevard. The topographic survey also included the location of both above ground and subsurface utilities. In addition, gathered survey data included information on the highway crossing exit/entrance ramps and elevated overpasses to facilitate lighting designs under elevated portions of I-10. All final deliverables were certified and submitted in strict accordance with DOTD Location and Survey standards.

GOTECH provided topographic survey in support of design for the closing of an existing ditch and installation of a sidewalk/multi-use path and handicapped ramps on a roadside design project. The survey was along Bootlegger Road (LA Hwy 1085) from Coquille Park to White Chapel Road. The overall length of the survey was approximately 3,600 feet.

*Firm Members Involved: Robert Price, PLS*

Firm Name		<b>GOTECH, Inc.</b>		Past Performance Evaluation Discipline(s)*		<b>** Survey</b>		
Project Name		<b>Acadian Rd Roundabout, Route LA 20 (Canal Blvd) &amp; Local Routes (Back Street, Jackson Street, Thompson Place)</b>				Firm responsibility (prime or sub?)		Sub
Project Number		4400004485; H.009320	Owner's Name		LADOTD			
Project Location		Thibodaux, LA		Owner's Project Manager		Mark Chenevert		
Owner's address, phone, email		1201 Capitol Access Road, Room 405-E, Baton Rouge, LA 70802-4438, 225-379-1591, mark.chenevert@la.gov						
Services commenced by this firm (mm/yy)		04/15	Total consultant contract cost (\$1,000's)			\$204		
Services completed by this firm (mm/yy)		09/19	Cost of consultant services provided by this firm (\$1,000's)			\$195		

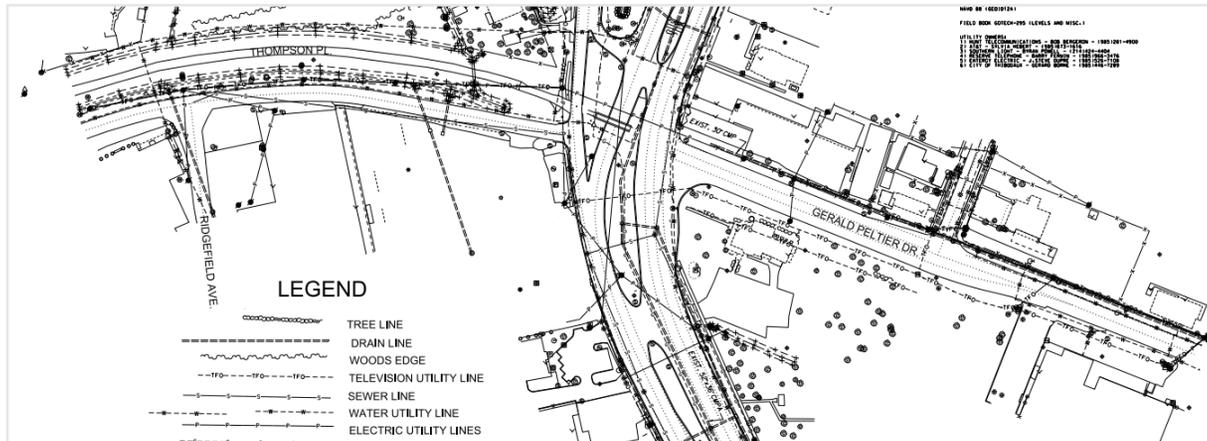
Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

\* If there is more than one past performance evaluation discipline included in the proposal, then indicate which past performance evaluation discipline(s) this project is being used to represent.

\*\*This field cannot be left blank and N/A is not acceptable. The only past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other (please specify).

GOTECH, Inc. provided a complete topographic survey required for the design of a roundabout at the existing intersection located in Thibodaux, LA. The survey was completed in accordance with LADOTD Standards and included all utilities with depths, all drainage structures, and DTM for the survey area. The project survey control and horizontal alignment was based on the Louisiana State Plane Coordinate System, (NAD-83-92) as determined by G.P.S. observation. The project also included right-of-way surveys and the preparation of right-of-way maps.

*Firm Members Involved: Robert Price, PLS*



Firm Name <b>GOTECH, Inc.</b>		Past Performance Evaluation Discipline(s)*		<b>** Survey</b>
Project Name	<b>New Orleans Street Rehab (Central City Group A)</b>	Firm responsibility (prime or sub?)		Sub
Project Number	PW#7124804	Owner's Name	City of New Orleans	
Project Location	Orleans Parish, LA	Owner's Project Manager	Francis Berger, P.E.	
Owner's address, phone, email	1300 Perdido Street, Suite 6W03, New Orleans, LA 70112, 225-303-7632, francisb@flymsy.com			
Services commenced by this firm (mm/yy)	01/18	Total consultant contract cost (\$1,000's)	\$298	
Services completed by this firm (mm/yy)	07/22	Cost of consultant services provided by this firm (\$1,000's)	\$298	

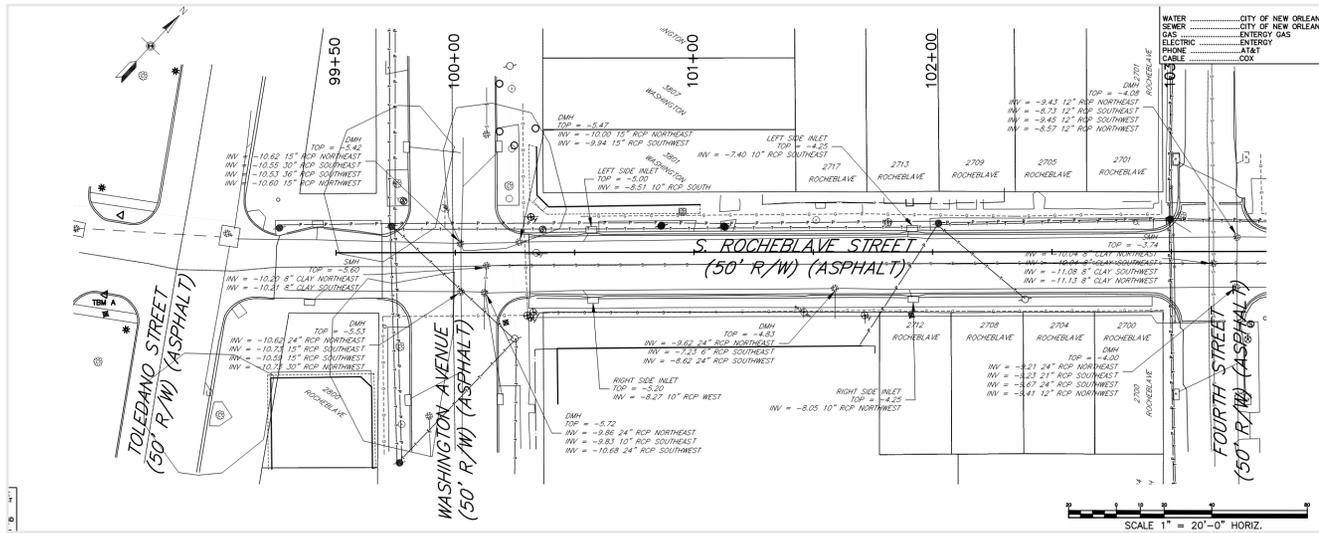
Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)

\* If there is more than one past performance evaluation discipline included in the proposal, then indicate which past performance evaluation discipline(s) this project is being used to represent.

\*\*This field cannot be left blank and N/A is not acceptable. The only past performance evaluation disciplines to be used are: Road, Bridge, Traffic, CE&I/OV, Geotech, Survey, Environmental, Data Collection, Planning, Right-of-Way, CPM, ITS, Appraiser and Other (please specify).

As part of the Capital Improvements Program to restore damaged infrastructure in New Orleans, GOTECH is assisting Fenstermaker in providing topographic surveying, preliminary and final design for streets identified as Central City Group A. Topographic surveys were completed for 2nd Street and South Rocheblave Street. Design services include preliminary and final plans for full roadway reconstruction including new storm drainage, sewer and water line replacements. Final design will include final construction plans, specifications and cost estimates for a complete bid package.

Firm Members Involved: Robert Price, PLS, Bruce Dyson, PLS



## 18. Approach and Methodology

# IDIQ Contracts for Electrical Services, Statewide

### Summary of Experience

G.E.C., Inc. (GEC), along with GOTECH, Inc., a DBE firm, (GEC Team) has experience providing the services necessary for successful delivery of projects assigned to this Electrical IDIQ Contract.

GEC and GOTECH have been working as a team on several LADOTD projects, including two LADOTD Statewide Electrical IDIQ contracts, and have formed a collaborative partnership with an excellent working relationship.

This team offers LADOTD a full-service suite of professionals to perform the anticipated typical services required as a part of this contract, including: topographic surveying, engineering plans, specifications, special provisions, cost estimates, construction proposal, photometric reports, engineering calculations, shop drawings, operational and maintenance manual and as-built drawing reviews, inspections, and construction related engineering services for existing and proposed interstate lighting projects to provide the highest quality and success for projects to advance to successful construction.

GEC, with GOTECH as a sub, has held the LADOTD retainer contract for Electrical Services Statewide since 2012 and has extensive experience in designing electrical systems for LADOTD. This experience includes the completion of 21 task orders assigned under retainer contract 44-02746 for roadway lighting design and related services. **Currently, GEC, with GOTECH as a sub, is actively engaged in 12 additional task orders assigned under retainer contract 44-11354.** In addition to retainer contracts, GEC has also undertaken roadway lighting design and related services for various other LADOTD projects, encompassing unique aspects and complex challenges, including Design-Build (D-B) and Construction Management at Risk (CMAR) projects that require special consideration from GEC's staff. Consequently, the GEC Team possesses a wealth of knowledge derived from our experience that prepares the GEC Team for success.

### Approach

The GEC Team implements protocols to provide effective task order management on all projects. Our approach to this IDIQ is to diligently adhere to project scopes and manage projects pro-actively to avoid potential issues during design or construction. This team is organized to provide all required services for this retainer contract, including all aspects of project implementation from preliminary stages to final acceptance. We will use the valuable experience and knowledge of our skilled professionals to deliver engineering designs and plans to manage various task orders. GEC will approach each project by assigning personnel to complete each category of work for task orders assigned under this contract. This also includes a dedicated individual for quality assurance and quality



GEC's previous retainer contract for electrical services included two pilot projects to install the first two LADOTD interstate lighting systems using LED high mast and LED low mast roadway lighting at the US 11 Interchange in Slidell, pictured above.

control for all work. Our experience and first-hand knowledge of LADOTD's policies and procedures will result in delivery of a successful project.

**GEC also has the ability to complete specialty lighting projects, if needed, by LADOTD. For the I-10 CMAR Interstate Widening project in Baton Rouge, GEC is the designer for all lighting which includes the design of aesthetic lighting in addition to the roadway lighting. This project is also incorporating color changing luminaires to enhance specific columns, piers, fascia panels, retaining walls, and arches located throughout the project limits.**

The design engineering phase continues to be part of the discovery process, whereby new codes and standards are implemented, overarching plans are ever-changing, manufactures are experiencing supply issues, new technologies are being implemented, and new products are constantly being developed. As a result, communication during the design and construction phases of a project is a high priority, as the lack of communication can have a substantially larger negative impact when time is a factor in project success. GEC focuses on actively communicating with LADOTD project managers for assigned projects when an issue surfaces. Additionally, GEC submits monthly written reports to the LADOTD project manager with invoices, along with design plans at key intervals, allowing LADOTD to view the design directions taken by GEC in providing a final work product. GEC will be proactive as well as reactive during all phases of this project and will track and monitor progress and all communication with LADOTD, governmental officials, utilities companies, and all other stakeholders. GEC will also monitor nearby projects and coordinate with project representatives that interface with GEC's project.

### Methodology

The GEC Team understands the types of projects that may be issued as a part of this IDIQ

## 18. Approach and Methodology

Between 2016-2020, 87% of fatalities and 80% of serious injuries in Louisiana were associated with Infrastructure/Operations (I/O) factors. According to the SHSP I/O Crash Trends and Strategies Report, these crashes often occurred in low lighting conditions, emphasizing the importance of addressing infrastructure-related concerns.

GEC recognizes the importance of taking a systematic approach to all projects and shares LADOTD's commitment to prioritizing safety. By undertaking projects within this Electrical IDIQ, GEC aims to contribute to the reduction of tragic human and economic consequences resulting from fatal and serious injury crashes in Louisiana, by improving lighting conditions along Louisiana interstates.

contract and is well versed in LADOTD's sequence of project development. Since there's no "one-size fits all approach" for every project that may be issued via IDIQ contract, LADOTD may choose to modify the number of submittals required during the design phase. The complexity of each individual task is dependent on the intricacy of the project and will vary depending on the level of effort for each task order. GEC is equipped with the expertise to complete these projects no matter the complexity and understands the general process for a task order. The GEC Team stands ready to serve as an extension of LADOTD staff to provide effective design solutions while being responsive and attentive throughout the project.

The following methodology and sample project schedule (Figure 1) is an overview of the project development process GEC will follow for a standard project that may be issued as a part of this IDIQ; however, it will be altered appropriately for each task order scope.

### Stage 3: Design

#### PROJECT KICKOFF

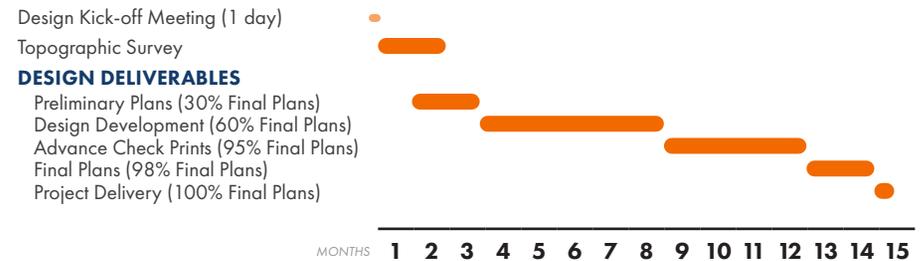
Prior to issuing the task order, GEC will coordinate with LADOTD to develop the task order and establish procedures, deliverables, and schedules. Once the NTP is issued, GEC will hold a design kickoff meeting with LADOTD and all relevant stakeholders (LADOTD District personnel, parish/local government, utility companies, etc.). The design kickoff meeting will be conducted to inform LADOTD of GEC's staffing plan and to discuss design criteria and project deliverables. The kickoff meeting will also give GEC the opportunity to receive input from attendees regarding other ongoing projects, design preferences, and any special conditions/features GEC shall consider. Once the design kickoff meeting has taken place, GEC will prepare meeting minutes for submittal and then begin development of the design deliverables.

#### TOPOGRAPHIC SURVEY

GOTECH, a DBE firm, will provide topographic surveys and other field information necessary for the design and development of plans. GOTECH will ensure that the topographic survey adheres to all modern survey theory, practice, and procedures and

FIGURE 1. SAMPLE PROJECT SCHEDULE

This schedule represents the order of tasks anticipated for a typical electrical task order issued by this IDIQ



will follow the latest version of the LADOTD Location Survey Manual and Procedures, EDSM's, and other guidelines. This includes all accepted horizontal and vertical control standards as stated in the manual. The LADOTD feature table code list and symbols will be utilized and met with those included in the latest edition of the survey feature code guidebook produced by the LADOTD Location and Survey Section and Automation. 3D Terrestrial Scanning may be utilized in conjunction with traditional means and methods to capture topography as applicable for each site and will adhere to all DOTD Standards as related to Terrestrial and Mobile Scanning. All deliverables will adhere to the electronic standard as set forth by LADOTD. As the prime, GEC will ensure all survey information is accurate and meets the standards for a complete topographical survey.

#### PRELIMINARY AND FINAL PLANS

GEC will follow the standard steps outlined in the LADOTD Bridge Design Evaluation Manual and incorporate the LADOTD preferences and guidelines such as the Illumination & Electrical Standards, Guide to Constriction, Operation and Maintenance of Highway Lighting Systems, Design Guide for Roundabout Lighting, LADOTD Electrical Plan Layout and presentation, and other standards and guidelines. GEC will provide electrical lighting plans showing the locations of existing equipment, removal of existing, and the proposed location of the new equipment, ensuring the plans include service points, lighting controllers/panels, disconnects, receptacles, pull boxes, junction boxes, conduit, jacked/bored casing, light poles, and luminaires. The project presentation on the plans will strictly adhere to LADOTD's electrical design format.

In addition to the resumes for our professional engineers and inspectors, GEC support staff includes a depth of highly knowledgeable and skilled CAD personnel, experienced in utilizing Microstation, AutoCAD, and CADConform programs. The GEC Team will upload electronic deliverables into the LADOTD ProjectWise repository at any necessary milestone as required by the Task Order.

#### QUALITY PLAN REVIEWS

For each required DOTD submittal, the GEC Team will perform stringent quality reviews to ensure all required items are submitted and that they are accurate and meet our quality acceptance criteria.

GEC's written Quality and Assurance procedures meet LADOTD's requirements and

## 18. Approach and Methodology

serves as the basis for our work on all contracts, requiring that each member of the team follows the procedures so that work is performed correctly and delivered on time and within budget. Deliverables must comply with current standards and sound practices and reflect current technology. An independent professional checks the deliverables and the originator corrects any errors. The lead roadway Quality Control reviewer, Cary Bourgeois, PE has over 30 years of supervising and performing design services on a variety of LADOTD projects.

The deliverables will be submitted in the following submittal stages and will include the task listed in the scope of work:

### 1. Topographic Survey

### 2. Preliminary Plans (30% Final Plans)

The 30% Final plans will be a thorough representation of what will be submitted later as final plans. The primary goal of the 30% Final Plans deliverable is to communicate the expectations of DOTD and GEC regarding the level of effort and detail required of the final design product. Also developed at this stage will be construction cost estimates and technical special provisions. The technical special provisions document will include electrical specifications and equipment description list and be submitted separate from Plan Set Sheets and the Documents Package. These deliverables will be included in each subsequent submittal stage.

### 3. Illumination Analysis Report (Photometric Calculations)

Prior to transmitting 60% Final Plans, GEC will develop an illumination analysis report and submit a complete report to DOTD for review at each milestone. The illumination analysis report will include all roadways and/or interchanges within the project limits and conform to the Illumination Engineering Society (IES) and LADOTD illumination and electrical standards. The illumination analysis will detail calculated statistical data for average foot-candles, maximum foot-candles, minimum foot-candles, average to minimum ratio and maximum to minimum ratio for all illuminated areas within the project limits.

### 4. Design Development (60% Final Plans)

The 60% Final Plans will build upon the 30% Final Plans



submittal, address all comments from the 30% Final Plans submittal, and incorporate the proposed luminaire locations into lighting layout plan sheets.

### 5. Advance Check Prints (95% Final Plans)

The 95% Final Plans submittal continues development of the 60% Final Plan submittal, addresses all comments from the 60% Final Plans Submittal, and adds additional design details including conduit, conductor, service point details, etc. The overall project development will be 95% complete with all sheets 100% complete. Beginning with the 95% Final Plans, the following electrical calculations will be submitted as a part of a documents package:

- Voltage Drop for Service Points, Branch Circuits, etc.
- Fault current for Service Points
- Conduit fill for all circuits
- Preliminary Arc Flash and Hazard Analysis Report

Technical special provisions will be developed and submitted for review at this stage of plan completion.

### 6. Final Plans (98% Final Plans)

The 98% Final Plans will continue the development of the 95% Final Plans submittal by addressing all comments from the 95% Final Plans Submittal. All Sheets will be 100% finished. The construction cost estimate and summary of estimated quantities will be complete at this stage of plan development.

### 7. GEC Project Delivery (100% Final Plans)

The 100% Final Plans will address all comments from the 98% Final Plans Submittal. GEC will deliver Final Plans, Technical Special Provisions, Documents Package, and Construction Cost Estimates to DOTD.

After project design is completed, GEC will answer all pre-bid RFIs in Falcon from bidders, perform bid review analyses, and provide official responses and/or plan revisions as needed to LADOTD.

### Stage 5: Construction Engineering Services

The GEC Team will follow the established construction and maintenance sampling, testing, and material acceptance requirements set forth by LADOTD. GEC will provide engineering expertise and oversight as well as inspection services including by not limited to, the requirements of the Standard Specifications for Roads and Bridges, Quality

## 18. Approach and Methodology

On the I-210: Interstate Lighting task order under our previous electrical retainer, GEC staff received the following DOTD Consultant Rating from Richard Foster regarding our 100% plan submittal: “Demonstrated excellent understanding of NEC, interstate lighting standards, and construction sequencing. Excellent quality of plans and deliverables. Met all deadlines even with compressed schedule and unexpected coordination with road and bridge projects.”



Assurance Manuals, Materials Sampling Manual, Testing Procedures Manual, and construction memoranda. GEC will also ensure that the contractor follows the established requirements. GEC will provide engineering support and monitoring of construction activities, which may include the following steps:

### 1. Meeting and Site Inspections

Upon NTP, GEC will obtain plans, contract, and special provisions, perform a site visit, and meet with the district coordinator to understand the roles requested, concerns, or other information about the project. GEC will attend the pre-construction meeting, site inspections, and pre-final and final inspections. GEC will also attend any meetings requested by the DOTD project manager when needed for a specific issue during construction. During construction, GEC will perform periodic field inspections to track progress of the work and verify proper installation of the equipment.

### 2. Written Plan and Monthly Reports

GEC will provide a written plan describing the work being performed and a timeline to perform the work. Monthly progress reports will include an assessment of progress and notification of any problems that may require the DOTD Project Manager’s attention. GEC will maintain all field records and make daily entries into the project diaries to indicate the GEC Team’s personnel and contractors personnel present on the job site, equipment being used, work being accepted, acceptability of traffic control, and the charging of contract time.

### 3. Shop Drawings and Equipment Submittals Review

GEC will review and approve shop drawings and equipment submittals. This will include distribution of the submittals to the appropriate parties. A log will be maintained with the status of the submittals as well as a complete set of submittals.

### 4. Short Circuit and Arc Flash Hazard Analysis

GEC will obtain utility and field-installed equipment information from the contractor and perform an Arc Flash Hazard Analysis per NFPA 70E. This analysis will calculate the available incident arc energy and design appropriate warning labels for equipment. GEC will provide the contractor with the detailed information required to be printed on the Arc Flash Label.

### 5. Operation and Maintenance Manuals

GEC will review and verify that Operation and Maintenance Manuals include accurate data and are complete and prepared in accordance with 822.06.6 of LSSRB.

### 6. As-Builts

GEC will track the progress of the as-builts during construction and review the as-builts to determine if they are complete and accurate. GEC will insert a final copy of the As Built Electrical Drawings into the Operations and Maintenance Manual.

### 7. Request for Information (RFIs)

GEC will review and respond to all RFIs using LADOTD’s construction standard RFI form for the project and maintain a log of the RFI’s with the status of the responses.

### 8. Inspections

During the course of construction of the project GEC will make periodic inspections to check on the progress of the work and to verify proper installation of equipment. GEC will also make a pre-final and final inspection to verify the completion of the work with the plans and specifications.

GEC provides a fully qualified team of construction engineers, several with over 25 years of experience, including a former LADOTD Chief of Construction and several Project Engineers. GEC has more than 30 resident project inspectors with various certifications. GEC’s Construction Division is readily available to provide professional, quality construction management, engineering, and inspection services.

## Firm Size & Workload

Much of the electrical workload listed in Section 19 will be finalized by mid-2024, leaving the core group proposed for this project available to start work immediately upon award.

- The Road Transfer Program involves only 1 GEC employee housed full-time at LADOTD HQ for the management of this program. It is unlikely the entire contract amount will be spent; The I-49 project design phase has been put on hold to revisit the NEPA process; therefore, GEC’s involvement has been limited to the following: conceptual bridge layouts for the environmental assessment, pump station design, and project scheduling. GEC’s electrical staff is not involved in the project.

The staff identified in this submittal will be immediately available upon receipt of NTP from LADOTD. GEC has sufficient staff and resources regardless of ongoing contracts listed in Section 19 of our response.

## 19. Workload

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(s) *	Contract Number and State project number	Project name	Remaining unpaid balance **
G.E.C., Inc.	Road	44-04128, H.004273.5	I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange) (Sub to Stantec)	70,810
		44-25040, H.015342	IIJA, Off-System Bridge Program, District 61 Less EBR, S.A.#1 (Note: Work will be performed over 4 years)	800,000
		H.013897	I-10 & I-12 College Drive Flyover Ramp Design-Build Project (Sub to Boh Bros.)	89,160
G.E.C., Inc.	Bridge	44-04128, H.004273.5	I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange) (Sub to Stantec)	15,272
		44-18646, H.004100	I-10 Baton Rouge Widening CMAR Segment 1 (Bridge & Sound Walls) (Sub to Huval)	83,600
		S.P. # H.013897	I-10 & I-12 College Drive Flyover Ramp Design-Build Project (Sub to Boh Bros.)	174,800
		44-04900, H.004540.5	Leeville to Golden Meadow, Route LA 1 Relocated, Const. Engineering Services (Sub to HNTB)	219,878
		44-25040, H.015342	IIJA, Off-System Bridge Program, District 61 Less EBR	3,639
		44-25040, H.015342	IIJA, Off-System Bridge Program, District 61 Less EBR, S.A.#1 (Note: Work will be performed over 4 years)	802,000
		44-05267, H.003074.5	Williams Blvd – Veterans Blvd., Route I-10, Jefferson Parish, LA	148,795
G.E.C., Inc.	Environmental	44-04128, H.004273.5	I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange) (Sub to Stantec)	67,131
		44-25040, H.015342	IIJA, Off-System Bridge Program, District 61 Less EBR, S.A.#1	200,000
		44-26569, H.011358.1	US 190 (Vine Street) RAISE Grant Application	47,380
G.E.C., Inc.	ITS	44-04128, H.004273.5	I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange) (Sub to Stantec)	19,447
		44-18646, H.004100	I-10 Baton Rouge Widening CMAR Segment 1 (Sub to Huval)	79,000
G.E.C., Inc.	CE&I/OV	44-23074, H.010724.6	IDIQ for CE&I Services and Staff Augmentation, District 61 - Pecan Island Road Over the Chenal	0
		44-23074, H.012465.6	IDIQ for CE&I Services and Staff Augmentation, District 61 - Flashing Yellow Arrow Part 3	415,594
		44-23074, H.010960.6	IDIQ for CE&I Services and Staff Augmentation, District 61 - LA 30 Roundabouts at Tanger Mall and I-10	675,069
		44-23074, H.015022.6	IDIQ for CE&I Services and Staff Augmentation, District 61 - LA 976: LA 81 - US 190	36,053
		44-23074, H.014694.6	IDIQ for CE&I Services and Staff Augmentation, District 61 - LA 426: LA 73 - Sherwood Forest	175,686
		44-23074, H.014930.6	IDIQ for CE&I Services and Staff Augmentation, District 61 - Rumble Strips: District 61 - Area C	63,701
		44-19950, H.002735.6	IDIQ for CE&I, Statewide, with Majority of Work in District 03 - Bayou Vermillion Bridge	31,498
		44-19950, H.003003.6	IDIQ for CE&I, Statewide, with Majority of Work in District 03 - I-10: I-49 - LA 328	19,147
		44-19950, H.002868.6	IDIQ for CE&I, Statewide, with Majority of Work in District 03 - I-49 S: Amb Caffery / US 90 Interchange	788,725
		44-19950, H.013265.6	IDIQ for CE&I, Statewide, with Majority of Work in District 03 - US 90: LA 14 to LA 83	541,875
		44-14315, H.003370.6	IDIQ for Painting Inspection & Environ. Monitoring with CE&I, Statewide - I-220/I-20 Interchange IMP & BAFB Access	0
		44-14315, H.010000.6	IDIQ for Painting Inspection & Environ. Monitoring with CE&I, Statewide - US 171: Calcasieu River Bridge Repairs	61,754
		44-17006, H.011670.6	I-10/Loyola Interchange Improvements, Jefferson Parish	764,721
44-23897, H.011965.6	LA 47: IWGO Bridge Rehabilitation (HBI) (CE&I) (sub to GPI)	1,817,361		

G.E.C., Inc.	Other (Electrical)	44-04128, H.004273.5	I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange) (Sub to Stantec)	301,419
		44-18646, H.004100	I-10 Baton Rouge Widening CMAR Segment 1 (Sub to Huval)	242,045
		H.013897	I-10 & I-12 College Drive Flyover Ramp Design-Build Project (Sub to Boh Bros.)	45,000
		44-05267, H.003074.5	Williams Blvd – Veterans Blvd., Route I-10, Jefferson Parish, LA	54,012
		44-11354, H.013442.6	IDIQ Contract for Electrical Statewide-I-10: Crowder Boulevard Interstate Lighting (Expires 7/3/24)	43,208
		44-11354, H.013617.6	IDIQ Contract for Electrical Statewide-I-10: I-610E Interchange Lighting, T.O. #1 (Expires 7/3/24)	152,006
		44-11354, H.014552.5	IDIQ Contract for Electrical Statewide-I-49: LA 31 Interchange Lighting (Opelousas), T.O. #2 (Expires 7/3/24)	236,672
		44-11354, H.014556.5	IDIQ Contract for Electrical Statewide-I-49: US 190 Interchange Lighting (Opelousas), T.O. #3 (Expires 7/3/24)	273,125
		44-11354, H.014557.5	IDIQ Contract for Electrical Statewide-I-49: Judson Walsh Drive Interchange Lighting (Opelousas), T.O. #4 (Expires 7/3/24)	282,786
		44-11354, H.014553.5	IDIQ Contract for Electrical Statewide-I-49: LA 3233 Interchange Lighting (Opelousas), T.O. #5 (Expires 7/3/24)	376,863
		44-05660, H.012874.6	Retainer Contract for Electrical Services - I-55: LA 22 Interstate Lighting (Sub to Buchart-Horn)	20,153
G.E.C., Inc.	Other (DOTD Support Services)	44-17329	Retainer Contracts for Innovative Procurement and Alternative Delivery Support Services (Sub to HNTB Corporation) (No Task Orders Issued) (NOTE: No work expected for GEC under this Contract.)	0
G.E.C., Inc.	Other (Program Management)	44-16958	Road Transfer Program Management, Statewide (NOTE: The Average Annual billing is approx. \$290,000/year. We are in year 3 of 6. This billing represents 1 person stationed at DOTD. Thus, unlikely to bill this entire remaining balance. (Program Management ONLY – NO Planning, Road or Bridge Design work).	1,456,292
		44-25040, H.015342	IJA, Off-System Bridge Program, District 61 Less EBR, S.A. #1	200,000
		44-04128, H.004273.5	I-49 Connector (Lafayette Regional Airport to I-10/I-49/US 167 Interchange) (Sub to Stantec)	164,029
		44-18646, H.004100	I-10 Baton Rouge Widening CMAR Segment 1 (Sub to Huval)	16,263
GOTECH, Inc.	CE&I/OV	44-04631; H.003107.6 *Task Order No. 1 *Task Order No. 2	Retainer Contract for Construction Engineering Management and Staff Augmentation Services for District 62 (St. Helena, Livingston, St. John, Tangipahoa, Washington & St. Tammany Parishes) (Sub to Volkert, Inc.)	\$0 \$171,520
GOTECH, Inc.	CE&I/OV	44-17006; H.011670	I-10 / Loyola Interchange Improvements (Jefferson Parish) (Sub to G.E.C., Inc.)	\$308,488
GOTECH, Inc.	CE&I/OV	44-17430; H.001498.6	LA 24 & 316: Company Canal Bridge CE&I (Terrebonne Parish) (Sub to Hardesty & Hanover, LLC)	\$304,467
GOTECH, Inc.	Planning	44-17327	IDIQ Innovative Procurement & Alternative Delivery Support Services, Statewide (Sub to WSP)	\$74,052
GOTECH, Inc.	CE&I/OV	44-19950, H.003003 H.002151	IDIQ Contracts for Construction Engineering & Inspection Services, Statewide w/Majority of Work in District 03 (Acadia, Lafayette, Evangeline, Iberia, St. Landry, St. Martin, St. Mary & Vermilion Parishes) (Sub to G.E.C., Inc.)	\$0 \$68,000
GOTECH, Inc.	CE&I/OV	44-19550; H.001234	LA 1: Port Allen Canal Bridge Replacement Phase 1 (HBI) (CE&I) Route LA 1 (West Baton Rouge Parish) (Sub to R.C. Lambert Consultants, LLC)	\$508,783
GOTECH, Inc.	CE&I/OV	44-23074, H.010725 H.012465 H.014694.6	IDIQ Contract for Construction, Engineering & Inspection & Staff Augmentation - Pecan Island Rd - District 61 (Hammond) (Sub to G.E.C., Inc.)	\$0 \$66,105 \$45,933
GOTECH, Inc.	Survey	44-17068	Louisiana Watershed Initiative (LWI) Modeling Contract, Region No. 2 (Sub to Fresse & Nichols, Inc.)	\$169,755
GOTECH, Inc.	Survey	44-17069	Louisiana Watershed Initiative (LWI) Modeling Contract, Region No. 3 (Subconsultant to WSP USA, Inc.)	\$49,668

## 20. Certifications/Licenses

If the advertisement requires submission of licenses and/or certificates, include them here. Otherwise, leave this section blank.

INDEX OF INCLUDED CERTIFICATIONS BY EMPLOYEE					
	Bowman Guttner	James Wheeler	Sean Johnson	Bruce Dyson	Robert Price
Minimum Personnel Requirement	7	7		8	8
2021 NFPA 70E Standard	•	•	•		
2023 NFPA 70 NEC	•	•	•		
ATSSA Flagger	•	•	•	•	•
ATSSA Traffic Control Supervisor	•	•	•	•	•

**Bowman Guttner**



**NATIONAL FIRE PROTECTION ASSOCIATION**

**CERTIFICATE OF COMPLETION**  
2021 NFPA 70E Standard for Electrical Safety in the Workplace Online Training Series

BOWMAN GUTTNER

Completion Date: May 15, 2023  
CEUs: .6 or 6 hours




President, National Fire Protection Association

IT'S A BIG WORLD. LET'S PROTECT IT TOGETHER.™



**NATIONAL FIRE PROTECTION ASSOCIATION**

**CERTIFICATE OF COMPLETION**  
NFPA 70, National Electrical Code (NEC) (2023) Online Training Series

BOWMAN GUTTNER

Completion Date: May 17, 2023  
CEUs: 1.0 or 10 hours




President, National Fire Protection Association

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**AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION**

*This is to affirm that*  
**BOWMAN GUTTNER**  
*has satisfied the requirements to be designated as a*  
**CERTIFIED FLAGGER**

Expiration Date 2-14-24 State Issued in LA

Verification available by calling 1-877-642-4837 or at <http://www.tagger.com>

*The American Traffic Safety Services Association*

*Hereby recognizes that*  
**Bowman Guttner**  
*has attended*  
**Traffic Control Supervisor Refresher-LA State Specific Training Course**

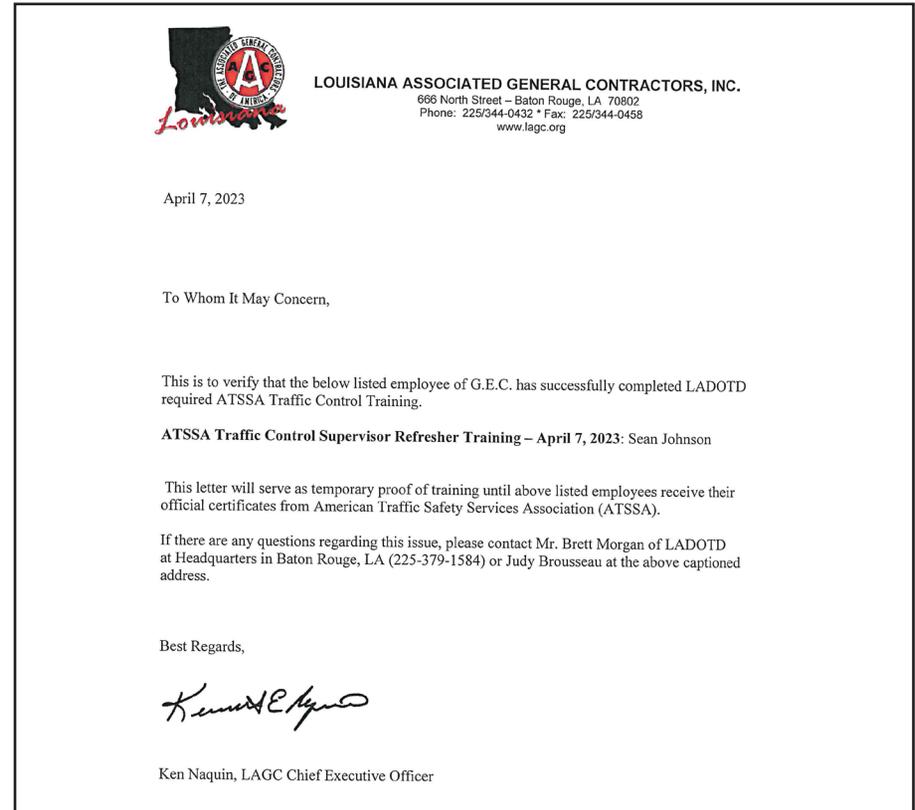
Date 2/14/2020 to 2/14/2020  
Location Baton Rouge, LA



*Keenan A. Houghton*  
Training & Products Dept. Director

*Roger R. Whitley*  
President, CEO

Sean Johnson



James Wheeler



**NATIONAL FIRE PROTECTION ASSOCIATION**

**CERTIFICATE OF COMPLETION**  
2021 NFPA 70E Standard for Electrical Safety in the Workplace Online Training Series

JIMMY WHEELER

Completion Date: May 18, 2023  
CEUs: .6 or 6 hours




President, National Fire Protection Association

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**NATIONAL FIRE PROTECTION ASSOCIATION**

**CERTIFICATE OF COMPLETION**  
NFPA 70, National Electrical Code (NEC) (2023) Online Training Series

JIMMY WHEELER

Completion Date: May 19, 2023  
CEUs: 1.0 or 10 hours




President, National Fire Protection Association

IT'S A BIG WORLD. LET'S PROTECT IT TOGETHER.®



**PROOF OF TRAINING**  
THIS CERTIFICATE HEREBY RECOGNIZES THAT

James C Wheeler  
has attended  
**Traffic Control Supervisor Refresher-LA State Specific**  
Training Course

1/29/2021 to 1/29/2021  
Date

Baton Rouge, LA  
Location

Don H. Clark  
Vice President of Education and Technical Services

Alan T. Taylor  
President, CEO

*ATSSA provides training and certification but neither constitutes employment by ATSSA.*



American Traffic Safety Services Association ATSSA.com



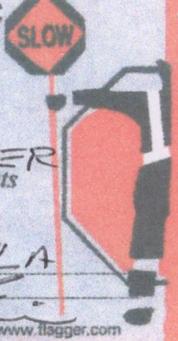
**AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION**

*This is to affirm that*  
JAMES WHEELER  
*has satisfied the requirements to be designated as a*  
**REGISTERED FLAGGER.**

Expiration Date: 8-17-24 State Issued in: LA

[Signature]  
Instructor Signature

Verification available by calling 1-877-642-1637 or at <http://www.flagger.com>



**Bruce Dyson**

**ATSSA** American Traffic Safety Services Association  
SAFER. SMARTER. STRONGER. LIVES.

This is to affirm that

**BRUCE DYSON**  
has satisfied the requirements to be designated as a  
**CERTIFIED FLAGGER**

Issue Date 8/4/2022 Instructor Name Debbie Purcella  
Exp. Date 8/4/2026 *Debbie Purcella*  
State Issued LA Instructor Signature  
V0000058731 Verify at [Flagger.com](http://Flagger.com)

**ATSSA TRAINED**

**PROOF OF TRAINING**  
THIS CERTIFICATE HEREBY RECOGNIZES THAT

**Bruce K Dyson**  
has attended  
**Traffic Control Supervisor-LA State Specific**  
Training Course

6/22/2022 to 6/22/2026  
Training Valid Through

*Ramona B. Nix*  
Director of Training

*Alan Teitelbaum*  
President, CEO

Baton Rouge, LA  
Location

ATSSA provides training and certification but neither constitutes employment by ATSSA.

**ATSSA** American Traffic Safety Services Association [ATSSA.com](http://ATSSA.com)

**ATSSA TRAINED**

**PROOF OF TRAINING**  
THIS CERTIFICATE HEREBY RECOGNIZES THAT

**Bruce K Dyson**  
has attended  
**Traffic Control Technician-LA State Specific**  
Training Course

6/21/2022 to 6/21/2026  
Training Valid Through

*Ramona B. Nix*  
Director of Training

*Alan Teitelbaum*  
President, CEO

Baton Rouge, LA  
Location

ATSSA provides training and certification but neither constitutes employment by ATSSA.

**ATSSA** American Traffic Safety Services Association [ATSSA.com](http://ATSSA.com)

**Robert Price**



## 21. QA/QC Plan

If the advertisement requires submission of a QA/QC plan, include it here. **Otherwise, leave this section blank. If a QA/QC plan is included in this section and was not required by the advertisement, it will be redacted.**

GEC's QC/QA Manual for Bridge Electrical Projects is enclosed.

# QC/QA Manual



BRIDGE ELECTRICAL DEPARTMENT



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Prepared for and applicable to projects performed under the following contract:  
Contract Nos. 4400026073 AND 4400026074  
IDIQ Contracts for Electrical Services, Statewide

## Overview

### GOALS AND OBJECTIVES

GEC has developed and implemented this Quality Assurance/Quality Control (QA/QC) guide in accordance with FHWA and DOTD requirements specifically for this advertisement.

The QA/QC process applies to all types of bridge electrical projects. In addition, the QA/QC process applies to the development of design guidelines, design examples, spreadsheets, and other design aides for bridge electrical projects. More stringent the QA/QC process and procedures may be required for large or complex projects.

The Quality Assurance/Quality Control (QA/QC) program establishes the following goals:

- Communicate openly within the project team and with all stakeholders to address concerns and solve problems immediately.
- Plan, coordinate, supervise, and provide technical direction to all members of the project team.
- Employ skilled personnel who perform their work with care to produce a quality product.
- Produce quality deliverables and documentation through reviews and checks performed by individuals not directly responsible for the initial work product.
- Enable all members of the project team to take responsibility for the QA/QC of a project, regardless of role.

The objectives of the QA/QC program are to endeavor to produce products that:

- Are Designed and Detailed in accordance with the policies and procedures defined in the current DOTD BDEM, applicable technical memorandums, and to the relevant guidelines available on the DOTD Website.
- Clearly define the sources of information for the calculations and the interface with related documents.
- Result in constructible plans that represent DOTD and industry standard best practices in design and construction.

### BRIDGE DESIGN AND QA/QC PROCESS

As part of the QA/QC process, this document will serve as a template to follow for every bridge electrical project.

The process can be summarized as follows:

- Step 1 – Selection of the Qualified Project Design Team
- Step 2 – Development of Project Design Criteria
- Step 3 – Design and Development of Plan Details
- Step 4 – Quality Control (QC) of Design and Plan Details
- Step 5 – Quality Assurance (QA) of Design and Plan Details
- Step 6 – Peer Review (only if requested by the Bridge Design Engineer Administrator)
- Step 7 – Sealing of Design Calculation Book and Plans by the EOR
- Step 8 – QC/QA for Design Activities after Final Plans
- Step 9 – Archival of Design Files and provision of files to DOTD

## Step 1

### SELECTION OF THE QUALIFIED PROJECT DESIGN TEAM

At the beginning of each project, a project team will be selected commensurate with the complexity of the project and relevant experience of each team member.

Team member responsibilities are as outlined below. Where multiple disciplines are represented in the plan set, separate checkers and designers/detailers shall be required for each discipline and the Principal in Charge shall have experience in all of the disciplines represented on the plans.

**SUPERVISOR/TEAM LEADER** – A licensed professional engineer who manages a group of Engineers and Detailers. The supervisor/group leader is responsible for assigning work to Engineers and Detailers based on their level of experience and the complexity of the project. In addition, a supervisor/team leader is responsible for internal Quality Assurance reviews.

**DESIGN ENGINEER** – A licensed professional engineer or engineering assistant working under the direct supervision of a licensed professional engineer, and directly responsible for the development of design calculations, drawings, special provisions, including non-standard items and cost estimate. The Design Engineer provides the data, such as design sketches, necessary for detail drawing development. In addition, the Design Engineer checks the details for errors, completeness, conformity, and consistency.\*\*

**DETAIL CHECKER** – A drafter or engineer who performs a full review of the details and presentation of the plans, especially verifying conformance with DOTD plan standards. \*

**DESIGN CHECKER** – A licensed professional engineer or engineering intern working under the direct supervision of a licensed professional engineer. The checker is responsible for performing a full technical review of the design calculations, detail drawings, including non-standard items and cost estimate for the purpose of reducing errors and omissions and increasing completeness, applicability, and conformance.\*

**DETAILER** – A drafter or engineer who generates and revises details, plan sheets, and drawings in electronic format.

**PRINCIPAL-IN-CHARGE** – A licensed professional engineer who is a principal of the firm and is in control of the QA/QC for the entire project.

**ENGINEER-OF-RECORD (EOR)** – A licensed professional engineer who is responsible for supervision and/or preparation of plans, sealing calculations, signing and sealing the final plan set, and special provisions if required. The EOR is also responsible for the final QA review of the full design package and may not also be the design checker. This may be the Design Engineer or Supervisor. The EOR is responsible to ensure that QC/QA certificate is signed by all responsible parties.

*\* These parties may not perform the design or detail drawing of the plan set or any calculations.*

*\*\* Only one of the Design Engineer and Design Checker may be an engineering intern (not both)*

## Step 2

### DEVELOPMENT OF PROJECT DESIGN CRITERIA

Design criteria must be established at the beginning of each project and submitted to the DOTD for review and approval (as needed) before the design process begins.

The design criteria shall be included in the final calculation book and updated as appropriate throughout the project. All design assumptions and any design exemptions that are granted are to be included in the design criteria. The design criteria shall include at least the following sections with a minimum of information indicated in each section.

- Cover Sheet
  - DOTD project number
  - Project name
  - Revision date
  - Supervisor or Team Leader’s signature and date
- Governing Design and Construction Specifications and Other References
  - A list of governing design and construction specifications and other references used for the project shall be included. The edition number, interim revisions, and/or publication date must be specified for each reference.
- Design Assumptions and Design Exceptions
  - All design assumptions and design exceptions received must be included in this section along with supporting documents.
- Relevant General Information
- Electrical/Lighting Design
  - Design criteria
  - List standard plans and special details utilized.
  - Photometric Criteria
  - Structural Calculations (all foundations and fabricated support for light poles)
- List of software used for design and checking

## Step 3

### DESIGN AND DEVELOPMENT OF DETAILS

#### DESIGN

The Design Engineer is responsible for the development of the design calculations, details, cost estimate, and any special provisions that may be required. Prior to beginning the design process, confirm that the design criteria have been established and approved by the Supervisor/Team Leader. During the design process, the designer must follow the design criteria established for the project. Bridge type, size and location (T, S &L) must be developed first and approved by the supervisor or team leader prior to proceeding with the design of structural components.

The design calculations are to be organized and maintained by the Design Engineer in a Calculation Book that includes, but is not limited to, the following sections.

- Cover Sheet – include the following information:
  - DOTD project number
  - Project name
  - The title of “Final Calculation Book”
  - The EOR’s seal with signature and date
- Design Criteria
- QC/QA Certifications (Refer to Appendix A)
- Quantity Calculations
- Electrical Calculations
  - Voltage Drop
  - Conduit Fill
  - Arc Flash / Short Circuit Study
  - Photometric Calculations
  - Structural Calculations
- Special Provisions/NS-Items

- Construction Cost Estimate
- List of All Final Electronic Design Files and File Locations (ProjectWise directory name)

The Final Calculation Book is to be submitted to the DOTD Task Manager. Consult with the Task Manager to determine if submittal shall be on a CD, a Flash Drive, or placed to a

designated ProjectWise folder. Include the following:

- A PDF File of the Calculation Book
- All Electronic Design Files
- A PDF File of the As-Designed Rating Report (if applicable)

## DEVELOPMENT OF DETAILS

The Design Engineer must work together with the Detailer on the establishment of the project details and supervise the detailing work to verify that the details represent the relevant plan details and design criteria that have been established.

Submittals of details are to follow current DOTD requirements and the task order or contract scope. Typical submittals and their order are as follows:

- 30% Final Plans
  - Preliminary Calculation Book
  - 30% Plan Set
  - Technical Special Provisions
  - Construction Cost Estimate
- Initial Photometric Submittal
- 60% Final Plans
  - Preliminary Calculation Book
    - Accepted Photometric Report
  - 60% Plan Set
  - Constructibility/Biddibility Review
  - Technical Special Provisions
  - Construction Cost Estimate
- 95% Final Plans
  - Preliminary Calculation Book including:
    - Accepted Photometric Report(s)
    - Initial Conduit fill and voltage drop calculations
    - Initial Structural Calculations
  - 95% Plan Set
  - Revised Constructibility/Biddibility Review
  - Technical Special Provisions
  - Construction Cost Estimate
- 98% Final Plans
  - Final Calculation Book, including:
    - Accepted Photometric Report(s)
    - Accepted Conduit fill and voltage drop calculations
    - Accepted Structural Calculations
    - Arc Flash and Short Circuit analysis
  - 98% plan set (unsigned finals)
  - Final Constructibility/Biddibility Review
  - Technical Special Provisions
  - Construction Cost Estimate
- 100% Final Plans
  - Complete Calculation Book
  - Signed Final Plans
  - Other documents as requested by DOTD
  - Technical Special Provisions
  - Construction Cost Estimate
- Plan Revisions (if required)
  - Applicable revised calculations
  - Applicable revised plan sheets
- Change Orders (if required)
  - Applicable revised calculations
  - Applicable revised plan sheets

*\* This is based upon our most recent Task Order and will be adjusted as needed under new contract.*

**Table 1.** TYPICAL SUBMITTALS AND ASSOCIATED DESIGN AND DETAIL PROGRESS

Items	Final Plans				
	30%	60%	95%	98%	100%
QA/QC Certification	R	R	R	R	R
Electrical Index	D	D	C	C	S
Summary of Estimated Quantities				L	L
General Requirements		D	D	C	S
Specifications		D	D	C	S
General Notes		D	D	C	S
Layout Plan Sheets		D	C	C	S
Plan and Profiles		D	D	C	S
Electrical/Lighting Details		D	D	C	S
Item List and Descriptions	D	D	D	C	S
As-Built Plans		D	C	C	C
Standard Plans Sheets			D	L	L
Special Details Sheets			D	L	L
Cost Estimate	D	D	D	C	S
Photometric Report(s)		C	C	C	S
Voltage Drop Calculations			D	C	S
Arc Flash Analysis (Preliminary)			D	C	S
Structural Calculations			D	C	S
Contract Time Worksheet				C	C
Technical Special Provisions	D	D	D	C	S

**LEGEND**

- R** The item is required and shall be included
- D** The item shall be in development and included
- C** The item shall be complete and included
- L** The item shall be provided by DOTD
- S** The item is stamped by the EOR and shall be included

## Step 4

### QUALITY CONTROL (QC) OF DESIGN AND DETAILS

Quality Control is the process of checking the accuracy of calculations and consistency of the drawings, detecting and correcting design omissions and errors prior to finalizing design plans and specifications.

At the beginning of each project, design engineers and calculation checkers are to be assigned to the design of each component. Likewise, detailers will be assigned to the detailing and checking of each component to be detailed. The Engineer-of-Record will sign and seal all final details and modified standards.

### QUALITY CONTROL OF CALCULATIONS

This process applies to calculations, reports, studies, design spreadsheets and any other documents that are not details, plan sheets, or drawings.

The process and responsibilities of all team members to confirm that calculations are prepared and checked are as provided in the following section and summarized in the Quality Control of Calculations flow chart shown in Figure 1.

#### Preparation (Design Engineer)

- Prepare relevant, appropriate calculations and sketches containing all information (input, basis, comments, references and sketches) necessary to convey the purpose and nature of the calculations. Calculations are standalone, to the extent reasonably possible.
- Present the calculations and sketches in a neat and logical manner that is conducive to checking.
- Conform the calculations and design sketches to the policies and procedures defined in the current DOTD BDEM and all relevant Technical Memorandums. Review the DOTD Website as additional directives and modifications to the information provided in the current DOTD BDEM are posted frequently.
- Perform all calculations on GEC calculation sheets, on spreadsheet equivalents (i.e. personal spreadsheets or design spreadsheets), or with DOTD approved software.

#### Checking (Checker)

- Check each component to ensure compliance with the policies and procedures defined in the current DOTD BDEM and relevant Technical Memorandums and the DOTD Website.
- Check the calculations for internal consistency and traceability of sources. Thoroughly check the calculations, including assumptions, given values, formulas, omissions, and accuracy of arithmetic.
- Check methodology, reasonableness of results, and constructability. If necessary, ask for clarification from the Design Engineer, request additional calculations, and if unsure of any particular element, seek technical advice.
- Check the calculations by providing independent calculations. Keep the alternate, independent calculation with the original. Indicate on the original that an alternate calculation was used for checking.
- When an error in computer input, assumptions, or load calculations is found, consider what that error will do to the outcome before redesigning. If the error has a negligible impact to the final design, it may not be necessary to redo the calculation.

- When an error is found that will have impact on the remainder of the calculations, return the calculations to the Design Engineer for correction prior to completing checking of the calculations. Such an error is one leading to a design result that is more than 5 percent non-conservative or more than 15 percent conservative

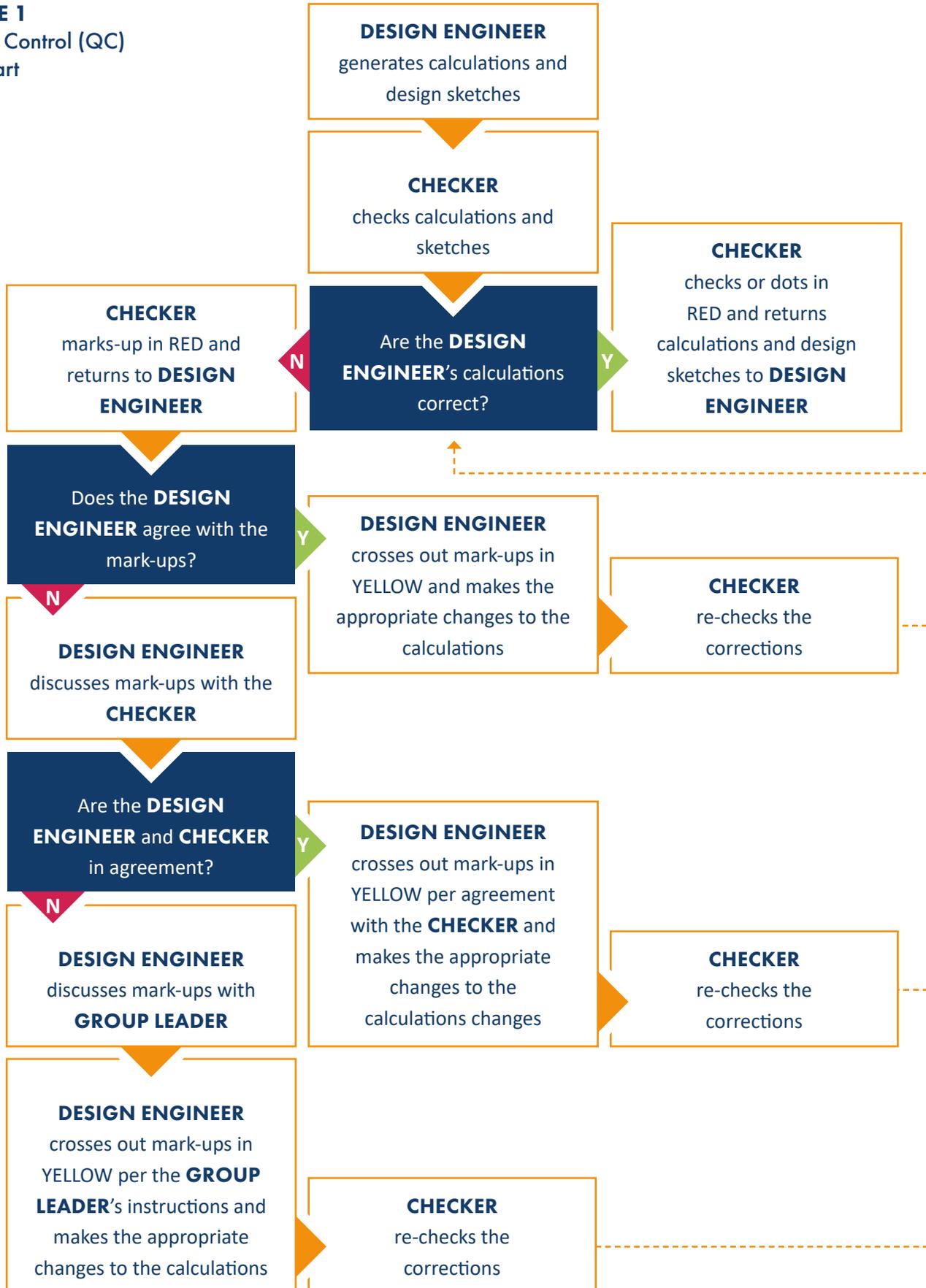
**Correcting (Design Engineer)**

- Revise the calculations and sketches based on the mark-ups. If not in agreement with a mark-up, discuss it with the Checker. Come to an agreement on whether to incorporate the mark-up. If unable to come to a resolution, consult the supervisor/group leader.

**Verifying (Checker)**

- Back check the revised calculations and sketches against the mark-ups to confirm all corrections have been incorporated or otherwise addressed.

**FIGURE 1**  
Quality Control (QC)  
Flowchart



## QUALITY CONTROL OF DETAILS

This process applies to details, plan sheets, and drawings.

The Quality Control of Details flow chart included as Figure 2 provides the process for the checking of the drawings.

### Preparation (Detailer)

- Develop all details in accordance with the current DOTD BDEM and applicable DOTD policies and practices.

### Checking (Design Engineer or Checker)

- Check the details for completeness of the plan set for design intent, technical adequacy and conformity to applicable standards, and for consistency with the corresponding calculations.
- Check individual drawings using appropriate guidelines from the current DOTD BDEM for errors, completeness, conformance, and consistency.

### Correcting (Detailer)

- Revise the details based on the mark-ups. If not in agreement with a mark-up, discuss it with the Checker. Come to an agreement on whether to incorporate the mark-up. If unable to come to a resolution, consult the supervisor/group leader. Mark any additional revisions on the originals.

### Verifying (Design Engineer or Checker)

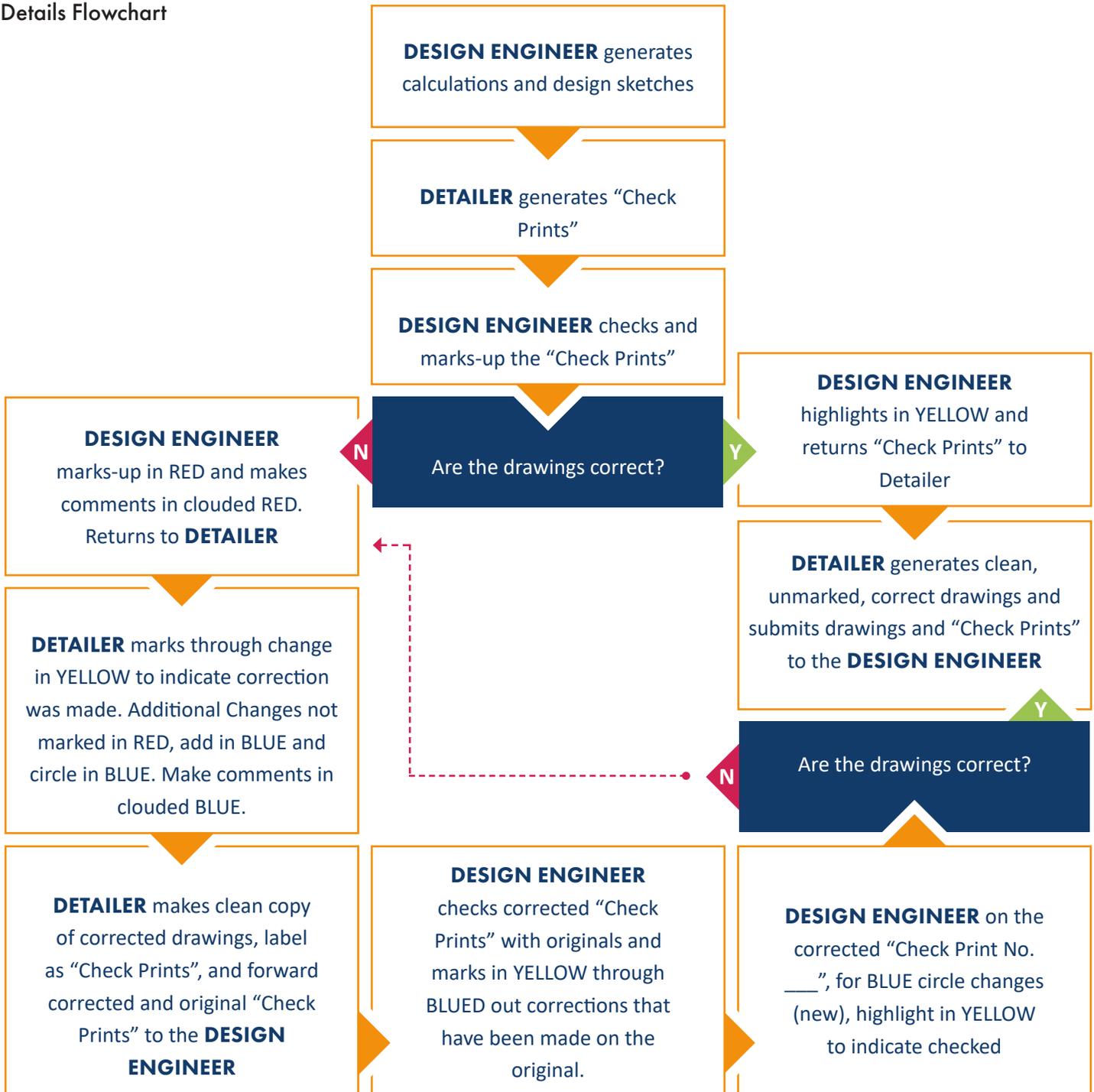
- Back check the revised details against the marked ups to confirm all corrections have been incorporated or otherwise addressed.

## ADDENDUM AND CHANGE ORDERS

It is sometimes necessary to submit revised plan sheets to address a change order or an addendum.

For change orders and addendum, follow the current DOTD policy and procedures. Remember to update all relevant calculations and details.

**FIGURE 2**  
Quality Control (QC) for  
Details Flowchart



## Step 5

### QUALITY ASSURANCE (QA) OF DESIGN AND DETAILS

Quality Assurance is the process of reviewing the quality control process for use and effectiveness at preventing mistakes and ensuring compliance.

The Quality Assurance process varies depending on the stage of plan development and who develops the plans. The Quality Control Plan is to be maintained such that it can be submitted to the DOTD if requested.

#### DURING PLAN DEVELOPMENT

**The Supervisor/Group Leader is responsible for Quality Assurance.**

The Supervisor/Group leader determines the level and complexity of the Quality Control process, assigns the Design Engineer, Checker, and Detailer. The Supervisor/Group Leader confirms the Quality Control process by reviewing that the details indicate the correct Design Engineer, Checker, and Detailer. In addition, the Supervisor/Group Leader completes a review of the details for constructability, applicability, completeness, and conformity.

Upon completeness of the QA process (no later than the 98% final plans stage) the design calculations, details, special provisions, and cost estimate are considered final and the final QC/QA Certificate included in Appendix A is to be signed by members of the project team.

#### DURING CONSTRUCTION

**During construction, DOTD engineers assume the role of Engineer-of-Record and complete field-engineering reviews.**

If a complex problem occurs, the DOTD may contact the original Engineer-of-Record, who will determine a solution and if necessary, provide calculations and revised details.

## Step 6

### PEER REVIEW (IF REQUESTED BY THE BRIDGE DESIGN ENGINEER ADMINISTRATOR)

Typically, a peer review will not be required. For more complex projects; however, the DOTD Bridge Design Engineer Administrator may request a peer review.

The peer review process is to be in accordance with the requirements specific to the project. At the conclusion of the review, a Peer Review Resolution Agreement may be required.

## Step 7

### SEALING OF THE CALCULATION BOOK AND PLANS BY EOR

Near the completion of the project, it is the responsibility of the Engineer of Record (EOR) to ensure that all calculations, details, QC/QA requirements, and all other department requirements are substantially complete.

At this stage, the following items are to be verified.

- Confirm that the QC/QA certification has been signed by all responsible parties.
- Assemble design calculations from all designers, finalize calculation book and seal the cover sheet.
- Verify that the names of the designer, design checker, detailer, detail checker, and reviewer are all correctly shown on the title block of each plan sheet.
- Ensure all special provisions are accurately shown on the construction proposal.
- EOR may sign the remaining sheets or designate qualified Professional Engineers to stamp the sheets developed under their supervision.

## Step 8

### QC/QA FOR DESIGN ACTIVITIES AFTER FINAL PLANS

The previously established QC/QA process and procedures are to be utilized for all plan revisions, change orders, etc. and any related calculations.

## Step 9

### ARCHIVING DESIGN FILES

The EOR is responsible for archiving all design files including calculation books, plans, special provisions, cost estimate, and other pertinent documents in accordance with the Bridge Design Section records retention policy.

It is also to responsibility of the EOR to deliver all design files to the DOTD Bridge Task Manger no later than 30 calendar days after the stamped final plans are delivered. Any revisions made to these documents due to plan revisions and change orders must be delivered with the signed plan revisions or change order sheets.

#### Notebook/File

The Design Engineer keeps a binder, folder, or electronic file clearly labeled with the Project Name, Parish (or County), and State Project Number that contain the following:

- *Request for Qualifications* – Keep a record of the original advertisement, addendums, Q&A, and the shortlist and award as determined by the Project Evaluation Team.
- *Correspondence* – Correspondence includes emails, memos, or other documents that affect the design or clarify design requirements.
- *Calculations* – Calculations generated and reviewed in accordance with the Quality Control Program. Calculations include hand-written documents, spreadsheets, and output from software. Convert the calculations to PDF for archive purposes.
- *Details* – Check Prints and Final Plan Sets generated and reviewed in accordance with the Quality Control Program.
- Any other documents required for design, such as existing plan sheets and review comments.

The Design Engineer documents any changes that occur after the Plan Review, such as Addendum, and post-letting, such as Change Orders and RFIs by including correspondence, calculations, check prints, and details that relate to the change or request in the electronic Notebook/File for the project.

## Appendix A

### QC/QA Certification

Project Number:

Project Name:

We, the undersigned designers, detailers, checkers, and reviewers for this project, have reviewed and accepted the calculations, plans, quantities, special provisions, and cost estimate prepared for the project. We certify that the work for which we are responsible has been completed in accordance with the current LADOTD Bridge Design Section policy on QC/QA.

Team Members	Name	P.E. Lic. No.	Responsible Plan Sheets	Responsible Special Provisions	Construction Cost Estimate	Signature
Designer(s)						
Design Checker(s)						
Detailer(s)						
Detail Checker(s)						
Engineer-of-Record (EOR)						

\*NOTE: Add rows as necessary for all disciplines represented in the design plans and calculations.

\*\*NOTE: Surveyor shall complete independent QC/QA prior to submitting the final survey. the Engineer-of-Record is responsible for ensuring that this process has been completed. This QC/QA verification shall be included in the final survey submittal to LADTOD survey and need not be included in this certification or the final calculations book.

## 22. Sub-consultant Information

If one or more sub-consultants will be used, provide the name, address, point of contact and phone number for each. Otherwise, leave this section blank.

Firm Name (Name must match as registered with Louisiana's Secretary of State)	Address	Point of Contact and email address	Phone Number
<b>GOTECH, Inc.</b> 	8383 Bluebonnet Boulevard Baton Rouge, LA 70810	Rhaoul A. Guillaume, Sr., P.E., F.ASCE rhaoul@gotech-inc.com	225-766-5358

## 23. Location

If location is an evaluation criterion for this advertisement and the prime consultant intends to establish a local presence, describe the plan for doing so. **Otherwise, leave this section blank. Any information included in this section will be redacted if not required by the advertisement.**



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