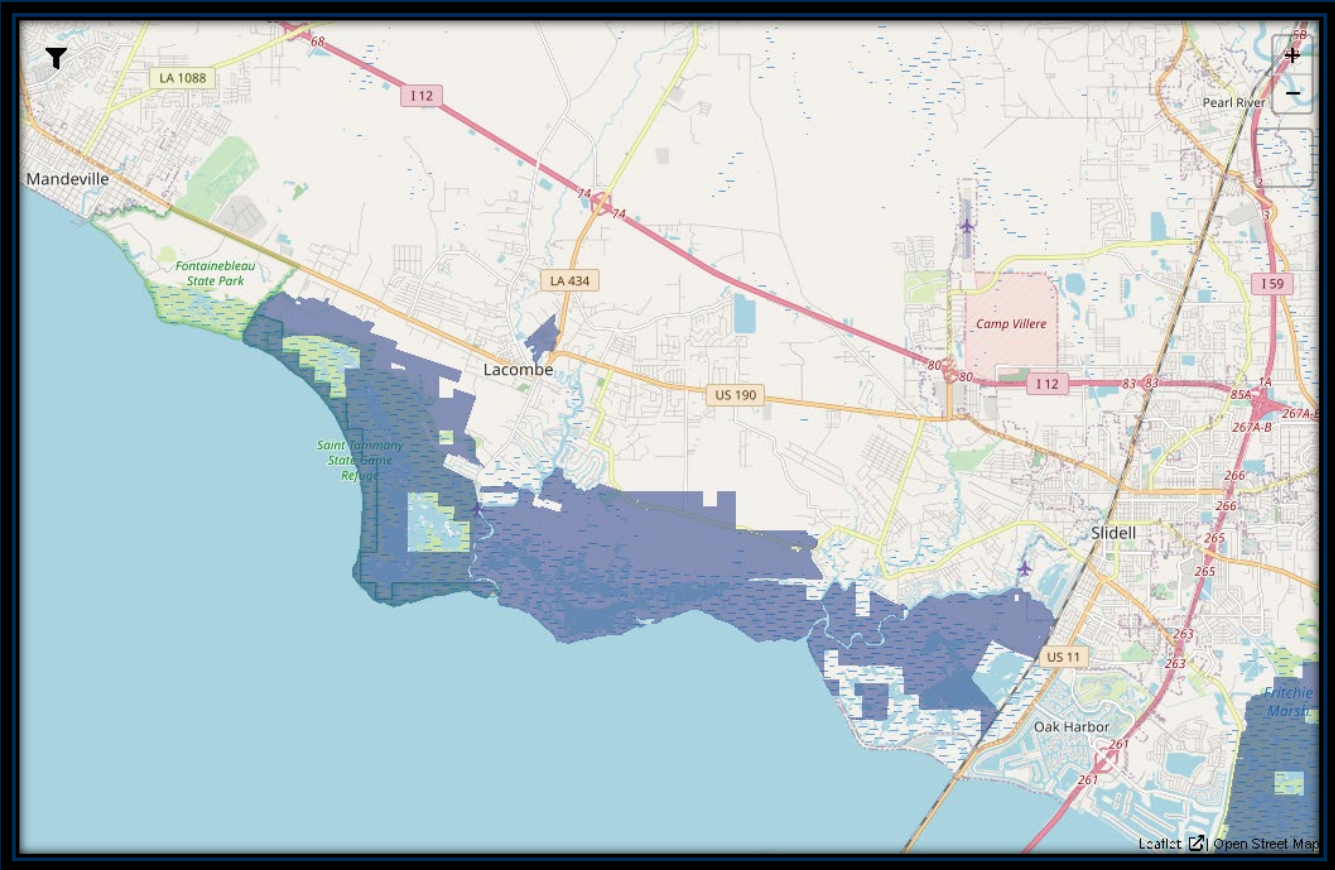


Contract No. 4400027734
State Project No. H.014362.5
Federal Aid Project No. H014362
Entity Contract for Lake Road—Big Branch Marsh NWR
St. Tammany Parish

Entity Contract for Lake Road—Big Branch Marsh NWR



Submitted to:
Louisiana Department of
Transportation and Development

Submitted by:
Royal Engineers and Consultants, L.L.C.

Date:
November 28, 2023

November 28, 2023

Department of Transportation and Development Consultant Contract Services Administrator
1201 Capitol Access Road, Room 405-E
Baton Rouge, LA 70802-4438

Contract No. 4400027734
State Project No. H.014362.5
Federal Aid Project No. H014362

Dear Consultant Selection Committee,

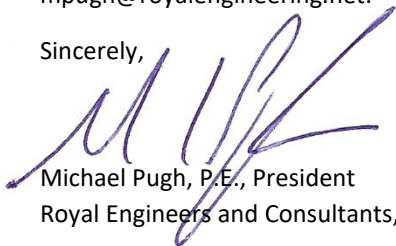
Royal Engineers and Consultants, L.L.C. (Royal) respectfully requests your review and consideration of the enclosed proposal prepared in response to the Department's advertisement for an Engineering and Related Services for Entity Contract for Lake Road—Big Branch Marsh NWR. Since 2005, Royal has delivered multi-discipline professional engineering, construction and program management, and resident inspection services for industry, government, and the private sector across the Gulf Coast and is fully licensed, bonded, and insured to do so. Additionally, Royal has provided construction engineering and inspection for complex roadway programs across Louisiana, totaling more than \$500 million.

With offices in Baton Rouge, New Orleans, and Lafayette, staffed with roadway design and construction specialists, the Royal Team is positioned to mobilize immediately and perform the requested services within the established parameters. We have strategically partnered with Basin LLC, an experienced survey firm and Certified-Active as a Small Business Entrepreneurship with the Louisiana Economic Development's Hudson Initiative.

Through our carefully selected team of professionals, we are committed to providing the Department and St. Tammany Parish with the full suite of design and construction support services required and are confident we will surpass your expectations. Our proposed team meets or exceeds the specified minimum requirements and is organized to meet the needed services described in Attachment A of the advertisement. The Royal Team's statement of qualifications contained herein is submitted in direct response to the referenced advertisement. It highlights our relevant experience and expertise and articulates our unique capabilities to perform needed services promptly and professionally within budget.

We appreciate the opportunity to respond and look forward to working with the DOTD and St. Tammany Parish. Please direct communication to our Primary Point of Contact, Michael Pugh, by phone at (504) 283-9400 or via email at mpugh@royalengineering.net.

Sincerely,



Michael Pugh, P.E., President
Royal Engineers and Consultants, L.L.C.



DOTD FORM: 24-102

(Revised January 1, 2023)


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	Entity Contract for Lake Road—Big Branch Marsh NWR
2. Contract Number(s) as shown in the advertisement	4400027734
3. State Project Number(s), if shown in the advertisement	H.014362.5
4. Prime consultant name (name must match as registered with the Louisiana Secretary of State where such registration is required by law)	Royal Engineers and Consultants, L.L.C.
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.0003328
6. Prime consultant mailing address	1501 Religious Street New Orleans, LA 70130
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	1501 Religious Street New Orleans, LA 70130
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Michael Pugh, P.E., President 504-283-9400 mpugh@royalengineering.net
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Michael Pugh, P.E., President 504-283-9400 mpugh@royalengineering.net

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

<p>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.</p>	 <p>Signature above shall be the same person listed in Section 9:</p> <hr/> <p>Date: November 28, 2023</p>	
<p>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.</p>	<p><u>Firm(s):</u> N/A</p>	<p><u>Firm(s)' %:</u> N/A</p>

12. Past Performance Evaluation Discipline Table:

As indicated in the advertisement, insert the completed table here. The percentages for the prime and sub-consultants must total 100% for each past performance evaluation discipline, as well as the overall total percent of the contract.

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).

Past Performance Evaluation Discipline(s)	% of Overall Contract	Royal Engineers and Consultants, L.L.C.	Basin LLC			Each Discipline must total to 100%
Road	65%	100%				100%
Survey	35%		100%			100%
Identify the percentage of work for the overall contract to be performed by the prime consultant and each sub-consultant.						
Percent of Contract	100%	65%	35%			100%

13. Firm Size:

For all firms that are part of this team, indicate the approximate number of personnel to be committed to this contract, by DOTD Job Classification and the total number of personnel within the firm that could provide support, if needed. If a specialized job classification is required and not included on the DOTD job classification list, specify "Other (please specify)" and include the classification title inside the parentheses.

The DOTD Job Classification(s) to be used can be found at the following link:

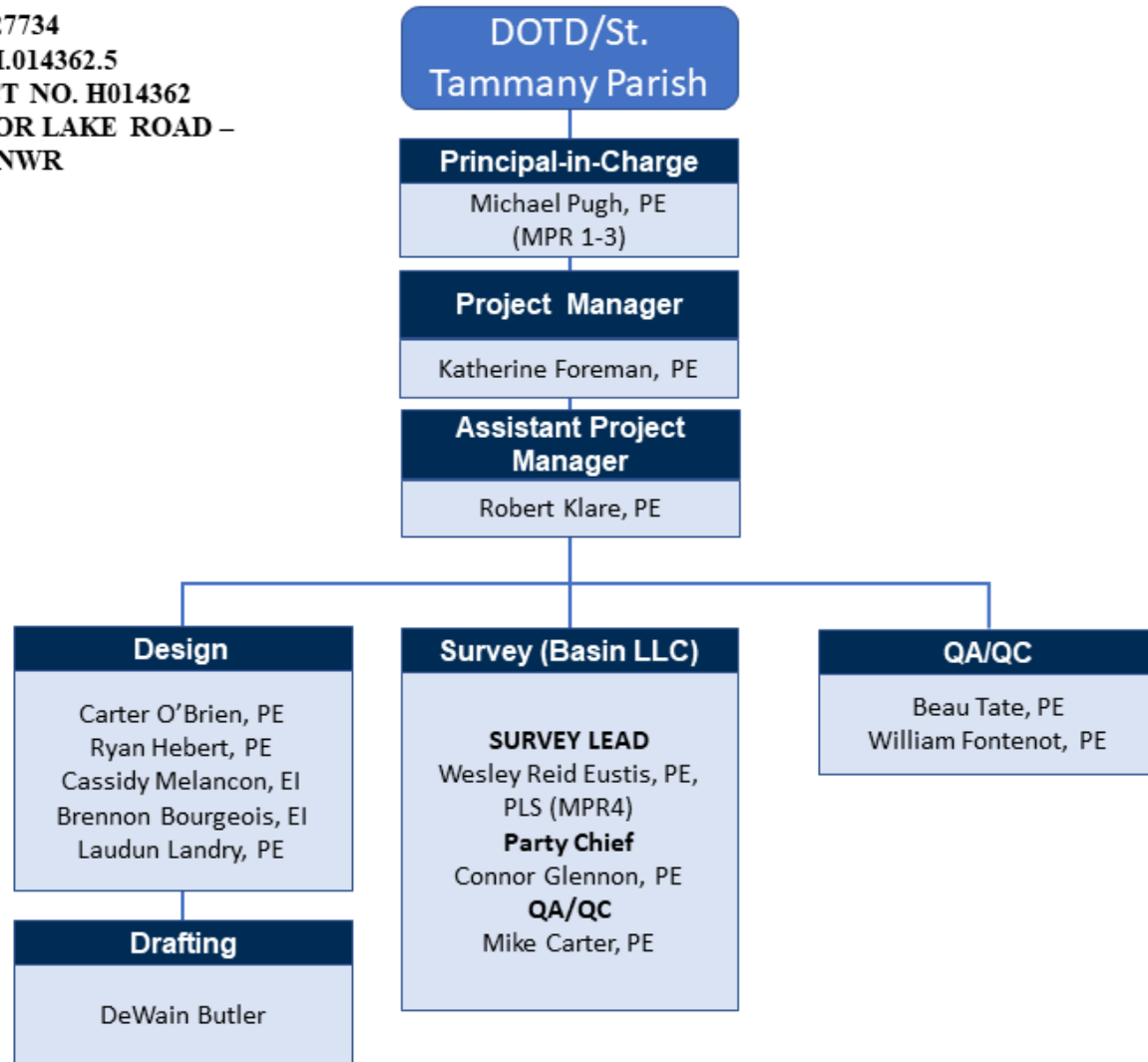
http://wwwsp.dotd.la.gov/Inside_LaDOTD/Divisions/Engineering/CCS/Job_Qualification/Job%20Classifications%20with%20Descriptions.pdf

Firm name	DOTD Job Classification	Number of personnel committed to this contract	Total number of personnel available in this DOTD Job Classification (if needed)
Royal Engineers and Consultants, L.L.C.	Principal	1	4
	Engineer	6	8
	Engineer Intern	2	4
	Supervisor - Engineer	1	3
	Drafter	1	3
Basin LLC	Surveyors	3	6

(Add rows as needed)

14. Organizational Chart:

CONTRACT NO. 4400027734
 STATE PROJECT NO. H.014362.5
 FEDERAL AID PROJECT NO. H014362
 ENTITY CONTRACT FOR LAKE ROAD –
 BIG BRANCH MARSH NWR
 ST. TAMMANY PARISH



15. Minimum Personnel Requirements:

Use the table below to identify both prime consultant and sub-consultant staff designated to work on this contract meeting the Minimum Personnel Requirements (MPRs) specified in the advertisement. Ensure the résumé reflects the required experience stated in the MPR. Make sure the P.E. discipline is also listed (highlighted in table) that is meeting the MPR; e.g. professional civil engineer should show the discipline of the license as civil if meeting that MPR.

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	Michael Pugh, PE	Royal Engineers and Consultants, L.L.C.	PE Civil 30911	LA	3-31-2024
2	Michael Pugh, PE	Royal Engineers and Consultants, L.L.C.	PE Civil 30911	LA	3-31-2024
3	Michael Pugh, PE	Royal Engineers and Consultants, L.L.C.	PE Civil 30911	LA	3-31-2024
4	Wesley Eustis, PE, PLS	Basin LLC	PLS 5225 PE 35537	LA	03/31/2024 09/30/2024

(Add rows as needed)

16. Staff Experience:

Firm employed by: Royal Engineers and Consultants				
Name	Michael Pugh, PE		Years of relevant experience with this employer	17
Title	Principal-in-Charge		Years of relevant experience with other employer(s)	11
Degree(s) / Years / Specialization			BS / 1997 / Civil Engineering	
Active registration number / state / expiration date			30911 / LA / 3-31-2024	
Year registered	2003	Discipline	Professional Engineer, Civil	
Contract role(s) / brief description of responsibilities			Principal, MPR 1-3	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
28 years of experience	Mr. Pugh has over 28 years of experience in designing roadway plans and the construction management of roadway and drainage systems. He managed the St. Bernard Parish Roadway Restoration Program, which has included the design, bidding, and construction management of 178 roadways with a construction value of nearly \$60 million. He is a Registered Professional Engineer in eight states, including Louisiana.			
06/18 - 06/19	Citywide Construction Administration and Resident Inspection Services for Sewerage and Water Board of New Orleans and City of New Orleans DPW Cooperative Agreement – New Orleans, LA Principal in Charge of the team contracted to provide construction management and inspection services for annual maintenance contractors in five (5) maintenance zones, performing repair and restoration of pavement and associated infrastructure, including utility repair and replacement (water, sewer & drainage), sidewalks, ADA-Compliant Ramps, as well as replacement and repair to associated infrastructure., with a monthly total of 30-35 sites per maintenance zone. Responsibilities included team mobilization, including serving as principal engineer.			
11/19 - Ongoing	City of New Orleans Roadway Restoration Program CM and Inspection – New Orleans, LA Principal Engineer on the Royal team contracted by the Department of Public Works (DPW) to provide construction management and resident inspection services for the City of New Orleans Roadway Restoration Program CM and Inspection. This project includes the restoration of parish concrete and asphalt roadways and associated infrastructure (<i>i.e.</i> , sidewalks, driveways, drainage, sewer, and water) that suffered damage during Hurricane Katrina. Construction services are being performed by multiple contractors under contract by DPW and overseen by Royal. Royal provides all construction management, data management, reporting, platform deployment, quality assurance, administration, pay applications, resident inspection, and closeout services.			
02/15 - Ongoing	St. Bernard Parish Government Pre-Cast Con-Span Canal Crossings Engineering and CM Services – St. Bernard, LA Principal Engineer on team contracted for civil engineering, design, surveying, geotechnical, field layout, bidding, construction administration, resident inspection, technical/engineering project close-out, and construction management (CM) services. Responsibilities included project governance, subject matter expert for design input, and team mobilization for replacing six culverts with pre-cast Con-Span structures and increasing the existing hydraulic capacity of the canal.			



03/17 - 05/19	<p>Lafayette Regional Airport, Taxiway F Phase III Enabling Project – Lafayette, LA Civil Engineering Subject Matter Expert on team providing construction management services for the Taxiway Foxtrot Phase III construction project located at the Lafayette Regional Airport which includes the creation of a parallel taxiway for Runway 4L-22R and a connector taxilane to extend Taxilane A to provide access to the new terminal. Responsibilities included performing a project constructability review.</p>
09/19 - 03/20	<p>MaxPave Roadway Program: PM/CM of Utility Rehabilitation – New Orleans, LA Principal Engineer responsible for interagency coordination, project management, contract administration, construction management, assessment, and resident inspection services for the CNO DPW and SWBNO combined utility rehabilitation initiative. The project involves 50 to 75 service cuts weekly to conduct the needed point repairs to the sewer and water infrastructure. Completed on-time and on-budget, Mr. Pugh's primary duties included client service management and civil engineering and utility impacts subject matter expertise.</p>
12/10 - 01/17	<p>Regional Transit Authority Streetcar Expansion Program – Construction Management Plus Principal-in-Charge for this streetcar expansion program, where Royal provided construction management and inspection services, document administration, and change order management. Services also included estimating and review of potential change orders and monitoring differing site conditions encountered during construction. The project consists of 14,400 track feet of continuously welded rail, installation of the half grand union at Canal and N. Rampart, an embedded double cross over at Frenchman & Elysian Fields, refurbishment of over 40 historic light poles to include LED bulbs, overhead catenary system installation, installation of traction powered substation, utility relocation and upgrades, and road milling and repaving. Mr. Pugh's team observed demolition, excavation, utility re- location, concrete, asphalt, earthwork, and track-work to ensure compliance with drawings and specifications.</p>
11/10 - 08/11	<p>Bloski Avenue Extension – Belle Chasse, LA Principal Engineer for this road construction project. Royal worked directly for the Naval Facilities Engineering Command Southeast as the prime contractor. This project consisted of constructing a 1,300-foot asphalt roadway and included the construction of stormwater drainage, sidewalks, concrete driveways, and solar street lighting. Through value engineering efforts, Mr. Pugh reduced NAVFAC's cost by \$800K and reduced the project schedule by 50 days. Royal was also responsible for the development and maintenance of the Stormwater Pollution Prevention Plan (SWPPP), Environmental Protection Plan (EPP), Health & Safety Plan (HASP), and Accident Prevention Plan (APP).</p>
03/07 - 10/09	<p>Roadway Restoration Project – St. Bernard Parish, LA Lead Design Engineer and Project Principal responsible for engineering, roadway plans/design, and construction management services for the restoration of all concrete and asphalt roadways, including associated infrastructure, including sidewalks, driveways, drainage, sewer, and water systems, that suffered damage during Hurricane Katrina and the recovery process. Mr. Pugh was the engineer in responsible charge for all design and served as the primary technical resource for contractor questions and challenges encountered during construction.</p>
01/98 - 08/00	<p>DOTD: Off System Bridge Program – Iberia Parish, LA Mr. Pugh was responsible for maintaining and supervising all Iberia Parish's Off-System Bridge Program projects. This project included intermediate inspection of bridges, recommendations for repairs, supervised repair work, coordination with DOTD and Parish officials, and maintenance of detailed bridge files.</p>


Firm employed by: Royal Engineers and Consultants				
Name	Katherine Foreman, PE		Years of relevant experience with this employer	7
Title	Professional Engineer		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		BS / 2017 / Civil Engineering		
Active registration number / state / expiration date		46031 / LA / 3-31-2024		
Year registered	2021	Discipline	Professional Engineer, Civil	
Contract role(s) / brief description of responsibilities		Project Manager		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
7 years of experience	<p>Ms. Foreman has 7 years of experience in civil engineering design and construction management on project types including storm drainage systems, asphalt and concrete road design, sidewalks, potable water distribution systems, gravity sewer systems, flood control structures, commercial and residential site design, foundation design, and retaining walls. Her expertise includes familiarity with DOTD design manuals and specifications, ADA requirements, and AASHTO standards and the use of various software packages for H and H design and analysis such as HEC-HMS, HEC-RAS, DOTD HYDR programs, HY8, and Autodesk Storm and Sanitary Analysis. Ms. Foreman has significant experience preparing plans and specifications to DOTD standards.</p> <p>Certifications: Traffic Control Supervisor and Traffic Control Technician</p>			
05/23 - Ongoing	<p>H.015009 W. Metairie Avenue Over S. Suburban Canal Off System Bridge – Jefferson Parish, LA Project Manager for DOTD Off-System Bridge (OSBR) replacement of an existing slab span bridge located in an urban area of Jefferson Parish. Ms. Foreman’s responsibilities include managing all aspects of design and client relations, overseeing plan production in accordance with the Off-System Highway Bridge Program Guidelines, leading the hydraulic analysis and design for all viable alternatives for the bridge replacement per the DOTD Hydraulics Manual, and coordinating survey efforts. Services provided by Royal include topographic and boundary survey, preliminary plan production, right-of-way agreements and sketches, and environmental services, including solicitation of views, categorical exclusion clearance, wetland studies, and other information needed for the Environmental Clearance process.</p>			
03/2 - 10/23	<p>SLECA Road Repairs – Ashland Road and Detiveaux Road, Terrebonne Parish, LA Ms. Foreman was the Engineer of Record responsible for designing, and preparing plans and specifications, and the Hydrologic Modification Impact Analysis (HMIA) for this project, for which Royal provided engineering design, permitting, and construction administration and management services for two roadways providing access to SLECA’s electrical distribution infrastructure in Houma, LA: Detiveaux Rd, a 1.5-mile long aggregate roadway providing access to the Bayou Dularge Main Feed, and Ashland Rd, a 2.3 mile long aggregate roadway providing access to the Ashland Substation.</p>			
06/23-Ongoing	<p>H.015018.5 Entity Contract for Lafayette Parish Non-State Pvmt Markings Project Manager for providing construction contract administration and construction engineering inspection services for the construction related to the nearly 14 miles of restriping of Cajundome Boulevard, East Pinhook Road/Teurlings Avenue, Kaliste Saloom Road, Mudd Avenue, and Gendarme Road, in Lafayette Parish.</p>			

03/18-Ongoing	<p>Indian Creek Low Water Crossing and Road Repairs, Fort Polk, LA Civil/Hydraulic Engineer on the team providing engineering services for a Design-Build project for the U.S. Army Corps of Engineers (USACE) located near Fort Polk, LA. The project will restore and widen approximately 2.4 miles of the existing Sagebrush Road and to design and construct a 1.2 mile new roadway and low water crossing (LWC) structure to provide connectivity across Indian Creek. Project features to be designed and constructed include an aggregate roadway and road base, open ditch drainage, reinforced concrete culvert crossing, reinforced concrete low water crossing structure, object markers and signage, and gates.</p>
08/15 - 11/21	<p>Polly Lane Extension – Lafayette, LA Civil/Hydraulic Engineer responsible for performing engineering design services and construction management for the extension and connection of both existing dead-end streets of Polly Lane, inclusive of roadway reconstruction and widening to its existing section at Verot School Road. The approximate length of the new roadway is 1,080 linear feet and the length of improvements to existing roadway is 930 linear feet. The roadway extension/connection consists of a 2-lane asphaltic concrete roadway, a 32 ft diameter reinforced Class A concrete roundabout, curb and gutter and subsurface drainage, a concrete box culvert over Isaac Verot Coulee Lateral 7, sidewalks, and lighting. As Engineer Intern, Ms. Foreman was responsible for performing engineering analyses for design of the storm drainage system, preparation of and revisions to construction documents, performing routine site visits, providing construction management/administration, and engineering support during construction, and overseeing resident inspection services throughout construction. As Project Manager, Ms. Foreman was responsible for invoicing, deliverables, scheduling, resourcing, and client coordination.</p>
06/15 - 06/17	<p>Détente Road Rehabilitation – Youngsville, LA Engineer Intern on team providing design, bidding and construction management services for the rehabilitation of Détente Road, consisting of mill & overlay of asphaltic pavement including asphaltic pavement patching. Responsibilities included coordination of testing laboratory requirements and support with change orders and work change directives related to additional locations.</p>
02/15 - Ongoing	<p>Missouri Street at Corinne Canal – St. Bernard Parish, LA Civil/Hydraulic Engineer on the Royal team contracted by St. Bernard Parish Government (SBPG) to provide Engineering Services for repairs, restorations and/or replacement of Parish owned roadway and bridges to their Pre-Katrina condition while preserving the historical value and intent of each facility and Engineering Services for replacement of 6 existing culverts with precast Con-Span structures. PW 19332, Missouri @ Corrine Bridge consisted of a Hazard Mitigation project to replace the preexisting two – 60” corrugated metal pipe culverts with a 26’-0” wide 72’-0” long clear span, precast concrete structure. Ms. Foreman was responsible for hydraulic analysis, site layout and grading, foundation design, wingwall design, and coordinating development of plans. During construction, responsibilities include submittal reviews (pile loads and con-span wingwall).</p>
08/19 - 01/20	<p>Roadway Repairs – St. Gabriel, LA Engineer Intern on team providing engineering design and engineering services during construction to mill and overlay four roadways including associated work to drive aprons and reconstruct one roadway including pavement removal, general excavation, soil cement, class II base course, asphaltic concrete pavement and associated work to drive aprons. Responsibilities included bid tabulation and recommendation for award.</p>

Firm employed by: Royal Engineers and Consultants				
Name	Robert Klare, PE		Years of relevant experience with this employer	<1
Title	Construction Engineer		Years of relevant experience with other employer(s)	10
Degree(s) / Years / Specialization			Bachelor of Science Engineering/Civil/2013	
Active registration number / state / expiration date			PE.0042991/LA/ March 31, 2025	
Year registered	2018	Discipline	Civil Engineering	
Contract role(s) / brief description of responsibilities			Assistant Project Manager	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
Years of Experience	Mr. Klare has extensive experience in road and sidewalk design for Louisiana DOTD projects. Technical skills include AutoCAD, EPA SWMM, and LADOTD Hydraulic Design Software. He has a Bachelor of Science in Civil Engineering from LSU and his related coursework included Intro to Surveying, Advanced Surveying, Hydrologic Design, Steel Design, Concrete Design, Deep Foundations			
2019-2021	H.013365 LA45/LA303 Rosethorne Path (Lafitte) Mr. Klare designed a 2-mile-long concrete walk along Jean Lafitte Boulevard in Lafitte. The project connected previously isolated sections of residential areas with the town’s commercial and recreational assets. The design accommodated a narrow right-of-way, existing drainage inlets and other utilities, while conforming to all ADA and LADOTD requirements. Construction finished in 2023.			
06/22-03/23	H.013525 St. Bernard Parish 40 Arpent Trail Mr. Klare designed an asphalt bike trail on 40 Arpent Levee in Chalmette, LA. This 7.5-mile trail expands bicycle and pedestrian access in St. Bernard Parish and includes four bridges across the 40 Arpent Canal. The project is currently under construction.			
2010	St. John Eastbank Levee Trail – Multiple projects The levee trail extends from the St. John/St. Charles parish line to the St. Charles/St. James line. As a project engineer, Mr. Klare worked on approximately seven miles of this 14-mile asphalt trail, about 14 miles. Construction was completed in phases from 2011-2020.			
2016	City of Lafitte Sidewalks Mr. Klare was the project engineer for two projects adding concrete sidewalks around downtown Lafitte. This urban project increased connectivity between critical economic corridors in the Town of Lafitte, providing safe passage for pedestrians and recreational value. Construction was completed in 2017.			
2013 to 07/23	Project Engineer-Meyer Engineers, Ltd. Mr. Klare worked on various public and private projects, designing roadways, sidewalks, foundations, and drainage infrastructure. He also performed site and minor structural design. His projects include the LA 59 Realignment and Tammany Trace Tunnel (LADOTD), the Northeast Louisiana Veterans Cemetery, the S Galvez Street Full Reconstruction (New Orleans) and the Port of South Louisiana Administration Building (St. John the Baptist Parish). Mr. Klare drafted plans and technical specifications, obtained regulatory permits and approval, including LADOTD, USACE, CUP, Mississippi River Levee Districts, Fire Marshal, and municipal Planning and Zoning. He also prepared cost estimates, project timelines, project scopes, contracts.			



01/23 – Ongoing	<p>Construction Management and Estimating Services for Nashville Wharf A Substructure Repairs, Phase 2, Port of New Orleans Project Engineer responsible for assisting the project manager with construction management services including cost estimating, constructability reviews, document control, field representation, and supporting Port NOLA with project close out for the repair of the substructure of the Nashville Wharf “A” facility located on the Mississippi River in New Orleans, LA. The existing wharf was constructed in 1960 and 1961 and is approximately 2,400 linear feet long and 214 feet wide and supported by approximately 5,371 steel piles.</p>
10/20 - Ongoing	<p>Roadway Restoration for Bayou St. John, Fairgrounds, and Seventh Ward Group B Roads – New Orleans, LA Project Engineer responsible for providing construction administration and management for the City of New Orleans Department of Public Works. Mr. Klare works with the project manager to provide field management of the contractor and all construction activities, including conducting progress meetings, dealing with resident complaints, review and recommending for approval of monthly pay estimates, assisting in field adjustments, and using knowledge and experience in civil construction to ensure the project remains on schedule and budget.</p>

Firm employed by: Royal Engineers and Consultants					
Name	Carter O'Brien, PE		Years of relevant experience with this employer	5	
Title	Professional Engineer		Years of relevant experience with other employer(s)	12	
Degree(s) / Years / Specialization			BS / 2013 / Civil Engineering		
Active registration number/state/expiration date			43647 / LA / 3-31-2024		
Year Registered	2019	Discipline	Professional Engineer, Civil		
Contract role(s) / brief description of responsibilities			Civil Engineering Design/Constructability Review		
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).				
11 Years of Experience	Mr. O'Brien is an Engineer with over 10 years of heavy civil, roadway, drainage, and bridge construction experience. Mr. O'Brien has managed field operations, inspectors, project documentation, and closeout on numerous projects. He has completed road restoration and reconstruction projects for DOTD, FEMA, and other local agencies. He has extensively worked in asphalt paving, PCCP, catch basins, drainage, and sidewalk projects. Mr. O'Brien has significant experience preparing plans and specifications in accordance with DOTD standards. Certifications: Traffic Control Supervisor, Traffic Control Technician, Certified Flagger				
10/20 - Ongoing	Roadway Restoration for Bayou St. John, Fairgrounds, and Seventh Ward Group B Roads – New Orleans, LA Project Engineer responsible for providing construction administration, construction management, and resident inspection services for the City of New Orleans Department of Public Works. Mr. O'Brien delivered construction plan changes which involved rapid scope increases, concrete joint layout configurations and as-built plans during construction.				
04/18 - 02/20	St. Gabriel Roadway Repair: Phase 5 – St. Gabriel, LA Construction Manager on the Royal team contracted by the City of St. Gabriel to provide Construction Management and Engineering Services for the restoration of four roadways and the full reconstruction of one roadway. This project's scope consisted of cold planing of existing asphalt, Lime and Soil cement treatments, asphalt binder and wearing overlay. Mr. O'Brien performed construction management responsibilities during the Construction phase, assisted in design alterations during construction, and produced as-built drawings for post-construction closeout.				
10/22 – Ongoing	Construction Management Services for Jourdan Rd Wharf Terminal Substructure Repairs, Port of New Orleans Project Manager responsible for providing construction management services, including constructability reviews, document control, field representation, supporting Port NOLA with project close out for the repair of the substructure of the wharf at the Jourdan Road Terminal on the Gulf Intracoastal Waterway in New Orleans. The existing wharf is more than 40 years old, measures 1,400 linear feet long by 265 feet wide consisting of pre-cast and cast- in-place deck elements supported by 2,000 open-ended steel pipe piles which are 14” and 16” in diameter with a 3/8” wall thickness and contain a fibrous jacket on the top 6 to 8 feet known to contain asbestos. The delivery method for the project is Construction Management at Risk (CMAR).				
01/23 – Ongoing	Construction Management and Estimating Services for Nashville Wharf A Substructure Repairs, Phase 2, Port of New Orleans Project manager responsible for providing construction management services including cost estimating, constructability reviews, document control, field representation, and supporting Port NOLA with project close out for the repair of the substructure of the Nashville Wharf “A” facility located on the Mississippi River in New Orleans, LA. The existing wharf was constructed in 1960 and 1961 and is approximately 2,400 linear feet long and 214 feet wide and supported by approximately 5,371 steel piles. The steel pile type varies throughout the structure. The delivery method for the project is Construction Management at Risk (CMAR).				

06/17 - 08/20	<p>Sales Tax Street and Road Rehabilitation Program – East Baton Rouge Parish, LA</p> <p>Mr. O'Brien assisted the Project Engineer for this project which began in 1990. Mr. O'Brien provided oversight of inspectors, developed plans and quantities for upcoming projects, handled partial estimates and change orders and assisted the project engineer on project administration for the past 5 years. These projects include a variety of rehabilitation jobs; PPC paving patching, asphalt patching, asphaltic concrete overlay, crack sealing and full reconstruction including soil cement. Mr. O'Brien has served as Engineer on the following projects: 14-09 Winbourne Ave, 14-15 Crack Sealing, 15-01 Carrington Place, 15-02 / H.010648 Acadian Thruway Project, 15-03 Santa Maria, 15-04 Magnolia Trace & Shadows of White Oak, 15-05 Brookstown, 15-06 / H.010650 OLOL Project, 15-07 Old Perkins Barringer Foreman, 15-08 Woodale & Lobdell, 15-09 Pearirs Road & Comite Drive, 15-10 Crack Sealing, 15-11 PCC Partial Depth Patching, 15-12 Stumberg, 16-01 / H.011364 Goodwood Blvd., 16-02 / H.011363 Sherwood Blvd., 16-03 Sherwood Forest Streets, 16-04 Dalrymple, 16-05 Bluebonnet and Nicholson, 16-06 Arbor Walk, 16-07 Choctaw, Prescott and Airway, 16-09 Goodwood and Sherwood Forest, 16-10 / H.011842 Chocktaw Drive Pavement Preservation. (DPW Project No. 15-CEST-0001)</p>
03/15- Ongoing	<p>I Gallo Drive at Arpent Canal Bridge, St. Bernard Parish, LA</p> <p>Mr. O'Brien performed technical reviews and design support throughout the design process. The Gallo Drive Bridge scope included a full replacement of the existing two – 60" concrete pipe culverts with a 26'-0" wide clear span, precast concrete structure. Royal performed an analysis of existing conditions and identified significant damages to the pipe ends as well as pipe breakage. Engineering Services included civil engineering, design, surveying, geotechnical, field layout, bidding, construction administration, resident inspection, technical/engineering project close-out, construction management (CM) services. Royal produced the construction contract documents and bid package. Deliverables included detailed design plans, comprehensive cost estimates, and CPM schedules.</p>
08/14 - 08/16	<p>H.003432 / US-51 Business Roundabouts – Hammond, LA</p> <p>Senior Field Engineer responsible for problem identification and resolution in the field. This included preparing, designing, submitting, and revising concrete and asphalt mix designs in accordance with the project plans and specifications. Mr. O'Brien updated the CPM schedule each month, prepared as-built plans during construction to reflect in-field changes, and performed traffic control design during construction. He submitted numerous traffic control plans during construction phase changes and ensured the TC plans were in accordance with the MUTCD. Various drainage structures had to be altered to accommodate in-field conflicts, for which Mr. O'Brien calculated the slope, made drainage structure drawing adjustments, and ensured all changed structures met the project specifications. In addition, he was responsible for OSHA-compliant safety measures being exercised in the field; surveying; and change order management and quality control on all project materials including asphalt density testing, base density testing, concrete cylinders, soil cement densities and striping reflectivity testing.</p>

Firm employed by: Royal Engineers and Consultants				
Name	Ryan Hebert, PE		Years of relevant experience with this employer	6
Title	Professional Engineer		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization			BS / 2017 / Environmental Engineering	
Active registration number / state / expiration date			46577 / LA / 9/30/2024	
Year registered	2018	Discipline	Civil Engineer	
Contract role(s) / brief description of responsibilities			Construction Engineer	
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
6 years of experience.	Mr. Hebert is a professional engineer with a degree in Environmental Engineering with experience in construction operations for street, sewer, and water systems repair. Specific project experience includes catch basin cleaning, asphalt and pavement patching, ADA project elements, and water and sewer line repairs. For Royal Projects, Mr. Hebert provides inspection services and project and construction management support. This includes assisting with project scheduling and coordination, quality control, and ensuring retention of administrative records. Certifications: Traffic Control Technician and Traffic Control Supervisor			
07/22 - Ongoing	Airbase Fire Station Temporary Site Improvements, Houma, LA Engineer on Royal team contracted by Terrebonne Parish Consolidated Government (TPCG) to provide engineering design of site improvements for the construction of a temporary fire station facility at the site of an existing fire station building which was badly damaged during Hurricane Ida. Tasks performed include Rational Method analysis and design of site grading and ditches in accordance with the DOTD Hydraulics Manual and TPCG’s stormwater design guidelines.			
11/19-Ongoing	FEMA Roadway Restoration Program: New Orleans, LA Assistant Project Manager responsible for construction administration and management services for pavement restoration efforts undertaken by the City of New Orleans Department of Public Works (DPW) as part of the CNO Capital Improvement Program. DPW has two construction contractors (GC's) under contract to perform routine maintenance under a requirements-based contract. These contractors are dispatched on a work order-based system to repair and restore pavement and associated infrastructure. These projects include pavement restoration, utility repair, and replacement (drainage only), sidewalks, ADA-Compliant Ramps, and replacement and repair to associated infrastructure.			
02/18-Ongoing	City-Wide Construction Administration and Resident Inspection Services: New Orleans, LA Associate Inspector for the Royal team contracted by the City of New Orleans Department of Public Works to provide construction management and resident inspection services for roadway restorations of water and sewer service cuts throughout the City. The program consisted of assessing over 30,000, cleaning over 15,000 and repairing over 3,000 catch basins. Also, under the City’s contract, Mr. Hebert served as associate inspector for eight full roadway rehabilitations including base excavation and installation, asphaltic concrete mill and overlay, and concrete pavement installation. He regularly assists in project scheduling and coordination and is responsible for maintaining quality control and completing administrative records.			
10/18-11/19	Interim Paving Program: New Orleans, LA Assistant Project Manager and Lead Inspector for team providing part-time inspection for temporary roadway restorations of water and sewer cuts throughout the city. The program consisted of identifying over 1,000 service cuts and nearly 800 completed repairs in a matter of 6 months. Mr. Hebert was the lead inspector and assistant Project Manager and was responsible for maintaining quality assurance and control of all field information captured by inspectors and oversaw work order development.			



Firm employed by: Royal Engineers and Consultants				
Name	Cassidy Melancon, EI		Years of relevant experience with this employer	1
Title	Design Engineer		Years of relevant experience with other employer(s)	2
Degree(s) / Years / Specialization		BS /2020/Civil Engineering		
Active registration number / state / expiration date		Civil Engineering / Louisiana/ Engineer Intern 0034626/03-31 -2025		
Year registered	2020	Discipline	Engineer Intern, Civil	
Contract role(s) / brief description of responsibilities		Roadway and Hydraulic Design		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
05/23 - Ongoing	<p>H.015009 W. Metairie Avenue Over S. Suburban Canal Off System Bridge – Jefferson Parish, LA Ms. Melancon is an Engineering Intern responsible for site layout, roadway vertical curve design, guardrail layout, and supporting plan production for this DOTD Off-System Bridge (OSBR) replacement of an existing slab span bridge located in an urban area of Jefferson Parish. Services provided by Royal include topographic and boundary survey, preliminary plan production, right-of-way agreements and sketches, and environmental services, including solicitation of views, categorical exclusion clearance, wetland studies, and other information needed for the Environmental Clearance process.</p>			
03/22 - 10/23	<p>SLECA Road Repairs – Ashland Road and Detiveaux Road, Terrebonne Parish, LA For the Ashland Road section, Ms. Melancon was an Engineer Intern responsible for plan development, creating a topographic survey surface using point elevation data, and performing a Hydrologic Modification Impact Analysis (HMIA) to support the Coastal Use Permit process. Royal provided engineering design, permitting, and construction administration and management services for two roadways providing access to SLECA’s electrical distribution infrastructure in Houma, LA: Detiveaux Rd, a 1.5-mile long aggregate roadway providing access to the Bayou Dularge Main Feed, and Ashland Rd, a 2.3 mile long aggregate roadway providing access to the Ashland Substation.</p>			
11/22-Ongoing	<p>Jefferson Davis Electric Cooperative, Disaster Recovery PM Services, Cameron Parish Relevant Service Lines: Civil Engineering / Construction Management / Project Management / Coastal Services / Disaster Recovery Services / Architecture Services Project Role: Engineer Intern responsible for conceptual design of guardrails for installation of 230kV Transmission Line System Loop. Tasks included determining clear zone requirements, the necessity of guardrails, and preliminary guardrail lengths of need at locations of all proposed power poles within the DOTD Right-of-Way. Analysis included measurement of offsets distances, side slopes, and identification of site-specific features such as ditches and wetland areas for over 300 power poles throughout the system utilizing aerial imagery, topographic survey data, and the Transmission Line design drawings.</p>			

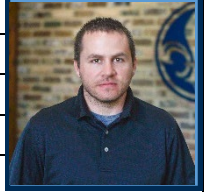


10/22-01/23	<p>Odyssey House Parking Lot Design, New Orleans, LA Engineer Intern responsible for development of design plans for an approximately 7854 square foot lot for the construction of an accessory parking lot including implementation of permeable pavement system to comply with City of New Orleans stormwater ordinances. Design tasks included preparing site grading plans, concrete joint layout, and performing pre- and post- development drainage calculations. Construction features include approximately 3552.8 SF of concrete paving, 2298.7 SF of permeable pavers, 2298.7 of 24" thick permeable paving base course, 239.9 LF of barrier curbing, 173.3 LF of perforated underdrain pipes, 105.7 LF of PVC drainage pipe, 2 drain inlets, and pavement striping to delineate parking spaces.</p>
11/22-Ongoing	<p>NAVFAC P526U P529U, VCC and Inspection Facility AE, Location: Belle Chasse, LA Project Role: Engineer Intern responsible for civil design of site grading, roadway vertical alignment, and stormwater analysis and design in accordance with UFC, AASHTO, DOTD, and Military design standards. Contracted services include architectural, structural, and civil design services for a design-build project to construct a new entry control facility including a Visitor Control Center, Commercial Vehicle Inspection station, commercial roadway, and associated site infrastructure for the Naval Air Station Joint Reserve Base (NAS JRB) in Belle Chasse, LA. Additional project features include a duress alarm system, overhead canopy for commercial vehicle inspection, signage, LED lane control signal lights, elevated access control lane islands, permanent passive barriers, traffic control arms, traffic signalization, phasing to maintain existing operation levels, and all utilities and pavements.</p>
11/22-Ongoing	<p>SBPG East Bank Sediment Transport Corridor – Highway 15 Road Reconstruction, Plaquemines Parish, LA Engineer Intern responsible for structural design of box culverts and retaining walls, guardrail design, temporary traffic control plans, and preparing quantity takes and cost estimates for the design of roadway regrading and reconstruction to facilitate installation of a permanent pipeline casing adjacent to the Mississippi River Levee. The permanent pipeline casing is required as part of a proposed corridor through Plaquemines and St. Bernard Parishes that would deliver dredged sediment from point bars within the Mississippi River to marsh creation areas within the Breton Sound.</p>
01/18-9/22	<p>Various Projects Prior to Royal Structures: Designed multiple steel structures of varying sizes and functionality and corresponding concrete foundations, calculated design loads based on the intended function each proposed structure. Drainage: Calculated surface runoff in areas where improvement was needed and designed multiple drainage systems, designed a simple pipe-flow system and calculated the corresponding velocities and losses. Project Management: Estimated quantities and material costs to support budgeting and costing of large-scale projects, conducted multiple site visits to ensure that projects were design accurate and on track</p>


Firm employed by: Royal Engineers and Consultants				
Name	Brennon Bourgeois, EI		Years of relevant experience with this employer	2
Title	Design Engineer		Years of relevant experience with other employer(s)	0
Degree(s) / Years / Specialization		BS / 2021 / Civil Engineering		
Active registration number / state / expiration date		34870 / LA / 9-30-2025		
Year registered	2021	Discipline	Engineer Intern, Civil	
Contract role(s) / brief description of responsibilities		Roadway and Hydraulic Design		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
2/21-02/22	<p>CAMELLIA - SETTLERS TRACE TURN LANE: Lafayette, LA. Engineer Intern on team providing engineering services to the Lafayette Consolidated Government for designing a dedicated right turn lane and second left turn lane at the intersection of Camellia Boulevard and Settlers Trace Boulevard. Services consist of preparing plans and specifications for construction of the project and performing engineering design and analyses for widening of the concrete roadway, evaluation of the existing drainage infrastructure, and identifying required modifications to the existing drainage system. Additional project features include road striping, sidewalk relocation, and street lighting. Mr. Bourgeois was responsible for providing construction administration and engineering support to the Project Engineer/Project Manager through construction phase of the project. Specific tasks included review and management of pre-construction submittals, review and management of Daily Inspection Reports and Materials Testing reports, Tracking material/construction quantities and labor hours, reviewing contractor and inspector pay applications, and site visits.</p>			
02/21-10/21	<p>POLLY LANE EXTENSION: Lafayette, LA. Engineer Intern responsible for construction management support during construction for the extension and connection of both existing dead-end streets of Polly Lane, including roadway reconstruction and widening to its existing section at Verot School Road. The approximate length of the new roadway is 1,080 linear feet and the length of improvements to existing roadway is 930 linear feet. The roadway extension/connection consists of a 2-lane asphaltic concrete roadway with curb and gutter and subsurface drainage, a concrete box culvert over Isaac Verot Coulee Lateral 7, sidewalks, and lighting. Mr. Bourgeois was responsible for providing construction administration support to the Project Engineer and Project Manager during the project's construction phase. Specific tasks included reviewing and managing Daily Inspection Reports and Materials Testing reports, tracking material/construction quantities and labor hours, and reviewing contractor and inspector pay applications.</p>			
02/21-Ongoing	<p>CNO STREET REPAIR – LEONTINE, VALMONT, CAMP, AND CHESTNUT: New Orleans, LA. Engineer Intern on team providing Engineering Design and Construction Administration Services for the City of New Orleans for roadway enhancement and full reconstruction of streets and utilities in a portion of the Uptown neighborhood of New Orleans, Louisiana. Royal provided main line drainage design, water line replacement design, and sewer line replacement design for portions of Camp Street, Leontine St., Valmont St., Coliseum St., and Chestnut St. in accordance with New Orleans Department of Public Works and New Orleans Sewerage and Water Board requirements. Mr. Bourgeois was responsible for supporting the design team by assisting with various tasks involving the plan review with respect to utility conflicts and making sure all comments were addressed.</p>			



Firm employed by: Royal Engineers and Consultants				
Name	Laudun Landry, PE		Years of relevant experience with this employer	1
Title	Design Engineer		Years of relevant experience with other employer(s)	6
Degree(s) / Years / Specialization		BS / 2017 / Civil Engineering		
Active registration number / state / expiration date		Civil Engineering /Louisiana/ Engineer Intern 0034626/03-31 -2025		
Year registered	2021	Discipline	Professional Engineer, Civil	
Contract role(s) / brief description of responsibilities		Roadway Design		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
7 years of experience	Mr. Landry was previously employed with the DOTD, where he was involved in the engineering design of bridge structures and reviewing engineering plans and specifications on consultant projects. His experience includes acting as Engineer of Record (H.001666), Bridge Task Manager (H.012031, H.012535, H.014672, H.014323, H.012071, H.014591, H.002337, H.011993), and Design Engineer on various DOTD projects			
05/23- Ongoing	<p>H.015009 W. Metairie Avenue Over S. Suburban Canal Off System Bridge – Jefferson Parish, LA Structural Engineer responsible for design of Box Culverts, Headwalls, and Wingwalls to replace the existing slab span bridge for this DOTD Off-System Bridge (OSBR) replacement of an existing slab span bridge located in an urban area of Jefferson Parish. Services provided by Royal include topographic and boundary survey, preliminary plan production, right-of-way agreements and sketches, and environmental services, including solicitation of views, categorical exclusion clearance, wetland studies, and other information needed for the Environmental Clearance process.</p>			
03/22-Ongoing	<p>Cameron-Creole Maintenance Project (CS-04A) – Cameron Parish, LA Civil/Structural design engineer on Royal project team responsible for all engineering, design, surveying, permitting, and construction administration and oversight services necessary for the maintenance/repair work to the Cameron-Creole Maintenance Project (CS-04A) damaged by Hurricane Laura. Features include: (1) Mangrove Bayou: Water Control Structure and Interior Canal Plug, (2) Grand Bayou: Water Control Structure, Interior Canal Plug, and Levee Breach, (3) Lambert Bayou: Water Control Structure and Levee Breach, and (4) No Name Bayou: Water Control Structure and Levee Breach. General repair activities are inclusive of excavation and dredging of siltation and debris, placement of hauled in fill materials and rip rap, installation of sheet pile wall structures, and mechanical repairs to existing structures. Mr. Landry is performing structural engineering services for Final Design and serves on the Red Team Review panel.</p>			
09/20-03/22	<p>H.001666 Dorcheat Bayou Bridge Replacements – Webster Parish, LA (Project experience while employed at DOTD) Civil/Bridge Engineer of Record. This project included engineering to design four replacement bridges on LA 160. The bridges were simple slab span bridges. The project scope included coordination with the road design team to bring the route up to current code, including guard rail design, and alignment adjustments.</p>			
09/20-03/22	<p>H.002264 LA 302: Bayou Barataria MB Replacement – Jefferson Parish, LA (Project experience while employed at DOTD) Civil/Structural Design Engineer. This project included the engineering design of a mechanical bridge to replace the existing swing span bridge. Responsible for the structural design and detailing of the replacement bridge’s operator house.</p>			



09/20-03/22	<p>Sunshine Bridge Pier 4 Fender Repair – Donaldsonville, LA (Project experience while employed at DOTD) Civil/Bridge Engineer. The project goal was to repair the pier protection fender system on Pier 4 of the Sunshine bridge. The existing fender system had been damaged from multiple barge impacts. Responsibilities included reviewing submitted plans and specifications to ensure the designed repair met the requirements set forth by the initial pier protection design as well as current design standards and practice</p>
09/20-03/22	<p>H.014323 I-10: Miss River BR Fender Rep. (Pier 6) – East Baton Rouge Parish, LA (Project experience while employed at DOTD) Bridge Engineering task manager for the rehabilitation/repair of Mississippi River bridge fenders for Pier 6. Mr. Landry’s responsibilities included review of plans and specifications to ensure the new repair met the requirements set forth by the original design.</p>

Firm employed by: Royal Engineers and Consultants					
Name	DeWain Butler		Years of relevant experience with this employer	1	
Title	Lead Technician		Years of relevant experience with other employer(s)	18	
Degree(s) / Years / Specialization		Formal training in AutoCAD, AutoCAD Map 3D, and Civil 3D			
Active registration number / state / expiration date		N/A			
Year registered	N/A	Discipline	Drafting and Design		
Contract role(s) / brief description of responsibilities		Drafting			
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
11/23-Ongoing	<p>Naval Air Station Joint Reserve Base New Orleans, NAVFAC P526U Visitor Control Center and Commercial Inspection Facilities, Belle Chasse, LA</p> <p>Role: Drafter/Designer. Contracted Services: Create, approve, and stamp, a design-build 100% for construction set of drawings/plans using all required UFC codes for a new visitor control center building, commercial vehicle inspection office, duress alarm system, overhead canopy for commercial vehicle inspection, signage, and LED lane control signal lights, elevated access control lane islands, permanent passive barriers, traffic control arms, traffic signalization, phasing to maintain existing operation levels, and all utilities and pavements. Responsibilities: Design drawings for all submittals.</p>				
10/22-Ongoing	<p>Parking Lot Design, Odessey House Louisiana, Inc., New Orleans, LA</p> <p>Role: Drafter/Designer. Contracted Services: Drafting construction drawings for the development of an approximately 7854 square foot lot to construct an accessory parking lot, including implementing a permeable pavement system to comply with City of New Orleans stormwater ordinance. Construction features include approximately 3552.8 SF of concrete paving, 2298.7 SF of permeable pavers, 2298.7 of 24” thick permeable paving base course, 239.9 LF of barrier curbing, 173.3 LF of perforated underdrain pipes, 105.7 LF of PVC drainage pipe, 2 drain inlets, and pavement striping to delineate parking spaces.. Responsibilities: Development of title sheet, general notes, existing and proposed site plans, grading and drainage plans, and details required for construction.</p>				
08/23-Ongoing	<p>H.015009 W. Metairie Avenue Over S. Suburban Canal Off System Bridge – Jefferson Parish, LA</p> <p>Role: Drafter/Designer for the DOTD Off-System Bridge (OSBR) replacement of an existing slab span bridge located in an urban area of Jefferson Parish.</p>				
08/23-Ongoing	<p>SBPG East Bank Sediment Transport Corridor – Hwy 15 Road Reconstruction and Canal Crossings – Plaquemines and St. Bernard Parishes, LA</p> <p>Role: Drafter/Designer for roadway horizontal alignment, canal crossing structures and sheetpile bulkhead systems, and design of roadway regrading and reconstruction to facilitate installation of a permanent pipeline casing adjacent to the Mississippi River Levee.</p>				
	<p>Various Clients, AutoCAD drafting and design services, Various locations in South Louisiana</p> <p>Role: AutoCAD Drafter/Designer. Contracted services: N/A; experience gained with previous employer. Responsibilities: Geotechnical plans and profiles, USACE permit maps; civil plans and profiles; civil sections; right-of-way maps; soil boring and CPT location maps; soil classification maps and wetland determination maps; potentiometric maps; land use maps; and cross sections.</p>				


Firm employed by: Royal Engineers and Consultants				
Name	William Fontenot, PE		Years of relevant experience with this employer	2
Title	Senior Engineer		Years of relevant experience with other employer(s)	8
Degree(s) / Years / Specialization		BS / 2012 / Civil Engineering		
Active registration number / state / expiration date		41036 / LA / 3-31-2024		
Year registered	2016	Discipline	Professional Engineer, Civil	
Contract role(s) / brief description of responsibilities		Quality Assurance/Quality Control		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
10 years of experience	Mr. Fontenot has more than nine years of experience in civil and structural engineering, construction consulting, and structural inspection and repair. He has performed on-site inspection of structural deficiencies of statewide projects and engineered safe, economic approaches to specific construction problems related to various heavy construction projects. Certifications: Traffic Control Supervisor, Traffic Control Technician, Certified Flagger			
11/22 - Ongoing	<p>SBPG East Bank Sediment Transport Corridor – Hwy 15 Road Reconstruction and Canal Crossings – Plaquemines and St. Bernard Parishes, LA</p> <p>Civil/Structural Engineer responsible for designing canal crossing structures and sheetpile bulkhead systems, overseeing structural design of box culverts and retaining walls, and performing design reviews for the design of roadway regrading and reconstruction to facilitate installation of a permanent pipeline casing adjacent to the Mississippi River Levee. The permanent pipeline casing is required as part of a proposed corridor through Plaquemines and St. Bernard Parishes that would deliver dredged sediment from point bars within the Mississippi River to marsh creation areas within the Breton Sound.</p>			
10/21 - 04/22	<p>Camellia - Settlers Trace Turning Lane – Lafayette, LA</p> <p>Civil/Structural Engineer providing engineering services during construction for Lafayette Consolidated Government. Project features include a dedicated right turn lane and second left turn lane at the intersection of Camellia Boulevard and Settlers Trace Boulevard. Services consist of preparing plans and specifications for construction of the project and performing engineering design and analyses for widening of the concrete roadway, evaluation of the existing drainage infrastructure, and identifying required modifications to the existing drainage system. Additional project features include road striping, sidewalk relocation, and street lighting. Mr. Fontenot served as structural subject matter expert, completing re-design of the catch basin to accommodate changing project needs.</p>			
06/12 - 07/16	<p>H.002550 MacArthur Drive Interchange Completion – Jefferson Parish, LA</p> <p>As an Engineer Intern, Mr. Fontenot assisted with plan and elevation revision, performed quality checks of plans from other firms, designed curtain wall details, and designed overhead sign support addition. Tasks performed included: modification of existing geometric design of baseline for on/off ramps; detailed sections of roadway for graphical grade plans; used current design standards to detail and design curtain wall details for final plans; detailed and designed overhead sign support addition and layout for various locations throughout final design; proposed options for frontage road modifications and layout of roadway beneath bridge structure. Codes used included: AASHTO Roadside Design Guide, AISC Steel Construction Manual, ACI 318-11 Building Code Requirements for Structural Concrete, LADTOD Bridge Design Manual.</p>			




06/12 - 07/17	<p>In-Depth Bridge Inspection of Complex Structures – St. Landry Parish, LA As an Engineering Intern, Mr. Fontenot performed in-depth inspection of the deck, superstructure, and substructure of the approach spans on the Krotz Springs Bridge over the Atchafalaya River. In this role, Mr. Fontenot also coordinated meetings between the inspectors; coordinated equipment rentals and staffed personnel; performed bridge inspections; and provided assessment report of bridges including potential repair plans. Codes used included: PONTIS Inspection Manual.</p>
06/12 - 07/17	<p>H.003182 Inner Harbor Canal Bridge Rehabilitation – Algiers, LA As an Engineering Intern, Mr. Fontenot designed traffic control and signage including detour plans and assisted in quantity checks and details for Final Plans Tasks performed included: used as-built plans and CAD software to layout and design traffic control options and detour paths for temporary lane closure during construction efforts; applied LADOTD Standards for Traffic Management and Signage; and refined and checked rehabilitation details and plans for final submittal. Codes used included: MUTCD, LADOTD Traffic Control Standard Plans, AISC Steel Construction Manual, and ACI 318-11 Building Code Requirements for Structural Concrete.</p>
06/12-07/18	<p>I-10 Lake Pontchartrain Bridge Deck Patching & Girder Painting – New Orleans, LA As an Engineering Intern, Mr. Fontenot performed field inspection of all bridges. Created Assessment Report. Designed traffic control and detour plans. Wrote TMP for final submittal. Prepared plans and details for repairs. Tasks performed included: planned for inspection and quantification of bridge deficiencies by preparing traffic control plans and reviewing previous inspection reports; used CAD software to develop detour plans and a TMP for the state's review; performed field inspection; compiled data from the field inspection to create an assessment report; and used as-built plans and current state standards to prepare and detail suggested repairs. Codes used included: MUTCD, LADOTD Traffic Control Standard Plans, AISC Steel Construction Manual, ACI 318-11 Building Code Requirements for Structural Concrete, AASHTO LRFD Bridge Design Specifications, and LADOTD Bridge Design Manual.</p>
10/16 - 08/17	<p>Yscloskey Vertical Lift Bridge Painting – St. Bernard Parish, LA As a Licensed Engineer, Mr. Fontenot assisted with design and details for a paint containment system, survey and geometric site layout of new operator house foundation, and phasing plans for different construction activities. Tasks Performed included: Site survey and layout using total station and automatic level, designed and detailed support system for paint containment, coordination of roadway and water-fairing traffic to optimize productivity during construction activities. Codes used included: AISC Steel Construction Manual, ACI 318-11 Building Code Requirements for Structural Concrete, DOTD Bridge Design Manual</p>
12/15 – 07/16	<p>Luling Bridge Deck Overlay and Repairs – St. Charles Parish, LA As an Engineer Intern, Mr. Fontenot revised original traffic control plans and diversion crossovers to expedite construction sequencing and feasibility. Updated drainage plan to match revised traffic control. Tasks Performed: geometric Design of Diversion Crossovers, hydraulic analysis of watershed area for new and existing drainage design, traffic control layout and phasing plans throughout the project, assisted construction efforts in the field using survey data and design plans, design of debris screen for sandblasting operations near adjacent traffic, quality control of final plans, quantification of cut/fill and roadway elements for cost estimates. Codes Used: AASHTO Roadside Design Guide, AISC Steel Construction Manual, ACI 318-11 Building Code Requirements for Structural Concrete, MUTCD, DOTD Traffic Control Standard Plans, AASHTO Guide Design Specifications for Bridge Temporary Works, DOTD Hydraulics Manual</p>


Firm employed by: Royal Engineers and Consultants				
Name	Beau Tate, PE		Years of relevant experience with this employer	14
Title	Senior Engineer		Years of relevant experience with other employer(s)	9
Degree(s) / Years / Specialization		BS /1998/ Civil Engineering		
Active registration number / state / expiration date		Professional Engineer, Civil: LA #30990 (Exp. 03/31/24)		
Year registered	2004	Discipline	Professional Engineer, Civil	
Contract role(s) / brief description of responsibilities		Quality Assurance/Quality Control		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
22 years of experience	Mr. Tate has 22 years of experience managing and delivering civil, coastal, and environmental projects for private and governmental organizations. His specific civil design project experience includes but is not limited to asphalt and concrete roadway design, materials testing, concrete repairs to existing parking lots and roadways, drainage design, utility infrastructure, and design per LADOTD and AASHTO design guidelines and specifications. Mr. Tate has successfully collaborated with various local, state and federal agencies such as, DOA/FP&C, OCD-DR, LADOTD, LDEQ, GOHSEP, FEMA, USACE, and USEPA.			
03/22 - 10/23	SLECA Road Repairs – Ashland Road and Detiveaux Road, Terrebonne Parish, LA Mr. Tate was the senior engineer responsible for QA QC constructability reviews of plans. Royal provided engineering design, permitting, and construction administration and management services for two roadways providing access to SLECA’s electrical distribution infrastructure in Houma, LA: Detiveaux Rd, a 1.5-mile long aggregate roadway providing access to the Bayou Dularge Main Feed, and Ashland Rd, a 2.3 mile long aggregate roadway providing access to the Ashland Substation.			
03/18-Ongoing	Indian Creek Low Water Crossing and Road Repairs, Fort Polk, LA Senior Engineer responsible overseeing design of gravel roadways and repairs and hydraulic analysis of low water crossing on the team providing engineering services for a Design-Build project for the U.S. Army Corps of Engineers (USACE) located near Fort Polk, LA. The project will restore and widen approximately 2.4 miles of the existing Sagebrush Road and to design and construct a 1.2 mile new roadway and low water crossing (LWC) structure to provide connectivity across Indian Creek. Project features to be designed and constructed include an aggregate roadway and road base, open ditch drainage, reinforced concrete culvert crossing, reinforced concrete low water crossing structure , object markers and signage, and gates.			
03/15-08/22	Gallo Drive at Arpent Canal Bridge, St. Bernard Parish, LA Mr. Tate was the engineer of record responsible for the design for this project, which consisted of engineering and construction administration services for replacing the Gallo Drive at 20 Arpent Canal Bridge in St. Bernard Parish. The Gallo Drive Bridge scope included a full replacement of the existing two – 60” concrete pipe culverts with a 26’-0” wide clear span, precast concrete structure.			
06/16-03/17	Détente Road Rehabilitation, City of Youngsville, LA Mr. Tate was the engineer of record responsible for design on this design, bidding, and construction management services project for the rehabilitation of Détente Road. Royal performed an alternatives analysis to compare three types of rehabilitation and assisted the City with the procurement process. Royal then managed the construction process through to completion.			

08/15-11/21	<p>Polly Lane Extension, Lafayette, LA Role: Project Manager and Lead Engineer. Contracted services: Design services for the extension and connection of both existing dead-end streets of Polly Lane, inclusive of roadway reconstruction and widening to its existing section to Verot School Road. The approximate length of the new roadway is 1,080 linear feet and the length of improvements to the existing roadway is 930 linear feet. Responsibilities: Design services and oversight.</p>
08/15-01/22	<p>IBERIA STREET SIDEWALK AND PEDESTRIAN BRIDGE DESIGN: Youngsville, LA. Senior Engineer responsible for design, bidding, and construction management services for installing a new sidewalk and pedestrian bridge to promote walking and bicycle traffic in the community along Iberia Street in Youngsville. A cost analysis was performed on 3 variations of sidewalk (concrete, asphalt, and environmentally green rubberized sidewalk). Design services included a drainage analysis of the area to incorporate subsurface drainage into the system and the selected rubberized sidewalk and a pedestrian bridge. Plans and specifications were prepared in accordance with DOTD standards.</p>
12/17-02/22	<p>CAMELLIA/ SETTLERS TRACE TURN LANE: Lafayette, LA. Senior Engineer on the team providing engineering services to the Lafayette Consolidated Government for designing a dedicated right turn lane and second left turn lane at the intersection of Camellia Boulevard and Settlers Trace Boulevard. Services consist of preparing plans and specifications for construction of the project and performing engineering design and analyses for widening of the concrete roadway, evaluation of the existing drainage infrastructure, and identifying required modifications to the existing drainage system. Additional project features include road striping, sidewalk relocation, and street lighting.</p>
12/15-11/21	<p>ST. BERNARD HMP CANAL CROSSINGS: St. Bernard Parish, LA. Design Engineer responsible for an evaluation of the hydraulic capacities of existing culvert structures located within the drainage canals of St. Bernard Parish, Louisiana. Mr. Tate assisted in performing hydraulic calculations for these structures based on the same open-channel flow principles used by software suites such as the EPA SWMM model and HEC-RAS. Mr. Tate also assisted with calculations for the appropriate sizing of replacement arched bridge structures at these locations and corresponding preliminary concept drawings.</p>

Firm employed by: Basin Engineering & Surveying					
Name	Wesley Reid Eustis, PE, PLS		Years of relevant experience with this employer	2	
Title	Principal		Years of relevant experience with other employer(s)	16	
Degree(s) / Years / Specialization			B.S. /2004/ Civil Engineering		
Active registration number / state / expiration date			PLS 5225 / LA / 03/31/2024 PE 35537 / LA / 09/30/2024		
Year registered	PLS – 2019 PE-2010	Discipline	Professional Land Surveying / Civil Engineering		
Contract role(s) / brief description of responsibilities			Survey Lead		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
18 + Years of Experience	Mr. Eustis has over 18 years of experience in the surveying industry. That experience includes physical field work, office production and CAD Drafting of surveys, post processing of survey data, and quality assurance and control of survey projects. These projects include topographical surveying of roadways, determination of right of ways, right of way takings, boundary calculations, title research, hydrographic surveys, and ALTA surveys.				
01/05-06/05	<p>Topographic Survey – Magazine Street (Leake Ave – Nashville Ave.) Mr. Eustis was a field crew member of the survey crew that performed a complete topographic survey of Magazine Street in Uptown New Orleans in 2005. The survey was performed in preparation for a full reconstruction of the roadway. Mr. Eustis collected topographic information using such equipment as automatic level and total station. The project involved collection of surface and subsurface data of the existing roadway surface, curb, median, sidewalk, visible and nonvisible utilities including collection of invert information on subsurface sewer and drainage infrastructure.</p>				
11/10 – 01/11	<p>St. Charles Ave. (Louisiana Ave. – Napoleon Ave.) Mr. Eustis was the survey party chief for the survey of St. Charles Ave. between Napoleon Ave. and Louisiana Ave. survey of existing roadway surface, curbing, median, streetcar tracks, etc. was performed in preparation of a resurfacing and restriping project.</p>				
06/17 – 12/17	<p>Survey of Plum Orchard/West Lake Forest Neighborhood - New Orleans, LA Mr. Eustis was the survey manager for the survey of the Plum Orchard and West Lake Forest Neighborhoods in New Orleans East. The project involved full topographic surveys of the existing roadway network within these neighborhoods in preparation for mill and overlay, patching, and full reconstruction projects. RTK GPS, Total Station, and Automatic levels were used to collect the necessary data. Mr. Eustis oversaw the project from start to finish including scheduling of field work, review of survey data collected daily, review of survey drafting and final production of survey.</p>				
03/19 – 06/19	<p>Survey of Bonnabel Blvd. between Metairie Rd. & I-10 – Jefferson Parish, LA Mr. Eustis was the surveyor of record for the topographic survey of Bonnabel Blvd. between Metairie Rd. and I-10 in Jefferson Parish. The survey included a full plan and profile of the existing roadway and subsurface utilities in preparation of drainage improvements for the stretch of the roadway.</p>				

07/23 – 09/23	<p>Jefferson Parish Waterline Project 2023-033-WRB Lakeside Shopping Center – N. Causeway Blvd. (Vets to 14th St.)</p> <p>Mr. Eustis was the Principal/Surveyor of Record for the topographic survey required as part of the Jefferson Parish Waterline Project 2023-033-WRB. The project included a complete topographic survey of the full right of way width of Causeway Blvd. between Veterans Blvd. and 14th St., 17th St. between Causeway Blvd. and Severn Ave., as well as a full topo survey of the Lakeside Mall Shopping Center surface parking lot. The survey is being performed in preparation of waterline replacement within the survey area. Plan and Profile drawings are being produced as part of this survey. Surveying included use of RTK GPS, Robotic Total Station, and differential leveling.</p>
---------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

Firm employed by: Basin Engineering & Surveying					
Name	Connor Glennon, PE		Years of relevant experience with this employer	2	
Title	Survey Manager		Years of relevant experience with other employer(s)	3	
Degree(s) / Years / Specialization			B.S./2018/ Civil Engineering		
Active registration number / state / expiration date			PE 46886 / LA / 09/30/2024		
Year registered	2022	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Survey Party Chief		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
5 + Years of Experience	Mr. Glennon has 5-plus years of experience in the surveying and engineering industry. That experience includes physical field work, office production and CAD Drafting of surveys, post-processing of survey data, and quality assurance and control of survey projects. Mr. Glennon’s vast range of experience in his first 5 years includes surveys of roadways, hydrographic surveys, boundary surveys, and ALTA Surveys.				
03/21-06/21	Celebration Drive Roadway Extension Mr. Glennon was the drafter for the topographic survey of Celebration Drive Roadway in City Park in Orleans Parish. The survey included a full plan view of the existing roadway and subsurface utilities in preparation of an extension of a stretch of roadway to the newly constructed City Park Maintenance facility.				
08/18-12/18	Survey of Causeway Blvd. between Airline Dr. and W. Napoleon Ave. Mr. Glennon was the drafter for the topographic survey of Causeway Blvd. between Metairie Rd. and I-10 in Jefferson Parish. The survey included a full plan and profile of existing roadway and subsurface utilities in preparation of drainage improvements for the stretch of roadway.				
07/20-9/20	Survey of Canal Street between I-10 and Lake Ave. Mr. Glennon was the drafter for the topographic survey of Canal St. between I-10 and Lake Ave. in Jefferson Parish. The survey included a full plan of existing roadway and subsurface utilities in preparation of a new bike path installation.				
03/19 – 06/19	Survey of Bonnabel Blvd. between Metairie Rd. & I-10 – Jefferson Parish, LA Mr. Glennon was the drafter for the topographic survey of Bonnabel Blvd. between Metairie Rd. and I-10 in Jefferson Parish. The survey included a full plan and profile of the existing roadway and subsurface utilities in preparation of drainage improvements for the stretch of roadway.				
07/23 – 09/23	Jefferson Parish Waterline Project 2023-033-WRB Lakeside Shopping Center – N. Causeway Blvd. (Vets to 14th St.) Mr. Glennon was the survey manager for the topographic survey required as part of the Jefferson Parish Waterline Project 2023-033-WRB. The project included a complete topographic survey of the full right of way width of Causeway Blvd. between Veterans Blvd. and 14th St., 17th St. between Causeway Blvd. and Severn Ave., as well as a full topo survey of the Lakeside Mall Shopping Center surface parking lot. The survey is being performed in preparation of waterline replacement within the survey area. Plan and Profile drawings are being produced as part of this survey. Surveying included use of RTK GPS, Robotic Total Station, and differential leveling.				

Firm employed by: Basin Engineering & Surveying					
Name	Mike Carter, PE		Years of relevant experience with this employer	1	
Title	Survey QA/QC		Years of relevant experience with other employer(s)	47	
Degree(s) / Years / Specialization			B.S./1975 Civil Engineering – BA /Architecture/ 1974		
Active registration number / state / expiration date			PE 18651 / LA / 03/31/2024		
Year registered	1980	Discipline	Civil Engineering		
Contract role(s) / brief description of responsibilities			Quality control and assurance of survey production		
Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; <i>i.e.</i> , “designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
47 Years of Experience	Mr. Carter is primarily a design engineer who focuses on private and public, civil, structural, and architectural projects. Mr. Carter has over 47 years of experience including municipal and commercial buildings, streets, roadways, highways, bridges, project coordination and management. He has been in responsible charge for a wide variety of projects.				
02/04-11/05	<p>Relocation of Avenue B_Marrero, LA.</p> <p>Mr. Carter was the design engineer to layout and design a new roadway in a new ROW to relocate an existing roadway to expand the West Jefferson Medical Center. The design involved creating a new Jefferson Parish ROW and designing a concrete roadway with all new relocated utilities, including drainage, sewerage, water, electrical and communication systems.</p>				
03/05 – 01/13	<p>Harvey Blvd Extension, (Peters Rd. to Manhattan Blvd), Jefferson Parish, LA.</p> <p>Mr. Carter was the project engineer who prepared the ROW drawings for a new roadway from Peters Road to Manhattan Blvd in Jefferson Parish. Mr. Carter was the design engineer for the new asphalt roadway with concrete curbing. He was also the design engineer for the 3-span prestressed concrete slab girder bridge over the Murphy Canal. Mr. Carter was in responsible charge for the drainage, sewer, water, and gas utilities designs.</p>				
03/05 – 11/23	<p>East Ames Ave Extension (Oregon to Blanche at Ames Ave.) Jefferson Parish, LA.</p> <p>Mr. Carter was the professional of record for the widening and extension of East Ames Ave to Ames Ave. The project entailed the acquisition of additional ROW to increase the ROW from 50 ft to 60 ft. The project also included acquiring a 60ft ROW to connect East Ames to Ames Ave. Mr. Carter was the design engineer for the new 3-lane concrete roadway, and all the utility design for drainage, water, sewer, and gas. Mr. Carter coordinated the relocation of electrical and communication utilities. The project required additional coordination with the Parish appointed attorney for the negotiation for property acquisition from 32 different owners.</p>				
03/09 – 06/16	<p>Terry Parkway Drainage and Street Improvements (Carol Sue to Lapalco Ave.)_Jefferson Parish, LA.</p> <p>Mr. Carter was the Professional of Record and Project Engineer for drainage improvements, decorative street lighting, and street repairs. Carter was the design engineer for the new box culvert in the median of Terry Parkway. Mr. Carter coordinated all the design for utility relocation and street repairs.</p>				
02/10 – 05/22	<p>Earhart Expressway Street Lighting, (Dickory Ave to Orleans Parish Line)_Jefferson Parish, LA.</p> <p>Mr. Carter was the Project Engineer for the street lighting for this project which was completed in 3 phases. He prepared the lighting layout in coordination with the electrical engineer’s photometric analysis. Mr. Carter developed the plan and profile of the light pole layout. Mr. Carter designed the foundation for the light poles that were ground-supported and the structural connection of the light poles to the overpasses. Mr. Carter also designed the foundation for the 100 ft high mast light poles at the Clearview/ Earhart intersection and at the Deckbar/Earhart intersection.</p>				

17. Firm Experience:

Firm name	Royal Engineers and Consultants, L.L.C.		Past Performance Evaluation Discipline(s)*	Road/Bridge/Survey
Project name	DOTD OSBR West Metairie Ave Bridge		Firm responsibility (prime or sub?)	Prime
Project number	100134 / 2022-44	Owner's name	DOTD/Jefferson Parish	
Project location	Jefferson Parish, LA		Owner's Project Manager	Barbara Ostuno, PE
Owner's address, phone, email	PO Box 94245, Baton Rouge, LA, 70804, (225) 379-1047 , Barbara.ostuno@la.gov			
Services commenced by this firm (mm/yy)	05/23	Total consultant contract cost (\$1,000's)		\$93.24
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)		\$77.24

Royal Engineers and Consultants, LLC is providing engineering and related services required to develop plans to replace an existing slab span bridge at West Metairie Avenue over the South Suburban Canal in Jefferson Parish, which is off the State Highway System.

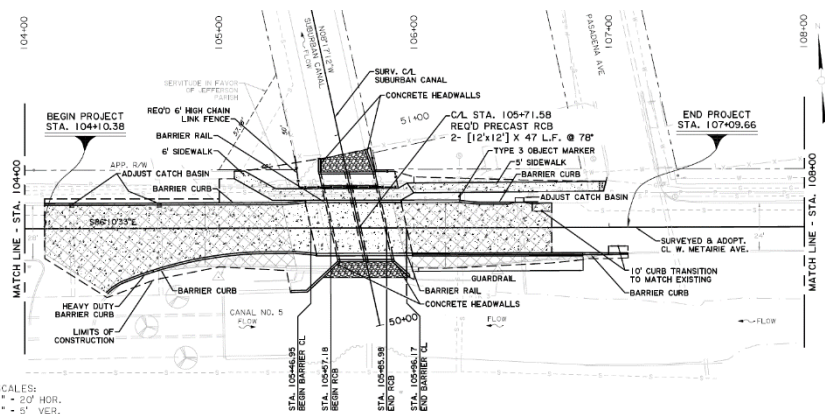
Royal is managing all aspects of design and client relations, overseeing plan production in accordance with the Off-System Highway Bridge Program Guidelines, leading the hydraulic analysis and design for all viable alternatives for the bridge replacement in accordance with the DOTD Hydraulics Manual, and coordinating survey efforts. Other services to be provided by Royal include, preliminary plan production, and environmental services including solicitation of views, categorical exclusion clearance, wetland studies, and other information needed for the Environmental Clearance process. Royal oversaw surveying services for the project, with survey deliverables provided in accordance with the OSBR Program Guidelines and the LADOTD Location and Survey Manual.



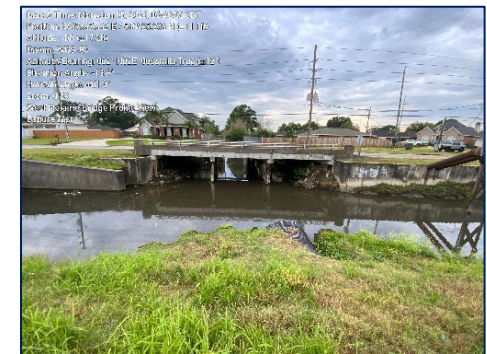
Existing Bridge

Royal has completed the survey phase of the project and are currently in the Preliminary Plans phase, working towards the Plan-in-Hand design deliverable.

Key Personnel: Katherine Foreman, PE (Design Lead, Project Manager); Carter O'Brien (Assistant Project Manager, Constructability Reviews); Cassidy Melancon (Civil Design), Laudun Landry, PE (Structural Design); William Fontenot, PE (QA/QC)



Sample of Pre-PIH Deliverable



Firm name	Royal Engineers and Consultants, LLC	Past Performance Evaluation Discipline(s)*	Road
Project name	SLECA Road Repairs – Ashland Road and Detiveaux Road		Firm responsibility (prime or sub?) Prime
Project number	2021-16-01	Owner's name	South Louisiana Electric Cooperative Association (SLECA)
Project location	Terrebonne Parish	Owner's Project Manager	Brett Ledet
Owner's address, phone, email	2028 Coteau Road, Houma, LA, (985) 876-6880, bledet@sleca.com		
Services commenced by this firm (mm/yy)	03/22	Total consultant contract cost (\$1,000's)	\$105.10
Services completed by this firm (mm/yy)	10/23	Cost of consultant services provided by this firm (\$1,000's)	\$92.70

Royal is contracted by South Louisiana Electric Cooperative Association (SLECA) to provide Hurricane Emergency Disaster Recovery Project Management and Administrative Support Services for FEMA/ GOHSEP Grant Activities associated with Hurricane Ida. Royal provides ongoing management of recovery activities, including the project management and grants management for repairs to SLECA's infrastructure.

As part of these efforts, Royal provided engineering design, permitting, and construction administration/management services for two roadways providing access to SLECA's electrical distribution infrastructure in Houma, LA: Detiveaux Rd, a **1.5 mile aggregate roadway** providing access to the Bayou Dularge Main Feed, and Ashland Rd, a **2.3 mile aggregate roadway** providing access to the Ashland Substation. During disaster recovery efforts, heavy machinery was brought up and down the roads to restore power causing significant rutting and damage to the roadways which were already saturated from rains during Hurricane Ida. Royal prepared design plans and specifications to restore the roads to a servicable condition. As part of the design process, Royal subcontracted geotechnical investigations to obtain soil borings and provide recommendations for aggregate pavement repair sections and new aggregate roadway pavement sections for each site. Royal also acquired topographic survey data to support design and permitting efforts through the use of a Topcon HiPer V RTK receiver paired with a Carlson data collector.

Royal provided permitting services for both sites including acquiring a determination of No Permit Required from the U.S. Army Corps of Engineers (USACE) and obtaining Coastal Use Permit authorization from the Office of Coastal Management (OCM). At the request of OCM, Royal prepared a Level 2 Hydrologic Modification Impact Analysis (HMIA) for both sites to evaluate the impact of the projects on local and regional hydrology and water quality.

Reconstruction of Detiveaux Road was completed in April 2023 and Ashland Road was completed in October 2023.

Key Personnel: Katherine Foreman, Beau Tate, Cassidy Melancon

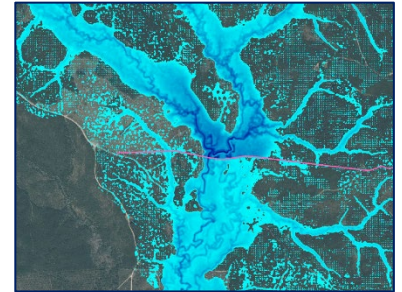


Ashland Rd, 2.3 mile aggregate roadway.



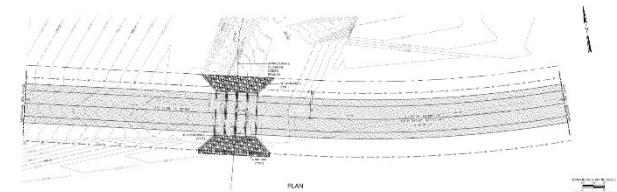
Firm name	Royal Engineers and Consultants, L.L.C.	Past Performance Evaluation Discipline(s)*	Road
Project name	Indian Creek Low Water Crossing and Road Repairs		Firm responsibility (prime or sub?) Sub
Project number	N/A	Owner's name	DCMS, Inc./ U.S. Army Corps of Engineers
Project location	Fort Polk, LA	Owner's Project Manager	Wayne Procell
Owner's address, phone, email	4101 Viking Dr. Suite O. Bossier City, LA 71111/601.831.3131/wayne.procell@dcmmsgov.com		
Services commenced by this firm (mm/yy)	03/18	Total consultant contract cost (\$1,000's)	\$299
Services completed by this firm (mm/yy)	Ongoing	Cost of consultant services provided by this firm (\$1,000's)	\$263

DCMS, Inc. contracted Royal Engineers and Consultants, LLC ("Royal") to provide professional engineering design services for a Design-Build project for the U.S. Army Corps of Engineers (USACE) located near Fort Polk, LA. The project will restore and widen approximately 2.4 miles of the existing Sagebrush Road and to design and construct a 1.2 mile new roadway and low water crossing (LWC) structure to provide connectivity across Indian Creek. Project features to be designed and constructed include **an aggregate roadway and road base, open ditch drainage, reinforced concrete culvert crossing, reinforced concrete low water crossing structure**, object markers and signage, and gates. Royal's scope of work includes the preparation of 35%, 95%, and 100% Design documents inclusive of drawings, specifications, design reports, and Storm Water Pollution Prevention Plan (SWPPP), as well as engineering support during construction. To date, Royal has submitted 35% Design Plans and Draft Specifications Table of Contents. Royal subcontracted topographic surveying services and geotechnical investigations to support design efforts.



LWC Model Results Snip

Royal developed a 2-D HEC-RAS model to analyze the Indian Creek floodplain and design the LWC structure in accordance with the design criteria. The LWC was required to be designed as either (1) a raised roadway with vents, or (2) a vented low-water crossing. For a raised roadway with vents, the structure will be sized to carry a 100-year rain event at a minimum. For a vented low water crossing, the structure shall be sized to provide a dry crossing for a 25-year rain event and allow no more than 1 and 2 ft of water depth for the 50-year and 100-year rain events, respectively. Further, the contract states that the required length of vented low water crossing is estimated to be 400 ft.



LWC Plan Snip

Upon completion of preliminary HEC-RAS modeling, Royal found that the modeled floodplain width far exceeded the estimated 400 LF of crossing estimated by the contract. The modeled proposed scenarios demonstrated that either an LWC structure up to 1500 linear feet in length or an excessive volume of embankment to build up the road within the floodplain, causing the road to act as a dam, would be required to meet the prescribed design criteria. Each design presented budgetary, environmental, and maintenance concerns.

Following this discovery, Royal was tasked with providing additional documentation to the USACE to demonstrate the impacts of the design in accordance with current design criteria, evaluate alternative solutions, and demonstrate that the project could not be constructed to the required design criteria within the current contract amount. Royal achieved this by performing additional HEC-RAS modeling, preparing supplemental reports, and preparing conceptual drawings using AutoCAD Civil3D. Royal and the Design-Build team's efforts have resulted in a request for proposal for contract modification from the USACE, which, if the proposal is approved and executed, will modify the design criteria and increase the contract value to allow for successful completion of the project. Coordination with the USACE regarding the contract modification is ongoing, and resolution is pending.

Key Personnel: Katherine Foreman, Beau Tate

Firm name	Royal Engineers and Consultants, L.L.C.		Past Performance Evaluation Discipline(s)*	Bridge
Project name	Gallo Drive at Arpent Canal Bridge		Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner's name	St. Bernard Parish Government	
Project location	St. Bernard Parish, LA		Owner's Project Manager	Donald R. Bourgeois, Jr.
Owner's address, phone, email	51125 East St. Bernard Highway, Chalmette, LA 70043 504.278.4313, dbourgeois@sbsp.org			
Services commenced by this firm (mm/yy)	03/15	Total consultant contract cost (\$1,000's)		\$550 (programmatic)
Services completed by this firm (mm/yy)	08/22	Cost of consultant services provided by this firm (\$1,000's)		\$540 (programmatic)

The project consisted of engineering and construction administration services for the replacement of Gallo Drive at 20 Arpent Canal Bridge (Gallo Drive Bridge) in St. Bernard Parish (SBP), as part of the Parish's investment in bringing their roadways, bridges, culverts or other canal crossing structures and all associated infrastructure to meet current codes and standards and providing Hazard Mitigation measures for structures prone to repeated damages caused by high velocity flood waters, sediment and debris delivered by storm surges during hurricanes.

The Gallo Drive Bridge scope included a full replacement of the existing two – 60" concrete pipe culverts with a 26'-0" wide clear span, precast concrete structure. Royal performed an analysis of existing conditions and identified significant damages to the pipe ends as well as pipe breakage. These damages exacerbated existing subsidence, pipe separation, loss of hydraulic capacity and roadway failure. Due to the extent of the damages documented by the Royal team, the project was deemed eligible for replacement by FEMA. Royal also conducted a cost analysis that justified a Hazard Mitigation solution (ConSpan Hazard Mitigation) to replace the existing crossing with a lower-cost, resilient system that exceeded the existing hydraulic capacity of the canal. The ConSpan Hazard Mitigation alternative for the Gallo Drive Bridge replacement was determined as eligible, resulting in a FEMA-obligated scope and cost.



Engineering Services included civil engineering, design, surveying, geotechnical, field layout, bidding, construction administration, resident inspection, technical/engineering project close-out, construction management (CM) services. Royal produced the construction contract documents and bid package. Engineering deliverables included detailed design plans, comprehensive cost estimate, and CPM schedule to execute its engineering design services and construction management services.

Royal performed a full hydraulic analysis of the existing canal and clear span concrete arch that was constructed. Elements of work included demolition and removal of the existing canal crossing, replacing the existing canal crossing with a precast concrete clear span con-span, driven timber piles, structural concrete grade beams, storm drainage, sanitary sewer replacement, waterline replacement, canal cleaning/shaping, riprap with flowable fill, roadway replacement, ADA ramps, sidewalks and incidental PCC pavement. Royal designed the interior height of the crossing to provide the cross-sectional area required for the drainage and engineered the roadway grades to raise the roadway while simultaneously not exceeding the maximum longitudinal slope required by LADOTD. Royal also designed vertical curves into the changes in the roadway profile to provide a seamless transition from the new to pre-existing roadway grade.

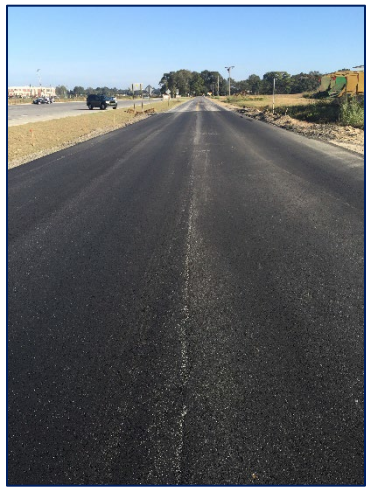
Bid and construction phase services included assistance with bid advertisement, conducting pre-bid meeting and bid opening, populating bid tabulation, making award recommendation, preparing the owner/contractor draft agreement, assuring SBP that the contractor produced and submitted all necessary insurance certificate, bond, and the schedule of values as per contract award. Royal's engineering and CM responsibilities during the Construction Phase consisted of all planning and coordination with the contractor, starting with a Preconstruction Meeting with all project-associated personnel, through project close-out and all activities in between.

Key Personnel: Michael Pugh, Principal, William Fontenot, PE, PM, Carter O'Brien, PE Civil Engineering, Katherine Foreman, PE, Hydraulic Engineering Ryan Hebert, PE, Hydraulic Engineering

Firm name	Royal Engineers and Consultants, L.L.C.		Past Performance Evaluation Discipline(s)*	Road
Project name	Détente Road Rehabilitation		Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner's name	Youngsville, LA	
Project location	Youngsville, LA		Owner's Project Manager	Sally Angers
Owner's address, phone, email	201 Iberia Street, Youngsville, LA, (337) 856-4181, clintsimoneaux@youngsvillela.gov			
Services commenced by this firm (mm/yy)	06/15	Total consultant contract cost (\$1,000's)		\$60.36
Services completed by this firm (mm/yy)	03/17	Cost of consultant services provided by this firm (\$1,000's)		\$60.36

Royal was contracted through the City of Youngsville to perform design, bidding and construction management services for the rehabilitation of Détente Road located in Youngsville, Louisiana. An assessment of the roadway was performed to identify the existing conditions and damaged areas requiring reconstruction. During the initial assessment, Royal performed an alternatives analysis to compare three types of rehabilitation: 1) mill & overlay with pavement patching, 2) mill & overlay with a pavement interlayer reinforcement layer, and 3) a complete roadway rebuilding including base replacement. After evaluation, the project will consist of mill & overlay of asphaltic pavement including asphaltic pavement patching. Royal has performed preliminary and final design and the project has been publicly bid and awarded.

Royal held the pre-bid conference for potential bidders to discuss the projects specifics and answered all any contractor's questions. Requests for Information were received, reviewed, answered, and dispersed to all potential bidders. Once bids were received, Royal evaluated all bids and presented the City an award recommendation.



Royal's responsibilities during the Preconstruction phase consisted of planning and coordination with the general contractor, starting with a Preconstruction meeting with all project-associated personnel. This was followed by a technical review of all proposed construction material submittals by the GC to verify as sufficient according to the plans and specs.

Royal performed construction management services which consisted of verifying that all work is performed in accordance with the plans and specifications, review of the construction schedule with the general contractor and City

to minimize any inconvenience to the affected residents, coordination with the contractor and testing agencies, general administration of construction contract, review of contractor pay applications, substantial completion walkthroughs with associated punch list, recommendation of final acceptance to the Owner, and construction as-built drawings.

Key Personnel: Beau Tate, PE (Engineer of Record); Katherine Foreman, PE (Design Support)

CITY OF YOUNGVILLE
DETENTE ROAD REHABILITATION
STATE HIGHWAY 734
LAFAYETTE PARISH

MAYOR
 GEN RITTER

CITY COUNCIL
 DIVISION A - JAMISON ABBSHIRE
 DIVISION B - LAUREN MICHELL
 DIVISION C - MATI RUMBLE
 DIVISION D - KENNETH STANBURY
 DIVISION E - DIANNE MCCLELLAND

REVISIONS

NO.	DATE	DESCRIPTION
0001	06/15/15	ISSUED FOR BIDDING
0002	06/15/15	ISSUED FOR BIDDING
0003	06/15/15	ISSUED FOR BIDDING
0004	06/15/15	ISSUED FOR BIDDING
0005	06/15/15	ISSUED FOR BIDDING
0006	06/15/15	ISSUED FOR BIDDING
0007	06/15/15	ISSUED FOR BIDDING
0008	06/15/15	ISSUED FOR BIDDING
0009	06/15/15	ISSUED FOR BIDDING
0010	06/15/15	ISSUED FOR BIDDING
0011	06/15/15	ISSUED FOR BIDDING
0012	06/15/15	ISSUED FOR BIDDING
0013	06/15/15	ISSUED FOR BIDDING
0014	06/15/15	ISSUED FOR BIDDING
0015	06/15/15	ISSUED FOR BIDDING
0016	06/15/15	ISSUED FOR BIDDING
0017	06/15/15	ISSUED FOR BIDDING
0018	06/15/15	ISSUED FOR BIDDING
0019	06/15/15	ISSUED FOR BIDDING
0020	06/15/15	ISSUED FOR BIDDING
0021	06/15/15	ISSUED FOR BIDDING
0022	06/15/15	ISSUED FOR BIDDING
0023	06/15/15	ISSUED FOR BIDDING
0024	06/15/15	ISSUED FOR BIDDING
0025	06/15/15	ISSUED FOR BIDDING
0026	06/15/15	ISSUED FOR BIDDING
0027	06/15/15	ISSUED FOR BIDDING
0028	06/15/15	ISSUED FOR BIDDING
0029	06/15/15	ISSUED FOR BIDDING
0030	06/15/15	ISSUED FOR BIDDING
0031	06/15/15	ISSUED FOR BIDDING
0032	06/15/15	ISSUED FOR BIDDING
0033	06/15/15	ISSUED FOR BIDDING
0034	06/15/15	ISSUED FOR BIDDING
0035	06/15/15	ISSUED FOR BIDDING
0036	06/15/15	ISSUED FOR BIDDING
0037	06/15/15	ISSUED FOR BIDDING
0038	06/15/15	ISSUED FOR BIDDING
0039	06/15/15	ISSUED FOR BIDDING
0040	06/15/15	ISSUED FOR BIDDING
0041	06/15/15	ISSUED FOR BIDDING
0042	06/15/15	ISSUED FOR BIDDING
0043	06/15/15	ISSUED FOR BIDDING
0044	06/15/15	ISSUED FOR BIDDING
0045	06/15/15	ISSUED FOR BIDDING
0046	06/15/15	ISSUED FOR BIDDING
0047	06/15/15	ISSUED FOR BIDDING
0048	06/15/15	ISSUED FOR BIDDING
0049	06/15/15	ISSUED FOR BIDDING
0050	06/15/15	ISSUED FOR BIDDING

DATE OF ISSUE
 06/15/15

CITY OF YOUNGVILLE
 DETENTE ROAD REHABILITATION
 STATE HIGHWAY 734
 LAFAYETTE PARISH

CITY ENGINEER
 BEAU TATE

CITY OF YOUNGVILLE
 DETENTE ROAD REHABILITATION
 STATE HIGHWAY 734
 LAFAYETTE PARISH

CITY ENGINEER
 BEAU TATE



Firm name	Basin Engineering & Surveying		Past Performance Evaluation Discipline(s)*	Survey
Project name	Jefferson Parish Waterline Project 2023-029-WRB		Firm responsibility (prime or sub?)	Sub
Project number	N/A	Owner's name	Jefferson Parish Water Department	
Project location	31st St. between Phoenix St. and Duncan St., Kenner, LA		Owner's Project Manager	Sidney J. Bazley, III, Director
Owner's address, phone, email	1221 Elmwood Park Blvd #103, New Orleans, LA 70123/ (504) 736-6744/JPWater@JeffParish.net			
Services commenced by this firm (mm/yy)	05/23	Total consultant contract cost (\$1,000's)	\$3,000	
Services completed by this firm (mm/yy)	07/23	Cost of consultant services provided by this firm (\$1,000's)	\$53	

Basin was selected as the surveying firm for the topographic survey required as part of the Jefferson Parish Waterline Project 2023-029-WRB. Basin is performing a complete topographic survey of the full right of way width of 31st Street between Phoenix St. and Duncan St. in Kenner, LA in preparation of waterline replacement along the roadway. Plan and Profile drawings were produced as part of this survey. Surveying included use of RTK GPS, Robotic Total Station, and differential leveling.

Firm name	Basin Engineering & Surveying		Past Performance Evaluation Discipline(s)*	Survey
Project name	Jefferson Parish Waterline Project 2023-015-WRB		Firm responsibility (prime or sub?)	Sub
Project number	N/A	Owner's name	Jefferson Parish Water Department	
Project location	26th Street 27th, & 28th Streets, Jefferson Parish		Owner's Project Manager	Sidney J. Bazley, III, Director
Owner's address, phone, email	1221 Elmwood Park Blvd #103, New Orleans, LA 70123/ (504) 736-6744/JPWater@JeffParish.net			
Services commenced by this firm (mm/yy)	05/23	Total consultant contract cost (\$1,000's)	\$6,000	
Services completed by this firm (mm/yy)	09/23	Cost of consultant services provided by this firm (\$1,000's)	\$115	

Basin was selected as the surveying firm for the topographic survey required as part of the Jefferson Parish Waterline Project 2023-015-WRB. Basin is performing a complete topographic survey of the full right of way width of portions of 26th Street, 27th Street, Ridgelake Dr., Veterans Memorial Blvd., and Metairie Lawn Dr. in preparation of waterline replacement within the survey area. Plan and Profile drawings are being produced as part of this survey. Surveying included use of RTK GPS, Robotic Total Station, and differential leveling.

Firm name	Basin Engineering & Surveying		Past Performance Evaluation Discipline(s)*	Survey
Project name	Topographic Survey for design, Industrial East Warehouse Expansion		Firm responsibility (prime or sub?)	Prime
Project number	N/A	Owner's name	Lake Charles Harbor & Terminal District	
Project location	Port of Lake Charles		Owner's Project Manager	Nick Pestillo, PE
Owner's address, phone, email	1611 West Sallier Street Lake Charles, LA 70601/337.493.3627/npestillo@portlc.com			
Services commenced by this firm (mm/yy)	10/21	Total consultant contract cost (\$1,000's)	\$1,000	
Services completed by this firm (mm/yy)	01/22	Cost of consultant services provided by this firm (\$1,000's)	\$1,000	

Basin performed a topographic survey for the Port of Lake Charles Harbor & Terminal District of the Industrial East Warehouse and Vicinity. The survey was done in preparation of warehouse expansion. Existing rail spurs, pavement, existing warehouse, and existing visible and non-visible utilities were located in preparation of the expansion. RTK GPS, in combination with total station equipment, was used to perform this survey.

18. Approach and Methodology

Project Understanding

The purpose of this project is to raise and improve approximately 1.2 mi of the aggregate road surface on Lake Rd. south of Lake Rd. Bridge #2 in St. Tammany Parish, Louisiana. The project will include road surface aggregate, road base, earthwork, guardrail, riprap, and other incidental items necessary to improve the road surface. This project will raise and resurface the existing aggregate road and improve two bridges on the road. Royal understands that the road has sustained damages due to repetitive submergence by elevated tides on Lake Pontchartrain and that erosion from past storms has caused damage to the embankments leading up to the two bridges.

Teaming Approach

Our team comprises a diverse group of professionals with extensive experience delivering roadway and other project types for the LADOTD and throughout St. Tammany Parish. Royal Engineers and Consultants, L.L.C. will lead the team as project manager, designer, and responsible party for QA/QC of all deliverables. Basin Engineering & Surveying will provide topographic surveying services.

Project Kick-off

Upon Notice of Award (NOA), Royal will be ready to mobilize and initiate design services. We will start by submitting our QA/QC Plan within 10 days of NOA and proceeding to prepare an initial project schedule. We will coordinate with the DOTD Project Manager to schedule an in-person design kickoff meeting, which will include a site visit with DOTD, to clarify the project limits and to identify any potential design concerns. Topics of conversation at the kickoff meeting may include:

- Clarifying project scope and extents with the Entity, including:
 - Extents of repairs to both bridges
 - Determination of target roadway elevation above tide levels
 - Identifying particular areas of concern where extra attention to design of repairs may be necessary
- Request existing project information such as design or as-built drawings.
- Identify potential project issues including:
 - Final Design delay due to awaiting permit approval such as Coastal Use Permit authorization

Before proceeding with design development, Royal will prepare a Project Design Criteria Report to serve as the basis for design and deliverables.

Preliminary Design

Immediately following the design kickoff meeting, Royal will engage Basin to perform the topographic survey. The survey will be performed in accordance with the current edition of the DOTD Location and Survey Manual using the Louisiana State Plane Coordinate System. The survey extents will extend approximately 10 ft beyond the apparent R/W of Lake Rd., unless determined otherwise at the design kickoff meeting. In accordance with the project solicitation, the topographic survey will include the establishment of referenced iron rods as necessary, the location and establishment of ownership of utilities, and coordination with the DOTD Location and Survey Administrator as required. The topographic survey will capture standard topographic features as well as locations and elevations of all pertinent features within the project extents, such as: apparent existing R/ W, the existing bridges and appurtenances, edges of

existing road and shoulders, extents of existing riprap, drainage inlets, top of casting/covers for utilities, ditches/swales, driveways, fences, trees, landscaping, mailboxes, street signs, buildings in close proximity to the road, and other permanent structures.

The topographic survey will be used to produce the 30% Preliminary Plans, which will include a title sheet, proposed typical section, and plan/profile sheets showing the topographical survey of existing conditions.

Design development will continue while the 30% plans are in review by DOTD. Royal will coordinate with DOTD and the Parish to obtain as-builts and/or design plans for existing drainage infrastructure and H&H design information, if available. We will design the roadway and bridge repairs to maintain current drainage patterns and will determine if there are any locations where special details will be needed to maintain drainage, and design accordingly.

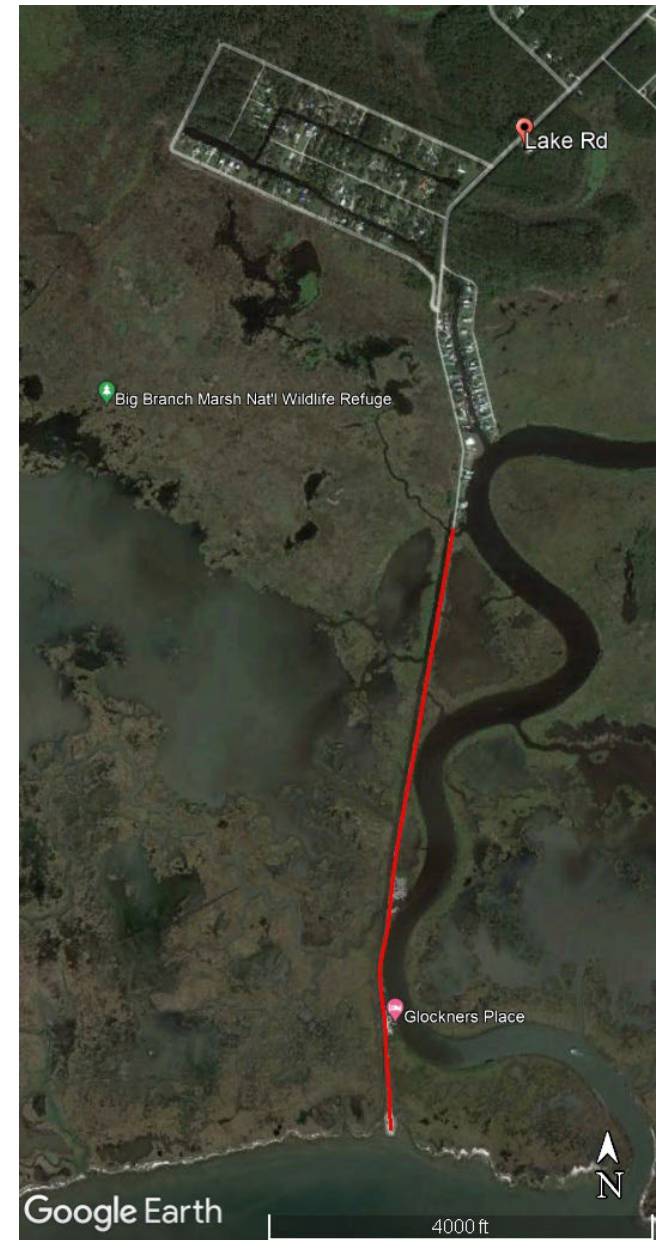
All drainage analysis and design, if applicable, will be in accordance with the 2011 LA DOTD Hydraulics Manual. Rip-rap revetment, where necessary, will be sized accordingly to stand up to the erosive processes suffered by the project site. The proposed minimum roadway elevation will be determined through analysis of tide events in the project area and through coordination with St. Tammany Parish. The roadway and bridge repairs will be designed in accordance with DOTD's Roadway Design Procedures and Details Manual and the Minimum Design Guidelines, Road Design Manual, the Pavement Preservation Manual, and the criteria prescribed by 23 CFR 625, Design Standards for Highways, as applicable.

The 60% Preliminary plan set will build upon the 30% plans with the addition of horizontal and vertical alignment of the roadway, geometric details, pavement cross sections, and drainage plan/profile sheets if deemed necessary. At this stage, utility relocation recommendations will be developed, and a Preliminary Design Report will also be submitted.

The 90% Preliminary plans will incorporate any comments from the previous design stage and additionally include summary sheets with tables and suggested sequence of construction. A draft of the Final Design Report will be submitted along with the Preliminary Cost Estimate and QA/QC Checklist. Royal will address comments from the 90% Preliminary review and submit/distribute 95% Preliminary plans prior to the Plan-In-Hand (PIH) meeting.

If necessary, 100% Preliminary plans and the finalized Final Design Report will be submitted to address comments from the PIH meeting.

All required Preliminary Design deliverables will be in accordance with the LADOTD Project Delivery Manual, Electronic Deliverables requirements, and the LADOTD CAD Standards.



Approximate project extents.

Final Design

Upon receiving environmental clearance and notice to proceed for Final Plans, Royal will prepare and submit 60% Final Plans. A Revised Design Report will also be provided if one or more design criteria are changed from the Final Design Report.

The 95% Advanced Check Prints (ACP) will then be produced, incorporating all comments from the previous review. At this stage, the design will consist of a complete plan set with sufficient detail for construction. The ACP drawings will be accompanied by a completed QA/QC checklist, Special Provisions, and a Revised Design Report, if applicable.

The 98% Final Plans will incorporate comments from the previous review, complete with a copy of all design computations used in developing the pay quantities and the drainage design data for culverts and storm sewers, as applicable, Constructability Review Form, final QA/QC checklist, and Contract Time Worksheet, PRR Form, and SWPPP. The 98% Final Plans will be reviewed to confirm all comments have been incorporated and to ensure quality before production of final, stamped plans.

The 100% Final Plans will consist of the final, signed and stamped design drawings, ready to be used for letting and construction.

All required Final Design documents will be delivered in accordance with the schedule set forth by the DOTD Project Manager and will be in accordance with the LADOTD Project Delivery Manual, Electronic Deliverables Requirements, LADOTD CAD Standards, and all other size, formatting, and quality standards adopted by DOTD.

Construction Support

Once the project proceeds to construction, Royal will remain ready to provide as-needed engineering support throughout the duration of construction. We understand this will include reviewing and addressing all RFIs concerning plan and specification clarifications, providing construction on-call support, assisting DOTD with meetings upon request, and delivering requested minor design changes and corrections. Royal routinely provides engineering support during construction for our design projects, and additionally frequently provides additional services such as resident inspection and complete construction management services. As such, we are equipped to provide the required support and respond to all requests in a timely manner.

Team Performance History

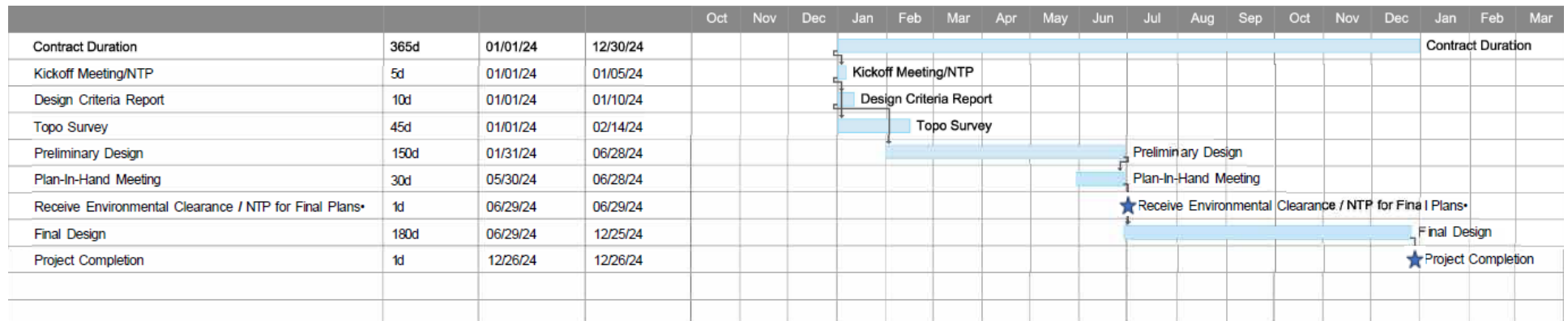
Royal has excellent relationships and experience working with all team members. Royal and Basin team members have successfully completed numerous projects of similar scope. Royal has recently utilized Basin's innovative surveying techniques in similar remote locations that allow for an expedited turnaround of surveying data. Basin has experience performing topographic surveys in the City of New Orleans, and Jefferson and St. Tammany Parishes.

In addition to Royal's roadway design experience demonstrated by our staff resumes and key project description, Royal and its seasoned staff have 24+ years of experience providing coastal engineering expertise to agencies such as CPRA, NRCS, St. Bernard Parish, and numerous other Parishes and private clients. These projects include design, permitting, and construction management of shoreline stabilization and protection, marsh restoration, water control structures, rock dikes, bulkheads, and levee repair projects throughout the Gulf Coast region. Many of these projects involved detailed definition of wave and tidal coastal

processes and modeling of wave and sediment transport. As such, Royal is familiar with the coastal processes responsible for the erosion and storm-related damage at this project site and can apply this experience to design resilient repairs that can stand up to continued interaction with these physical processes.

Capacity to Deliver

The normal workload for Royal is 30-50 concurrent, ongoing projects, each with project resource capacities easily being met. The project execution team presented herein is poised to begin work and is supported by a combined staff of over 40+ people. As such, we offer our assurance that we can and will provide the professional services required by the project advertisement immediately upon request. We have the capacity to scale and mobilize sufficient resources. As a small business delivering large-scale work, our resourcing strategy includes weekly measurement (and as needed, adjustment) of project commitments, available resources, and the resulting project task assignments. All project delivery plans target ahead-of-schedule milestones to accommodate resource adaptability needs. **A schedule summarizing Royal’s plan** to complete the project ahead of the 365-day estimated project duration is provided below.



The depicted schedule is typical; the exact timeline will be determined upon award.

19. Workload:

For all contracts where a firm on the team is a prime consultant or sub-consultant and where **a)** the consultant selection was made by DOTD, and **b)** a contract was executed by the consultant and the contracting entity by the date the advertisement for this proposal was posted, list all work meeting the following criteria:

- 1) one of the team's firms is responsible for the performance of the work;
- 2) authorization to perform the work has been provided, as provided in the contract between the consultant and the contracting entity;
- 3) the work has not yet been performed and invoiced; and
- 4) the work is not currently suspended for an indefinite period of time.

For indefinite delivery/indefinite quantity (IDIQ) contracts, list open Task Orders individually.

List only the portion of the fees attributable to firms on the team.

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**
Royal Engineers and Consultants, L.L.C.	Road, Bridge	4400024593/ H.015009.5	DOTD OSBR West Metairie Ave Bridge	\$27,302.00
Royal Engineers and Consultants, L.L.C.	CE&I/OV	4400024438/ H.010673	Harvey Tunnel Rehabilitation	\$684,681.56
Royal Engineers and Consultants, L.L.C.	CE&I/OV	4400027010/ H.015018.5	Entity Contract for Lafayette Parish Non-State PVMT Markings	\$127,195.00
Basin LLC	N/A	N/A	N/A	N/A

(Add rows as needed)

DO NOT SUM

* 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). If a firm has more than one past performance evaluation discipline for any single project, the firm can use multiple rows to express the remaining unpaid balance per evaluation discipline.

** Round to the nearest dollar. **Do not** round to the nearest thousands. If there are no active contracts with a remaining unpaid balance, place N/A in the Remaining Unpaid Balance column. NOTE: ALL FIRMS MUST BE REPRESENTED IN THIS TABLE. LEAVING THE "REMAINING UNPAID BALANCE" COLUMN BLANK IS NOT ACCEPTABLE.

20. Certifications/Licenses:

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

Michael Pugh, PE, Principal, MPR 1-3

Katherine Foreman, PE, Project Manager Robert Klare, Asst. Project Mgr.



LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Michael Leon Pugh Jr.

License/Certificate Type - Number	Expiration Date
PE.0030911	03/31/2024
Status: Active	



LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Ms. Katherine Ann Foreman

License/Certificate Type - Number	Expiration Date
PE.0046031	03/31/2024
Status: Active	



LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Robert Wesley Klare

License/Certificate Type - Number	Expiration Date
PE.0042991	03/31/2025
Status: Active	



PROOF OF TRAINING
THIS CERTIFICATE HEREBY RECOGNIZES THAT

Katherine Foreman
has attended
Traffic Control Technician-LA State Specific
Training Course


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

Baton Rouge, LA
Location

Raymond B. Smith
Director of Training

Alan T. Johnson
President, CEO

ATSSA provides training and certification for traffic control personnel employed by ATSSA.

PROOF OF TRAINING
THIS CERTIFICATE HEREBY RECOGNIZES THAT

Katherine Foreman
has attended
Traffic Control Supervisor-LA State Specific
Training Course


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

Baton Rouge, LA
Location

Raymond B. Smith
Director of Training

Alan T. Johnson
President, CEO

ATSSA provides training and certification for traffic control personnel employed by ATSSA.



Carter O'Brien, PE

LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
 9643 Brookline Avenue, Suite 121
 Baton Rouge, LA 70809
 Phone (225) 925-6291
 www.lapels.com

Mr. Alec Carter O'Brien

License/Certificate Type - Number	Expiration Date
PE.0043647	03/31/2024
Status: Active	

Certificate of Training
 this certifies that
Alec O'Brien
 has successfully completed the training program requirements for
ATSSA Online Flagger Certification Training Course
 Awarded on this 27th day of January 2021

Thomas L. Ervin
 Traffic Doc, LLC
 269 Evangeline Drive
 Mandeville, LA 70471-1894
 Phone 985-378-0534

Dec. 3, 2021

To Whom It May Concern,

This is to verify that the below listed employees Royal Engineers & Consultants have successfully completed ATSSA traffic control training courses in New Orleans, LA as described below.


LA Specific Traffic Control Technician (TCT) 11-30-21 - Matthew Fabery, Ryan Scheidhaus, & David Schroeder

LA Specific Traffic Control Supervisor (TCS) - 12-2-21 - Matthew Fabery, Ryan Scheidhaus & David Schroeder

LA Specific Traffic Control Supervisor Refresher (TCS Refresher) 12-3-21 - Christopher Barthelemy & Alec O'Brien

This letter will serve as temporary proof of successful course completion until the above listed employees receive their official certificates from the American Traffic Safety Services Association (ATSSA).

Should there be any questions regarding the above, please contact the undersigned at the above captioned address.

Best Regards,

 Thomas L. "Tom" Ervin - ATSSA Master Instructor

Ryan Hebert, PE

LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
 9643 Brookline Avenue, Suite 121
 Baton Rouge, LA 70809
 Phone (225) 925-6291
 www.lapels.com

Mr. Ryan Jude Hebert

License/Certificate Type - Number	Expiration Date
PE.0046577	09/30/2024
Status: Active	

ATSSA TRAINED

PROOF OF TRAINING
 THIS CERTIFICATE HEREBY RECOGNIZES THAT

Ryan Hebert
 has attended
Traffic Control Technician-LA State Specific
 Training Course

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

Baton Rouge, LA
 Location

Raymond W. Walker
 Director of Training
John T. Walker
 President, CEO

ATSSA
 American Traffic Safety Services Association (ATSSA)

ATSSA TRAINED

PROOF OF TRAINING
 THIS CERTIFICATE HEREBY RECOGNIZES THAT

Ryan Hebert
 has attended
Traffic Control Supervisor-LA State Specific
 Training Course

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

Baton Rouge, LA
 Location

Raymond W. Walker
 Director of Training
John T. Walker
 President, CEO

ATSSA
 American Traffic Safety Services Association (ATSSA)

Cassidy Melancon, EI


LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS)
 9643 Brookline Avenue, Suite 121
 Baton Rouge, LA 70809
 Phone (225) 925-6291
 www.lapels.com

Ms. Cassidy D. Melancon

License/Certificate Type - Number	Expiration Date
EI.0034626	03/31/2025
Status: Active	



Brennon Bourgeois, EI



LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Brennon Eldredge Bourgeois

License/Certificate Type - Number	Expiration Date
EI.0034870	09/30/2025
Status: Active	

Laudun Landry, PE



LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Laudun Micheal Landry

License/Certificate Type - Number	Expiration Date
PE.0045878	03/31/2024
Status: Active	

Beau Tate, PE



LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. Beau Joseph Tate

License/Certificate Type - Number	Expiration Date
PE.0030990	03/31/2024
Status: Active	

William Fontenot, PE



LOUISIANA PROFESSIONAL
ENGINEERING & LAND SURVEYING BOARD
(LAPELS)
9643 Brookline Avenue, Suite 121
Baton Rouge, LA 70809
Phone (225) 925-6291
www.lapels.com

Mr. William Dean Fontenot Jr.

License/Certificate Type - Number	Expiration Date
PE.0041036	03/31/2025

Status: **Active**



PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

William Fontenot Jr.
has attended
Traffic Control Technician-LA State Specific
Training Course

12/14/2021 to 12/14/2025 Training Valid Through	<i>Raymond Smith</i> Director of Training
Baton Rouge, LA Location	<i>Shawn Tinsler</i> President, CEO



PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT


William Fontenot Jr.
has attended
Traffic Control Supervisor-LA State Specific
Training Course


12/18/2021 to 12/18/2025 Training Valid Through	<i>Raymond Smith</i> Director of Training
Baton Rouge, LA Location	<i>Shawn Tinsler</i> President, CEO



Basin LLC

Wesley Reid Eustis,
PE, PLS (MPR4), Survey Lead

 <p>LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com</p>	
<p>Mr. Wesley Reid Eustis</p>	
License/Certificate Type - Number	Expiration Date
PLS.0005225	03/31/2024
<p>Status: Active</p>	

 <p>LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com</p>	
<p>Mr. Wesley Reid Eustis</p>	
License/Certificate Type - Number	Expiration Date
PE.0035537	09/30/2024
<p>Status: Active</p>	

Connor Glennon, PE, Party Chief

 <p>LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com</p>	
<p>Mr. Connor Joseph Glennon</p>	
License/Certificate Type - Number	Expiration Date
PE.0046886	09/30/2024
<p>Status: Active</p>	

Mike Carter, PE, QA/QC Survey

 <p>LOUISIANA PROFESSIONAL ENGINEERING & LAND SURVEYING BOARD (LAPELS) 9643 Brookline Avenue, Suite 121 Baton Rouge, LA 70809 Phone (225) 925-6291 www.lapels.com</p>	
<p>Mr. Michael Arthur Carter</p>	
License/Certificate Type - Number	Expiration Date
PE.0018651	03/31/2024
<p>Status: Active</p>	

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.**

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
Basin LLC	2811 B Toulouse Street New Orleans, LA 70119	Wesley Eustis, PE, PLS Weustis@basinengllc.com	504.766.0526

(Add rows as needed)

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.**