

ENGINEERING AND RELATED SERVICES

January 15, 2025

Contract No.: 4400030633

State Project No.: H.015940.5

Federal Aid Project No.: H015940

OFF-SYSTEM HIGHWAY BRIDGE PROGRAM CONTRACT FOR:
Moffet Road Over Chauvin Bayou
Terrebonne Parish

PRESENTED TO:



SUBMITTED BY:

Royal Engineers and Consultants, L.L.C.

1501 Religious Street, Suite C

New Orleans, LA 70130

www.royal.us

504.283.9400





January 15, 2025

Department of Transportation and Development Consultant Contract Services Administrator
1201 Capitol Access Road, Room 405-E
Baton Rouge, LA 70802-4438
DOTDConsultantAds80@la.gov

Contract No.: 4400030633

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Off-System Highway Bridge Program for: Moffet Road Over Chauvin Bayou

Parish: Terrebonne



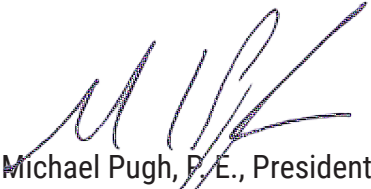
Dear Consultant Selection Committee,

Royal Engineers and Consultants, L.L.C. (Royal) respectfully requests your consideration of the enclosed proposal in response to the Louisiana Department of Transportation and Development (DOTD) advertisement for Engineering and Related Services on the Moffet Road Over Chauvin Bayou bridge under the Off-System Highway Bridge Program (OSBR). Since 2005, Royal has delivered multi-disciplinary professional engineering design for industry, government, and the private sector across the Gulf Coast. Royal has provided engineering and related services for complex roadway and infrastructure programs throughout South Louisiana, totaling more than \$1.5 billion.

Our office in Lafayette is staffed with Professional Engineers with substantial knowledge in roadway and bridge design challenges. Royal has also partnered with Basin LLC for Survey, Horizon Engineering LLC for Structural Engineering subject matter expertise, and ELOS Environmental, LLC for environmental services. Royal has a long history of service in Terrebonne Parish, and specifically in this Project Location, because our firm has an office a few miles away from the Moffet Road bridge in Houma. Our Houma field office provides program management to South Louisiana Electric Cooperative supporting its \$275M disaster recovery program in the area. This effort involves the review, as an Owner's Representative, of design plans and specifications for road and utility infrastructure repairs after Hurricane Ida. In addition, we have designed roads, bridges and drainage structures from Iberia Parish to St. Bernard Parish, and know south Louisiana design challenges well.

We appreciate the opportunity to respond and look forward to working with DOTD. Please direct communication to our Primary Point of Contact, Katherine Foreman, P.E., by phone at (337) 456-5351 or via email at kforeman@royal.us.

Sincerely,


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

1.5B+
Design & Construction Management
Projects Since 2005



DOTD FORM: 24-102

PROPOSAL TO PROVIDE CONSULTANT SERVICES

(Revised December 12, 2024)

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) | Off-System Highway Bridge Program, Moffet Rd Over Chauvin Bayou | |
| 2. Contract Number(s) (as shown in the advertisement) | 4400030633 | |
| 3. State Project Number(s) (if shown in the advertisement) | H.015940.5 | |
| 4. Prime Consultant Name (name must match exactly as registered with the Louisiana Secretary of State (SOS) where such registration is required by law; including punctuation; include screenshot from SOS at the end of Section 20) | 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, Suite C, 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, Suite C, New Orleans, LA 70130 | |
| 8. Name, Title, Phone Number, and Email Address (prime consultant's contract point of contact) | Katherine Foreman, P.E., Project Engineer, (337) 456-5351, kforeman@royal.us | |
| 9. Name, Title, Phone Number, and Email Address (official with signing authority for this proposal) | Michael Pugh, P.E., President, (504) 283-9400, mpugh@royal.us | |
| <p>10. This is to certify that all information contained herein is accurate/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/agrees that the following information is correct: In preparing a response, the proposer has considered all proposals submitted from qualified, potential subcontractors/suppliers, and has not, in the solicitation selection/commercial treatment of any subcontractor/supplier, refused to transact/terminate business activities, taken other actions intended to limit commercial relations with person/entity that is engaging in commercial transactions in Israel/Israeli-controlled territories, with specific intent to accomplish a boycott/divestment of Israel. The proposer also has not retaliated against any person/entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder/proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on a false response.</p> <p>Pursuant to Act No. 581 of the 2024 Louisiana Legislature Regular Session, proposer further certifies that it does not have a practice, policy, guidance, or directive that discriminates against a firearm entity or firearm trade association based solely on the entity's or association's status as a firearm entity or firearm trade association. In addition, proposer certifies it will not discriminate against a firearm entity or firearm trade association during the term of the contract based solely on the entity's or association's status as a firearm entity or firearm trade association.</p> |  <p>Signature above shall be the same person listed in Section 9:</p> <p>Date: January 15, 2025</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. | Firm(s): N/A | Firm(s)' % N/A |

ROYAL 12. 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 listed in the drop down in each row (Appraiser, Bridge, CE&I/OV, CPM, Data Collection, Environmental, Geotech, ITS, Other (must specify), Planning, Right-of-Way, Road, Survey, and Traffic). **Remove rows as needed.**

| PAST PERFORMANCE EVALUATION DISCIPLINE(S) | % OF OVERALL CONTRACT | ROYAL ENGINEERS AND CONSULTANTS, L.L.C. | BASIN LLC (BASIN) | HORIZON ENGINEERING, LLC (HORIZON) | ELOS ENVIRONMENTAL, LLC (ELOS) | EACH DISCIPLINE MUST TOTAL 100% |
|--|-----------------------|---|-------------------|------------------------------------|--------------------------------|---------------------------------|
| Bridge | 75% | 85% | N/A | 15% | N/A | 100% |
| Survey | 20% | N/A | 100% | N/A | N/A | 100% |
| Environmental | 5% | 40% | N/A | N/A | 60% | 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% | 65.75% | 20% | 11.25% | 3% | 100% |

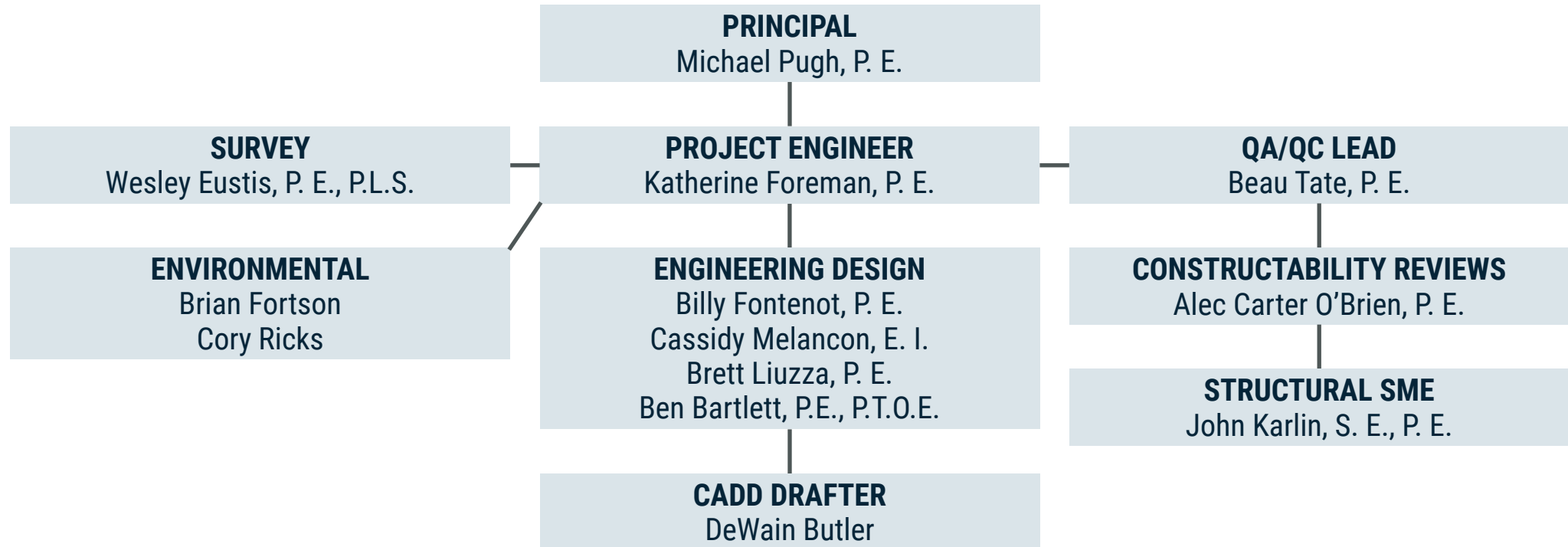
13. FIRM SIZE

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 (must 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 <i>(if needed)</i> |
|--|-------------------------|---|--|
| Royal Engineers and Consultants, L. L. C. | Engineer | 3 | 10 |
| | Engineer Intern | 1 | 6 |
| | CADD Drafter | 1 | 3 |
| | Principal | 1 | 2 |
| | Supervisor-Eng | 1 | 3 |
| Basin LLC | Surveyor | 1 | 1 |
| Horizon Engineering, LLC | Engineer | 3 | 3 |
| ELOS Environmental, LLC | Environmental Manager | 1 | 5 |
| | Environmental Pro | 1 | 2 |

14. ORGANIZATIONAL CHART

Provide an organizational chart showing ALL **relevant** prime consultant and sub-consultant (if applicable) personnel assigned to the contract, area of project responsibility for each, and reporting lines for the purposes of this contract. An individual's role does not necessarily have to match their DOTD job classification identified in Section 13. **If applicable, identify all personnel performing traffic engineering analysis and/or QC of traffic engineering analysis by placing an asterisk next to their name.** Include the certificates required by the Traffic Engineering Process and Report Training Requirements article of the Advertisement in Section 20. It is acceptable to use an 11x17 format for Section 14.




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 NUMBER <i>(Do not insert wording from ad)</i> | PERSONNEL BEING USED TO MEET THE MPR <i>(Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)</i> | FIRM EMPLOYED BY | TYPE OF LICENSE & DISCIPLINE MEETING MPR/CERTIFICATION & NUMBER <i>(Ex: PE # - Civil)</i> | STATE OF LICENSE | LICENSE, CERTIFICATION, & EXPIRATION DATE |
|---|--|-------------------------|---|-------------------------|--|
| 1 | Michael Pugh, P. E. | Royal | P.E. 0030911 Professional Engineer, Civil | LA | 3-31-2026 |
| 2 | Katherine Foreman, P. E. | Royal | P.E. 0046031 Professional Engineer, Civil | LA | 3-31-2026 |
| 3 | Beau Tate, P. E. | Royal | P.E. 0030990 Professional Engineer, Civil | LA | 3-31-2026 |
| 4 | Wesley Eustis, P.L.S. | Basin | P.L.S. 0005225 Professional Land Surveyor | LA | 3-31-2026 |
| 5 | Brian Fortson | Elos Environmental | N/A | N/A | N/A |

16. STAFF EXPERIENCE

Résumés shall be provided for all prime and sub-consultant personnel listed in Sections 14 and/or 15 of the proposal. Résumés of personnel not identified in Section 14 or Section 15 of the proposal should not be included and will not be evaluated. Résumés are **limited to 2 pages per person**. Any certificates required by the advertisement are to be placed in Section 20.


| NAME: Michael Pugh, PE | | TITLE: Principal | | FIRM EMPLOYED BY: Royal Engineering and Consultants, L.L.C. | |  |
|--|---|--|--|---|--|---|
| YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER: 20 | | YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(S): 8 | | | | |
| DEGREE(S) / YEARS / SPECIALIZATION: BS / 1997 / Civil Engineering | | | | | | |
| ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE: 30911 / LA / 3-31-2026 | | YEAR REGISTERED: 2003 | | DISCIPLINE: Civil | | |
| CONTRACT ROLE(S)/BRIEF DESCRIPTION OF RESPONSIBILITIES: Principal (MPR 1) / Project Oversight and Governance | | | | | | |
| EXPERIENCE DATES <i>(mm/yy – mm/yy)</i> | EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT <i>(“designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s))</i> | | | | | |
| 28 Years of Experience | Mr. Pugh has 28 years of experience in designing roads, bridges, canal crossings, drainage infrastructure, subsurface utility, side-walks, and pedestrian facilities. Mr. Pugh also has extensive experience in oversight of Construction Engineering & Inspection (CE&I) functions of small- and large-scale roadway and bridge repair and replacement projects. | | | | | |
| 05/23 – Ongoing <i>Featured Project</i> | West Metairie Avenue Over S. Suburban Canal Off System Bridge (OSBR) DOTD: Contract H.015009 Principal. Provided oversight and project governance for an engineering design of a bridge, replacing an existing slab span bridge at West Metairie Avenue over the South Suburban Canal in Jefferson Parish, which is off the State Highway System. The proposed replacement structure is a two (2), 12-ft by 12-ft Reinforced Concrete Box Culverts with concrete headwalls and wingwalls. | | | | | |
| 08/15 – 01/22 <i>Featured Project</i> | Magistrate Street at Corrine Canal St. Bernard Parish, LA Principal. Responsible for engineering design for repairs, restorations and/or replacement of bridge to its Pre-Katrina condition while preserving the historical value and original intent of the facility. Replaced existing culverts with precast Con-Span structures. Bridge design replaced the preexisting two (2) – 60” corrugated metal pipe culverts with a 26’-0” wide 72’-0” long clear span, precast concrete structure. | | | | | |
| 08/15 – 01/22 <i>Featured Project</i> | Gallo Drive Bridge at Arpent Canal St. Bernard Parish, LA Principal. Responsible for oversight of design and CE&I services for this project, which replaced 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 (2) – 60” concrete pipe culverts with a 26’-0” wide clear span, precast concrete structure. | | | | | |
| 03/17 – 05/19 <i>Featured Project</i> | Plaza / Arpent Bridge St. Bernard Parish, LA Principal. Royal performed design and construction management services for the replacement of the Plaza /Arpent bridge. The existing culvert configuration was found to be inadequate to handle the increased flow of water during major rain events. The new bridge is 52 ft x 32 ft, and included removal and replacement of 400 sy of roadway pavement, 1250 ft concrete piles; and installation of 56 feet of concrete pipe, over 100 LF of guard rail, a handicap ramp, 5” rollover, 6” and 8” barrier concrete curb, and 190 LF of handrail. | | | | | |

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|---|--|--|--|--------------------------|
| NAME: Katherine Foreman, PE | | TITLE: Engineer | FIRM EMPLOYED BY: Royal Engineers and Consultants, L.L.C. | |
| YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER: 8 | | | 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 / 3-31-2026 | | | YEAR REGISTERED: 2021 | DISCIPLINE: Civil |
| CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES: Engineer (MPR 2)/ Project Engineer | | | | |
| EXPERIENCE DATES <i>(mm/yy – mm/yy)</i> | | EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT <i>(“designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s))</i> | | |
| 8 Years of Experience | | Ms. Foreman has 8 years of experience in civil engineering design on project types including roadways, bridges, bridge approaches, 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. She can use 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 meet DOTD standards, Unified Facilities Criteria (UFC), and local municipal codes. CERTIFICATIONS: Traffic Control Supervisor, Traffic Control Technician | | |
| 05/23 – Ongoing <i>Featured Project</i> | | West Metairie Avenue Over S. Suburban Canal Off System Bridge (OSBR) DOTD: Contract H.015009 Engineer of Record. Provided 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. The proposed replacement structure is a two (2), 12-ft by 12-ft Reinforced Concrete Box Culverts with concrete headwalls and wingwalls. The proposed structure will tie-in to the existing concrete lined Suburban Canal. | | |
| 08/15 – 01/22 <i>Featured Project</i> | | Magistrate Street at Corrine Canal St. Bernard Parish, LA Engineer Intern. The Magistrate Street at Corrine Canal Bridge consisted of a Hazard Mitigation project to replace the preexisting two (2) – 60” corrugated metal pipe culverts with a 26’-0” wide, 72’-0” long clear span, precast concrete structure. 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).engineering design for repairs, restorations and/or replacement of bridge to its Pre-Katrina condition while preserving the historical value and original intent of the facility. | | |
| 08/15 – 01/22 <i>Featured Project</i> | | Gallo Drive Bridge at Arpent Canal St. Bernard Parish, LA Engineer Intern. Responsible for the design for this project, which replaced 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. | | |





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|-------------------------------|--|
| <p>02/15 – Ongoing</p> | <p>Missouri Street at Corinne Canal St. Bernard Parish, LA Engineer Intern. Provided engineering services for repairs/restorations/replacement of bridge, replacing culvert with a pre-cast Con-Span structure, performing hydraulic analysis, site layout/grading, foundation/wingwall design, plan coordination, and submittal reviews.</p> |
| <p>08/15 – 11/21</p> | <p>Polly Lane Extension Lafayette Consolidated Government Engineer Intern. Provided engineering design for the connection of both dead-end streets of Polly Lane. The approximate length of the new roadway is 1,080 linear feet and the length of improvements to existing roadway is 930 linear feet. Provided engineering design, analyses, and construction management for connection of both dead-end streets of Polly Lane and storm drainage system design.</p> |
| <p>06/15 – 06/17</p> | <p>City of Youngsville Engineering Design Youngsville, LA Engineer Intern. Performed design, bidding, and construction management for the rehabilitation of Détente Road.</p> |

| NAME: Beau Tate, PE | | TITLE: Senior Engineer | | FIRM EMPLOYED BY: Royal Engineers and Consultants, L.L.C. | |  |
|---|--|---|--|---|-------------------|---|
| YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER: 17 | | YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(s): 10 | | | | |
| DEGREE(S) / YEARS / SPECIALIZATION: BS / 1998 / Environmental Engineering, Minor- Civil Engineering | | | | | | |
| ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE: 30990 / LA / 3-31-2026 | | | | YEAR REGISTERED: 2004 | DISCIPLINE: Civil | |
| CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES: Supervisor-Eng (MPR 3) / QA/QC | | | | | | |
| EXPERIENCE DATES <i>(mm/yy – mm/yy)</i> | | EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT <i>("designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s))</i> | | | | |
| 27 Years of Experience | | Mr. Tate is a Senior Engineer with a long career in infrastructure design. Mr. Tate has been the Engineer of Record on numerous projects involving asphalt and concrete road design, bridges and canal crossings, low water crossings, sidewalks, flood control structures, commercial and residential site design, foundation design, and retaining walls. | | | | |
| 05/23 – Ongoing <i>Featured Project</i> | | West Metairie Avenue Over S. Suburban Canal Off System Bridge (OSBR) DOTD: Contract H.015009 Supervisor-Eng with QA/QC responsibilities for the design of a replacement an existing slab span bridge at West Metairie Avenue over the South Suburban Canal in Jefferson Parish. The proposed replacement structure is a two (2), 12-ft by 12-ft Reinforced Concrete Box Culverts with concrete headwalls and wingwalls. The proposed structure will tie-in to the existing concrete lined Suburban Canal. | | | | |
| 08/15 – 01/22 <i>Featured Project</i> | | Magistrate Street at Corrine Canal St. Bernard Parish, LA Engineer of Record. The Magistrate Street at Corrine Canal Bridge consisted of a Hazard Mitigation project to replace the preexisting two (2) – 60" corrugated metal pipe culverts with a 26'-0" wide, 72'-0" long clear span, precast concrete structure. 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).engineering design for repairs, restorations and/or replacement of bridge to its Pre-Katrina condition while preserving the historical value and original intent. | | | | |
| 08/15 – 01/22 <i>Featured Project</i> | | Gallo at Arpent Canal Bridge St. Bernard Parish, LA Engineer of Record responsible for the design for this project, which replaced 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. | | | | |
| 11/20 – 06/24 | | 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 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 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. | | | | |

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|--|--|-------------------------------|--|--|--------------------------|
| NAME: William Fontenot, PE | | TITLE: Senior Engineer | | FIRM EMPLOYED BY: Royal Engineers and Consultants, L.L.C. | |
| YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER: 3 | | | YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(s): 10 | | |
| DEGREE(S) / YEARS / SPECIALIZATION: BS / 2012 / Civil Engineering | | | | | |
| ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE: 41036 / LA / 3-31-2025 | | | | YEAR REGISTERED: 2016 | DISCIPLINE: Civil |
| CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES: Engineer / Engineering Design | | | | | |





| EXPERIENCE DATES <i>(mm/yy – mm/yy)</i> | EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT <i>("designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s))</i> |
|---|---|
| 13 Years of Experience | Mr. Fontenot has 13 years of experience in civil/structural engineering, construction consulting, and structural inspection/repair. He performed on-site structural deficiency inspections for statewide projects and engineered safe, economic approaches to specific construction problems related to various heavy construction projects. CERTIFICATIONS: ATSSA Traffic Control Supervisor, ATSSA Traffic Control Technician, Certified Flagger |
| 05/23 - Ongoing <i>Featured Project</i> | West Metairie Avenue Over S. Suburban Canal Off System Bridge (OSBR) DOTD: Contract H.015009 Engineer. Responsible for overseeing the structural component of the design of box culverts, headwalls, and wingwalls to replace the existing slab span bridge in support of engineering design plans to replace an existing slab span bridge. The proposed replacement structure is a two (2), 12-ft by 12-ft Reinforced Concrete Box Culverts with concrete headwalls and wingwalls. |
| 11/22 – Ongoing | East Bank Sediment Transport Corridor Road Reconstruction and Canal Crossings Plaquemines and St. Bernard Parish Engineer. Responsible for design of sheet pile bulk heads, bank stability of canal crossings, structural design of pipe culverts crossing below a major highway, and general QA/QC of final design drawing package. |
| 06/12 – 07/18 | I-10 Lake Pontchartrain Bridge Deck Patching and Girder Painting New Orleans, LA Engineer Intern. Performed field inspection, created assessment reports, used as-built plans and CAD software to design traffic control detour paths, refined rehabilitation plans for final submittal, and planned inspection/quantification. |
| 06/12 – 07/16 | Yscloskey Vertical Lift Bridge Painting St. Bernard Parish, LA Engineer Intern. Designed paint containment/geometric site layout support system, detailed phasing plans, site survey/layout using total station/automatic level, and roadway/water-fairing traffic coordination to optimize productivity. |
| 06/12 – 07/17 | In-Depth Bridge Inspection of Complex Structures St. Landry Parish, LA Engineer Intern. Performed inspection of deck and super/substructure of approach spans on Krotz Springs Bridge, coordinated inspector meetings and equipment rentals, staffed personnel, and provided assessment reports. |
| 06/12 – 07/17 | Inner Harbor Canal Bridge Rehabilitation DOTD Contract H.003182 Algiers, LA Engineer Intern. Designed traffic control and signage within DOTD standards, assisted quantity checks, used as-built plans and CAD software to design traffic control detour paths, and refined rehabilitation plans for final submittal. |

| NAME: Alec Carter O’Brien, PE | | TITLE: Project Engineer | | FIRM EMPLOYED BY: Royal Engineers and Consultants, L.L.C. | |  |
|---|--|---|--|---|-------------------|---|
| YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER: 6 | | | YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(s): 6 | | | |
| DEGREE(S) / YEARS / SPECIALIZATION: BS / 2013 / Civil Engineering | | | | | | |
| ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE: 43647 / LA / 3-31-2026 | | | | YEAR REGISTERED: 2019 | DISCIPLINE: Civil | |
| CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES: Engineer / Constructability Reviews | | | | | | |
| EXPERIENCE DATES <i>(mm/yy – mm/yy)</i> | | EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT <i>("designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s))</i> | | | | |
| 12 Years of Experience | | Mr. O’Brien is a licensed Engineer with 12 years of heavy civil, roadway, drainage, and bridge construction management experience. Mr. O’Brien routinely performs as needed Constructability Reviews for Engineering Design projects on behalf of Royal’s design team. Mr. O’Brien has led, from Project Kickoff to Closeout, dozens of CE&I and Construction Management projects for DOTD, FEMA, the Port of New Orleans, and various municipalities. He has extensively worked in structural concrete, asphalt paving, PCCP, catch basins, drainage, bridge, and sidewalk projects. CERTIFICATIONS: ATSSA Traffic Control Supervisor, ATSSA Traffic Control Technician, and Certified Flagger | | | | |
| 06/23 – Ongoing | | Lafayette Parish Non-State Pavement Markings (CE&I) DOTD Contract H.015018.5 (Entity) Engineer. Provides CE&I services for the construction and restriping of 14 miles of roadway along Cajundome Blvd., East Pinhook Rd./Teurlings Ave., Kaliste Saloom Rd., Mudd Ave., and Gendarme Rd. Responsible for CE&I deliverables, including management of inspectors, compliance with plans and specifications, QA/QC, reporting and document control, RFIs, change order requests, and as-builts. | | | | |
| 05/24 – Ongoing | | Crescent City Connection Decorative Lighting Project (CE&I) DOTD Contract H.015504.6 Engineer. Responsible for all CE&I deliverables for a new, LED, decorative lighting system for the Crescent City Connection bridge at a cost of \$20.7million. Hurricane Ida surged the electrical system resulting in an installation that features lights on the trusses and illuminating the piers. | | | | |
| 06/23 – Ongoing | | US 90Z Harvey Canal Tunnel Rehabilitation (CE&I) DOTD Contract H.010673 Engineer. Responsible for CE&I deliverables for the rehabilitation of the Harvey Canal Tunnel and its approaches along US 90Z in Jefferson Parish. The approximately \$50million rehabilitation includes new tile lining, drainage pumps, pavement, structural, electrical and ventilation systems. Manages inspectors, performs QA/QC of field reports, and maintains project schedule. | | | | |
| 05/23 – Ongoing <i>Featured Project</i> | | West Metairie Avenue Over S. Suburban Canal Off System Bridge (OSBR) DOTD: Contract H.015009 Engineer. Serves on the QA/QC team responsible for Constructability Reviews for the replacement of an existing slab span bridge at West Metairie Avenue over the South Suburban Canal in Jefferson Parish. The proposed replacement structure is a two (2), 12-ft by 12-ft Reinforced Concrete Box Culverts with concrete headwalls and wingwalls. The proposed structure will tie-in to the existing concrete lined Suburban Canal. | | | | |


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| NAME: Cassidy Melancon, EI | TITLE: Engineer Intern | FIRM EMPLOYED BY: Royal Engineers and Consultants, L.L.C. |
| YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER: 3 | YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(s): 0 | |
| DEGREE(S) / YEARS / SPECIALIZATION: BS / 2020 / Civil Engineering | | |
| ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE: 34626 / LA / 3-31-2025 | YEAR REGISTERED: 2020 | DISCIPLINE: N/A |
| CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES: Engineer Intern / Engineering Design | | |





| EXPERIENCE DATES <i>(mm/yy – mm/yy)</i> | EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT <i>("designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s))</i> |
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| 3 Years of Experience | Ms. Melancon is an Engineer Intern with 3 years of experience in the industry which includes assisting engineering design and project management services. Her responsibilities in engineering range from various design tasks regarding drainage, roadway, and structural analyses to drafting and maintaining project files. Her project management assistance has included tasks such as reviewing inspector observations, design plans and quantities. Ms. Melancon's accomplishments include the structural design of box culverts and retaining walls. |
| 05/23 – Ongoing <i>Featured Project</i> | West Metairie Avenue Over S. Suburban Canal Off System Bridge (OSBR) DOTD: Contract H.015009 Engineer Intern. Responsible for supporting engineering design plans to replace an existing slab span bridge at West Metairie Avenue over the South Suburban Canal in Jefferson Parish. The proposed replacement structure is a two (2), 12-ft by 12-ft Reinforced Concrete Box Culverts with concrete headwalls and wingwalls. |
| 04/22 – 12/24 | East Bank Sediment Transport Corridor Road Reconstruction and Canal Crossings Plaquemines and St. Bernard Parish Engineer Intern. Responsible for supporting 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. |
| 09/22 – 09/23 | Ashland and Detiveaux Road Repairs South Louisiana Electric Cooperative Association (SLECA) Engineer Intern. Provided engineering design calculations and permitting support 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. For the Ashland Road section, 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. |

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| NAME: DeWain Butler | TITLE: Lead Drafter | FIRM EMPLOYED BY: Royal Engineers and Consultants, L.L.C. | |
| YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER: 3 | | YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(s): 17 | |
| DEGREE(S) / YEARS / SPECIALIZATION: N/A / N/A / N/A | | | |
| ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE: N/A/ N/A / N/A | | YEAR REGISTERED: N/A | DISCIPLINE: N/A |
| CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES: CADD Drafter / CADD Plan Drawings | | | |



| EXPERIENCE DATES <i>(mm/yy – mm/yy)</i> | EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT <i>("designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s))</i> |
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| 20 Years of Experience | Mr. Butler has 20 years of experience drafting plans and specifications for Architecture and Engineering Design projects. Mr. Butler has technical capabilities in AutoCad Civil 3d and Revit design softwares. |
| 05/23 – Ongoing | West Metairie Avenue Over S. Suburban Canal Off System Bridge (OSBR) DOTD: Contract H.015009 CADD Drafter. Responsible for supporting engineering design plans to replace an existing slab span bridge at West Metairie Avenue over the South Suburban Canal in Jefferson Parish. The proposed replacement structure is a two (2), 12-ft by 12-ft Reinforced Concrete Box Culverts with concrete headwalls and wingwalls. |
| 11/22 – 06/24 | Indian Creek Low Water Crossing and Road Repairs Fort Polk, LA CADD Drafter. Responsible for supporting design of plans and specifications for the design of gravel roadways and hydraulic analysis of low water crossing for a Design-Build project for the U.S. Army Corps of Engineers (USACE) located near Fort Polk, LA. The project restored and widened approximately 2.4 miles of the existing Sagebrush Road, built a 1.2 mile new roadway, and designed a Low Water Crossing (LWC) structure to provide connectivity across Indian Creek. |
| 08/22-01/23 | Visitor Control Center and Commercial Inspection Facilities Naval Air Station Joint Reserve Base Belle Chasse, LA Drafter/Designer. Responsibilities included create drawings for a 30/50% submittal on a design-build project. Deliverables included a construction set of drawings/plans using all required UFC codes for a new visitor control center building, commercial vehicle facility, 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. |
| Prior to 2022 | Various Clients for Former Employer Various locations in South Louisiana AutoCAD Drafter/Designer. Created CAD files and project files for projects that included deliverables such as 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. |

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| NAME: Wesley Eustis, PE, PLS | | TITLE: Principal | FIRM EMPLOYED BY: Basin LLC |
| YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER: 4 | | YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(s): 17 | |
| DEGREE(S) / YEARS / SPECIALIZATION: BS / 2004 / Civil Engineering | | | |
| ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE: PLS 05225 / LA / 3-31-2026; PE 35537 / LA / 9-30-2026 | | YEAR REGISTERED: PLS 2019; PE 2010 | DISCIPLINE: PLS N/A; PE Civil |
| CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES: Surveyor / Survey | | | |






| EXPERIENCE DATES (mm/yy – mm/yy) | EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT (“designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s)) |
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| 21 Years of Experience | Mr. Eustis has 21 years of experience in Civil and Structural Engineering Design. Mr. Eustis also has 6 years of experience as a registered Professional Land Surveyor. He manages all aspects of Professional Land Surveying Services, including ALTA, Boundary, Topographic, and Hydrographic Surveys. |
| 05/24 - 08/24 | Jefferson Parish Waterline Project Jefferson Parish Government Surveyor. Performed survey for subsurface engineering design project that surveyed North Causeway Blvd. (from Veterans Memorial Blvd. to 14th St.; 31st St. (from Phoenix to Duncan); and portions of 26th St., 27th St., Ridgelake Dr., Veterans Memorial Blvd., and Metairie Lawn Dr. |
| 08/24 - 09/24 | Causeway Blvd. Survey Jefferson Parish Government Surveyor. Performed survey of North Causeway Blvd. between the Airline Highway Overpass and West Napoleon Ave. |
| 06/22 - 08/22 | Bonnabel Blvd. Survey Jefferson Parish Government Surveyor. Performed survey of Bonnabel Blvd. between the Metairie Rd. and Interstate 10. |
| 12/21 - 02/22 | Canal St. Survey Jefferson Parish Government Surveyor. Performed survey of Canal St. between Interstate 10 and Lake Ave. |
| 07/21 - 10/21 | Veterans Canal and Medians Jefferson Parish Government Surveyor. Performed survey of canals and medians along Veterans Blvd. |

| NAME: John Karlin, SE, PE | | TITLE: Principal | | FIRM EMPLOYED BY: Horizon Engineering, L.L.C. | |
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| YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER: 1 | | YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(s): 7 | | | |
| DEGREE(S) / YEARS / SPECIALIZATION: Master of Science / 2017 / Civil (Structural) Engineering BS / 2016 / Civil Engineering | | | | | |
| ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE: PE:44795 / LA / 3-31-2025 SE: 081-008511 / IL / 11-30-2026 | | | | YEAR REGISTERED: PE: 2020 SE: 2020 | |
| DISCIPLINE: Civil and Structural | | | | | |
| CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES: Engineer / Structural Subject Matter Expert | | | | | |
| EXPERIENCE DATES (mm/yy – mm/yy) | | EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT (“designed drainage”, “designed girders”, “designed intersection”, etc. Experience dates should cover the years of experience specified in the applicable MPR(s)) | | | |
| 8 Years of Experience | | <ul style="list-style-type: none"> » Over 7 years of structural engineering experience, including DOTD bridge and box culvert design. » Completed the 3 modules of LTRC Traffic Engineering Process and Report (TEPR) Course. » Certified ATSSA Traffic Control Supervisor (TCS), Technician (TCT), and Flagger. | | | |
| 07/21 – 12/22 | | S.P. No. H.013897 – I-10 and I-12 College Flyover Ramp Design-Build OWNER: LaDOTD. SCOPE: Replacement of I-10 WB flyover ramp; widening and rehabilitation of I-10 WB bridge over Ward Creek; and rehabilitation of I-12 to I-10 EB ramp and Essen Lane bridge over I-12. COST: ≈\$52,000,000. ROLE: Lead Structural Independent Technical Reviewer. Reviewed plans and specifications. Analyzed reinforced concrete deck and barriers, 360' skewed continuous steel plate girders, steel cross frames, PPC girders, reinforced concrete diaphragms, rolled steel girders, steel diaphragms, reinforced concrete bents, drilled shafts, and PPC piles. Identified potential design and constructability issues. | | | |
| 01/21 – 01/24 | | Rehabilitation of Causeway Boulevard/Airline Drive Interchange OWNER: Jefferson Parish. SCOPE: Structural inspection and rehabilitation of 1950s elevated interchange (8 ramps, traffic circle, and 4 lane overpass). COST: ≈\$13,000,000 completed, ≈\$46,000,000 (est.) remaining. ROLE: Project Manager, Lead Structural Engineer, and Lead Construction Engineer. Analyzed existing bents and girders. Designed structure jacking plan, steel girder strengthening and repairs, bent cap strengthening, reinforced concrete risers, post-installed adhesive anchors and reinforcing bars, elastomeric bearing pads, and coating of steel components. Prepared plans, specifications, and opinions of probable construction cost (OPCC). Developed adjustments to post-installed adhesive anchor and reinforcing bar positions to avoid conflicts with existing reinforcement. Designed emergency deck repairs to replace failed expansion joint with only weekend road closures. | | | |
| 01/23 – 01/24 | | S.P. No. H.002956 – Earhart/Dakin Ramp OWNER: LaDOTD. SCOPE: Exit ramp from Earhart Expressway to Dakin Street. ROLE: Structural Engineer. Designed reinforced concrete deck and barriers; PPC girders; reinforced concrete diaphragms; elastomeric bearings; and reinforced concrete shear keys. Designed pile bent (reinforced concrete bent cap and PPC piles) adjacent to existing bent to accommodate steel girder span without applying any additional load to the existing bent. Prepared plans. | | | |

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| 10/23 – 01/24 | <p>Relocation of East St. Bernard Highway and Associated Utilities (CMAR) OWNER: Port of New Orleans. SCOPE: Relocation of East St. Bernard Highway/associated utilities and construction of new bridge over railroad to facilitate construction of ≈\$1.8B Louisiana International Terminal (1.05 mi. of road, drainage, and utilities and 1,100 ft. of bridge). COST: ≈\$50,000,000 (est.). ROLE: Lead Structural Engineer. Reviewed preliminary plans and other related information and prepared gap analysis identifying critical items to be addressed between preliminary and final design. Performed preliminary analysis and design of truss span (approximately 200 feet long) over railroad to reduce superstructure depth and bridge length. Prepared LaDOTD preliminary design report, including lane, shoulder, and median widths, superelevation, and other related design features, and value engineering proposals. Evaluated CMAR contractor value engineering proposals. Coordinated with LaDOTD, CMAR contractor, and other stakeholders.</p> |
| 10/23 – 01/24 | <p>S.P. No. H.004791 – Belle Chasse Bridge and Tunnel Replacement (Public-Private Partnership Project) OWNER: LaDOTD/USACE. SCOPE: Replacement of 2-lane vertical lift Judge Perez Bridge and 2-lane Belle Chasse Tunnel with 4-lane fixed bridge over GIWW. COST: ≈\$130,000,000. ROLE: Safety Assurance Review (SAR) Panel Lead Structural Reviewer. Led structural review in accordance with USACE SAR requirements. Visited site; reviewed plans, specifications, and structural analyses/calculations for vertical lift bridge demolition, tunnel decommissioning, and replacement of tunnel flood gates with permanent floodwalls considering the effect of construction on nearby existing levees and floodwalls; and identified potential public safety issues.</p> |
| 09/17 – 06/19 | <p>Causeway Boulevard at 17th Street Southbound Roadway and Overpass Widening OWNER: Jefferson Parish. SCOPE: Widening of Causeway Blvd. roadway and overpass of Veterans Blvd. ROLE: Structural Engineer. Designed reinforced concrete deck (including tie-in to existing bridge), PPC girders, reinforced concrete diaphragms, elastomeric bearing pads, reinforced concrete bent caps, reinforced concrete columns, reinforced concrete pile caps, and PPC piles. Prepared plans, specifications, and opinions of probable construction cost (OPCC).</p> |
| 09/22 – 01/24 | <p>Florida Avenue Bridge Roadway, Settlement, and Paint Repairs OWNER: Port of New Orleans. SCOPE: Rehabilitation of Florida Avenue Bridge (vertical lift bridge over IHNC). ROLE: Structural Engineer. Inspected superstructure of approach spans and expansion joint damage at fixed/vertical lift interface. Assisted with preparation of structural repair details to approach spans and expansion joints.</p> |
| 09/17 – 05/22 | <p>S.P. No. H.011731 – W. Esplanade Bridges @ Duncan Canal OWNER: LaDOTD. SCOPE: Replacement of bridges with reinforced concrete box culverts (two 38'x13' cells and two 14'x8' cells). COST: ≈\$14,000,000. ROLE: Structural Engineer. Designed reinforced concrete base slab, walls, pipe penetrations, top slab, columns, girder, wingwalls, and apron slab considering LADV-11 and HL-93 vehicular live load.</p> |
| 01/20 – 07/20 | <p>Geisenheimer Canal Improvements (Loumor Outfall Ditch to Hoey's Canal) OWNER: Jefferson Parish. SCOPE: Design of box culvert connecting Loumor Outfall Ditch and Woodvine Ditch to Hoey's Canal (12'x8' precast boxes and 3 cast-in-place concrete junction boxes). COST: ≈\$13,000,000 (est.). ROLE: Project Manager and Lead Structural Engineer. Designed precast boxes, cast-in-place reinforced concrete junction box, and curved cast-in-place reinforced concrete transition section for HL-93 vehicular live load and other miscellaneous components. Prepared plans, specifications, and opinions of probable construction cost (OPCC).</p> |
| 09/17 – 10/18 | <p>West Esplanade Avenue Canal Crossing (Between Williams Boulevard and David Drive) OWNER: Jefferson Parish. SCOPE: Installation of ≈1,100 feet of 96-inch RCPA and a confluence box to transfer water from existing and future commercial developments and facilitate closing in of the West Esplanade Canal (Canal No. 2). COST: ≈\$730,000. ROLE: Structural Engineer. Designed reinforced concrete headwalls, wingwalls, and apron slabs.</p> |


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| NAME: Ben Bartlett, PE, PTOE | | TITLE: Co-Founder and Principal | | FIRM EMPLOYED BY: Horizon Engineering, L.L.C. | |
| YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER: 1 | | YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(s): 15 | | | |
| DEGREE(S) / YEARS / SPECIALIZATION: Master of Civil Engineering / 2010 / Civil Engineering BS / 2008 / Civil/Environmental Engineering | | | | | |
| ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE: PE:38980 / LA / 9-30-2026 PTOE: 4020 / USA / 3-29-2025 | | | | YEAR REGISTERED: PE: 2014 PTOE: 2016 | DISCIPLINE: Civil Engineer and PTOE |
| CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES: Engineer / Engineering Design and Traffic | | | | | |
| EXPERIENCE DATES <i>(mm/yy – mm/yy)</i> | | EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT <i>("designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s))</i> | | | |
| 16 Years of Experience | | <ul style="list-style-type: none">» Over 15 years of civil and traffic engineering experience, including DOTD hydraulic design.» Licensed Professional Traffic Operations Engineer with significant experience coordinating, designing, inspecting, and adjusting temporary traffic control to promote motorist, pedestrian, and worker safety within active construction zones.» Completed the 3 modules of LTRC Traffic Engineering Process and Report (TEPR) Course.» Certified ATSSA Traffic Control Supervisor (TCS), Technician (TCT), and Flagger.» Completed Louisiana State Civil Service CPTP SCS Cybersecurity WBT. | | | |
| 04/23 – 01/24 | | US 90 / Jefferson Hwy. at LA 3046 / Causeway Blvd. Traffic Study OWNER: Jefferson Parish. SCOPE: Traffic study in accordance with LaDOTD TEPR requirements (14 volume count, 12 turning movement count, and 17 driveway/median opening count locations). FEE: ≈\$190,000. ROLE: Lead Traffic Engineer. Led 5 field personnel for volume count, turning movement count, and driveway/median opening count equipment installation, peak period observations, and geometric field review. Determined peak period, peak hour, and unmet demand. Balanced volumes and prepared unbalanced and balanced volume | | | |
| 08/24 – Present | | Zellwood Station Phase 3 Traffic Study OWNER: Private. SCOPE: Traffic study in accordance with FDOT requirements to evaluate access to the ≈10.4 acre Zellwood Station site from US 441 / W Orange Blossom Trail. FEE: ≈\$13,000,000. ROLE: Lead Traffic Engineer. Reviewed volume counts, turning movement counts, driveway/median opening counts, and crash data along US 441. Performed traffic signal warrant analysis and crash data analysis. Evaluated sight distance requirements. Prepared conceptual layouts for multiple alternatives, including signalized intersection with new turn lanes, median openings, and driveways and adjustments to timing of adjacent traffic signals. | | | |
| 05/23 – 01/24 | | S.P. No. H.011779.6 – Power Blvd. Median Improvements and Pedestrian Traffic Study Review OWNER: City of Kenner (LaDOTD LPA project). SCOPE: Installation of a multi-use path and landscaping in the median of Power Blvd. as well as a pedestrian/bicycle truss bridge over Canal No. 1. COST: ≈\$3,400,000. ROLE: Project Manager and Lead Construction and Traffic Engineer. During construction, re-evaluated the location of a pedestrian crossing at Vintage Dr. and prepared a report that identified an improved crossing location based on vehicular and pedestrian traffic data and existing site features. | | | |



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| 10/18 – 07/19 | Lakeshore Drive Vehicular and Pedestrian Traffic Study OWNER: SLFPA-E. SCOPE: Vehicular and pedestrian traffic study along Lakeshore Drive. FEE: ≈\$40,000. Role: Project Manager and Lead Traffic Engineer. Led data collection and analysis (volume counts, turning movement counts, and pedestrian counts). Reviewed traffic accident reports, existing roadway geometry (i.e., sight lines/distances), and crosswalk warrant analysis to determine traffic calming and pedestrian crossing improvement options. |
| 01/20 – 06/21 | Lakeside Mall / Severn Avenue Intersection Traffic Study and Improvements OWNER: Private. SCOPE: Traffic study to evaluate the Lakeside Mall entrance/exit along Severn Avenue at the JC Penney parking lot and existing entrance/exit improvements. FEE: ≈\$40,000 (est.). ROLE: Project Manager and Lead Civil, Traffic, and Construction Engineer. Led 4 field personnel for volume count, turning movement count, and pedestrian count equipment installation within Lakeside Mall's internal road network and along Severn Avenue. Performed additional field observations during peak traffic/shopping period (Thanksgiving and Christmas holidays). Performed warrant analysis. Designed expansion of the existing entrance/exit, drainage and utility relocations (sewer, water, electricity, gas, and internet), existing grease trap system/tank replacement, and ADA compliant pedestrian routes. Prepared plans and specifications. |
| 04/20 – 05/20 | Lakeside Mall Roundabout and Parking Lot Review and Analysis OWNER: Private. SCOPE: Review of the existing roundabout and parking lot geometry, signage, pavement markings, and pedestrian crossings at Lakeside Mall's entrance along Veterans Blvd. as well as the applicability of a signalized intersection at the Veterans Blvd. entrance. ROLE: Lead Traffic Engineer. Reviewed existing roundabout and parking lot geometry, signage, pavement markings, and pedestrian crossings to determine conformance with FHWA, MUTCD, and LaDOTD guidance. Provided recommendations to improve traffic flow within Lakeside Mall's facility as well as provide clearer guidance for motorists and pedestrians within Lakeside Mall's internal roadway network. Provided warrant analysis for a potential signalized intersection at the Veterans Blvd. entrance. |
| 12/14 – 05/22 | S.P. No. H.011731 – W. Esplanade Bridges @ Duncan Canal OWNER: LaDOTD. SCOPE: Replacement of bridges with reinforced concrete box culverts (two 38'x13' cells and two 14'x8' cells). COST: ≈\$14,000,000. ROLE: Lead Civil Engineer. Performed hydrologic and hydraulic analysis (updated Jefferson Parish's East Bank drainage model). Designed geometry of junction between Duncan Canal and Canal No. 2 to minimize turbulence and obtain a "No Rise" certificate; designed apron slab and wingwall geometry and drainage pipe connections; and prepared opinions of probable construction cost. |
| 01/20 – 07/20 | Geisenheimer Canal Improvements (Loumor Outfall Ditch to Hoey's Canal) OWNER: Jefferson Parish. SCOPE: Design of box culvert connecting Loumor Outfall Ditch and Woodvine Ditch to Hoey's Canal (12'x8' pre-cast concrete boxes and 3 cast-in-place concrete junction boxes). COST: ≈\$13,000,000 (est.). ROLE: Lead Civil Engineer. Performed hydrologic and hydraulic analysis. Reviewed Parish-wide drainage master plan and models to determine applicable drainage basin and affected drainage systems; designed geometry of junction box at Hoey's Canal to minimize turbulence; designed drainage pipes, drainage structures, and miscellaneous site features; and prepared opinions of probable construction cost. |
| 02/16 – 10/18 | West Esplanade Avenue Canal Crossing (Between Williams Boulevard and David Drive) OWNER: Jefferson Parish. SCOPE: Installation of ≈1,100 feet of 96-inch RCPA and a confluence box to transfer water from existing and future commercial developments and facilitate the installation of a crossing over the West Esplanade Canal (Canal No. 2). COST: ≈\$730,000. ROLE: Project Manager, Lead Civil Engineer, and Lead Construction Engineer. Performed hydraulic and hydrologic analysis. Designed grading, drainage pipes and structures, headwalls, wingwalls, U-turns, roadway drainage, and other miscellaneous improvements. Prepared plans, specifications, and opinions of probable construction cost (OPCC). |

| NAME: Brett Liuzza, PE | TITLE: Co-Founder and Principal | FIRM EMPLOYED BY: Horizon Engineering, L.L.C. |
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| YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER: 1 | YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(s): 16 | |
| DEGREE(S) / YEARS / SPECIALIZATION: BS / 2008 / Civil/Environmental Engineering | | |
| ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE: 37753 / LA / 9-30-2026 | YEAR REGISTERED: 2013 | DISCIPLINE: Civil |
| CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES: Engineer / Engineering Design | | |
| EXPERIENCE DATES <i>(mm/yy – mm/yy)</i> | EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT <i>("designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s))</i> | |
| 17 Years of Experience | <ul style="list-style-type: none"> » Over 16 years of civil engineering experience, including DOTD road and hydraulic design and construction oversight. » Completed the 3 modules of LTRC Traffic Engineering Process and Report (TEPR) Course. » Certified ATSSA Traffic Control Supervisor (TCS), Technician (TCT), and Flagger. » Completed Louisiana State Civil Service CPTP SCS Cybersecurity WBT. | |
| 07/12 – 10/16 | S.P. No. H.002550.6-R1 (Phase 1A) and H.009933.6 (Phase 1B) – MacArthur Interchange Completion OWNER: LaDOTD. SCOPE: Construction of entrance/exit ramps for Westbank Expressway and relocation of frontage road and associated utilities. COST: ≈\$42,000,000. ROLE: Civil Engineer. Designed roadway geometric layout, 15" to 48" RCP, 15" to 72" equivalent RCPA, 10" sewer force main relocation horizontally drilled underneath 4-lane roadway, and 8" water line relocation. Prepared plans, specifications, and opinion of probable construction cost. | |
| 01/23 – 11/23 | S.P. No. H.002956 – Earhart/Dakin Ramp OWNER: LaDOTD. SCOPE: Construction of exit ramp connecting Earhart Expy. overpass and Dakin Street near the Jefferson Parish/Orleans Parish line. ROLE: Lead Civil Engineer. Performed hydrologic and hydraulic analysis. Designed asphalt pavement, drainage system, and pavement markings. Prepared plans, specifications, and opinions of probable construction cost. | |
| 05/08 – 08/10 | S.P. No. 414-01-0039 Nicholson Drive (LA 30) Segment 1 (Brightside/W. Lee to Gourrier/Burbank) OWNER: City of Baton Rouge. SCOPE: Widening of existing 2-lane asphalt road to 4 lanes (1.08 miles of road, drainage, and utilities). ROLE: Civil Engineer. Performed hydrologic and hydraulic analysis. Designed signalized intersection improvements to accommodate widened road, drainage system, utility relocations, grading, and pavement markings in accordance with LaDOTD requirements. Prepared preliminary plans, specifications, and opinions of probable construction cost. | |
| 10/18 – 10/23 | S.P. No. H.007271.6 Canal Blvd (R.E. Lee – Amethyst) OWNER: City of New Orleans (LaDOTD LPA project). SCOPE: Replacement of asphalt roadway (including curbs, driveways, sidewalks, and curb ramps) and drainage, sewer, and water lines. COST: ≈\$4,500,000. ROLE: Project Manager and Lead Construction Engineer. Managed 2 inspectors and performed inspections. Reviewed RFIs, submittals, and pay applications. Developed adjustments to drop inlets, manholes, and other drainage structures in the roadway. Performed SiteManager duties. Coordinated construction materials testing. Prepared change orders and project closeout documentation. | |

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| 07/21 – 01/24 | <p>S.P. No. H.007273.6 Magazine St (Leake Ave to East Drive) OWNER: City of New Orleans (LaDOTD LPA project). SCOPE: Replacement of asphalt road with PCC pavement road (including curb, driveways, sidewalks, and curb ramps) and drainage, sewer, and water improvements. COST: ~\$4,500,000. ROLE: Project Manager and Lead Construction Engineer. Managed inspectors and performed inspections. Reviewed RFIs, submittals, and pay applications. Developed adjustments to utilities and drop inlets, manholes, and other drainage structures in the road. Performed Site Manager duties. Coordinated construction materials testing. Prepared change orders and project closeout documentation.</p> |
| 07/13 – 05/22 | <p>Seawall Erosion Control Paving Project (Reaches 1A-1C, 2A-2D, 3A-3C, 4, 5, and 5B) OWNER: SLFPA-E. SCOPE: Fortification of the Lake Pontchartrain seawall and road, pedestrian, drainage, and lighting improvements (5.2 miles long). COST: ~\$50,000,000. ROLE: Project Manager and Lead Civil Engineer. Performed hydrologic and hydraulic analysis. Designed erosion control pavement geometric layout, tree preservation wall geometry, site grading, drainage pipes, drainage structures, drainage outfalls, and miscellaneous features. Prepared plans, specifications, opinions of probable construction cost. Coordinated with USACE and CPRA and prepared permit drawings for SLFPA-E, CPRA, and USACE. Managed inspectors and performed inspections. Reviewed RFIs, submittals, and pay applications. Prepared change orders and project closeout documentation.</p> |
| 05/21 – 12/22 | <p>RR122 and RR123 Marlyville-Fontainebleau Groups G and H (FRC) OWNER: City of New Orleans. SCOPE: Road reconstruction, including drainage, sewer lines, water lines, curbs, driveways, sidewalks, and curb ramps. COST: ~\$23,000,000 (est.). ROLE: Project Manager and Lead Civil Engineer. Performed hydrologic and hydraulic analysis. Designed road, driveway, and sidewalk geometric layouts, asphalt pavement, concrete curb and gutter, 15" to 30" RCP, and sewer and water mains, valves, fittings, offsets, and house connections. Prepared plans, specifications, and opinion of probable construction cost. Managed inspectors and performed inspections. Reviewed RFIs, submittals, and pay applications. Prepared change orders and project closeout documentation.</p> |
| 09/20 – 07/22 | <p>Milneburg Group B (FRC) Streets OWNER: City of New Orleans. SCOPE: Road reconstruction, including drainage, sewer lines, water lines, curbs, driveways, sidewalks, and curb ramps. COST: ~\$7,400,000. ROLE: Project Manager and Lead Civil Engineer. Performed hydrologic and hydraulic analysis. Designed road, driveway, and sidewalk geometric layouts, asphalt pavement, concrete curb and gutter, 15" to 30" RCP, 18x11 to 51x31 RCPA, and sewer and water mains, valves, fittings, offsets, and house connections. Prepared plans, specifications, and opinion of probable construction cost. Managed inspectors and performed inspections. Reviewed RFIs, submittals, and pay applications. Prepared change orders and project closeout documentation.</p> |
| 05/20 – 01/24 | <p>Widening of Causeway Boulevard (Airline Drive to West Napoleon Avenue) OWNER: Jefferson Parish. SCOPE: Widening of existing 4-lane road and area-wide drainage improvements (1.0 miles of road and drainage). COST: ~\$19,000,000 (est.). ROLE: Civil Engineer. Reviewed design of 15" to 72" RCP drainage system and tie-ins to surrounding drainage system. Designed asphalt pavement, concrete curb and gutter, pavement markings, sequence of construction, and temporary traffic control plan while accounting for site-related challenges, such as significant traffic demands, limited right-of-way, congestion of existing drainage and utilities, and the need to sequence construction to minimize disruptions to traffic.</p> |

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| NAME: Brian Fortson | | TITLE: Senior Project Manager/Biologist | | FIRM EMPLOYED BY: ELOS Environmental. L.L.C. | |  |
| YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER: 11 | | | | YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(s): 23 | | |
| DEGREE(S) / YEARS / SPECIALIZATION: JD / 2006 / Civil Law BS / 1995 / Wetland Ecology | | | | | | |
| ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE: N/A | | YEAR REGISTERED: N/A | | DISCIPLINE: N/A | | |
| CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES: Environmental Manager / Environmental Compliance and Wetlands Delineation | | | | | | |
| EXPERIENCE DATES <i>(mm/yy – mm/yy)</i> | | EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT <i>("designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s))</i> | | | | |
| 34 Years of Experience | | EBR Off System Bridge Program Mr. Fortson has coordinated with the environmental scientists to review the wetland delineation reports and assist with USACE permit applications for 13 bridge replacements. | | | | |
| 09/20 - Ongoing | | LADOTD Rural Bridges Phases I & II; Statewide, LA ELOS has been contracted to provide professional environmental consulting services for the Department of Transportation and Development (LADOTD) Rural Bridge Replacement Initiative for two project phases. Phase I involved bridge replacements under 16 state project numbers and supplemental task orders, impacting 33 structures in Districts 03, 07, 61, and 62. Phase 2 is ongoing and involves bridge replacements under 9 state project numbers and supplemental task orders, impacting multiple structures in Districts 05, 08, 58. Almost all the projects have included a wetland delineation, permit applications, cultural resource survey, and a T&E survey. Mr. Fortson has reviewed wetland delineation reports and categorical exclusion documentation, discussed findings and reviewed data for final reports, and met with staff internally to develop threatened and endangered species surveys. | | | | |
| 09/22 - Ongoing | | DOTD IIJA Off-System Bridges District 62 This off-system bridge project involves the replacement of six bridges; ELOS is performing wetland delineations, completing permit applications, completing solicitation of views to document categorical exclusions for the work proposed, completing cultural resources research, tribal packets, and reports, and write navigability determination reports. Mr. Fortson has reviewed the findings reports prior to client submission. | | | | |
| 10/22 – 09/23 | | LADOTD Rousseau Bridge Replacement St. Tammany Parish, LA: ELOS was contracted to provide environmental services for the Rousseau Bridge Replacement Project located on approximately 2.62 acres in St. Tammany Parish. Services included a wetland delineation, Scenic Rivers permit application, emergency authorization application to USACE, SOVs, and a final report. Mr. Fortson assisted with the report drafts and permit applications. | | | | |
| 05/21 – 05/22 | | STP Chris Kennedy RD Bridge Replacement ELOS was contracted to provide professional environmental engineering services to collect data to further prepare reports for wetland delineation, biological assessment and cultural impact in accordance with the removal and replacement plans. Mr. Fortson coordinated with internal teams to review reports, correlative maps, and environmental data to complete the approved contract. | | | | |
| 03/22 – 12/23 | | STP Lock No. 2 Bridge Replacement Mr. Fortson assisted with internal teams to provide Cultural resource services for the Lock No. 2 Bridge replacement located on approximately 4.83-acres in St. Tammany Parish. ELOS was contracted to provide Section 106 of NHPA, Terrestrial Phase I Culture Resource Survey and Cultural Resource Assessment No Findings report. | | | | |

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| 11/17 - Ongoing | <p>Move Ascension - Phases I, II, & III; Ascension Parish, LA ELOS has been contracted to plan projects, perform wetland delineations, conduct cultural resource surveys, and submit permit applications for 60 roadway projects, varying from roundabouts to constructing new lanes and connecting roadways, located throughout Ascension Parish. Mr. Fortson leads multi-disciplinary teams of environmental specialists, engineers, and consultants to achieve project objectives efficiently and effectively through the complexities of environmental compliance, ensuring that infrastructure development meets regulatory standards while minimizing environmental impacts and maximizing community benefits.</p> |
| 02/23 - Ongoing | <p>LADOTD Roundabout at Minnesota Park and Range Road; Tangipahoa Parish, LA ELOS is contracted to complete a wetland delineation report, submit a permit application, as well as assist with a CATEX, Phase I ESA, and the solicitation of views (SOVs) for the roundabout project at the intersection of Minnesota Park and Range Road. Mr. Fortson monitors the project timelines, milestones, and budgets to ensure timely delivery of environmental assessments that align with overall project schedules.</p> |
| 01/21 - Ongoing | <p>LA 22 Gapping; Ascension Parish, LA ELOS is contracted to perform a wetland delineation, complete a joint permit application, complete a biological survey, monitor for bald and golden eagle protection, complete a Phase I ESA, complete a Section 106 review and report, and assist with wetland mitigation planning. Mr. Fortson has served as the project manager to assist in determining the potential jurisdictional wetlands and other waters, preparing and submitting permit applications, and reviewing the desktop Section 106 review. He will also oversee the Phase I ESA and wetland mitigation planning.</p> |
| 01/22 – 09/22 | <p>Judge Dufresne Parkway Extension; St. Charles Parish, LA ELOS was contracted to conduct a Wetland Delineation, submit Permit Applications, perform a Phase I ESA, and provide a Section 106 Desktop Review for a 161.5-acre site to extend Judge Dufresne Parkway to include several adjacent, privately owned parcels. Mr. Fortson oversaw the environmental consulting project for the parkway extension, ensuring that environmental considerations were integrated into all project phases, regulatory requirements were met, and the project was completed successfully while minimizing environmental impacts. He implemented quality assurance and control measures to ensure that deliverables meet established standards and client expectations. Mr. Fortson maintained accurate project documentation, including reports, permits, correspondence, and regulatory filings.</p> |
| 08/17 - 11/19 | <p>I-10 Highland to LA 73 Design Build; East Baton Rouge Parish to Ascension Parish, LA ELOS was contracted to act as the environmental compliance manager responsible for permitting and construction monitoring for the fast-track interstate widening project from Highland Road in Baton Rouge to LA 73 in Prairieville. Mr. Fortson provided senior-level environmental project management for the project, overseeing complex environmental aspects of transportation infrastructure initiatives. He assisted in the development of a comprehensive environmental management strategy, wrote and assisted with amending the SWPPP as the project progressed, and assisted in preparing and reviewing the permit applications.</p> |
| 01/15 - 01/16 | <p>US 51 (LA 22 To Club Deluxe Road) – Environmental Services; Tangipahoa Parish, LA ELOS was contracted to complete a biological survey and report, a Phase I ESA, and a draft environmental assessment, in addition to analyzing natural resource impacts and assisting with public outreach for this roadway improvement project. Mr. Fortson supervised and participated in field investigations to support wetlands delineations and findings reports, biological surveys, and threatened and endangered species reports. He also provided coordination among regulatory agencies, landowners, and public stakeholders.</p> |
| 07/20 – 08/21 | <p>Trace Connection to Heritage Park Stage 0 Checklist; St. Tammany Parish, LA ELOS was contracted to provide a Louisiana DOTD Stage 0 Environmental Checklist for the Trace Connection to Heritage Park project. The project determined the feasibility of two proposed alternatives for the extension of the Tammany Trace from U.S. Highway 190 West/Gause Blvd near Cherry Street eastward for approximately 2.7 miles with a 100-ft wide corridor. Mr. Fortson served as the project manager overseeing all fieldwork and coordinating between clients and government agencies.</p> |

| NAME: Cory Ricks | TITLE: Environmental Professional | FIRM EMPLOYED BY: ELOS Environmental. L.L.C. |  |
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| YEARS OF RELEVANT EXPERIENCE WITH THIS EMPLOYER: 7 | YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(s): 1 | | |
| DEGREE(S) / YEARS / SPECIALIZATION: BS / 2015 / Biology | | | |
| ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE: N/A | YEAR REGISTERED: N/A | DISCIPLINE: N/A | |
| CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES: Environmental Pro / Environmental Compliance and Wetlands Delineation | | | |
| EXPERIENCE DATES <i>(mm/yy – mm/yy)</i> | EXPERIENCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT <i>("designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s))</i> | | |
| 8 Years of Experience | LADOTD Rural Bridges Phases I & II; Statewide, LA ELOS has been contracted to provide professional environmental consulting services for the Department of Transportation and Development (LADOTD) Rural Bridge Replacement Initiative for two project phases. Phase 1 involved bridge replacements under 16 state project numbers and supplemental task orders, impacting 33 structures in Districts 03, 07, 61, and 62. Phase 2 is ongoing and involves bridge replacements under 9 state project numbers and supplemental task orders, impacting multiple structures in Districts 05, 08, 58. Almost all the projects have included a wetland delineation, permit applications, cultural resource survey, and a threatened and endangered species survey. Mr. Ricks has coordinated field crews, performed wetland delineations, written and produced reports, developed timelines, coordinated with LADOTD, and assisted with the surveys. | | |
| 06/22 - 09/23 | LADOTD Rousseau Bridge Replacement; St. Tammany Parish, LA ELOS was contracted to provide environmental services for the Rousseau Bridge Replacement Project located on approximately 2.62 acres in St. Tammany Parish. Services included a wetland delineation, Scenic Rivers permit application, emergency authorization application to USACE, SOVs, and a final report. Mr. Ricks worked on the emergency authorization application since the bridge was the only way to access a neighborhood, assisted with the Scenic Rivers permit application, and provided project updates to St. Tammany Parish. | | |
| 04/22 - 02/24 | Tangi Off-System Bridge Prioritization; Tangipahoa Parish, LA ELOS is contracted to provide environmental services including wetland delineations, Solicitation of Views (SOVs), Categorical Exclusion (CE) documents, and permit applications and drawings for six bridges to be replaced in District 62. Mr. Ricks conducted a gopher turtle survey, wrote the findings report, completed permit applications with supporting documentation, and assisted with agency coordination. | | |
| 11/17 - Ongoing | Move Ascension - Phases I, II, & III; Ascension Parish, LA ELOS has been contracted to plan projects, perform wetland delineations, conduct cultural resource surveys, and submit permit applications for 60 roadway projects, varying from roundabouts to constructing new lanes and connecting roadways, located throughout Ascension Parish. Mr. Ricks leads a team of field members to perform the wetland delineations. He has also assisted with cultural resources field investigations and with permit applications to state and federal agencies (USACE, LEDNR, DOTD). | | |
| 05/21 | Tammany Trace Bridge Replacement; St. Tammany Parish, LA Mr. Ricks performed the wetland delineation, entered the wetforms, revised transmittals, reviewed the photographs/logs, coordinated with the GIS team to update maps, and submitted the wetland findings report. | | |

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| 05/22 - 03/24 | North Brickyard Road Bridge Replacement Program Mr. Ricks initiated the Solicitation of Views (SPVs), Categorical Exclusion (CE) documents, and reviewed all supporting documentation as it was sent and received from the agencies. He also assisted with permit applications and agency coordination when asked for additional information. |
| 02/23 - Ongoing | LADOTD Minnesota Park / Range Road Roundabout; Tangipahoa Parish, LA ELOS is contracted to complete a wetland delineation report to obtain a jurisdictional determination from the U.S. Army Corps of Engineers (USACE), submit a permit application, if necessary, as well as assist with a Categorical Exclusion (CATEX), Phase I Environmental Site Assessment (ESA), and the Solicitation of Views (SOVs) for a roundabout project (H.014340) covering 2.5 acres in Tangipahoa Parish. Mr. Ricks has researched additional information for reports, worked on files related to the CATEX, and assisted with reviewing agency requests for more information. |
| 07/21 - 08/22 | LA Trace Road Widening; Ascension Parish, LA ELOS was contracted to complete a wetland delineation report and prepare and submit road widening and culvert replacement joint application permits to the USACE and LDENR. Mr. Ricks worked with the team on the wetland delineation and reviewed the final figures and reports, prepared the joint application permits, met with the landowner for right-of-way, provided follow-up information and permit revisions to USACE and LDENR, and reviewed project invoicing. |
| 09/16 - 06/20 | LA 3234 Extension to Hammond Airport Environmental Assessment; Tangipahoa Parish, LA ELOS was contracted to provide environmental services for the LA-3234 Extension from LA-1065 to Hammond Airport. These services included preparing estimates of environmental mitigation costs so that ELOS will estimate the cost of mitigation of any unavoidable environmental impacts, such as wetland mitigation, hazardous waste mitigation, or cultural resource mitigation. Mr. Ricks performed the wetland delineation for all three routes and provided a report of the findings. Mr. Ricks also assisted in GIS mapping of the Wetlands Findings Report, Phase I Environmental Site Assessment, and the Biological Assessment Survey. Mr. Ricks also provided a report of the threatened and endangered species known in the project area. Mr. Ricks led efforts on providing stream and waterbody data for each report. |
| 08/17 - 11/19 | I-10 Highland to LA 73 Design Build; East Baton Rouge Parish to Ascension Parish, LA ELOS was contracted to act as the environmental compliance manager responsible for permitting and construction monitoring for the fast-track interstate widening project from Highland Road in Baton Rouge to LA 73 in Prairieville (H.009250). The project included widening an approximately 6-mile segment of I-10 and expanding two bridges/overpasses. Mr. Ricks worked on documentation for the CATEX, wrote and revised several permits to state and federal agencies, and coordinated field crews for completing stormwater inspections and monitoring construction activities for environmental impacts and compliance. |

17. FIRM EXPERIENCE

Identify the team's project experience most relevant to the scope in the advertisement. **The projects should be limited to a total of 20, with no more than 5 projects being represented by the prime consultant and with no more than 3 projects represented by each sub-consultant on the team. If more than 5 projects are identified for the prime consultant, all projects identified after the first 5 will not be evaluated. If more than 3 projects are identified for a single sub-consultant, all projects identified after the first 3 from that sub-consultant will not be evaluated.** Include no more than one page per project. Projects identified shall only include work performed by firms on the team. The projects identified do not necessarily need to have been DOTD projects. Describe the project including the firm's role and members involved. (Highlight staff to be used in this proposal.)
 * If there is more than one past performance evaluation discipline included in the proposal, then indicate which past performance evaluation discipline(s) this project is being used to represent. ****This field cannot be left blank and N/A is not acceptable. The only past performance evaluation disciplines to be used are: Appraiser, Bridge, CE&I/OV, CPM, Data Collection, Environmental, Geotech, ITS, Other (must specify), Planning, Right-of-Way, Road, Survey, and Traffic.** **Please copy these disciplines exactly as they are listed above. **

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| FIRM NAME: Royal Engineers and Consultants, L.L.C. | PAST PERFORMANCE EVALUATION DISCIPLINE(S): Bridge |
| PROJECT NAME: West Metairie Avenue Bridge Design and Replacement | FIRM RESPONSIBILITY (PRIME OR SUB): Prime |
| PROJECT NUMBER: H.015009 | OWNER'S NAME: DOTD |
| PROJECT LOCATION: Jefferson Parish, Louisiana | OWNER'S PROJECT MANAGER: Barbara Ostuno, PE |
| OWNER'S ADDRESS, PHONE, EMAIL: P.O. Box 94245, Baton Rouge, LA 70804 (225) 379-1047 Barbara.ostuno@la.gov | |
| SERVICES COMMENCED BY THIS FIRM: 05/23 | TOTAL CONSULTANT CONTRACT COST: \$77 |
| SERVICES COMPLETED BY THIS FIRM: Ongoing | COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM: \$77 |

Royal Engineers and Consultants, LLC (Royal) 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. Royal is managing all aspects of design and client relations, overseeing plan production in accordance with the Off-System Highway Bridge (OSBR) 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 Royal provides 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. Royal has completed the project's survey phase and is currently in the Preliminary Plans phase, at the Plan-in-Hand design deliverable stage. **KEY PERSONNEL:** Michael Pugh, Beau Tate, Katherine Foreman, Carter O'Brien



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| FIRM NAME: Royal Engineers and Consultants, L.L.C. | PAST PERFORMANCE EVALUATION DISCIPLINE(S): Bridge |
| PROJECT NAME: Magistrate Street at Corinne Canal | FIRM RESPONSIBILITY (PRIME OR SUB): Prime |
| PROJECT NUMBER: 2014 - 24 - 00 | OWNER'S NAME: St. Bernard Parish Government |
| PROJECT LOCATION: St. Bernard Parish, Louisiana | 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@sbgp.net | |
| SERVICES COMMENCED BY THIS FIRM: 02/15 | TOTAL CONSULTANT CONTRACT COST: \$550 (programmatic) |
| SERVICES COMPLETED BY THIS FIRM: Ongoing | COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM: \$540 (programmatic) |

The project consisted of engineering and construction administration services for the replacement of Magistrate Street Bridge, 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 project includes a full replacement of the existing two (2) – 96" corrugated metal pipe culverts with a 26'-0" wide clear span, precast concrete structure. Royal performed an existing conditions analysis, identified significant damages to pipe ends and breakage. Due to the extent of the damages, the project is eligible for replacement by FEMA. Royal conducted a cost analysis that ultimately justified the ConSpan Hazard Mitigation to replace it at a lower-cost. Engineering services and deliverables include civil engineering, detailed design plans, surveying, full hydraulic analysis, geotechnical, field layout, bidding, construction administration and management, resident inspection, close-out, comprehensive cost estimate, CPM schedule, contract document and bid package production, demolition/removal, replacing with precast concrete clear span con-span, driven timber piles, structural concrete grade beams, storm drainage, roadway/waterline/sanitary sewer replacement, canal cleaning/shaping, riprap with flowable fill, ADA ramps, sidewalks and incidental PCC pavement. Royal designed the interior height to provide the cross-sectional area required for the drainage and engineered the roadway grades to raise while simultaneously not exceeding the maximum longitudinal slope required. Royal also designed vertical curves into the changes in the profile of the roadway to provide a seamless transition from the new to pre-existing roadway grade.

KEY PERSONNEL: Michael Pugh, Beau Tate, Katherine Foreman, Carter O'Brien



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| FIRM NAME: Royal Engineers and Consultants, L.L.C. | PAST PERFORMANCE EVALUATION DISCIPLINE(S): Bridge |
| PROJECT NAME: Gallo Drive Bridge at 20 Arpent Canal | FIRM RESPONSIBILITY (PRIME OR SUB): Prime |
| PROJECT NUMBER: 2014 - 24 - 00 | OWNER'S NAME: St. Bernard Parish Government |
| PROJECT LOCATION: St. Bernard Parish, Louisiana | 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@sbpg.net | |
| SERVICES COMMENCED BY THIS FIRM: 02/15 | TOTAL CONSULTANT CONTRACT COST: \$550 (programmatic) |
| SERVICES COMPLETED BY THIS FIRM: Ongoing | COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM: \$540 (programmatic) |

The project consisted of engineering and construction administration services for the replacement of Gallo Drive Bridge, 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 project includes a full replacement of the existing two (2) – 60" concrete pipe culverts with a 26'-0" wide clear span, precast concrete structure. Royal performed an existing conditions analysis, identified significant damages to pipe ends and breakage. Royal conducted a cost analysis that ultimately justified ConSpan Hazard Mitigation to replace it at a lower-cost. Engineering services and deliverables include civil engineering, detailed design plans, surveying, full hydraulic analysis, geotechnical, field layout, bidding, construction administration and management, resident inspection, close-out, comprehensive cost estimate, CPM schedule, contract document and bid package production, demolition/removal, replacing with precast concrete clear span con-span, driven timber piles, structural concrete grade beams, storm drainage, roadway/waterline/sanitary sewer replacement, canal cleaning/shaping, riprap with flowable fill, ADA ramps, sidewalks and incidental PCC pavement. Royal designed the interior height to provide the cross-sectional area required for the drainage and engineered the roadway grades to raise while simultaneously not exceeding the maximum longitudinal slope required. Royal also designed vertical curves into the changes in the profile of the roadway 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 that the contractor produced and submitted all necessary insurance certificate, bond, and the schedule of values as per contract award.

KEY PERSONNEL: Michael Pugh, Beau Tate, Katherine Foreman, Carter O'Brien



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| FIRM NAME: Royal Engineers and Consultants, L.L.C. | PAST PERFORMANCE EVALUATION DISCIPLINE(S): CE&I/OV |
| PROJECT NAME: Plaza / Arpent Bridge | FIRM RESPONSIBILITY (PRIME OR SUB): Prime |
| PROJECT NUMBER: 2011 - 35 - 03 | OWNER'S NAME: St. Bernard Parish Government |
| PROJECT LOCATION: St. Bernard Parish, Louisiana | 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@sbpg.net | |
| SERVICES COMMENCED BY THIS FIRM: 11/13 | TOTAL CONSULTANT CONTRACT COST: \$125 |
| SERVICES COMPLETED BY THIS FIRM: 09/14 | COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM: \$125 |

Royal was hired by the St. Bernard Parish Government to provide engineering services for repairing, restoring, and/or replacing Parish-owned roadways and bridges to their Pre-Katrina condition, while preserving the historical value and intent of each facility. As part of this contract, Royal performed design and construction management services for the replacement of the Plaza /Arpent bridge. The existing culvert configuration was found to be inadequate to handle the increased flow of water during major rain events. The new bridge is 52 ft x 32 ft, and included removal and replacement of 400 sy of roadway pavement, 1250 ft concrete piles; and installation of 56 feet of concrete pipe, over 100 LF of guard rail, a handicap ramp, 5" rollover, 6" and 8" barrier concrete curb, and 190 LF of handrail. Engineering Services included civil engineering, design, surveying, geotechnical, field layout, bidding, construction administration, resident inspection, technical/engineering project close-out, construction management services. Royal produced detailed design plans, comprehensive cost estimates, and CPM schedules to execute its engineering design services. Royal also supported the bid and contract phase including assistance with bid advertisements, conducting pre-bid meetings and bid openings, populating bid tabulations and making award recommendations, preparing the owner/contractor draft agreements, assuring SBPG that the contractors produced and submitted all necessary insurance certificates, bonds, and the schedule of values as per each 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.

KEY PERSONNEL: Michael Pugh, Beau Tate



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| FIRM NAME: Royal Engineers and Consultants, L.L.C. | PAST PERFORMANCE EVALUATION DISCIPLINE(S): Bridge |
| PROJECT NAME: East Hardy Bridge Design & Replacement | FIRM RESPONSIBILITY (PRIME OR SUB): Subconsultant |
| PROJECT NUMBER: 2019-07 | OWNER'S NAME: SDW Consulting Engineers |
| PROJECT LOCATION: Hattiesburg, Mississippi | OWNER'S PROJECT MANAGER: John Weeks |
| OWNER'S ADDRESS, PHONE, EMAIL: 301 2nd Avenue, Hattiesburg, MS 36401 (601) 544-1821 john@sd-w.com | |
| SERVICES COMMENCED BY THIS FIRM: 06/19 | TOTAL CONSULTANT CONTRACT COST: \$15M |
| SERVICES COMPLETED BY THIS FIRM: Ongoing | COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM: \$764 |

The East Hardy Street Bridge is a two-lane bridge located on the Leaf River in Petal, MS that was identified for replacement through the Emergency Road and Bridge Repair Fund. The bridge was replaced with a two-lane bridge constructed adjacent to the existing structure. The existing bridge remained in service while construction of the new bridge is performed. Preliminary design services were initiated with review of site data available, which consisted of geotechnical investigation and engineering; topographic and boundary survey; existing bridge as-built plans; studies/analysis, environmental assessments, and conceptual road alignment plans pertaining to the project. Royal attended the pre-design conference to outline procedures and to discuss contract administration details, design criteria, and to open the floor for client comment and input. Basis of the engineering design was provided and included foundation type, geotechnical conditions, loading conditions, and span arrangements. Royal also provided a structural design basis and criteria document that compiled and summarized the structural design criteria to be used in the design of structure and foundations. Conceptual Design and Field Review Plans depicted all items to be constructed as well as the layout and basis of design for all foundations and superstructure. Drawings included preliminary bridge layout sheets, foundation plan, piling layout, span arrangement, roadway sections and layout, road profiles, typical sections, phase construction sheets, and an opinion of probable cost. Approval of Field Review Plans was received on schedule, triggering Final Design Services. Substructure and superstructure plans contain pile notes and bearing requirements, pile layout, all dimensions convenient to construction, sufficient cross section details, beam sizes, types and spacing, elevations & crown details, reinforcing details, pile bearing requirements, types and sizes, prestressing data where required, phase construction sheets, notes and proper cross referencing. All design computations, pertinent sketches, quantity estimates, preliminary construction schedule and required special provisions were also provided. Deliverables conform to applicable MDOT requirements and were prepared in accordance with all applicable codes.

KEY PERSONNEL: Michael Pugh, Beau Tate



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| FIRM NAME: Basin, L.L.C. | PAST PERFORMANCE EVALUATION DISCIPLINE(S): Survey |
| PROJECT NAME: 31st Street Road and Bridge Survey | FIRM RESPONSIBILITY (PRIME OR SUB): Subconsultant |
| PROJECT NUMBER: 2023-029-WRB | OWNER'S NAME: Jefferson Parish |
| PROJECT LOCATION: Kenner, LA | OWNER'S PROJECT MANAGER: Sidney Bazley |
| OWNER'S ADDRESS, PHONE, EMAIL: 1221 Elmwood Park Blvd., Suite 909, Jefferson, LA 70123 (504) 736-6742 sbazley@jeffparish.net | |
| SERVICES COMMENCED BY THIS FIRM: 01/23 | TOTAL CONSULTANT CONTRACT COST: \$52 |
| SERVICES COMPLETED BY THIS FIRM: 07/23 | COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM: \$52 |

Basin Engineering & Surveying (Basin) provided a full topographic survey of 31st Street in Kenner, LA inclusive of the 31st Street Bridge over the Duncan Canal. The project was done in preparation of waterline replacement along the roadway. The 31st Street Bridge is a pre-cast concrete structure with pre-cast concrete pile and girder supports. The bridge includes both pedestrian and vehicular traffic with handrails with additional support for sewer and water infrastructure attached to the side of the bridge. Traditional surveying methods including RTK GPS and Total Station equipment were utilized to collect information on the bridge surface, supports, and surrounding infrastructure.

KEY PERSONNEL: Wesley Eustis

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| FIRM NAME: Basin, L.L.C. | PAST PERFORMANCE EVALUATION DISCIPLINE(S): Survey |
| PROJECT NAME: Brazilier Island Survey over Jahncke Canal | FIRM RESPONSIBILITY (PRIME OR SUB): Prime |
| PROJECT NUMBER: 22-028 | OWNER'S NAME: Bryce French |
| PROJECT LOCATION: New Orleans, Louisiana | OWNER'S PROJECT MANAGER: Bryce French |
| OWNER'S ADDRESS, PHONE, EMAIL: 900 Camp Street Suite 404, New Orleans, LA 70130 (504) 410-8402 bryce.french@cbre.com | |
| SERVICES COMMENCED BY THIS FIRM: 01/22 | TOTAL CONSULTANT CONTRACT COST: \$20 |
| SERVICES COMPLETED BY THIS FIRM: 04/22 | COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM: \$20 |

Basin Engineering & Surveying (Basin) provided a full topographic survey of Brazilier Island in New Orleans, LA inclusive of the Brazilier Island Rd. Bridge over the Jahncke Canal. The project was done in preparation of redevelopment of the property. The Brazilier Island Rd. Bridge is a pre-cast concrete structure with pre-cast concrete pile and girder supports. The bridge includes vehicular traffic with guardrails with additional support for sewer and water infrastructure attached to the side of the bridge. Traditional surveying methods including RTK GPS and Total Station equipment were utilized to collect information on the bridge surface, supports, and surrounding infrastructure. In addition, drone LIDAR was used to collect topographic information.

KEY PERSONNEL: Wesley Eustis

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| FIRM NAME: Horizon Engineering, L.L.C. | PAST PERFORMANCE EVALUATION DISCIPLINE(S): Other (Structural) |
| PROJECT NAME: Mound Rest Area Improvements | FIRM RESPONSIBILITY (PRIME OR SUB): Subconsultant |
| PROJECT NUMBER: H.011446 | OWNER'S NAME: Delta Design Professionals L.L.C. (Prime Consultant) |
| PROJECT LOCATION: Mound, Louisiana | OWNER'S PROJECT MANAGER: Ken Free |
| OWNER'S ADDRESS, PHONE, EMAIL: 4141 Hwy.577, Winnsboro, LA 71295 (318) 729-9035 kenfree@deltadp.com | |
| SERVICES COMMENCED BY THIS FIRM: 09/24 | TOTAL CONSULTANT CONTRACT COST: Unknown |
| SERVICES COMPLETED BY THIS FIRM: 10/24 | COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM: \$10 |

The Mound Rest Area Improvements (Route I-20 Westbound) project will construct numerous pavilions and covered walkways throughout the site. Horizon Engineering, LLC (Horizon) analyzed the proposed architectural design (roof sheathing, rafters, purlins, columns, base plate/anchors, and associated connections) of pavilions/covered walkways PV1, PV3, PV4, PV5, CW1, and CW2 for gravity, wind, and seismic loads. Horizon prepared structural calculations for submittal to DOTD and structural details describing the anchorage of the pavilions to the foundations.

KEY PERSONNEL: John Karlin

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| FIRM NAME: Horizon Engineering, L.L.C. | PAST PERFORMANCE EVALUATION DISCIPLINE(S): Other (Structural) |
| PROJECT NAME: Independent Technical Review of Lakefront Pump Station Temporary Retaining Design | FIRM RESPONSIBILITY (PRIME OR SUB): Prime |
| PROJECT NUMBER: N/A | OWNER'S NAME: RNGD |
| PROJECT LOCATION: New Orleans, Louisiana | OWNER'S PROJECT MANAGER: Stephen Abadie |
| OWNER'S ADDRESS, PHONE, EMAIL: 1730 Tchoupitoulas Street, New Orleans, LA 70130 (504) 620-8022 sabadie@rngd.com | |
| SERVICES COMMENCED BY THIS FIRM: 05/24 | TOTAL CONSULTANT CONTRACT COST: \$22 |
| SERVICES COMPLETED BY THIS FIRM: 06/24 | COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM: \$22 |

Horizon Engineering, LLC (Horizon) performed an independent technical review (ITR) of the Lakefront Airport pump station temporary retaining structure (TRS) design. The TRS is required to facilitate construction of an approximately 123'x43'x28' deep reinforced concrete reservoir for a future 600 CFS pump station. The TRS is used to stabilize a 45' deep excavation in soft clays outside of flood protection prior to construction of the seal slab and reservoir. Horizon reviewed the TRS design and calculations and associated plans, specifications, geotechnical report, and construction phase geotechnical investigation information. Horizon prepared independent calculations for approximate TRS force effects and TRS components, including sheeting, walers, and struts, and a report summarizing the independent technical review.

KEY PERSONNEL: John Karlin and Ben Bartlett

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| FIRM NAME: Horizon Engineering, L.L.C. | PAST PERFORMANCE EVALUATION DISCIPLINE(S): Traffic |
| PROJECT NAME: Temporary Traffic Control Plans for Coating of Ramps 6, 7, and Overpass of Causeway Boulevard at Airline Drive | FIRM RESPONSIBILITY (PRIME OR SUB): Prime |
| PROJECT NUMBER: N/A | OWNER'S NAME: Royal Bridge, Inc. |
| PROJECT LOCATION: Metairie, LA | OWNER'S PROJECT MANAGER: Emmanuel Chrysakis |
| OWNER'S ADDRESS, PHONE, EMAIL: 3601 Alt 19 North, Palm Harbor, FL 34683 (727) 934-6042-1802 emmanuel@royalbridgeinc.com | |
| SERVICES COMMENCED BY THIS FIRM: 10/24 | TOTAL CONSULTANT CONTRACT COST: \$8 |
| SERVICES COMPLETED BY THIS FIRM: 11/24 | COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM: \$8 |

The Causeway Blvd./Airline Dr. Interchange was originally constructed in the 1950s and consists of 8 ramps, a 4-lane overpass, and an elevated traffic circle. Horizon Engineering, LLC prepared temporary traffic control (TTC) plans to facilitate the coating of Ramps 6 and 7 and the Overpass and installation of associated temporary works, such as containment systems and work platforms. The TTC plans include lane closures, full road closures, and associated detours involving federal highways, state highways, and local streets, including Airline Dr. (US 61) and Causeway Blvd. (LA 3046). The TTC plans were prepared in accordance with the Manual on Uniform Traffic Control Devices (MUTCD), Louisiana Standard Specifications for Roads and Bridges (LSSRB), and DOTD Temporary Traffic Control Standard Plans.

KEY PERSONNEL: Ben Bartlett, John Karlin, and Brett Liuzza

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| FIRM NAME: ELOS Environmental, L.L.C. | PAST PERFORMANCE EVALUATION DISCIPLINE(S): Environmental |
| PROJECT NAME: LADOTD Rural Bridges: Phases I & II | FIRM RESPONSIBILITY (PRIME OR SUB): Subconsultant |
| PROJECT NUMBER: Multiple H No. | OWNER'S NAME: DOTD |
| PROJECT LOCATION: Statewide, Louisiana | OWNER'S PROJECT MANAGER: Brian Allen |
| OWNER'S ADDRESS, PHONE, EMAIL: 1201 Capitol Access Road, Baton Rouge, LA (225) 379-1840 brian.allen@la.gov | |
| SERVICES COMMENCED BY THIS FIRM: 08/20 | TOTAL CONSULTANT CONTRACT COST: Unknown |
| SERVICES COMPLETED BY THIS FIRM: Ongoing | COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM: \$541.8 |

ELOS has been contracted by BKI to provide professional environmental consulting services for the Louisiana Department of Transportation and Development (LADOTD) Rural Bridge Replacement Initiative for two project phases. Phase I involved bridge replacements under 16 state project numbers and supplemental task orders, impacting 33 structures in Districts 03, 07, 61, and 62. Phase II is ongoing and involves bridge replacements under 9 state project numbers and supplemental task orders, impacting multiple structures in Districts 05, 08, and 58. Almost all the projects have included wetland delineations, permit applications, cultural resource surveys, and threatened and endangered species surveys. ELOS has also assisted in the early planning stages of some of these projects to identify any possible adverse economic, social, or environmental effects or concerns.

PROJECT NUMBERS: H.013952, H.013955, H.013956, H.013957, H.013958, H.013959, H.013963, H.013966, H.013968, H.013970, H.013976, H.013982, H.013984, H.013989, H.013996, H.013997 (Phase I) and H.014242, H.014243, H.014245, H.014246, H.014247, H.014248, H.014249, H.014250, H.014268, H.015685 (Phase II)

ELOS has performed all environmental services according to the standards of the Federal Highway Administration (FHWA). Permits have been coordinated through several federal and state agencies including joint applications to the USACE and the Louisiana Department of Energy and Natural Resources (LDENR) / Office of Coastal Management, Scenic Rivers permits through the Louisiana Department of Wildlife & Fisheries, and cultural resource surveys in coordination with the Louisiana State Historic Preservation Office. ELOS also has personnel recently trained in the tricolored bat identification and surveys, which have been used for some of these bridge replacement projects.

KEY PERSONNEL: Brian Fortson, Cory Ricks



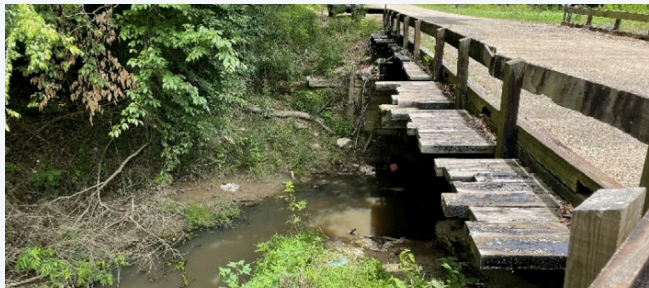
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| FIRM NAME: ELOS Environmental, L.L.C. | PAST PERFORMANCE EVALUATION DISCIPLINE(S): Environmental |
| PROJECT NAME: Tangi-Off System Bridge Prioritization | FIRM RESPONSIBILITY (PRIME OR SUB): Subconsultant |
| PROJECT NUMBER: Multiple H No. | OWNER'S NAME: Tangipahoa Parish |
| PROJECT LOCATION: Tangipahoa Parish, Louisiana | OWNER'S PROJECT MANAGER: Dennis Hymel (Crescent Engineering & Mapping, L.L.C.) |
| OWNER'S ADDRESS, PHONE, EMAIL: PO Box 370, Vacherie, LA (985) 257-6581 dennis.hymel@crescentengla.com | |
| SERVICES COMMENCED BY THIS FIRM: 03/22 | TOTAL CONSULTANT CONTRACT COST: \$120 |
| SERVICES COMPLETED BY THIS FIRM: Ongoing | COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM: \$78 |

The DOTD Off-System Bridge Replacement program focuses on replacing or rehabilitating bridges that are located on roads not part of the state highway system. These bridges typically serve local and rural areas, providing essential infrastructure for communities. Tangipahoa Parish is a participating parish with a list of qualified structures. The program is designed to address structural deficiencies, improve safety, and ensure compliance with modern design and environmental standards. It involves the evaluation, planning, and execution of bridge replacements to enhance transportation networks while minimizing disruptions to the affected communities.

PROJECT NUMBERS: H.015407, H.015333, H.015404

ELOS is currently contracted to provide all professional environmental services as required to provide the documentation necessary for a Categorical Exclusion from the Federal Highway Administration (FHWA). This includes preparing a Categorical Exclusion (CE) Document, both preliminary and final, which assesses potential environmental impacts and supports exclusion from more extensive reviews under the National Environmental Policy Act (NEPA). The Wetland Findings Report evaluates the presence and impact of wetlands on the project sites, identifying mitigation measures if needed. Additionally, the preparation and submission of a US Army Corps of Engineers (USACE) Permit application ensures that the project complies with federal regulations governing activities that affect wetlands and waters of the U.S., including wetland delineations and necessary coordination with regulatory agencies. These services collectively ensure environmental compliance and smooth project execution. ELOS is handling the solicitation of views, preparing the CE document in compliance with NEPA guidelines, and addressing potential environmental impacts such as wetlands, endangered species, hazardous materials, and more. The CE document includes detailed assessments of project alternatives, impacts, and coordination with stakeholders. We are also conducting a Wetland Findings Report, including wetland delineation, vegetation analysis, and impact quantification. Additionally, ELOS is preparing and submitting the US Army Corps of Engineers (USACE) Nationwide Permit application to meet all regulatory requirements. All deliverables, including the CE document, Wetland Findings Report, and permit application, are being prepared in accordance with FHWA and DOTD standards, with high-resolution photographs, maps, and comprehensive environmental documentation.

KEY PERSONNEL: Brian Fortson, Cory Ricks



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| FIRM NAME: ELOS Environmental, L.L.C. | PAST PERFORMANCE EVALUATION DISCIPLINE(S): Environmental |
| PROJECT NAME: Off System Bridges 2023 Group 1 | FIRM RESPONSIBILITY (PRIME OR SUB): Subconsultant |
| PROJECT NUMBER: Multiple H No. | OWNER'S NAME: DOTD |
| PROJECT LOCATION: East Baton Rouge Parish, Louisiana | OWNER'S PROJECT MANAGER: Dennis Hymel (Crescent Engineering & Mapping, L.L.C.) |
| OWNER'S ADDRESS, PHONE, EMAIL: PO Box 370, Vacherie, LA (985) 257-6581 dennis.hymel@crescentengla.com | |
| SERVICES COMMENCED BY THIS FIRM: 04/23 | TOTAL CONSULTANT CONTRACT COST: \$34 |
| SERVICES COMPLETED BY THIS FIRM: Ongoing | COST OF CONSULTANT SERVICES PROVIDED BY THIS FIRM: \$29 |

The purpose of the Off-System Bridges Program is to replace or rehabilitate structurally deficient or functionally obsolete parish structures in a cost-efficient manner and to provide design, detailed plans, and construction for replacement projects with an emphasis on meeting the minimum design standards set by the Louisiana Department of Transportation and Development (DOTD) and Federal Highway Administration (FHWA). All parishes are eligible to participate in the program. Every two years, participating parishes are provided with a list of qualified structures, estimated replacement costs, specific instructions, and the parishes' available funds.

PROJECT NUMBERS: H.014993.5, H.014992.5, H.014980.5

ELOS is contracted to provide a range of environmental and regulatory services, including the preparation and management of solicitation of views (SOVs), where we handle solicitation, receipt, and organization of agency and stakeholder feedback and document compliance with various local, state, and federal regulations, including threatened and endangered species, cultural and historic resources, and floodplain mitigation. This documentation provides the foundation for the categorical exclusion of project activities, namely the bridge replacements and related construction activities, to show how the project will not adversely impact people or the environment. ELOS has also assisted with environmental checklists to assess potential project impacts, conducted wetland studies with detailed reporting on environmental conditions and using the FHWA criteria and DOTD report standards, and obtained preliminary jurisdictional determinations, working with regulatory agencies to determine federal jurisdiction over wetland and waterbody areas. Our services ensure compliance with environmental laws and regulations throughout the project lifecycle.

KEY PERSONNEL: Brian Fortson, Cory Ricks



Provide a description of how the work will be performed **and provide the proposed project schedule**. Include any additional information or description of unique resources that are planned to be used to produce the deliverables. Include any proprietary technologies, methods or approaches that will be used on this project to improve quality or efficiency. If the proposal is for an IDIQ contract, the consultant should review the scope of services in Attachment A to the advertisement to obtain a general understanding of what a typical task order would entail. Based upon that understanding, the consultant should provide a sample schedule that identifies the major milestones, deliverables, tasks, etc., to demonstrate sufficient understanding of a typical task order. The duration of the task order is not required. This section shall be limited to four pages. **If more than four pages are included, all pages after the fourth page will not be evaluated. If the consultant has information it believes is proprietary, label it accordingly.**

PROJECT UNDERSTANDING

Royal understands that DOTD wishes to replace the existing concrete bridge over Chauvin Bayou (also referred to as Bayou Petit Gaillou) on Moffet Road near Houma, LA, an urban, high-traffic area within Terrebonne Parish, LA. The approaches are asphalt roadway with open ditch drainage. The bridge site has several visible above ground, underground, and overhead utility crossings, which will require consideration during design and coordination with Terrebonne Parish Representatives. The Royal Team is familiar with bridge projects of similar scope and magnitude.

TEAMING APPROACH

The scope of this OSBR contract will require specific expertise and a distinct familiarity with DOTD's standards, processes, and documentation. To address all scope of work requirements, Royal has assembled a team that have successfully completed projects similar to those listed in the advertisement and who are positioned to interface daily with the DOTD Project Manager, the OSBR Program Manager, the Parish, as well as other project stakeholders. Our team consists of a diverse group of professionals with extensive experience delivering roadway and various other project types for DOTD, within Terrebonne Parish, and throughout the State.

As detailed below, each team member brings specific expertise to ensure project success.

As Prime, Royal will lead all bridge design, engineering, and environmental services. Royal's civil/structural engineers are experienced in the disciplines required for this project, have worked on DOTD bridges (as consultants and DOTD employees), and have collaborated closely with Parish officials on numerous bridge and roadway replacement and rehabilitation projects.

Subconsultant Basin LLC (Basin) will lead and perform all surveying activities with support from Royal. Basin's professional land surveyors and survey crews have conducted all required surveying activities on roadway and bridge projects in the Greater New Orleans area, and specifically St. Bernard Parish.

Subconsultant Horizon Engineering, LLC (Horizon) will serve as DOTD bridges subject matter experts, provide design support, and participating in technical and QA/QC reviews. influence project layout, conceptual design, and completion of 50% plans. Horizon's staff Engineers have over 35 years of combined experience delivering successful infrastructure projects across Louisiana, including numerous projects for DOTD.

Subconsultant ELOS Environmental, LLC (ELOS) will perform wetland studies and prepare a report of findings. ELOS has provided Environmental Consultation and Guidance services throughout southeast Louisiana since 2006. The proximity of this project to ELOS's Thibodeaux location will allow for efficient completion of field investigations.

PROJECT KICKOFF

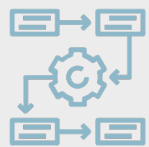
Upon Notice of Award (NOA), Royal will be ready to mobilize and initiate design services. We will start by

WHY ROYAL?



PROXIMITY TO PROJECT

Our field office is located less than five miles from the project site.



PROCESSES & PROCEDURES

Our team includes employees who have all worked on DOTD projects for over 15 years



BRIDGE PROJECTS

Our team has completed bridge design in numerous coastal parishes.

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, Terrebonne Parish, utility companies, our environmental subconsultant ELOS and our surveying subconsultant Basin present to clarify the project limits and to identify any potential design concerns.

Topics of discussion at the kickoff meeting will include:

- » Clarifying project scope and extent with the Entity.
- » Request existing project information such as design or as-built drawings of Moffett Road and existing infrastructure such as the existing bridge, drainage features, and utilities.
- » The existing roadway and bridge do not have sidewalks; we will verify whether pedestrian facilities are desired by the Parish determine feasibility of complying with the Complete Streets guidelines.
- » Identify potential project issues including:
 - Numerous above ground, underground and overhead utility crossings are located near the project site.
 - Potential relocations will be discussed with the Parish and utility owners.
 - Existing ditches and outfall culverts are located in close proximity to the existing bridge and there is scouring present.
 - Design will incorporate drainage outfall modifications to prevent future undermining of the new bridge and permanent erosion control measures will be utilized to stabilize canal banks.
 - Whether a detour bridge will be necessary during construction.

STAGE 3, PART 1: TOPOGRAPHIC SURVEY

- » After the initial site visit, Royal and Basin will begin the survey phase of the project. Basin will perform the Topographic Survey per the Off System Bridge Guidelines and the DOTD Location & Survey Manual.
- » Basin will then perform a centerline and cross-section survey capturing the topography of the existing bridge and roadway within 500 ft of each end of the bridge and 25 ft beyond the existing/apparent R/W. Stream topography will also be captured within 150 ft upstream and downstream of the bridge, at minimum, with sufficient information captured for Royal to perform hydraulic analyses.
- » The survey will include all existing structures, large trees within the project area, horizontal and vertical control, utility data, existing/ apparent R/W, and bridge features such as gutter lines, center bents, and low chords. Also, included in the survey will be any known existing utilities to be accommodated during design.
- » If R/W Services are determined to be required during the design process, Basin will also provide a property survey, base R/W maps, and title take-offs.

STAGE 3, PART 2: SUBMISSION

All final survey submittals to LADOTD will be packaged and provided in accordance with the off-system bridge guidelines. The survey shall be completed within 30 days of the NTP and given to LADOTD for review.

STAGE 3, PART 3: PRELIMINARY PLANS

After completing and accepting the survey phase, Royal, Horizon, and ELOS will begin Part 3 of the project. Part 3 primarily consists of the Hydraulics Report, preliminary plans, and environmental clearance. Estimated timelines for completion of tasks and deliverables are included in the Sample Schedule on the next page.

Hydraulics Report:

- » Royal will perform hydraulic studies for the bridge site and prepare a hydraulic report including any viable alternates such as a bridge, reinforced concrete box culverts, or other Cross Drain Pipe options.
- » The hydraulic studies and proposed designs will be per the 2011 DOTD Hydraulics Manual, as modified by the Hydraulics Guidelines for Off System Bridges. Royal will begin the hydraulic study by gathering available hydraulic data, such as existing bridge plans, flood studies, gage data, and effective FIRM HEC-RAS

models from DOTD, the Parish, and other entities.

- » Royal will delineate the floodplain for the channel using available topographic maps and LiDAR elevation data. Design discharge at the crossing site will be determined using the USGS or NRCS Method under Chapter 3 of the DOTD Hydraulics Manual, depending on the size of the drainage area.
- » The design criteria will be the lesser of the 25-year flood or the overtopping discharge.
- » Royal will then perform a hydraulic analysis using HEC-RAS to establish an existing conditions model and proposed bridge design alternatives models.
- » The topographic survey data of the channel obtained by Basin will be utilized as input cross-sectional data for the model.
- » The proposed conditions models will be compared against the existing conditions model to ensure backwater requirements are met.
- » The project is located in a FEMA Flood Zone AE, so a No-Rise is not anticipated.
- » Bridge scour will be estimated per FHWA's "Evaluating Scour at Bridges" (HEC-18). Efforts will be made throughout design to minimize the effects of scour and preventative/protective measures will be incorporated into the design.

50% Completion:

- » Concurrently to the Hydraulics report, Royal, with the assistance of Horizon, will begin the initial project layout and design review using Horizon's extensive staff experience with bridges of this structure type, size, span, geography, and crossing type.
- » This initial design will allow for a more rapid adjustment toward a completed preliminary design during the receipt and approval of the survey and hydraulic data, rather than a linear timeline for the design that would not begin until all data is collected and approved.
- » To improve design efficiency and consistency with other state projects, standard bridge plans will be considered foremost in the design. However, should standards fail to satisfy the requirements of the project, a site-specific design will be utilized.
- » Royal will also identify, design, and layout the necessary preliminary traffic detour plans associated with the construction efforts, which may require more than one traffic plan or detour route depending on the need for multiple phases of construction identified in the early design review.
- » Quite often, complications with traffic design have an impact on bridge design specifics. Therefore, we believe it is pertinent to review the potential for complications as part of a larger effort than just the required construction signage.

Solicitation of Views / Environmental - Pre Plan in Hand Meeting:

The environmental process will play a significant role in the delivery of the project on schedule.

- » To minimize or eliminate environmental impact, Royal will attempt to utilize as much of the existing structure's footprint as possible within the design.
- » Once the preliminary layout of the bridge replacement design has been accepted, ELOS will perform a site investigation using the latest Corps of Engineers Wetland Delineation Manual.
- » The site investigation will be confirmed with aerial base maps, and wetlands within the project footprint will be reported.
- » Pictures, soil samples, plant communities, hydrology, and other pertinent information will be noted in the Wetland Determination Data Form as required. The report of wetland findings will be submitted to the U.S Army Corps of Engineers.
- » After approval of the replacement structure and before the submission of the PIH plans, Royal will begin the Solicitation of Views (SOV), which will be mailed to all required Parish, governmental agencies, and private parties, as shown on the roster provided by LADOTD.
- » Upon receiving responses to the SOV, Royal will prepare the Categorical Exclusion Document as required.

Plan in Hand – Post Plan in Hand - Environmental Submission:

- » After a successful Plan in Hand meeting, Royal will incorporate any final revisions into the preliminary plans.
- » Once final grades and alignment are determined, the R/W requirements will be submitted to the Program Coordinator.
- » The final Environmental clearance package will be submitted to the Program Coordinator. The final preliminary bridge plans will include the Typical Section, Plan and Profile, Drainage Map, Construction Signing Sheet, General Bridge Plan, Cross-sections, and Design Waiver and Exception Forms.

» Additional Services (if required)

Final Plans:

The Final Plans stage, if required, will commence following completion of the Environmental Clearance process.

Construction:

- » Royal will provide LADOTD with support during the construction phase, as needed.
- » After award of the contract Royal will plan to attend the pre-construction meeting and any necessary progress meetings.
- » Royal will be available for RFIs, shop drawings, and change reviews during the construction phase.

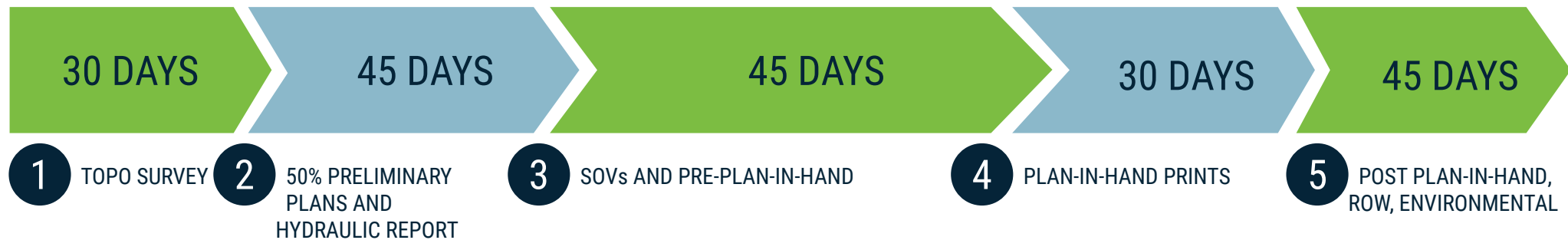
CLOSING

The Royal Team has completed numerous projects in the Terrebonne Parish and South Louisiana area and has decades of experience with projects of similar scope and magnitude. We are prepared to bring the necessary resources, experience, and expertise to deliver this project quickly and with excellent quality. The Royal team appreciates the review of our proposal and consideration for this project and we look forward to working with DOTD.

PROJECT SCHEDULE

The Project Schedule offered below represents the typical schedule for initial services for OSBR Program projects. The scheduled durations do not include review periods by DOTD.

Typical Schedule: Off-System Highway Bridge Program: Moffet Road Over Chauvin Bayou, Terrebonne Parish



PROJECT LOCATION

Contract No.: 4400030633 Off-System Highway Bridge Program: Moffet Road Over Chauvin Bayou, Terrebonne Parish



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. * The only past performance evaluation disciplines to be used are: **Appraiser, Bridge, CE&I/OV, CPM, Data Collection, Environmental, Geotech, ITS, Other (must specify), Planning, Right-of-Way, Road, Survey, and Traffic.** 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.**

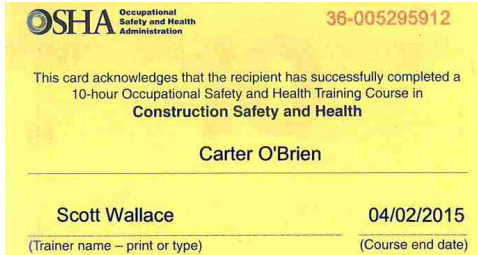
| FIRM(S) (ALL FIRMS must be represented in this table) | PAST PERFORMANCE EVALUATION DISCIPLINE(S)* | CONTRACT NO. & STATE PROJECT NO. | PROJECT NAME | REMAINING UNPAID BALANCE ** |
|--|--|----------------------------------|--|--------------------------------|
| Royal Engineers and Consultants, L.L.C. | Road, Bridge | 4400024593, H.015009.5 | LADOTD OSBR West Metairie Ave Bridge | N/A |
| | CE&I/OV | 4400028466, H.015504.6 | Crescent City Connection Decorative Lighting Project | \$159,169 |
| | | 4400024438, H.010673 | Harvey Tunnel Rehabilitation | \$283,184 |
| | | 4400027010, H.015018.5 | Entity Contract for Lafayette Parish Non-State PVMT Markings | N/A |
| Horizon Engineering, L.L.C. | N/A | N/A | N/A | N/A |
| Basin, L.L.C. | N/A | N/A | N/A | N/A |
| ELOS Environmental, L.L.C. | Environmental | 44-0019337 / H.014242 | LA-124 Big Branch, Sandy, Godfrey, Beech Bridges | N/A |
| | | 44-0019337 / H.014243 | LA-472 Indian and Big Bear Creek | N/A |
| | | 44-0019337 / H.014245 | LA-119 Bayou Pierre and Creek Bridges | \$15 |
| | | 44-0019337 / H.014246 | LA-1199 Creeks & Spring Creek | \$19 |
| | | 44-0019337 / H.014247 | LA-399 Creeks, Little 6 Mile Creek, Flat Branch | \$45 |
| | | 44-0019337 / H.014247.5 | LA-399 Bridges – Supplemental Task Order | N/A |
| | | 44-0019337 / H.014248 | LA-124 Creeks, Broke Leg Bayou, Boggy Bayou | \$14 |
| | | 44-0019337 / H.014248.5 | LA-124 On site Detours - Supplemental Task Order | \$308 |
| | | 44-0019337 / H.014249 | LA-126 Creek | \$849 |
| | | 44-0019337 / H.014242.5 | LA-124 Bridges/Detours – Supplemental Task Order | \$21,473 |
| | | 44-0019337 / H.014250 | LA-577 Bull Bayou and Creek Bridges | \$38 |
| | | 44-0019337 / H.014268 | LA-4 Creeks, Bear, Squirrel, Sugar, Bill's and Lost Creek Relief | \$30 |

| | | | | |
|----------------------------|---------------|-------------------------|---|----------|
| ELOS Environmental, L.L.C. | Environmental | 44-0019337 / H.014268.5 | LA-4 Creeks, Bear, Squirrel, Sugar, Bill's and Lost Creek Relief – Additional Tasks | \$278 |
| | | 44-0019337 / H.014245.5 | LA-119 Bayou Pierre and Creek Bridges – Additional Tasks | N/A |
| | | 44-0019337 / H.015685.5 | EWL 6 | \$104 |
| | | 44-0027734 / H.014362 | Lake Road in St. Tammany Parish | \$22,877 |
| | | 44-0024593 / H.015009 | OSBR West Metairie Ave Bridge, South Suburban Canal | N/A |
| | | 44-0025041 / H.015429 | Carroll Ave, Middle Colyell Creek - IIJA Off-System Bridges District 62 | \$61 |
| | | 44-0025041 / H.015430 | Hood Rd, Middle Colyell Creek - IIJA Off-System Bridges District 62 | \$51 |
| | | 44-0025041 / H.015431 | Sawmill Rd, Unnamed Creek - IIJA Off-System Bridges District 62 | \$53 |
| | | 44-0025041 / H.015432 | M. Williams Rd, Spring Creek - IIJA Off-System Bridges District 62 | \$53 |
| | | 44-0025041 / H.015433 | George Jenkins Rd, Berrys Creek - IIJA Off-System Bridges District 62 | \$64 |
| | | 44-0019337 / H.015434 | Mitch Rd, Peters Creek - IIJA Off-System Bridges District 62 | \$49 |
| | | 44-0029337 / Several H | DOTD Phase II Rural Bridge Replacement – Total | \$22,777 |
| | | 44-0021326 | DOTD Stage 0 IDIQ | \$2,760 |
| | | 44-0025041 / Several H | DOTD IIJA Off-System Bridges District 62 - Total | \$3,087 |

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

ROYAL ENGINEERS AND CONSULTANTS, L. L. C.

ALEC CARTER O'BRIEN, PE



This is to certify that

Alec O'Brien

has successfully completed the requirements for the
NRMCA Previous Concrete Certification Program,
and is duly recognized as a

Previous Concrete Technician



March 11, 2021

Alec O'Brien
Royal Engineering
4298 Elysian Fields Ave
New Orleans LA 70122

Dear Alec:

Congratulations! This letter is to inform you that you have successfully passed from NRMCA's Previous Concrete Certification Exam conducted by the Online on February 25, 2021 thereby earning your Previous Technician Certification. Your score for the written exam is as follows:

Previous Concrete Contractor Exam Score 96%

The required passing score is 75%. Your Previous Concrete Technician Certification is valid for five years; it expires February 24, 2026.

Please note that your examination scores are sent directly to you. Specific exam results will not be sent to your employer unless requested. However, should your employer contact NRMCA in writing regarding your certification status, we will provide your pass/fail results upon their request.

If you have any questions regarding your exam results, please contact me at (703) 706-4854 or by email at sdickens@nrmca.org.

Sincerely,

Shawna Dickens
Shawna Dickens
Manager, Certification Programs

ENCLOSURE: Previous Concrete Technician certificate

Thomas L. Ervin
Traffic Doc, LLC
269 Evangeline Drive
Mandeville, LA 70471-1894
Phone 985-373-0534

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 - Meaghan Faherty, Ryan Schellhaas, & David Schroeder

LA Specific Traffic Control Supervisor (TCS) - 12-2-21 - Meaghan Faherty, Ryan Schellhaas & David Schroeder

LA Specific Traffic Control Supervisor Refresher (TCS Refresher) 12-3-21 - Christopher Barrilleaux & 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. Ervin
Thomas L. "Tom" Ervin - ATSSA Master Instructor

KATHERINE FOREMAN, PE



HORIZON ENGINEERING, L.L.C.

JOHN KARLIN, SE, PE

Certificate of Completion
presented to
John Karlin
for completing the
**Traffic Engineering Analysis Process & Report Class
Module 1, 2 & 3**

Date: August 11 – 12, 2021 Professional Development
Location: Baton Rouge, Louisiana Hours (PDHs) Awarded: 8.50

[Signature]
Authorized Instructor

[Signature]
Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & INFRASTRUCTURE

ATSSA TRAINED

PROOF OF TRAINING
THIS CERTIFICATE HEREBY RECOGNIZES THAT

John Karlin
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

2/18/2022 to 2/18/2026
Training Valid Through

New Orleans, LA
Location

[Signature]
Director of Training
John T. Purcell
President, CEO

ATSSA provides training and certification for further education employment by ATSSA.

ATSSA
American Traffic Safety Services Association ATSSA.com

ATSSA American Traffic Safety Services Association
SAFER. HONOR. SAVE. LIVES.

This is to affirm that

JOHN KARLIN
has satisfied the requirements to be designated as a
CERTIFIED FLAGGER

Issue Date 4/12/2022 Instructor Name Debbie Purcella
Exp. Date 4/12/2026
State Issued LA Instructor Signature *[Signature]*
V0000047355 Verify at Flagger.com

BEN BARTLETT, PE, PTOE

Certificate of Completion
presented to
Benjamin Bartlett
for completing the
**Traffic Engineering Analysis Process & Report Class
Module 1, 2 & 3**

Date: August 11 – 12, 2021 Professional Development
Location: Baton Rouge, Louisiana Hours (PDHs) Awarded: 8.50

[Signature]
Authorized Instructor

[Signature]
Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & INFRASTRUCTURE

Transportation Professional Certification Board, Inc.

certifies that
Benjamin M. Bartlett
has met all of the requirements established by the Certification Board
to use the title of
Professional Traffic Operations Engineer
unless withdrawn by the Certification Board and subject to the provisions for renewal.
Certificate number 4020 issued in Washington, D.C., 10/1/16
312913016

[Signature]
Linda M. White
Chair

PTCB
PROFESSIONAL TRAFFIC CERTIFICATION BOARD

[Signature]
Jeffrey T. Purcell
Executive Director

ATSSA TRAINED

PROOF OF TRAINING
THIS CERTIFICATE HEREBY RECOGNIZES THAT

Benjamin Bartlett
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

2/18/2022 to 2/18/2026
Training Valid Through

New Orleans, LA
Location

[Signature]
Director of Training
John T. Purcell
President, CEO

ATSSA provides training and certification for further education employment by ATSSA.

ATSSA
American Traffic Safety Services Association ATSSA.com

ATSSA American Traffic Safety Services Association
SAFER. HONOR. SAVE. LIVES.

This is to affirm that

BEN BARTLETT
has satisfied the requirements to be designated as a
CERTIFIED FLAGGER

Issue Date 3/28/2022 Instructor Name Debbie Purcella
Exp. Date 3/28/2026
State Issued LA Instructor Signature *[Signature]*
V0000046657 Verify at Flagger.com

LOUISIANA STATE CIVIL SERVICE

acknowledges that
Benjamin Bartlett
has successfully completed the training course:
CPTP SCS Cybersecurity WBT
on
May 02, 2022

This document is intended to be used solely for the purpose of
documenting the individual's completion of
SCS web-based training:
CPTP SCS Cybersecurity WBT



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| Name | Type | City | Status |
|---|---------------------------|-------------|--------|
| ROYAL ENGINEERS AND CONSULTANTS, L.L.C. | Limited Liability Company | NEW ORLEANS | Active |

Previous Names

Business: ROYAL ENGINEERS AND CONSULTANTS, L.L.C.
Charter Number: 36013193K
Registration Date: 9/12/2005

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| Name | Type | City | Status |
|--------------------------|---------------------------|----------|--------|
| HORIZON ENGINEERING, LLC | Limited Liability Company | METAIRIE | Active |

Previous Names

Business: HORIZON ENGINEERING, LLC
Charter Number: 45713383K
Registration Date: 12/14/2023

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| Name | Type | City | Status |
|-------------------------|---|------------|--------|
| ELOS ENVIRONMENTAL, LLC | Limited Liability Company (Non-Louisiana) | WILMINGTON | Active |

Previous Names

Business: ELOS ENVIRONMENTAL, LLC
Charter Number: 45643772Q
Registration Date: 10/19/2023

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| Name | Type | City | Status |
|-----------|---------------------------|-------------|--------|
| BASIN LLC | Limited Liability Company | NEW ORLEANS | Active |

Previous Names

Business: BASIN LLC
Charter Number: 44464485K
Registration Date: 6/14/2021

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.

See attached.



Quality Assurance/Quality Control Plan

Contract No. 4400030633

Off System Highway Bridge Program

Moffet Road Over Chauvin Bayou

State Project No. H. 015940.5

Federal Aid Project No. H015940

Terrebonne Parish

PREPARED FOR



PREPARED BY

ROYAL ENGINEERS AND CONSULTANTS, L.L.C.

1501 RELIGIOUS ST, STE. C

NEW ORLEANS, LOUISIANA 70130

PHONE: (504) 283-9400

FAX: (504) 283-9001

January 15, 2025

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SUMMARY OF ROYAL'S QA/QC GOAL

Royal Engineers and Consultants, L.L.C. (Royal) and its design team have completed numerous successful bridge designs. Royal will be the primary designer on the project handling the design with Horizon Engineering, LLC's assistance. Royal will utilize LADOTD's Bridge design QC/QA process along with its internal checklists, processes, and procedures that meet or exceed the requirements of this project.

Royal's goal as with any project is to provide the highest standard design in a timely and cost-effective manner. In order to accomplish this Royal has developed this Quality Control – Quality Assurance plan with the ultimate goal of delivering a quality set of construction plans that will minimize or eliminate errors. Royal understands that QC/QA is the responsibility of the consultant and that LADOTD has no obligation to insure the quality of plans prepared by consultants.

GLOSSARY

Quality Assurance (QA): Procedures of reviewing the work to ensure the quality controls are in place and effective in preventing mistakes, and consistency in the development of bridge design plans and specifications; those actions, procedures, and methods employed at the management and senior technical levels to observe and ensure that prudent quality procedures are in place and are being carried out and that the desired result of a quality product is achieved.

Quality Control (QC): Procedure for checking the accuracy and consistency of the calculations and the drawings, detection and correcting design omissions and errors before the design plans are finalized and verifying the specification for the load-carrying members are adequate for the service and operation loads.

Designer: Engineer directly responsible for the development of design calculations, drawings, special provisions and cost estimates. Must be either a licensed professional engineer or engineer intern.

Design Checker: Engineer responsible for performing a full technical review of the design calculations, special provisions, drawings, and cost estimates. Must be either a licensed professional engineer or engineer intern, however, if the designer is an engineer intern the design checker must be a professional engineer.

Detailer: Individual responsible for preparing drawings. This individual/s is responsible for development of the drawing through the use of required CAD technology.

Detail Checker: Engineer responsible for performing a full technical and accuracy review of prepared details/drawings.

Reviewer: Engineer responsible for ensuring that the QC process has been followed as outlined. The Reviewer is responsible for ensuring that submittals are complete and in accordance with LADOTD Bridge Design practices, policies and procedures.

Red Team Review: Internal team review prior to each submission phase after completion of initial QC and QA reviews. Comments from review to be incorporated into plans prior to submittal.

Engineer of Record: Qualified Engineer responsible for stamping the Final set of Plans and assuring that QC/QA certification is signed by all responsible parties.

DESIGN TEAM

The designers and QC/QA Personnel are clearly identified in the table below. The team is highly qualified to perform the work.

QA/QC Plan

Prime Consultant: Royal Engineers and Consultants, L.L.C.

| Title/Role | Name | Company |
|-----------------------------|---------------------------|---------------------|
| Engineer of Record | Katherine Foreman, P.E. | Royal |
| Designer (Hydraulics/Civil) | Katherine Foreman, P.E. | Royal |
| Designer (Structural) | Katherine Foreman, P.E. | Royal |
| Checker (Hydraulics/Civil) | Beau Tate, P.E. | Royal |
| Checker (Structural) | Billy Fontenot, P.E. | Royal |
| Reviewer (Hydraulics/Civil) | Brett Liuzza, P.E. | Horizon Engineering |
| Reviewer (Structural) | John Karlin, P.E., S.E. | Horizon Engineering |
| Survey Reviewer | Katherine Foreman, P.E. | Royal |
| Detailer | DeWain Butler | Royal |
| Detail Checker | Billy Fontenot, P.E. | Royal |
| Detail Reviewer | John Karlin, P.E., S.E. | Horizon Engineering |
| Constructability Review | Alec Carter O'Brien, P.E. | Royal |

SOFTWARE AND DOCUMENT CONTROL

Royal's team is familiar with all necessary drafting and design software, including - CADConform, Microstation, InRoads, and ProjectWise as required by the LADOTD and all drawings will conform to LADOTD Software and Deliverables Standards for Electronic Plans. The design team will use software for bridge design that is listed on the DOTD Bridge Design Section's Pre-Approved Software List. If a need arises to utilize other software, such software will be submitted to the Bridge Design Engineer Administrator for approval prior to use.

All pertinent communications, project files, submissions, and documentation of the QC/QA process will be saved within Royal's internal filing system. Final calculation books and other final design documents will be submitted to LADOTD at the completion of the project.

Markups and comments on plans and other design documents will be made using red ink (or red text if review is performed digitally). The checker/reviewer's name and date of review will

QA/QC Plan

Prime Consultant: Royal Engineers and Consultants, L.L.C.

be listed on the first page of the document set. Other colors of ink or text may be used to distinguish between comments from different checkers/reviewers if a common document set is used. Markups and comments that have been addressed or otherwise responded to will be highlighted in yellow to indicate completion by the relevant designer or detailer.

SURVEY PHASE

Basin LLC will produce the survey in accordance with the procedures as shown on pages 13-17 of the Off-System Bridge Guidelines. Royal will review the field books, topography points and using information from maps/site visits will ensure all necessary points are picked up.

- Field books submitted by Basin LLC, reviewed by Royal.
- Packaging check submitted by Royal, reviewed by Basin LLC.

DESIGN PHASE

Using the design criteria submitted and approved by Royal to LADOTD, Royal will follow the design criteria to establish the Bridge Type, size, at this location. All design assumptions, exemptions, etc. will be listed on the design criteria checklist. The design criteria will be updated if necessary but sent to LADOTD for review and approval.

DESIGN CALCULATIONS, PLAN DEVELOPMENT, AND REVIEW

QC PROCESS

The quality control phase is governed by the designer/design checker and detailer/detail checker roles. Generally, at the completion of each detail or design the designated checker will independently confirm or redline the submission.

Each designer on the Royal team is responsible for producing, maintaining, and reviewing their own details and plans prior to submitting for review. Royal will implement the design checker as noted in the LADOTD QC/QA process. The design checker will be the engineer responsible for producing independent calculations and reviewing those submitted by the designer. Work produced by the CADD detailer will be checked by the responsible designer. All detailed, designed, or calculated work on this project will be independently reviewed by a licensed Professional Engineer.

All calculations that are reviewed, edited, or redlined will be included with the final submission package. All corrected errors will be noted and updated, the calculations from design check(s) will be included with the final submission.

Design checkers shall review for correctness, verifying that the design is adequately reflected in the plans and details.

QUALITY ASSURANCE

The quality assurance phase is defined by the review of QC process to ensure procedures are being followed, and processes are complete. The reviewer is responsible for assuring designs and details are following LADOTD Bridge Design common practices and guidelines.

Reviewers will be charged with identifying any constructability issues, safety, or site issues. Reviewer will provide designer comments or concerns with critical or complicated structures. Upon completion by the designated project reviewer Royal will hold an internal red team review with all personnel involved in the detail and design phase.

At the completion of the QA process by the Reviewer, the QC/QA form (provided in the

appendix) will be signed by the designer, design checker, detailer, detail checker, and reviewer.

RED TEAM REVIEW (FINAL REVIEW BEFORE SUBMISSION)

Royal and Horizon Engineering will have an internal final team review of all calculations, plans, hydraulics, and environmental. Comments produced from the Red Team Review will be noted during the meeting to be incorporated prior to final submission.

FINAL REVISIONS BASED UPON RED TEAM REVIEW

Designer and detailer will encompass all comments made from the red team review. Royal and Horizon Engineering will ensure that all design calculations, review/check calculations are packaged.

APPENDIX

- Appendix A: Design Criteria Checklist
- Appendix B: Final Calculation Book Checklist
- Appendix C: QA Information Package Checklist
- Appendix D: QC/QA Certification
- Appendix E: Peer Review Resolution Agreement

APPENDIX A—DESIGN CRITERIA CHECKLIST

Design criteria for each project shall include, but not limited to, the following sections:

— **Cover sheet**

The following information must be included on the cover sheet:

- LADOTD project number
- Project name
- Revision date
- The Supervisor or Team Leader’s signature and date

— **Governing Design and Construction Specifications and Other References**

A list of governing design and construction specifications and other references used for the project shall be included in this section. The edition number, interim revisions, and/or publication date must be specified for each reference.

— **Design Assumptions and Design Exceptions**

All design assumptions and design exceptions received must be included in this section along with supporting documents.

— **General Information**

The general information as listed below should be included in this section:

- Bridge information (no. of bridges, bridge clear width, length, no. of lanes, lane width, shoulder width, etc.)
- Road information (roadway classifications, design speed, traffic data, etc.)
- Vertical datum
- Vertical and horizontal clearances
- Other relevant information

— **Hydraulic Design Criteria**

All hydraulic design criteria (design year, design water elevations, scour depth and scour elevation, etc.) shall be included in this section and the information shall be provided by the Hydraulic Engineer.

— **Design Factors**

The ductility factor η_D , redundancy factor η_R , and operational importance factor η_I shall be listed in this section.

— **Design Loads**

All design loads (dead load, live load, wind load, thermal loads, vessel collision loads, seismic load, wave loads, etc.) used for the project shall be included in this section.

— **Limit States**

All applicable limit states for this project shall be listed in this section.

— **Bridge Barrier **Railing****

The design criteria, types, and test levels for bridge **barrier railings** shall be listed in this section. **Standard Plans** should be listed if they are utilized.

Guardrail

The design criteria, types, and test levels for guardrails shall be listed in this section. **Standard Plans** should be listed if they are utilized.

Approach Slab

Design criteria for approach slab shall be included in this section. **Standard Plans** should be listed if they are utilized.

Deck and Deck Drainage

All design criteria for deck and deck drainage design shall be included in this section. **Standard Plans** should be listed if they are utilized.

Bearing

All bearing types and design criteria for each bearing type shall be included in this section. **Standard Plans** should be listed if they are utilized.

Joint

All joint types and design criteria for each type shall be included in this section. **Standard Plans** should be listed if they are utilized.

Superstructure

All superstructure types and design criteria for each type shall be included in this section. **Standard Plans** should be listed if they are utilized.

Substructure

All substructure types and design criteria for each type shall be included in this section. **Standard Plans** should be listed if they are utilized.

Piles and Drilled Shafts

All pile types, sizes, and structural design criteria shall be included in this section. **Standard Plans** should be listed if they are utilized.

Geotechnical Design

All geotechnical design criteria shall be included in this section and the information shall be provided by the Geotechnical Engineer. **Standard Plans** should be listed if they are utilized.

Mechanical Design

All mechanical design criteria shall be included in this section if applicable. **Standard Plans** should be listed if they are utilized.

Electrical/Lighting Design

All electrical design criteria shall be included in this section if applicable. **Standard Plans** should be listed if they are utilized.

As-Designed Bridge Rating Criteria

All as-designed bridge rating criteria shall be included in this section.

Software

All software used for design and check shall be included in this section.

APPENDIX B—FINAL CALCULATION BOOK CHECKLIST

The final calculation book for each project shall include, but not limited to, the following sections:

— **Cover Sheet**

The following information must be included on the cover sheet:

- LADOTD project number
- Project name
- The title of “Final Calculation Book”
- The EOR’s seal with signature and date

— **Final Calculation Book Check List**

— **QC/QA Certifications**

— **Peer Review Resolution Agreement (if peer review is performed)**

— **Design Criteria**

— **Final Hydraulic Analysis Report from Hydraulic Engineer**

— **Final Geotechnical Analysis Report from Geotechnical Engineer**

— **Superstructure Design Calculations**

— **Substructure Design Calculations**

— **Quantity Calculations**

— **Special Provisions/NS-Items**

— **Construction Cost Estimate**

— **As-Designed Rating Report**

— **List of All Final Electronic Design Files and File Locations (ProjectWise directory name)**

Consultants shall submit the final calculation book to LADOTD bridge task managers; the submittal shall be on a CD or Flash Drive or placed to a designated ProjectWise folder including the following information:

— **A PDF File of the Calculation Book (Including the As-Designed Rating Report)**

— **All Electronic Design Files**

— **A PDF File of the As-Designed Rating Report Only**

The final calculation book for in-house projects shall include the same files listed above for consultant projects. The final calculation book and other final design documents for all projects including in-house and consultant projects shall be uploaded to the archiving location designated in the record retention policy within 30 calendar days after the stamped final plans are delivered.

APPENDIX C—QA INFORMATION PACKAGE CHECKLIST

Project No.:

Project Description:

| | |
|-------|-----------------------|
| _____ | Calculation Book |
| _____ | Plans |
| _____ | Special Provisions |
| _____ | Cost Estimate |
| _____ | Other Documents _____ |

APPENDIX D—QC/QA CERTIFICATION

Project No.:

Project Name:

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

| Team Members | Name | PE Registration No. | Responsible Plan Sheets | Responsible Special Provisions | Construction Cost Estimate | Signature |
|-----------------------|------|---------------------|-------------------------|--------------------------------|----------------------------|-----------|
| Designers | | | | | | |
| | | | | | | |
| | | | | | | |
| Design Checkers | | | | | | |
| | | | | | | |
| | | | | | | |
| Detailers | | | | | | |
| | | | | | | |
| | | | | | | |
| Detail Checkers | | | | | | |
| | | | | | | |
| | | | | | | |
| Reviewers | | | | | | |
| | | | | | | |
| | | | | | | |
| Peer Reviewer | | | | | | |
| Geotechnical Engineer | | | | | | |
| Hydraulic Engineer | | | | | | |
| EOR | | | | | | |

APPENDIX E—PEER REVIEW RESOLUTION AGREEMENT

Project No.:

Project Name:

We, the undersigned Peer Reviewer, Supervisor or Team Leader of the design team, and LADOTD Representative for this project, have reviewed and accepted the attached peer review resolutions. We certify that the peer review has been performed in accordance with the LADOTD Bridge Design Section policy on QC/QA.

| Team Members | Name | Signature |
|---------------------------|------|-----------|
| Peer Reviewer | | |
| Supervisor or Team Leader | | |
| LADOTD Representative | | |

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 <i>(Name must match exactly as registered with Louisiana's Secretary of State (SOS): including punctuation, include screenshot(s) from SOS at the end of Section 20)</i> | ADDRESS | POINT OF CONTACT & EMAIL ADDRESS | PHONE NUMBER |
|--|---|--|---------------------|
| Basin LLC | 2811 B Toulouse New Orleans, LA 70119 | Wesley Eustis, PE, PLS weustis@basinengllc.com | (504) 766-0526 |
| Horizon Engineering, LLC | 1013 N. Causeway Blvd., Suite 201 Metairie, LA 70001 | John Karlin, SE, PE jkarlin@horizonengineeringllc.com | (504) 270-1830 |
| ELOS Environmental, LLC | 607 W. Morris Avenue Hammond, LA 70403 | Lucas Watkins lwatkins@elosenv.com | (985) 662-5501 |

23. LOCATION

If location is an evaluation criterion for this advertisement (see page 2) 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 Evaluation Criteria section of the advertisement.