ENGINEERING AND RELATED SERVICES January 16, 2025 Contract No.: 4400030634 State Project No.: H.015941.5 Federal Aid Project No.: H015941

OFF-SYSTEM HIGHWAY BRIDGE PROGRAM CONTRACT FOR: Old Columbia Rd Over Jamieson Creek Washington 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 16, 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.: 4400030634 State Project No.: H.015941.5 Federal Aid Project No.: H015941 Off-System Highway Bridge Program: Old Columbia Rd Over Jamieson Creek Parish: Washington



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 Old Columbia Rd Over Jamieson Creek 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 Engineering Design group 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 south Louisiana. We have designed roads, bridges and drainage structures from Iberia Parish to St. Bernard Parish, and know south Louisiana design challeges 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.





DOTD FORM: 24-102 PROPOSAL TO PROVIDE CONSULTANT SERVICES

Prime consultant shall complete the DOTD Form 24-102 without altering the Form's text; however, the instruction and/or guidance for Sections 12 through 23 can be removed but do not remove Section title and number. ANY CONSULTANT FAILING TO SUBMIT ANY OF THE INFORMATION REQUIRED ON THE DOTD FORM 24-102, OR PROVIDING INACCURATE INFORMATION ON THE DOTD FORM 24-102, MAY BE CONSIDERED NON-RESPONSIVE.

1.	Contract Name (as shown in the advertisement)	Off-System Highway Bridge Program, Old Columbia Creek	Rd Over Jamieson				
2.	Contract Number(s) (as shown in the advertisement)	4400030634					
3.	State Project Number(s) (if shown in the advertisement)	H.015941.5					
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 701	30				
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 701	30				
8.	Name, Title, Phone Number, and Email Address (prime consultant's contract point of contact)	Katherine Foreman, P.E., Project Engineer, (337) 456 royal.us	5-5351, kforeman@				
9.	Name, Title, Phone Number, and Email Address (official with signing authority for this proposal)	Michael Pugh, P.E., President, (504) 283-9400, mpu	gh@royal.us				
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 to transact.	M	_				
	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.	Signature above shall be the same person listed in	Section 9:				
	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 firear 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 during the solely on the entity's or association's status as 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.	<i>Date:</i> January 16, 2025					
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 ENGINEERS AND CONSULTANTS, L.L.C.						



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, LLC	BASIN LLC (BASIN)	HORIZON ENGINEERING, LLC (HORIZON)	ELOS ENVIRONMENTAL, LLC (ELOS)	EACH DISCIPLINE MUST TOTAL 100%
Bridge	75%	85%	0%	15%	0%	100%
Survey	20%	0%	100%	0%	0%	100%
Environmental	5%	40%	0%	0%	60%	100%
Identify the percentag	ge of work for the overall	contract to be performed by t	he prime consultant and e	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 COMITTED TO THIS CONTRACT	TOTAL NUMBER OF PERSONNEL AVAILABLE IN THIS DOTD JOB CLASSIFICATION (if needed)
	Engineer	3	10
	Engineer Intern	1	6
Royal Engineers and	CADD Drafter	1	3
00115ultanto, E. E. O.	Principal	1	2
	Supervisor-Eng	1	3
Basin LLC	Surveyor	1	1
Horizon Engineering, LLC	Engineer	3	3
	Environmental Manager	1	5
ELUS Environmental, LLC	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.



ROYAL 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 (Do not insert wording from ad)	PERSONNEL BEING USED TO MEET THE MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	FIRM EMPLOYED BY	TYPE OF LICENSE & DISCIPLINE MEETING MPR/CERTIFICATION & NUMBER (Ex: PE # - Civil)	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 a **re limited to 2 pages per person.** Any certificates required by the advertisement are to be placed in Section 20.

NAME: Michael Pugh, P.E. TITLE: Principal		FIRM EMPLOYED BY: Royal Engineering and Consultants, L.L.C.					
YEARS OF RELEVANT EXPE	RIENCE WITH THIS EMPLOYER: 20	YEARS OF RELEVANT EXPERIENCE WITH OTHER EN	APLOYER(S): 8				
DEGREE(S) / YEARS / SPEC	EGREE(S) / YEARS / SPECIALIZATION: BS / 1997 / Civil Engineering						
ACTIVE REGISTRATION NU	CTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE: 30911 / LA / 3-31-2026 YEAR REGISTERED: 2003 DISCIPLINE: Civil						
CONTRACT ROLE(S)/BRIEF	DESCRIPTION OF RESPONSIBILITIE	S: Principal (MPR 1) / Project Oversight and Governa	nce				
EXPERIENCE DATES (mm/yy – mm/yy)	EXPERIEN ("designed drainage", "designed girder	ICE AND QUALIFICATIONS RELEVANT TO THE PROP s", "designed intersection", etc. Experience dates should cover the years	OSED CONTRACT of experience specified in the applicable MPR(s))				
28 Years of Experience	Mr. Pugh has 28 years of experience walks, and pedestrian facilities. Mr. functions of small- and large-scale	e in designing roads, bridges, canal crossings, drain Pugh also has extensive experience in oversight of C roadway and bridge repair and replacement projects.	age infrastructure, subsurface utility, onstruction Engineering & Inspection (side- (CE&I)			
05/23 – Ongoing Featured Project	West Metairie Avenue Over S. Suburban Canal Off System Bridge (OSBR) DOTD: Contract H.015009 <i>Principal. Provided oversight and project governance for an engineering design of a bridge, replacing an existing slab span bridg</i> <i>The propose at West Metairie Avenue over the South Suburban Canal in Jefferson Parish, which is off the State Highway System. The propose replacement structure is a two (2), 12-ft by 12-ft Reinforced Concrete Box Culverts with concrete headwalls and wingwalls.</i>						
08/15 – 01/22 Featured Project	Magistrate Street at Corrine Canal Principal. Responsible for engineering preserving the historical value and of design replaced the preexisting two crete structure.	St. Bernard Parish, LA ng design for repairs, restorations and/or replacemer original intent of the facility. Replaced existing culver (2) – 60" corrugated metal pipe culverts with a 26'-	t of bridge to its Pre-Katrina condition ts with precast Con-Span structures. E 0" wide 72'-0" long clear span, precas	while 3ridge t con-			
08/15 – 01/22 Featured Project	Gallo Drive Bridge at Arpent Canal Principal. Responsible for oversight Bridge in St. Bernard Parish. The G culverts with a 26'-0" wide clear spa	St. Bernard Parish, LA of design and CE&I services for this project, which allo Drive Bridge scope included a full replacement on, precast concrete structure.	replaced the Gallo Drive at 20 Arpent of of the existing two (2) – 60" concrete	Canal e pipe			
03/17 – 05/19 Featured Project	Plaza / Arpent Bridge St. Bernard Principal. Royal performed design at ing culvert configuration was found is 52 ft x 32 ft, and included remova feet of concrete pipe, over 100 LF or	Parish, LA nd construction management services for the replace to be inadequate to handle the increased flow of wat Il and replacement of 400 sy of roadway pavement, 1 f guard rail, a handicap ramp, 5" rollover, 6" and 8" ba	ment of the Plaza /Arpent bridge. The er during major rain events. The new b 250 ft concrete piles; and installation rrier concrete curb, and 190 LF of han	exist- oridge of 56 drail.			



04/19 - 05/24 Featured Projec	<i>t</i> East Hardy Bridge Design and Replacement Hattlesburg, MS Principal. Served as QA/QC Lead for the team hired to provide Engineering services for bridge design, layout, specifications and prob- able cost. The existing East Hardy Street Bridge is a two-lane bridge located on the Leaf River in Hattlesburg, MS that was identified for replacement through the Emergency Road and Bridge Repair Fund. Mr. Pugh participated in Design Reviews and served as Civil Engineering Subject Matter Expert.
02/15 - Ongoin	Missouri Street at Corinne Canal St. Bernard Parish, LA Principal. Oversight and technical review of design for repairs, restorations and/or replacement of a Parish-owned roadway and canal crossing with a precast Con-Span structure. The Missouri at Corrine Canal Crossing consisted of a Hazard Mitigation project to replace the pre-existing two (2) – 60" corrugated metal pipe culverts with a 26'-0" wide 72'-0" long clear span, precast concrete structure.
02/15 - Ongoin	Paul Drive at 20 Arpent Canal St. Bernard Parish, LA Principal and Engineer of Record. Led design for repairs, restorations and/or replacement of a Parish-owned roadway and canal crossing with a precast Con-Span structure. The Paul Drive at 20 Arpent Canal Crossing consisted of a Hazard Mitigation project to replace the pre-existing three (3) – 72" Concrete Pipe Culverts with a 28'-0" wide 64'- 0" long clear span, precast concrete structure.
02/15 - Ongoin	Mumphrey Road at 20 Arpent Canal St. Bernard Parish, LA Principal. Oversight and technical review of design for repairs, restorations and/or replacement of a Parish-owned roadway and canal crossing with a precast Con-Span structure. The Mumphrey Rd at 20 Arpent Canal Crossing consisted of a Hazard Mitigation project to replace the pre-existing two (2) – 60" Concrete Pipe Culverts with a 26'-0" wide 72 clear span, precast concrete structure.



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NAME: Katherine Foreman, P.E.	TITLE: Engineer	FIRM EMPLOYED BY: Roy	al Engineers and Consultan	ts, L.L.C.	
YEARS OF RELEVANT EXPERIEN	CE WITH THIS EMPLOYER: 8	YEARS OF RELEVANT EX	PERIENCE WITH OTHER EM	PLOYER(s): 0	
DEGREE(S) / YEARS / SPECIALIZ	ATION: BS / 2017 / Civil Engi	neering			
ACTIVE REGISTRATION NUMBER	R / STATE / EXPIRATION DATE	: 46031 / LA / 3-31-2026	YEAR REGISTERED: 2021	DISCIPLINE: Civil	
CONTRACT ROLE(S) / BRIEF DES	CRIPTION OF RESPONSIBILI	TIES: Engineer (MPR 2)/ Pr	roject Engineer		
EXPERIENCE DATES (mm/yy - mm/yy)	EXPE ("designed drainage", "designed	RIENCE AND QUALIFICATI girders", "designed intersection", etc.	ONS RELEVANT TO THE PR Experience dates should cover the ye	OPOSED CONTRACT Pars of experience specified i	n the applicable MPR(s))
8 Years of Experience	Ms. Foreman has 8 years of proaches, storm drainage sy sewer systems, flood contro expertise includes familiarity can use various software pac and Autodesk Storm and San DOTD standards, Unified Fac CERTIFICATIONS: Traffic Con	experience in civil engine estems, asphalt and concre I structures, commercial a with DOTD design manua ckages for H and H design itary Analysis. Ms. Forema ilities Criteria (UFC), and lo ntrol Supervisor, Traffic Co	eering design on project typete road design, sidewalks, and residential site design, ls and specifications, ADA and analysis such as HEC- n has significant experience cal municipal codes. ntrol Technician	pes including roadwa potable water distri foundation design, a requirements, and A HMS, HEC-RAS, DOTI preparing plans and	ays, bridges, bridge ap- bution systems, gravity ind retaining walls. Her ASHTO standards. She D HYDR programs, HY8, d specifications to meet
05/23 – Ongoing Featured Project	West Metairie Avenue Over S Engineer of Record. Provided at West Metairie Avenue over posed replacement structure walls. The proposed structure	5. Suburban Canal Off Sys engineering and related se r the South Suburban Cana e is a two (2), 12-ft by 12-f e will tie-in to the existing o	tem Bridge (OSBR) DOTD: ervices required to develop p al in Jefferson Parish, whic t Reinforced Concrete Box concrete lined Suburban Ca	Contract H.015009 plans to replace an ex h is off the State Hig Culverts with concre nal.	xisting slab span bridge Jhway System. The pro- ete headwalls and wing-
08/15 – 01/22 Featured Project	Magistrate Street at Corrine Engineer Intern. The Magistrating two (2) – 60" corrugated to ble for hydraulic analysis, site During construction, response repairs, restorations and/or reintent of the facility.	Canal St. Bernard Parish ate Street at Corrine Canal metal pipe culverts with a 2 e layout and grading, found sibilities included submitta eplacement of bridge to its	, LA Bridge consisted of a Haza 26'-0" wide, 72'-0" long clear dation design, wingwall desi al reviews (pile loads and o s Pre-Katrina condition while	rd Mitigation project span, precast concre ign, and coordinating con-span wingwall), e preserving the histo	to replace the preexist- ete structure. Responsi- g development of plans. engineering design for orical value and original
08/15 – 01/22 Featured Project	Gallo Drive Bridge at Arpent Engineer Intern. Responsible nard Parish. The Gallo Drive a 26'-0" wide clear span, prec	Canal St. Bernard Parish for the design for this proj Bridge scope included a fu cast concrete structure.	, LA ect, which replaced the Gal Il replacement of the existin	lo Drive at 20 Arpent ng two (2) – 60" con	Canal Bridge in St. Ber- crete pipe culverts with



02/15 – Ongoing	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 sub- mittal reviews.
02/15 - Ongoing	Paul Drive at 20 Arpent Canal St. Bernard Parish, LA Engineer Intern. Supported design for repairs, restorations and/or replacement of a Parish-owned roadway and canal cross- ing with a precast Con-Span structure. The Paul Drive at 20 Arpent Canal Crossing consisted of a Hazard Mitigation project to replace the pre-existing three (3) – 72" Concrete Pipe Culverts with a 28'-0" wide 64'- 0" long clear span, precast concrete structure.
11/20 – 06/24	Indian Creek Low Water Crossing Fort Polk, LA Project Manager. Led the Royal team providing engineering services to design a new roadway low water crossing structure and to design repairs to the existing Sagebrush Road. Responsibilities include serving as the primary point of contact between Royal and DCMS, Inc., coordinating closely with the construction Contractor for the project throughout design of the project, designing the horizontal geometry of proposed new road, and supporting the design team with various design tasks such as Hydraulic Modeling, culvert sizing, and development of plans and specifications.
08/15 - 01/22	Iberia Street Sidewalk Youngsville, LA Engineer Intern on team providing engineering design and construction management for the DOTD TAP-funded H.013443 Iberia Street Sidewalk, Ph 1 project in Youngsville, LA. The project consisted of installation of RCP drainage piping within the existing roadside ditches and a six-foot wide concrete sidewalk including two pedestrian bridges crossing waterways on the south side of Iberia St. from School St. to Sugar Mill Pond Subdivision, allowing for greater interconnectivity of pedestrian travel. Ms. Fore- man provided design support for proper sizing of the proposed subsurface drainage
08/15 - 11/21	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 engineer- ing design, analyses, and construction management for connection of both dead-end streets of Polly Lane and storm drainage system design.
06/15 - 06/17	City of Youngsville Engineering Design Youngsville, LA Engineer Intern. Performed design, bidding, and construction management for the rehabilitation of Détente Road.



NAME: Beau Tate, P.E.	TITLE: Senior Engineer	FIRM EMPLOYED BY: Royal Engineers and Consultants, L.L.C.							
YEARS OF RELEVANT EXPER	IENCE WITH THIS EMPLOYER: 17	YEARS OF RELEVANT EXPERIENCE WITH OTHER EMPLOYER(s): 10	61-						
DEGREE(S) / YEARS / SPECIA	EGREE(S) / YEARS / SPECIALIZATION: BS / 1998 / Environmental Engineering, Minor- Civil Engineering								
ACTIVE REGISTRATION NUM	CTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE: 30990 / LA / 3-31-2026 YEAR REGISTERED: 2004 DISCIPLINE: Civil								
CONTRACT ROLE(S) / BRIEF	DESCRIPTION OF RESPONSIBILITI	IES: Supervisor-Eng (MPR 3) / QA/QC Lead	~ 1						
EXPERIENCE DATES (mm/yy - mm/yy)	EXPERIE ("designed drainage", "designed girde	NCE AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT ers", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable i	MPR(s))						
27 Years of Experience	Mr. Tate is a Senior Engineer with projects involving asphalt and constructures, commercial and reside	a a long career in infrastructure design. Mr. Tate has been the Engineer of Record increte road design, bridges and canal crossings, low water crossings, sidewalks, ential site design, foundation design, and retaining walls.	on numerous flood control						
05/23 – Ongoing Featured Project	West Metairie Avenue Over S. Sul Supervisor-Eng. Served as QA/QC the South Suburban Canal in Jeffe Box Culverts with concrete heady Canal.	burban Canal Off System Bridge (OSBR) DOTD: Contract H.015009 Lead for the design of a replacement an existing slab span bridge at West Metairie erson Parish. The proposed replacement structure is a two (2), 12-ft by 12-ft Reinfor walls and wingwalls. The proposed structure will tie-in to the existing concrete lin	Avenue over ced Concrete ed Suburban						
08/15 – 01/22 Featured Project	Magistrate Street at Corrine Cana Engineer of Record. The Magistrat ing two (2) – 60" corrugated meta for hydraulic analysis, site layout a construction, responsibilities inclu- rations and/or replacement of brid	al St. Bernard Parish, LA te Street at Corrine Canal Bridge consisted of a Hazard Mitigation project to replace al pipe culverts with a 26'-0" wide, 72'-0" long clear span, precast concrete structure. and grading, foundation design, wingwall design, and coordinating development of uded submittal reviews (pile loads and con-span wingwall), engineering design for r dge to its Pre-Katrina condition while preserving the historical value and original inte	the preexist- Responsible plans. During epairs, resto- ent.						
08/15 – 01/22 Featured Project	Gallo at Arpent Canal Bridge St. Engineer of Record. Responsible Bernard Parish. The Gallo Drive Br 26'-0" wide clear span, precast co	Bernard Parish, LA for the design for this project, which replaced the Gallo Drive at 20 Arpent Canal ridge scope included a full replacement of the existing two (2) – 60" concrete pipe concrete structure.	Bridge in St. ulverts with a						
04/19 - 05/24 Featured Project	East Hardy Bridge Design and Rep Engineer. Provided oversight for b ing East Hardy Street Bridge is a t through the Emergency Road and	placement Hattiesburg, MS pridge and roadway design efforts including layout, specifications and probable co two-lane bridge located on the Leaf River in Hattiesburg, MS that was identified for Bridge Repair Fund.	st. The exist- replacement						



11/20 – 06/24	Indian Creek Low Water Crossing and Road Repairs Fort Polk, LA Senior Engineer. Oversight of 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 restored and widened approximately 2.4 miles of the existing Sagebrush Road and will include construction of a 1.2 mile new roadway and low water crossing structure to provide connectivity across Indian Creek. Project features included 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.
02/15 - Ongoing	Missouri Street at Corinne Canal St. Bernard Parish, LA Engineer of Record. Led design for repairs, restorations and/or replacement of a Parish-owned roadway and canal crossing with a precast Con-Span structure. The Missouri at Corrine Canal Crossing consisted of a Hazard Mitigation project to replace the pre-ex- isting two (2) – 60" corrugated metal pipe culverts with a 26'-0" wide 72'-0" long clear span, precast concrete structure.
02/15 - Ongoing	Paul Drive at 20 Arpent Canal St. Bernard Parish, LA Engineer. Supported design for repairs, restorations and/or replacement of a Parish-owned roadway and canal crossing with a precast Con-Span structure. The Paul Drive at 20 Arpent Canal Crossing consisted of a Hazard Mitigation project to replace the pre-existing three (3) – 72" Concrete Pipe Culverts with a 28'-0" wide 64'- 0" long clear span, precast concrete structure.
02/15 - Ongoing	Mumphrey Road at 20 Arpent Canal St. Bernard Parish, LA Engineer of Record. Led design for repairs, restorations and/or replacement of a Parish-owned roadway and canal crossing with a precast Con-Span structure. The Mumphrey Rd at 20 Arpent Canal Crossing consisted of a Hazard Mitigation project to replace the pre-existing two (2) – 60" Concrete Pipe Culverts with a 26'-0" wide 72 clear span, precast concrete structure.
04/14 - 05/15	Vie Terre Beau Bridge Repair Acadia Parish, LA Engineer of Record. Royal performed damage assessments and provided engineering design, surveying, bidding, and construction phase services to restore the Vie Terre Beau Bridge at Bayou Nezpique.



NAME: Billy Fontenot, P.E. **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





NAME: Alec Carter O'Brien, P.E.	TITLE: Project Engineer	FIRM EMPLOYED BY: Roy	yal Engineers and Consultants, L.L.C.	
YEARS OF RELEVANT EXPERIENC	E WITH THIS EMPLOYER: 6	YEARS OF RELEVANT EX	PERIENCE WITH OTHER EMPLOYER(s): 6	
DEGREE(S) / YEARS / SPECIALIZA	TION: BS / 2013 / Civil Engine	eering		

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





NAME: Cassidy Melancon, **TITLE:** Engineer Intern FIRM EMPLOYED BY: Royal Engineers and Consultants, L.L.C. E.I. 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 AND QUALIFICATIONS RELEVANT TO THE PROPOSED CONTRACT **EXPERIENCE DATES** ("designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s)) (mm/yy - mm/yy)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, **3 Years of Experience** 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. West Metairie Avenue Over S. Suburban Canal Off System Bridge (OSBR) | DOTD: Contract H.015009 05/23 - Ongoing Engineer Intern. Responsible for supporting engineering design plans to replace an existing slab span bridge at West Metairie Ave-Featured Project nue 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. 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 04/22 - 12/24facilitate 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 Plaguemines and St. Bernard Parishes that would deliver dredged sediment from point bars within the Mississippi River to marsh creation areas within the Breton Sound. 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 Bay-09/22 - 09/23ou 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.



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 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)) (mm/yy - mm/yy)20 Years of Mr. Butler has 20 years of experience drafting plans and specifications for Architecture and Engineering Design projects. Mr. Butler has technical capabilites in AutoCad Civil 3d and Revit design softwares. Experience 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 05/23 - Ongoing 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. 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 ap-11/22 - 06/24proximately 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. 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, 08/22-01/23 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. 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, US-Prior to 2022 ACE 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.



12/21 - 02/22

07/21 - 10/21



Surveyor. Performed survey of Canal St. between Intersate 10 and Lake Ave.

Surveyor. Performed survey of canals and medians along Veterans Blvd.

Canal St. Survey | Jefferson Parish Government

Veterans Canal and Medians | Jefferson Parish Government



NAME: John Karlin, S.E., P.E.	TITLE: Principal	FIRM EMPLOYED BY: Horizon Enginee	ring, L.L.C.		HORIZON	
YEARS OF RELEVANT EXPERIN	ENCE WITH THIS EMPLOYER: 1	YEARS OF RELEVANT EXPERIENCE	WITH OTHER EMPLO	DYER(s): 7		
DEGREE(S) / YEARS / SPECIAI	IZATION: Master of Science / 2017	7 / Civil (Structural) Engineering BS	/ 2016 / Civil Enginee	ering		
ACTIVE REGISTRATION NUME	CTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE: PE:44795 / LA / 3-31-2025 SE: 081-008511 / IL / 11-30-2026 YEAR REGISTERED: PE: 2020 SE: 2020					
CONTRACT ROLE(S) / BRIEF D	ESCRIPTION OF RESPONSIBILITIES	S: Engineer / Structural Subject Matt	ter Expert			
EXPERIENCE DATES (mm/yy – mm/yy)	EXPERIEN ("designed drainage", "designed girder	ICE AND QUALIFICATIONS RELEVAN	NT TO THE PROPOSEL should cover the years of expe	D CONTRACT erience specified in t	the applicable MPR(s))	
8 Years of Experience	 » Over 7 years of structural engineeri » Completed the 3 modules of LTRC 1 » Certified ATSSA Traffic Control Sup 	ing experience, including DOTD bridge a Traffic Engineering Process and Report ervisor (TCS), Technician (TCT), and Fla	nd box culvert design. (TEPR) Course. agger.			
07/21 – 12/22	S.P. No. H.013897 – I-10 and I-12 Co OWNER: LaDOTD. SCOPE: Replacem itation of I-12 to I-10 EB ramp and Ess Reviewed plans and specifications. A frames, PPC girders, reinforced cond PPC piles. Identified potential design	bllege Flyover Ramp Design-Build nent of I-10 WB flyover ramp; widening a sen Lane bridge over I-12. COST: ≈\$52,0 analyzed reinforced concrete deck and b crete diaphragms, rolled steel girders, s and constructability issues.	nd rehabilitation of I-10 100,000. ROLE: Lead Str barriers, 360' skewed co steel diaphragms, reinfo	WB bridge over ructural Indepen ontinuous steel orced concrete I	Ward Creek; and rehabil- dent Technical Reviewer. plate girders, steel cross bents, drilled shafts, and	
01/21 – 01/24	Rehabilitation of Causeway Boulevar OWNER: Jefferson Parish. SCOPE: lane overpass). COST: ≈\$13,000,000 Construction Engineer. Analyzed exis cap strengthening, reinforced concre of steel components. Prepared plans stalled adhesive anchor and reinforce replace failed expansion joint with on	rd/Airline Drive Interchange Structural inspection and rehabilitation completed, ≈\$46,000,000 (est.) remain sting bents and girders. Designed struc- ete risers, post-installed adhesive ancho , specifications, and opinions of probab- sing bar positions to avoid conflicts with aly weekend road closures.	n of 1950s elevated int ing. ROLE: Project Man cture jacking plan, stee ors and reinforcing bars le construction cost (Ol th existing reinforcement	erchange (8 rai ager, Lead Struc el girder strengt s, elastomeric be PCC). Developee nt. Designed en	mps, traffic circle, and 4 ctural Engineer, and Lead hening and repairs, bent earing pads, and coating d adjustments to post-in- nergency deck repairs to	
01/23 - 01/24	S.P. No. H.002956 – Earhart/Dakin R OWNER: LaDOTD. SCOPE: Exit ramp and barriers; PPC girders; reinforced inforced concrete bent cap and PPC to the existing bent. Prepared plans.	Camp from Earhart Expressway to Dakin Stree concrete diaphragms; elastomeric beari piles) adjacent to existing bent to acco	et. ROLE: Structural Engings; and reinforced con mmodate steel girder s	ineer. Designed Icrete shear key pan without app	reinforced concrete deck s. Designed pile bent (re- llying any additional load	

10/23 – 01/24	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 rail- road 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 anal- ysis 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.
10/23 - 01/24	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 con- struction on nearby existing levees and floodwalls; and identified potential public safety issues.
09/17 - 06/19	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. De- signed 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).
09/22 - 01/24	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. In- spected 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.
09/17 - 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: Structural Engineer. Designed reinforced concrete base slab, walls, pipe penetrations, top slab, columns, girder, wing- walls, and apron slab considering LADV-11 and HL-93 vehicular live load.
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 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).
09/17 – 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 closing in of the West Esplanade Canal (Canal No. 2). COST: ≈\$730,000. ROLE: Structural Engineer. Designed reinforced concrete headwalls, wingwalls, and apron slabs.



NAME: Ben Bartlett, P.E., P.T.O.E.	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): 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 (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))
16 Years of Experience	 > 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 analy- sis. 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 Traf- fic 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.



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 in- ternal 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. Pre- pared 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 pedes- trian 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' precast 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, drain- age 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 improve- ments. Prepared plans, specifications, and opinions of probable construction cost (OPCC).



NAME: Brett Liuzza, P.E.	TITLE: Principal	FIRM EMPLOYED BY: Horizon	Engineering, L.L.C.		HORIZON
YEARS OF RELEVANT EX	PERIENCE WITH THIS EMPLOYER: 1	YEARS OF RELEVANT EXPE	RIENCE WITH OTHER EMPLO	YER(s): 16	
DEGREE(S) / YEARS / SP	ECIALIZATION: BS / 2008 / Civil/Envir	onmental Engineering			
ACTIVE REGISTRATION N	NUMBER / STATE / EXPIRATION DATE:	: 37753 / LA / 9-30-2026	YEAR REGISTERED: 2013	DISCIPLINE: (Civil
CONTRACT ROLE(S) / BR	CONTRACT ROLE(S) / BRIEF DESCRIPTION OF RESPONSIBILITIES: Engineer / Engineering Design				
EXPERIENCE DATES	EXPERIEN	CE AND QUALIFICATIONS RE	LEVANT TO THE PROPOSED	CONTRACT	
(mm/yy – mm/yy)	("designed drainage", "designed girder.	s", "designed intersection", etc. Experienc	ce dates should cover the years of experie	ence specified in the a	applicable MPR(s))
17 Years of Experience	 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 mark- ings. 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. Le OWNER: City of New Orleans (LaDOTD ramps) and drainage, sewer, and water li and performed inspections. Reviewed RF structures in the roadway. Performed Sin out documentation.	ee – Amethyst) LPA project). SCOPE: Replacen ines. COST: ≈\$4,500,000. ROLE FIs, submittals, and pay applicat teManager duties. Coordinated o	nent of asphalt roadway (includi : Project Manager and Lead Con ions. Developed adjustments to construction materials testing. P	ng curbs, drivewa struction Enginee drop inlets, manh Yrepared change (ays, sidewalks, and curb er. Managed 2 inspectors noles, and other drainage orders and project close-



07/21 - 01/24	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.
07/13 - 05/22	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.
05/21 - 12/22	RR122 and RR123 Marlyville-Fontainbleau 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.
09/20 - 07/22	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.
05/20 - 01/24	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 ac- counting 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.



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 (MPR 5) / Environmental Compliance and Wetlands Delineation

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))
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 categorial 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 approximate- ly 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, bio- logical 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.



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. 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.
02/23 - Ongoing	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 solic- itation 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.
01/21 - Ongoing	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 ea- gle 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.
01/22 - 09/22	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 require- ments 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.
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 inter- state 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 compre- hensive environmental management strategy, wrote and assisted with amending the SWPPP as the project progressed, and assisted in preparing and reviewing the permit applications.
01/15 - 01/16	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 investi- gations 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.
07/20 - 08/21	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 deter- mined 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.



NAME: Cory Ricks	TITLE: Environmental Professional FIRM E	MPLOYED BY: ELOS Environmer	ntal, L.L.C.	
YEARS OF RELEVANT	EXPERIENCE WITH THIS EMPLOYER: 7 YEARS	S OF RELEVANT EXPERIENCE	WITH OTHER EMPLOYER(s): 1	
DEGREE(S) / YEARS / SPECIALIZATION: BS / 2015 / Biology				
ACTIVE REGISTRATIO	ACTIVE REGISTRATION NUMBER / STATE / EXPIRATION DATE: N/A YEAR REGISTERED: N/A DISCIPLINE: N/A			
CONTRACT ROLE(S) /	BRIEF DESCRIPTION OF RESPONSIBILITIES: Envi	ronmental Pro / Environmenta	al Compliance and Wetlands Delineation	
EXPERIENCE DATES (mm/yy - mm/yy)	EXPERIENCE AND QL ("designed drainage", "designed girders", "designed in	JALIFICATIONS RELEVANT TO tersection", etc. Experience dates should	D THE PROPOSED CONTRACT cover the years of experience specified in the applicable MPR(s))	
8 Years of Experience	LADOTD Rural Bridges Phases I & II; Statewide, LA ELOS has been contracted to provide professional envi Rural Bridge Replacement Initiative for two project ph task orders, impacting 33 structures in Districts 03, 07 and supplemental task orders, impacting multiple stru applications, cultural resource survey, and a threaten delineations, written and produced reports, developed	ronmental consulting services for ases. Phase 1 involved bridge re , 61, and 62. Phase 2 is ongoing a ctures in Districts 05, 08, 58. Alr ed and endangered species sur- timelines, coordinated with LAD	or the Department of Transportation and Development (LADOTD eplacements under 16 state project numbers and supplementa and involves bridge replacements under 9 state project number nost all the projects have included a wetland delineation, perm vey. Mr. Ricks has coordinated field crews, performed wetlan OTD, and assisted with the surveys.	
06/22 - 09/23	LADOTD Rousseau Bridge Replacement; St. Tammany ELOS was contracted to provide environmental service many Parish. Services included a wetland delineation final report. Mr. Ricks worked on the emergency author the Scenic Rivers permit application, and provided pro-	y Parish, LA es for the Rousseau Bridge Repla , Scenic Rivers permit application prization application since the br ject updates to St. Tammany Par	cement Project located on approximately 2.62 acres in St. Tam on, emergency authorization application to USACE, SOVs, and idge was the only way to access a neighborhood, assisted wit rish.	
04/22 - 02/24	Tangi Off-System Bridge Prioritization; Tangipahoa P ELOS is contracted to provide environmental services ments, and permit applications and drawings for six br report, completed permit applications with supporting	arish, LA including wetland delineations, idges to be replaced in District 62 documentation, and assisted wi	Solicitation of Views (SOVs), Categorical Exclusion (CE) docu 2. Mr. Ricks conducted a gopher turtle survey, wrote the finding ith 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 applica- tions to state and federal agencies (USACE, LEDNR, DOTD).			
05/21	Tammany Trace Bridge Replacement; St. Tammany Pa Mr. Ricks performed the wetland delineation, entered the to update maps, and submitted the wetland findings re	arish, LA he wetforms, revised transmittals eport.	s, reviewed the photographs/logs, coordinated with the GIS tear	
05/22 - 03/24	North Brickyard Road Bridge Replacement Program Mr. Ricks initiated the Solicitation of Views (SPVs), Ca and received from the agencies. He also assisted with	ategorical Exclusion (CE) docum	ents, and reviewed all supporting documentation as it was ser coordination when asked for additional information.	
	RUYAL ENGINEI	ERS AND CUNSULIANTS, L.L.(J.	



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 prepar- ing 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 inter- state 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. **

FIRM NAME: Royal Engineers and Consultants, L.L.C.	PAST PERFORMANCE EVALUATION DISCIPLINE(S): Bridge	
PROJECT NAME: West Metairie Avenue Over S. Suburban Canal	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, P.E.	
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 is providing Engineering and Related Services 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 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. Royal's scope includes 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 all of preliminary design and is awaiting Environmental Clearance to begin the Final Plans phase.

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









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@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 Magistrate Street Bridge over the Corinne Canal. This bridge design was apart of St. Bernard's investment in bringing their roadways, bridges, culverts or other canal crossing structures, and all associated infrastructure to meet current codes and standards. The Magistrate Street Bridge also included taking 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 was eligible for replacement by the Federal Emergency Maagement Agency (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 t

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



ROYAL ENGINEERS AND CONSULTANTS, L.L.C.

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, Cha	lmette, 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 up to 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 included a full replacement of the existing two (2) – 60" concrete pipe culverts with a 26'-0" wide clear span, precast concrete structure. We performed an existing conditions analysis, identified significant damages to pipe ends and breakage. We 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, as

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





ROYAL ENGINEERS AND CONSULTANTS, L.L.C.

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



ROYAL ENGINEERS AND CONSULTANTS, L.L.C.



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 oriteria 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 referen

KEY PERSONNEL: Michael Pugh, Beau Tate





ROYAL ENGINEERS AND CONSULTANTS, L.L.C.



FIRM NAME: Basin LLC	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



FIRM NAME: Basin LLC	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



FIRM NAME: Horizon Engineering, LLC	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

PAST PERFORMANCE EVALUATION DISCIPLINE(S): Other (Structural)
FIRM RESPONSIBILITY (PRIME OR SUB): Prime
OWNER'S NAME: RNGD
OWNER'S PROJECT MANAGER: Stephen Abadie
(504) 620-8022 sabadie@rngd.com
TOTAL CONSULTANT CONTRACT COST: \$22
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



FIRM NAME: Horizon Engineering, LLC	PAST PERFORMANCE EVALUATION DISCIPLINE(S): Traffic
PROJECT NAME: Temporary Traffic Control Plans for Coating of Ramps 6, 7, and Over- pass 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) 93	34-6042-1802 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

FIRM NAME: ELOS Environmental, LLC	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 1) 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



ROYAL ENGINEERS AND CONSULTANTS, L.L.C.

FIRM NAME: ELOS Environmental, LLC	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



ROYAL ENGINEERS AND CONSULTANTS, L.L.C.

FIRM NAME: ELOS Environmental, LLC	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



ROYAL ENGINEERS AND CONSULTANTS, L.L.C.

ROYAL 18. APPROACH AND METHODOLOGY

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 Jamieson Creek on Old Columbia Road in rural Franklinton, LA, within Washington Parish, LA. The approaches are asphalt roadway with open ditch drainage. The bridge site has visible underground and overhead utility crossings, which will require consideration during design and coordination with Washington 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 and throughout the State.

WHY ROYAL?



PROXIMITY TO PROJECT

Our headquarters is less than 75 miles from the project location



PROCESSES & PROCEDURES

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



BRIDGE PROJECTS

Our team has completed bridge design in numerous coastal parishes 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 other entities 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 Surveyor has conducted the required surveying activities on roadway and bridge projects in the Greater New Orleans area.
- Subconsultant Horizon Engineering, LLC (Horizon) will serve as structural design subject matter experts, provide design support, and participate in technical and QA/QC reviews. Horizon's 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 services for numerous DOTD projects throughout southeast Louisiana since 2006.

PROJECT KICKOFF

Upon Notice of Award (NOA), Royal will be ready to mobilize and initiate design services. We will start by submitting our QA/QC Plan within 10 days of NOA and proceeding to prepare an initial project schedule. We will coordinate with the DOTD Project Manager to schedule an in-person design kickoff meeting, which will include a site visit with DOTD, Washington Parish, utility companies, our environmental subconsultant ELOS and our surveying subconsultant Basin present to clarify the project limits and to identify any poten-

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tial 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 Old Columbia Rd and existing infrastructure such as the existing bridge, drainage features, and utilities.
- » Identify potential project issues including:
 - There are overhead electrical utilities and underground gas lines are located near the project site. Potential relocations will be discussed with the Parish and utility owners.
- 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 A, 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 throughout 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: Old Columbia Rd Over Jamieson Creek, Washington Parish



PROJECT LOCATION

Contract No.: 4400030634 Off-System Highway Bridge Program: Old Columbia Rd Over Jamieson Creek, Washington Parish



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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 **
	Road, Bridge	4400024593, H.015009.5	LADOTD OSBR West Metairie Ave Bridge	N/A
Royal Engineers and		4400028466, H.015504.6	Crescent City Connection Decorative Lighting Project	\$159,169
Consultants, L.L.C.	CE&I/OV	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
		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
ELOS Environmental, L.L.C. Enviror	Environmental	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

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		44-0019337 / H.014268.5	LA-4 Creeks, Bear, Squirrel, Sugar, Bill's and Lost Creek Relief – Additional Tasks	\$278
	Environmental	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
ELOS Environmental, L.L.C.		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



20. CERTIFICATIONS/LICENSES

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



ROYAL ENGINEERS AND CONSULTANTS, L.L.C



August 11 - 12, 2021

Baton Rouge, Louisiana

Date:

Location:

An Lift

HORIZON ENGINEERING, L.L.C.



ATSSI

President, CEO

V0000046657

Verify at Flagger.com

JOHN KARLIN, SE, PE

ROYAL ENGINEERS AND CONSULTANTS, L.L.C.

6 STATECIVILSERVICE

LOUISIANA STATE CIVIL SERVICE arknowledges that **Benjamin Bartlett** has successfully completed the training course CPTP SCS Cybersecurity WBT May 02, 2022 This document is intended to be used solely for the purpose of nt is intended to be used solely fo currenting the individual's comple SCS's web-based training: CPTP SCS Cybersecurity WRT

ADD

El Walter



BRETT LIUZZA, PE



Brett Liuzza

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for completing the

Traffic Engineering Analysis Process & Report Class Module 1, 2 & 3





PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Trainit	ng Course
2/18/2022 to 2/18/2026	P - Suitt
Training Valid Through	Director of Training
New Orleans, LA	Alace redachan
Location	President, CEO
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LOUISIANA STATE CIVIL SERVICE



CPTP SCS Cybersecurity WBT

May 02, 2022

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



BASIN, L.L.C.

WESLEY EUSTIS, PE, PLS



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Registration Date: 12/14/2023

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Name		Туре	City	Status
ELOS ENVIRONMEN	ITAL, 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	Туре	City	Status
BASIN LLC	Limited Liability Company	NEW ORLEANS	Active
Previous Names Business: Charter Number: Registration Date:	BASIN LLC 44464485K 6/14/2021		

ROYAL ENGINEERS AND CONSULTANTS, L.L.C.



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. 4400030634 Off System Highway Bridge Program Old Columbia Over Jamieson Creek State Project No. H. 015941.5 Federal Aid Project No. H015941 Washington 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 16, 2025

Table of Contents

SUMMARY OF ROYAL'S QA/QC GOAL	.3
GLOSSARY	.3
DESIGN TEAM	. 3
SOFTWARE AND DOCUMENT CONTROL	.4
SURVEY PHASE	.5
DESIGN PHASE	.5
DESIGN CALCULATIONS, PLAN DEVELOPMENT, AND REVIEW	.5
QC PROCESS	. 5
QUALITY ASSURANCE	. 5
RED TEAM REVIEW (FINAL REVIEW BEFORE SUBMISSION)	.6
FINAL REVISIONS BASED UPON RED TEAM REVIEW	.6
APPENDIX	.6

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 assistance from Horizon Engineering, LLC (Horizon). 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 costeffective 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 ensure 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.

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
Reviewer (Structural)	John Karlin, S.E., P.E.	Horizon
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
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

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.StandardPlansshouldbelistediftheyareutilized.

____ 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
- <u>Construction Cost Estimate</u>
- ____ 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						
			-			
Detailors						
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 (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)	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.