DOTD FORM: 24-102

Contract No. 4400027735

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	**I-69 Frontage Road (Stonewall Frierson to Ellerbe Road)** **I-69 Frtg Rd. Conn. (Ellerbe Rd. to LA 1)** **I-69 Frontage Road Connector (Stonewall Frierson)**
2. Contract Number(s) as shown in the advertisement	**4400027735**
3. State Project Number(s), if shown in the advertisement	**H.005184** **H.014054** **H.014056**
4. Prime consultant name (name must match as registered with the Louisiana Secretary of State where such registration is required by law)	**SIGMA CONSULTING GROUP SOUTHEAST, INC.**
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.0001410** **VF.0000302**
6. Prime consultant mailing address	**10305 Airline Highway, Baton Rouge, LA 70816**
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	**10305 Airline Highway, Baton Rouge, LA 70816**
8. Name, title, phone number, and email address of prime consultant's contract point of contact	**Robert J. Lear, Jr., PE, LSI – Vice President** **225-298-0800, rlear@sigmacg.com**
9. Name, title, phone number, and email address of the official with signing authority for this proposal	**Robert J. Lear, Jr., PE, LSI - Vice President** **225-298-0800, rlear@sigmacg.com**

10. This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response.	 Signature above shall be the same person listed in Section 9: October 3, 2023 Date
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): — Firm(s)' %: CD&C, Inc. — 4% Vectura Consulting Services, LLC — 2% **Total DBE Participation** — **6%** **Our team exceeds DOTD's DBE Goal of 5%**

12. Past Performance Evaluation Discipline Table:

Past Performance Evaluation Discipline(s)	% of Overall Contract	**Sigma Consulting Group, Inc.**	Lazenby & Associates, Inc.	CD&C, Inc. (DBE)	Huval & Associates, Inc.	GeoEngineers, Inc.	Vectura Consulting Services, Inc. (DBE)	Each Discipline must total to 100%
Road	**65%**	100%						100%
Bridge	**15%**	10%			90%			100%
Survey	**15%**		75%	25%				100%
Geotech	**3%**					100%		100%
Traffic	**2%**						100%	100%
Identify the percentage of work for the **overall contract** to be performed by the prime consultant and each sub-consultant.								
Percent of Contract	**100%**	**67%**	**11%**	**4%**	**13%**	**3%**	**2%**	**100%**

13. **Firm Size**

Firm Name	DOTD Job Classification	Number of Personnel Committed to this Contract	Total Number of Personnel Available in this DOTD Job Classification (if needed)
Sigma Consulting Group, Inc.	Principal	1	1
	Supervisor - Eng.	3	5
	Engineer	6	7
	Engineer Intern	4	4
	CADD Operator	3	3
	CADD Technician	3	3
	Surveyor	0	1
	Instrument Man	0	2
	Rodman	0	1
	Sr. Technician	0	1
	Clerical	2	4
Lazenby & Associates, Inc.	Accountant	0	1
	CADD Drafter	1	2
	CADD Technician	2	3
	Clerical	0	2
	Engineer	3	6
	Engineer Intern	2	2
	Inspector	0	2
	Inspector - Certified	0	2
	Instrument Man	2	2
	Party Chief	2	2
	Principal	1	1
	Rodman	2	3
	Supervisor Engineer	2	3
	Surveyor	1	1
	Technician	0	1

13. **Firm Size**

Firm Name	DOTD Job Classification	Number of Personnel Committed to this Contract	Total Number of Personnel Available in this DOTD Job Classification (if needed)
CD&C, Inc.	Surveyor	2	3
	Party Chief	3	5
	Instrument Man	2	2
	Rodman	2	3
	CADD Operator	1	1
	Senior Technician	3	4
	Supervisor-Other	1	1
Huval & Associates, Inc.	Principal	1	1
	Supervisor Engineer	2	5
	Engineer	3	12
	Engineer Intern	2	5
	Technician	1	2
	CADD Technician	2	3
	CADD Drafter	2	4
	Inspector - Certified	1	6
GeoEngineers, Inc.	Administrative	1	4
	CADD Technician	1	1
	Driller	3	3
	Engineer	2	5
	Engineer Intern	1	4
	Environmental Professional	0	3
	Principal	3	7
	Sr. Technician	1	2
	Technician	1	6
Vectura Consulting Services, LLC	Supervisor	2	2
	Engineer	4	4
	Engineer Intern	1	1
	Inspector	2	2

14. Organizational Chart:

LEGEND:

- ● Sigma Consulting Group, Inc.
- ● Lazenby & Associates, Inc.
- ● Civil Design & Construction, Inc.
- ● Huval & Associates, Inc.
- ● GeoEngineers, Inc.
- ● Vectura Consulting Services, LLC
- (#) Meets MPR Criteria
- ◆ Meets Work Zone Training Requirements
- ▶ Meets Traffic Engineering Process & Report Training Requirements

PRINCIPAL IN CHARGE
● Miles B. Williams, PE (1, 2, 3, 6)

PROJECT MANAGER
● Robert J. Lear, Jr., PE, LSI (6) ◆

QA / QC MANAGER
● Gregory P. Sepeda, PE (6)

ROADWAY / DRAINAGE / MAINTENANCE OF TRAFFIC / COST ESTIMATING
● Robert J. Lear, Jr., PE, LSI (6) ◆
● Joshua K. Renard ◆
● Bryan K. Harmon, PE (6)
● Kelsie L. Bankston, PE
● Alex D. Farr, PE ◆
● Brandon J. Bourgoyne, PE

LOCATION & SURVEY
● Jerry Lazenby, PE, PLS (9) ◆
● Paul D. Fryer, PE, PLS (9) ◆
● Ronald J. Riggin, PE, PLS (9) ◆
● Randy C. Hammons, PE ◆
● James S. Ellinburg, PE ◆
● Noah J. Sampognaro, EI ◆
● Ralph Burgess, PLS (9) ◆
● Chris Ballard, PLS (9) ◆

BRIDGE / STRUCTURAL
● Justin Peltier, PE (4)
● Colby Guidry, PE (5)
● Reid Romero, PE
● Matthew Hebert, PE
● Rudy McLellan, PE (4)

GEOTECHNICAL
● James Aronstein, PE (7)
● Larry Sant, PE (7)
● David Sauls, PE (7)

TRAFFIC, ITS & TMP
● Sheelagh Brin Ferlito, PE, PTOE (8) ◆ ▶
● Laurence Lambert, PE, PTOE, PTP (8) ◆ ▶
● Alex D. Farr, PE ◆ ▶

15. Minimum Personnel Requirements:

MPR No. Do not insert wording from ad	Personnel being used to meet the MPR (Individual(s) may not satisfy more than one MPR unless specifically allowed by Attachment B of the advertisement)	Firm employed by	Type of license and discipline meeting MPR/ certification & number (Ex: PE # - Civil)	State of license	License / certification expiration date
1, 2, 3	Miles Williams, PE	Sigma Consulting Group, Inc.	PE No. 23094 - Civil	LA	03/31/2024
4	Justin Peltier, PE Rudy McLellan, PE	Huval & Associates, Inc. Huval & Associates, Inc.	PE No. 34765 - Civil PE No. 19994 – Civil	LA LA	09/30/2025 03/31/2024
5	Colby Guidry, PE	Huval & Associates, Inc.	PE No. 31338 – Civil	LA	09/30/2024
6	Robert Lear, PE, LSI Gregory Sepeda, PE Bryan Harmon, PE Miles Williams, PE	Sigma Consulting Group, Inc. Sigma Consulting Group, Inc. Sigma Consulting Group, Inc. Sigma Consulting Group, Inc.	PE No. 29394 – Civil PE No. 26669 – Civil PE No. 22595 – Civil PE No. 23094 - Civil	LA LA LA LA	03/31/2025 09/30/2024 03/31/2025 03/31/2024
7	James Aronstein Larry Sant, PE David Sauls, PE	GeoEngineers, Inc. GeoEngineers, Inc. GeoEngineers, Inc.	PE No. 11794 – Civil PE No. 35625 – Civil PE No. 23270 – Civil	LA LA LA	03/31/2025 09/30/2024 03/31/2025
8	Sheelagh Brin Ferlito, PE, PTOE Laurence Lambert, PE, PTOE, PTP	Vectura Consulting Services, LLC Vectura Consulting Services, LLC	PE No. 25383 – Civil PE No. 29901 – Civil	LA LA	09/30/2025 03/31/2024
9	Jerry Lazenby, PE, PLS Paul Fryer, PE, PLS Ronald Riggin, PE, PLS Ralph Burgess, PLS Chris Ballard, PLS	Lazenby & Associates, Inc. Lazenby & Associates, Inc. Lazenby & Associates, Inc. Civil Design & Construction, Inc. Civil Design & Construction, Inc.	PLS No. 2313 – Surveyor PLS No. 4806 – Surveyor PLS No. 5119 – Surveyor PLS No. 5040 – Surveyor PLS No. 5033 - Surveyor	LA LA LA LA LA	03/31/2024 09/30/2025 03/31/2025 09/30/2024 09/30/2024

16. **Staff Experience**

Firm Name	Name	Project Responsibilities
Sigma	Robert J. Lear, Jr., PE, LSI	Project Manager / Road Design
	Miles B. Williams, PE	Principal-In-Charge
	Gregory P. Sepeda, PE	QA/QC Manager
	Bryan K. Harmon, PE	Road & Drainage Design
	Alex D. Farr, PE	Road Design, MOT, Traffic
	Joshua K. Renard, PE	Road Design, Utility Coordination
	Kelsie L. Bankston, PE	Road Design
	Brandon J. Bourgoyne, PE	Road & Drainage Design
Lazenby & Associates, Inc.	Paul D. Fryer, PE, PLS	Location & Survey
	Ronald J. Riggin, II, PE, PLS	Location & Survey
	Randy C. Chammons, PE	Location & Survey
	James S. Ellingburg, PE	Location & Survey
	Noah J. Sampognaro, EI	Location & Survey
	Jerry G. Lazenby, PE, PLS	Location & Survey
CD&C, Inc.	Karla E. Weston, PE	Location & Survey
	Ralph Burgess, PLS	Location & Survey
	Chris Ballard, PLS	Location & Survey
	Madison Mills, PLS	Location & Survey
	Philip Dupree	Location & Survey
Huval & Associates, Inc.	Colby J. Guidry, PE	Bridge Design
	Justin Peltier, PE	Bridge Design
	Matthew L. Hebert, PE	Bridge Design
	Reid Romero, PE	Bridge Design
	Rudolph (Rudy) McLellan, PE	Bridge Design
GeoEngineers, Inc.	James M. Aronstein, Jr., PE	Geotechnical
	Larry D. Sant, PE	Geotechnical Project Manager
	David P. Sauls, PE	Geotechnical QA/QC
Vectura Consulting Services, LLC	Sheelagh Brin Ferlito, PE, PTOE	Traffic, ITS & TMP
	Laurence Lucius Lambert, II, PE, PTOE, PTP	Traffic, ITS & TMP

Firm employed by: **SIGMA CONSULTING GROUP, INC.**

Name	**ROBERT J. LEAR, JR., PE, LSI**	Years of relevant experience with this employer	**25**
Title	**Vice President, Sr. Project Manager**	Years of relevant experience with other employer(s)	**3**
Degree(s) / Years / Specialization	**BS / 1996 / Civil Engineering**	Discipline	**Civil**
Active registration number / state / expiration date	**PE.29394 / LA / 03-31-2025**	Year Registered	**2001**
Contract role(s) / brief description of responsibilities	**PROJECT MANAGER, ROAD DESIGN**		**MEETS MPR 6**

RESPONSIBILITIES: Mr. Lear will be the project manager and serve as the lead road design engineer. He will use his 28+ years of DOTD project design and management experience to ensure that these 3 projects are properly coordinated, well documented, and engineered to meet the goals of DOTD.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
03/13 – 07/22	**I-10: East Jct. I-49 to LA 328, Lafayette & St. Martin Parishes (H.003003)** **I-10: LA 328 to LA 347, St. Martin Parish (H.003014)** **I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish (H.003014)** Mr. Lear served as the project manager and lead road design engineer of record for capacity and pavement preservation improvements for I-10 in Lafayette. These 3 projects were designed concurrently under a road design retainer and constructed under 3 separate construction contracts. He designed roadway geometrics, drainage, graphical grades, ramp terminals, roundabout intersections, and construction sequencing. He also coordinated the multi-discipline plan set packaging, quantity computations, specs, special provisions, pay items, design reports, design waivers, design exceptions, and utility conflicts. He played an active role in construction support as well.
01/13 - Current	**I-49 South: US 90 & Ambassador Caffery Interchange, Lafayette Parish, (H.002868)** Mr. Lear is a roadway design engineer for a new interchange on future I-49 at Ambassador Caffery Parkway in Lafayette, LA. Mr. Lear is responsible for the horizontal and vertical geometric design and road plan production of a 4-tiered interchange, 8 lane mainline, 2-lane one way frontage roads and U-Turns.
05/20 - Current	**I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), E. Baton Rouge Parish, LA (H.004100)** Mr. Lear is a roadway design engineer for the widening of I-10, interchange improvements, and surface street improvements through Baton Rouge. His responsibilities include urban roadway, freeway, and interchange geometrics, profile design, typical sections, design reports, establishing required right of way, and plan preparation using Microstation and Inroads. He is part of the roadway task force which collaborates with the design team, DOTD, and the CMAR contractor.
04/02 – 04/12	**Jones Creek Rd Improvements Tiger Bend Rd. – Coursey Blvd., East Baton Rouge Parish, LA (H.007137)** Mr. Lear was the project manager and lead road design engineer for the widening of a 2-lane road to a 5-lane urban section. He designed roadway geometrics, intersections, sidewalks, residential and commercial drives, pavement markings, and cross sections. He also managed the topographic survey and worked under PLS supervision for the preparation of right-of-way maps.

10/20 - Current	**I-10 & I-12 College Drive Flyover Ramp Design-Build (CE&I/OV), E. Baton Rouge Parish, LA (H.013897)** Mr. Lear is serving as the lead design review engineer for the following design units: definitive design, clearing & grubbing, roadway, drainage, maintenance of traffic, pavement marking & signing, SWPPP and TMP Level 4. His responsibilities include technical reviews of calculations and drawings for conformance to the Minimum Guidelines, Project Technical Performance Specifications, and Contract Documents.
05/21 – 03/23	**LA 352 Drainage Improvement, St. Martin Parish, LA (H.014415)** Mr. Lear was the project manager and design engineer of record for drainage improvements along LA 352 in Henderson, LA. The project includes removing several undersized side drains and side road cross drains with a 10x6 RCB to alleviate regional flooding problems near the I-10 Henderson exit. The design also incorporates a drainage bypass system to balance flows near the interchange. Mr. Lear is responsible for coordinating the project with the District 03 administrator, DTOE, area engineer, and utility coordinator, design of the drainage systems, maintenance of traffic plans, and construction plan development.
08/18 – 10/22	**I-220/I-20 Interchange & BAFB Access Design-Build, Bossier Parish, LA (H.003370)** The project includes adding ramps to the existing I-20/I-220 Interchange and providing full access to the Barksdale Air Force Base via a new 4-lane rural arterial roadway. Mr. Lear is the Roadway Design Engineer for this LaDOTD Design-Build Project. He is responsible for preparing the geometric design criteria reports, design exceptions, horizontal and vertical geometrics for the interstate, diagonal and loop ramps, C-D road, and rural arterial; superelevation transitions, typical sections, plan profile sheets, geometric control, geometric layout, geometric details, cross sections, drainage design including cross drains, storm drains, side drains, roadside ditches, existing and design drainage maps, clearing and grubbing plans, and construction support. Mr. Lear also was responsible for QA/QC reviews and/or independent reviews of the Stormwater Pollution Prevention Plan, Interchange Modification Report re-evaluation, traffic control plans, signing and striping plans, and transportation management plan.
01/14 – 07/16	**LA342: Roundabout @ LA 724, Lafayette Parish, LA (H.002163)** Mr. Lear served as the project manager and road design engineer for a 4-legged single lane roundabout in Lafayette Parish. He was responsible for the horizontal and vertical geometric design, typical sections, suggested sequencing, permanent pavement markings, permanent signing, quantities and opinion of probable costs for this project. He also supervised all survey and SUE efforts. Utility locates included QL-D and QL-C locates. Mr. Lear coordinated with District 03 for utility relocation requirements and needs.
2006 - 2011	**LA 73 Improvements (Airline Highway to I-10) (700-30-0052)** Mr. Lear was the quality control engineer for the widening of LA73 to a 3-lane section in Ascension Parish. His responsibilities included horizontal and vertical geometric design review, plan profile and geometric detail checking, permanent pavement marking and permanent signing checking, earthwork and cross section checking, quantity checking, and plan review for LA DOTD conformity.

Firm employed by: **SIGMA CONSULTING GROUP, INC.**

Name	**MILES B. WILLIAMS, PE**	Years of relevant experience with this employer	**33**
Title	**President**	Years of relevant experience with other employer(s)	**8**
Degree(s) / Years / Specialization	**BS / 1983 / Civil Engineering**	Discipline	**Civil**
Active registration number / state / expiration date	**PE.23094 / LA / 03-31-2024**	Year Registered	**1988**
Contract role(s) / brief description of responsibilities	**PRINCIPAL-IN-CHARGE**		**MEETS MPRs 1, 2, 3, 6**

RESPONSIBILITIES: Mr. Williams will be the principal-in-charge and provide overall contract management and project oversight. He will also mentor Sigma's engineers in design practices and apply his 40+ years of experience in DOTD project delivery to ensure a successful project outcome.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
03/13 – 07/22	**I-10: East Jct. I-49 to LA 328, Lafayette & St. Martin Parishes (H.003003)** **I-10: LA 328 to LA 347, St. Martin Parish (H.003014)** **I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish (H.003014)** Mr. Williams served as the principal-in-charge and road design engineer for capacity and pavement preservation improvements for I-10 in Lafayette. These 3 projects were designed concurrently under a road design retainer and constructed under 3 separate construction contracts. He provided overall contract management, designed sequence of construction plans, and mentored the roadway design calculation and plan preparation process. He played a supportive role in construction support as well.
01/13 - Current	**I-49 South: US 90 & Ambassador Caffery Interchange, Lafayette Parish, (H.002868)** Mr. Williams is the road design engineer of record for a new interchange on future I-49 at Ambassador Caffery Parkway in Lafayette, LA. He is responsible for the horizontal and vertical geometric design, subsurface and open ditch drainage design, and road plan production of a 4-tiered interchange, 8 lane mainline, 2-lane one way frontage roads and U-Turns. He also is responsible for coordinating the frontage road extensions and interchange alternative design for future/interim condition implementation.
05/20 - Current	**I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), E. Baton Rouge Parish, LA (H.004100)** Mr. Williams is the Road Design Lead Professional for the replacement of I-10, interchange improvements, and surface street improvements through Metro Baton Rouge. His responsibilities include road and drainage design, complex interchange geometric design, maintenance of traffic / sequencing plans, coordinating with the CMAR contractor, design and constructability reviews, value engineering assessments, cost estimating, project phasing for GMP limit determination, proposed right of way and control-of-access limit determination, utility coordination, and public involvement.
04/02 – 04/12	**Jones Creek Rd Improvements Tiger Bend Rd. – Coursey Blvd., East Baton Rouge Parish, LA (H.007137)** Mr. Williams was the principal-in-charge for the Jones Creek Road Improvements project for LA DOTD. The project involves widening an existing 2-lane roadway to a 5-lane curb and gutter roadway with subsurface drainage. He was responsible for contracts, geometrics, road design, sequence of construction, signing and coordination of traffic signalization. He was also the project manager during the topographic and boundary survey and R/W map preparation phases.

12/14 – 04/19	**S. Acadian Thruway (Perkins Rd - LA 73), East Baton Rouge Parish (H.011261)** Mr. Williams was the principal-in-charge for the safety project designed to reduce the number of accidents along the stretch of Acadian Thruway. The project includes replacing the asphalt overlay and improving the intersection design at Claycut Road. Mr. Williams reviewed proposed safety and sidewalk improvements as they were implemented in the project.
04/18 - Current	**Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project, Plaquemines and Jefferson Parish, LA (H.004791)** Sigma is a design subconsultant providing drainage design for this alternative delivery project. Mr. Williams is serving as project principal and hydraulic design engineer. His work entails liaison with the prime consultant, builder, concessionaire and LADOTD. He is also assisting in the design of the drainage system for the roadways throughout the project including storm sewer design, drainage plans preparation and generation of quantities.
10/20 - Current	**I-10 & I-12 College Drive Flyover Ramp Design-Build (CE&I/OV), E. Baton Rouge Parish, LA. (H.013897)** Road Design and Drainage Design Reviewer. Mr. Williams is serving as a road design and drainage design reviewer, providing support services to DOTD through the Owner Verification Team (OVT) for this Project. This project consists of modifying the I-10 West/College Drive exit into separate I¬12 West and I-10 West exits. Mr. Williams' responsibilities include participation in the progress reviews of each Design Unit and Ready for Construction (RFC) Plan submittals. These reviews include roadway plans, drainage plans, geometrics and construction sequencing with consideration being given to DOTD Design Guidelines, Hydraulics Manual requirements, Standard Details and Specifications.
08/18 – 02/20	**I-220/I-20 Interchange & BAFB Access Design-Build, Bossier Parish, LA. (H.003370)** Project Principal. Mr. Williams has served as the Project Principal on this Design-Build Team lead by James Construction Group and Huval and Associates. Miles supervised all of Sigma's efforts on this project which included all urban interstate highway design and plan preparation, drainage design and pavement marking plans. The interchange design includes complex geometrics, sequencing of construction while maintaining traffic on I-20 and coordination with a major railroad and the US Air Force technical team at Barksdale Air Force Base.

Firm employed by: **SIGMA CONSULTING GROUP, INC.**

Name	**GREGORY P. SEPEDA, PE**	Years of relevant experience with this employer	**27**
Title	**Vice-President, Chief Engineer**	Years of relevant experience with other employer(s)	**5**
Degree(s) / Years / Specialization	**BS / 1990 / Civil Engineering** **MS / 2002 / Structural Engineering**	Discipline	**Civil**
Active registration number / state / expiration date	**PE.26669 / LA / 09-30-2024**	Year Registered	**1996**
Contract role(s) / brief description of responsibilities	**QA/QC MANAGER**		**MEETS MPR 6**

RESPONSIBILITIES: Mr. Sepeda will be the QA/QC manager and oversee the quality control and checking processes. This includes periodic reviews of all plans and calculations, and ensuring proper documentation of the checking process is followed by all team members.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
10/16 – 12/20	**I-10: Highland to LA 73 Design-Build Project, E. Baton Rouge and Ascension Parish, LA (H.009250)** Mr. Sepeda served as the project Design Quality Manager (DQM) for all design efforts on the project. As the DQM, he was responsible for the quality control of all Work conducted by the Designer. Mr. Sepeda developed a project specific Design Quality Plan as well as QA processes to ensure that the design activities comply with the Contract requirements. As a component of the QA process, he also performed design assessment reviews of every submittal to review for general compliance with the requirements of the Contract, taking into consideration the proposed method of construction, and covered areas such as: design criteria; codes and standards; constructability; and fatigue and durability performance. For critical structural members, Mr. Sepeda also performed an independent analytical design check using separate calculations to verify the structural adequacy and integrity of the members. This analytical check included the following: structural geometry & modeling; material and member properties; loads; and structural boundary conditions.
01/13 - Current	**I-49 South: US 90 & Ambassador Caffery Interchange, Lafayette Parish, (H.002868)** Mr. Sepeda assumed the role of lead bridge engineer for the final design and plan development of a new bridge structure over Ambassador Caffery Boulevard. The proposed structure was designed according to the AASHTO L.R.F.D. design guide and utilized the newly developed "LG" prestressed concrete girders. Mr. Sepeda served in the checking and QC role on the project, while supervising the development of the construction plans and cost estimate.
08/12 - Current	**Hooper Road (LA 408) Improvements, East Baton Rouge Parish, LA (H.002316/CP No. 12-CS-HC-0017)** Mr. Sepeda is the project manager for the widening of an existing 2-lane roadway to a 4-lane boulevard to increase capacity. The project began with an Environmental Assessment (E.A.) and NEPA environmental documentation. Mr. Sepeda worked with all technical team members and successfully obtained a FONSI. As the project continues into plan development, Mr. Sepeda is coordinating the topographic survey to identify major topography and existing utilities, as well as developing geometry consistent with MOVEBR guidelines. With the route being a state highway, coordinating with LA DOTD is a necessity. Sigma facilitated the development of a traffic study with a subconsultant, following criteria established by LA DOTD. A roundabout is being designed at a major cross road. Sigma performed a watershed analysis and is upgrading five major cross drains.

12/20 – Current	**Jones Creek Road – Seg. 1A, East Baton Rouge Parish, LA (19-CP-HC-0036) (02/20-Present)** Mr. Sepeda is the project manager for the extension of a new roadway south from a new intersection at Jefferson Highway to a new intersection at Airline Highway. The project began with a design study included determining design criteria, horizontal and vertical geometry, and typical sections all compliant with MOVEBR guidelines. As the project continues into plan development, Mr. Sepeda is coordinating the topographic survey to identify major topography and existing utilities, as well as the efforts of traffic and environmental subconsultants. With Airline Highway being a state highway, coordinating with LA DOTD is a necessity. Mr. Sepeda is also evaluating the potential for a detention pond and green infrastructure.
04/02 – 0412	**Jones Creek Road Improvements, East Baton Rouge Parish, LA (H.007137)** Mr. Sepeda was responsible for the quality control / quality assurance for the design of a 5-lane urban roadway from Tiger Bend Road to George O'Neal Road. With a special focus on the drainage, utility conflict points, and maintenance of traffic impacts, he helped produce a final deliverable with minimal disruptions to the local residents. He specially coordinated the design and placement of a large 36" sanitary sewer force main with the proposed roadway construction. Mr. Sepeda also prepared the safety performance computations per the Predictive Method of the Highway Safety Manual.
03/13 – 11/16	**I-10: East Jct. I-49 to LA 328, Lafayette & St. Martin Parishes, LA. (H.003003)** Project Engineer: Mr. Sepeda oversaw the development of all sequencing and the Transportation Management Plan (TMP) for the I-10 widening project from I-49 to the Breaux Bridge. The project for capacity and pavement replacement of 6.7 miles of Interstate Highway included median barrier divided freeway with superelevation, bridge replacement and widening, local road pier protection, and two interchanges. Because of the magnitude of the project, an Initial Financial Plan was developed in accordance with FHWA's Major Project Financial Plan Guidance. This plan documented the project schedule, value engineering considerations, construction alternatives, and overall project costs. A risk-based, probability method construction cost estimate was prepared. Considering various risk items, Mr. Sepeda performed a Monte Carlo simulation to create a probability distribution and range of reasonable construction cost.
01/16 – 11/19	**Pecue Lane / I-10 Interchange, East Baton Rouge Parish, LA (H.003047) (01/16 – 11/19)** Mr. Sepeda was the lead bridge designer to widen two (2) prestressed concrete girder structures over Ward's Creek along the mainline I-10 roadway. Both structures must be widened under traffic. The design must match the existing structure type but utilize current AASHTO LRFD Bridge Design manual and design criteria. Sigma's project scope also includes the replacement of a slab span structure over Ward's Creek along the local roadway south of the proposed interchange structure.
11/13 – 11/19	**LA 3213 Gramercy Bridge Approach (Westbank), St. John the Baptist Parish, LA (H.002960)** Mr. Sepeda is the project manager for the project consists of constructing a new overpass along the existing horizontal alignment on LA 3213 to create a grade separation over the existing Union Pacific railroad tracks while remaining inside the existing right-of way and includes the design of an on-site diversion to route traffic around the construction zone. His responsibilities include road and bridge design, oversight of plan preparation, and QA/QC.

Firm employed by: **SIGMA CONSULTING GROUP, INC.**

Name	**BRYAN K. HARMON, PE**	Years of relevant experience with this employer	**8**
Title	**Vice President, Special Projects Engineer**	Years of relevant experience with other employer(s)	**33**
Degree(s) / Years / Specialization	**BS / 1981 / Agricultural Engineering** **BS / 1982 / Civil Engineering**	Discipline	**Civil**
Active registration number / state / expiration date	**PE.22595 / LA / 03-31-2025**	Year Registered	**1987**
Contract role(s) / brief description of responsibilities	**ROAD & DRAINAGE DESIGN**		**MEETS MPR 6**

RESPONSIBILITIES: Mr. Harmon will be a road and drainage design engineer. He brings over 40 years of experience in roadway and drainage design, and is considered an expert in hydraulic analyses for transportation and water resources projects.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
03/13 – 07/22	**I-10: East Jct. I-49 to LA 328, Lafayette & St. Martin Parishes (H.003003)** **I-10: LA 328 to LA 347, St. Martin Parish (H.003014)** **I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish (H.003014)** Mr. Harmon performed roadway and drainage design for these 3 segments of I-10. He also performed superelevation computations and graphical grades to provide positive drainage along relatively flat grades in the median of the interstate. He was also responsible for QA/QC of the roadway plans and sequence of construction for the LA347 roundabouts and roadway improvements.
05/21 – 03/23	**LA 352 Drainage Improvement, St. Martin Parish, LA (H.014415)** Mr. Harmon is the lead hydraulic engineer for drainage improvements along LA 352 in Henderson, LA. The project includes removing several undersized side drains and side road cross drains with a 10x6 RCB to alleviate regional flooding problems near the I-10 Henderson exit. The design also incorporates a drainage bypass system to balance flows near the interchange. Mr. Harmon is responsible for performing HEC-RAS modeling and HYDRO-WIN calculations on the main outfall channel, developing drainage alternatives and associated costs, and QA/QC on the construction plans.
08/18 – 10/22	**I-220/I-20 Interchange & BAFB Access Design-Build, Bossier Parish, LA (H.003370)** Mr. Harmon was responsible for the evaluation and design of both the existing and proposed drainage systems for this new 4-lane rural arterial and roadway. In addition to the standard DOTD drainage evaluations for storm drain systems (inlets, pipes, box culverts, and bridges) consideration of impacts to the surrounding floodplain storage basins and wetlands had to be considered. The floodplain area along the southern limits of the project is also bisected by the KCSRR and is subject to significant backwater and overbank flooding from Red Chute Bayou. Due to the floodplain complexities associated with this lateral overflow storage area, coordination with the Bossier Levee District was required which included utilizing elements of thier 2-D Unsteady Flow Hec Ras Model for this region. Due to the lateral overflows and interchange of flows, consideration of bridge scour was evaluated for the KCSRR Overpass utilizing the HEC -RAS computer model.

10/20 - Current	**I-10 & I-12 College Drive Flyover Ramp Design-Build (CE&I/OV), E. Baton Rouge Parish, LA (H.013897)** Mr. Harmon is serving as both a road design and drainage design reviewer, providing support services to DOTD for this Project. This project consists of modifying the I-10 West/College Drive exit into separate I¬12 West and I-10 West exits. Mr. Harmon's responsibilities include participation in the progress reviews of each Design Unit and Ready for Construction (RFC) Plan submittals. These reviews include roadway plans, construction sequencing, primary drainage systems, open channel design…, with consideration being given to DOTD Design Guidelines, Hydraulics Manual, Standard Details and Specifications, and to potential impacts to the Wards Creek drainage basin and adjoining infrastructure developments. Having served as the Drainage Engineer, Chief Engineer, and ultimately the Director of Public works for the East Baton Rouge City-Parish, Mr. Harmon brings significant institutional knowledge of the local drainage and roadway systems within the parish and how they may react to this Project modification. He clearly understands the concerns that may be expressed by the local community and the need for proper public-private communication and partnership on a project of this magnitude.
05/20 - Current	**I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), E. Baton Rouge Parish, LA (H.004100)** Mr. Harmon is serving as Sigma's supervising Drainage Engineer for this major interstate improvement project from just east of the Mississippi River bridge crossing to just west of College Drive. Mr. Harmon is responsible for the final drainage design of the interstate collection systems, local frontage roads and drainage outfalls including the bridge hydraulic evaluation of the Acadian Thruway Bridge over Dawson Creek.
08/21 – 05/23	**LA 73: US 61 (Airline Hwy.) – LA 426 (Essen Lane), E. Baton Rouge Parish, LA (H.010652)** Mr. Harmon was the Project Manager for the development of preliminary and final plans to fully reconstruct existing LA 73, including complete pavement and base removal and replacement, curbs and gutters and sidewalks from Airline Hwy to the I-12 on-ramp near Drusilla Ln, and for concrete pavement patching and repair of damaged curbs and sidewalks from the I-12 on-ramp to Essen Lane. This plan development consists of all engineering services including a summary of estimated of quantities and cost.
10/20 - Current	**Rural Bridge Replacement Initiative Phase II (South), LA (440001338)** Mr. Harmon is serving as Sigma's supervising Hydraulic Design Engineer for the Phase II Rural Bridge Replacement Initiative. Hydrologic and hydraulic evaluations are being developed to provide a hydraulically suitable replacement for the existing bridge structures that have been designated for replacement under this program. All bridge hydraulic reports, data forms, and data tables are being prepared in accordance the current DOTD Hydraulics manual and design directives.

Firm employed by: **SIGMA CONSULTING GROUP, INC.**

Name	**ALEX D. FARR, PE**	Years of relevant experience with this employer	**9**
Title	**Project Manager**	Years of relevant experience with other employer(s)	**2**
Degree(s) / Years / Specialization	**BS / 2011 / Civil Engineering**	Discipline	**Civil**
Active registration number / state / expiration date	**PE.40426 / LA / 09-30-2024**	Year Registered	**2016**
Contract role(s) / brief description of responsibilities	**ROAD DESIGN, MOT, TRAFFIC**		

RESPONSIBILITIES: Mr. Farr will serve as a project engineer for the road design, construction sequencing, and traffic portions of the project

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
03/13 – 07/22	**I-10: East Jct. I-49 to LA 328, Lafayette & St. Martin Parishes (H.003003)** **I-10: LA 328 to LA 347, St. Martin Parish (H.003014)** **I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish (H.003014)** Mr. Farr was responsible for producing the Level 4 TMP for all 3 segments of I-10 in Lafayette. The TMPs pertained to alternate route analysis, public information, stakeholder involvement, traffic and safety data, temporary traffic control, and work zone impact management strategies. Mr. Farr was also responsible for the suggested sequence of construction, temporary signing, and quantity computations for each construction funding source and control section.
10/20 - Current	**Rural Bridge Replacement Initiative Phase II (South), LA (440001338)** Mr. Farr is responsible for the plan development of this project, which is for 16 state projects including 29 bridge replacement sites throughout south Louisiana. This includes preparing the Project Design Report (PDR) as well as the horizontal and vertical geometry. As some bridge sites are allowed to be closed for construction while others must remain open, Mr. Farr is also responsible for designing a detour route or diversion road, which includes a suggested sequence of construction. Mr. Farr is also responsible for the guardrail design at each bridge site. Along with plan development, Mr. Farr will be assisting the Project Manager in subconsultant coordination as well as invoicing and progress reporting to the LADOTD Project Manager
08/18 – 10/22	**I-220/I-20 Interchange & BAFB Access Design-Build, Bossier Parish, LA (H.003370)** Mr. Farr was responsible for performing the design of the ramp's profiles, including the super elevation calculations as well as the graphical grades. Mr. Farr was also responsible for the permanent striping plans, clearing and grubbing plans, and the quantity estimate.
10/20 - Current	**I-10 & I-12 College Drive Flyover Ramp Design-Build (CE&I/OV), E. Baton Rouge Parish, LA (H.013897)** Mr. Farr is serving as a road and construction sequencing design reviewer, providing support services to DOTD for this Project. This project consists of modifying the I-10 West/College Drive exit into separate I¬12 West and I-10 West exits. Mr. Farr's responsibilities include reviews of roadway plans and construction sequencing with consideration being given to DOTD Design Guidelines and Standard Details and Specifications.

05/20 - Current	**I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), E. Baton Rouge Parish, LA (H.004100)** Mr. Farr was responsible for developing the proposed vertical profiles along the entire mainline corridor as well as their respective service roads, surface streets, entrance, and exit ramps. This included determining existing vertical clearance along the corridor and adjusting the profile to meet the minimum vertical clearance per LA DOTD minimum design guidelines. This was performed along this corridor by using as-builts pertaining to their respective locations. Mr. Farr was also responsible for calculating the roadway and bridge construction costs for the Project Opinion of Probable Costs
01/17 - Current	**I-49 South: US 90 & Ambassador Caffery Interchange, Lafayette Parish, LA (H.002868)** Mr. Farr was responsible for the storm sewer drainage design along the northbound and southbound service roads for this project. Mr. Farr was also responsible for preparing a traffic signal plan including a traffic signal warrant analysis as well as an operational analysis concerning the two new proposed signals at the NB and SB service roads and Ambassador Caffery. Mr. Farr also developed the Transportation Management Plan (TMP) for this project to minimize impacts to the traveling public throughout construction.
10/16 – 12/20	**I-10: Highland to LA 73 Design-Build Project, E. Baton Rouge and Ascension Parish, LA. LADOTD.** Project Engineer. Mr. Farr was responsible for performing the Transportation Management Plan (TMP) as well as the Safety Analysis for this project to determine what safety concerns correlated to the construction of this segment. Mr. Farr was also responsible for the suggested sequence of construction, guardrail design, and the quantity estimate for the above mentioned project**.**

Firm employed by: **SIGMA CONSULTING GROUP, INC.**

Name	**JOSHUA K. RENARD, PE**	Years of relevant experience with this employer	**17**
Title	**Project Manager**	Years of relevant experience with other employer(s)	**0.5**
Degree(s) / Years / Specialization	**BS / 2006 / Civil Engineering**	Discipline	**Civil**
Active registration number / state / expiration date	**PE.36015 / LA / 03-31-2025**	Year Registered	**2011**
Contract role(s) / brief description of responsibilities	**ROAD DESIGN, UTILITY COORDINATION**		

RESPONSIBILITIES: Mr. Renard will serve as a road and drainage design engineer. He will also be responsible for coordinating with utilities and pipelines and developing the utility conflict matrix for each project.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
10/16 – 12/20	**I-10: Highland to LA 73 Design-Build Project, E. Baton Rouge and Ascension Parish, LA (H.009250)** Mr. Renard served as the utility coordinator for this interstate design build project. He communicated with and gathered information from utility owners to ensure that the road was designed and the contractor could proceed without conflict. Mr. Renard coordinated efforts to have telecommunications, water, and gas lines marked in the field and then led efforts to have Level A test holes performed to ensure a successful no-conflict design
01/22 - Current	**LA 408: Hooper Road (Blackwater Bayou to Joor Rd.) East Baton Rouge Parish, LA (H.002316/CP No. 12-CS-HC-0017)** Mr. Renard was the project manager for the 5-lane road widening project in the city of Central. This 2-mile rural road includes a new 2-lane roundabout and accommodates pedestrians, bicyclists and vehicles. His responsibilities included roadway and drainage design, plan preparation, utility coordination, and SUE services including QL-B designations and QL-A locates.
01/14 – 12/16	**LA347: Roundabout @ Melancon Road, St. Martin Parish, LA (H.009456)** Mr. Renard served as a project engineer for the design of a single lane roundabout in St. Martin Parish. He designed the typical sections and graphical grades for the approach legs, the splitter islands, and the transition to the existing roadways. He also prepared quantities for the project.
01/14 – 07/16	**LA342: Roundabout @ LA 724, Lafayette Parish, LA (H.002163)** Mr. Renard served as a project engineer for the design of a single lane roundabout in Lafayette Parish. He designed the typical sections and graphical grades for the approach legs, the splitter islands, and the transition to the existing roadways. He also prepared quantities for the project.
04/18 – Current	**Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project, Plaquemines and Jefferson Parish, LA (H.004791)** Mr. Renard served as the drainage design Quality Control checker for this road design project. His efforts ensure that the project's drainage meets the requirements of the owner, parish and project specifications. This included technical checking for the existing and design drainage maps, HydroWIN calculation checks, drainage plan profile checking, and hydraulic computation book checking.

Firm employed by: **SIGMA CONSULTING GROUP, INC.**

Name	**KELSIE L. BANKSTON, PE**	Years of relevant experience with this employer	**2**
Title	**Project Engineer**	Years of relevant experience with other employer(s)	**3.5**
Degree(s) / Years / Specialization	**BS / 2018 / Civil Engineering**	Discipline	**Civil**
Active registration number / state / expiration date	**PE.47126 / LA / 03-31-2025**	Year Registered	**2022**
Contract role(s) / brief description of responsibilities	**ROAD DESIGN**		

RESPONSIBILITIES: Ms. Bankston will be responsible for roadway design

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
10/20 – Current	**Rural Bridge Replacement Initiative, LA** Ms. Bankston is managing and designing 4 bridge replacement projects included in this contract. This work includes assessing site conditions, deciding the structure type and size based on the hydraulics of the channel, and designing the roadway approaches. She is responsible for project management, roadway and slab span bridge design, construction plan preparation, quantity computations, and developing an opinion of probable costs.
2021 – 02/23	**LA 73: US 61 (Airline)–Essen Lane, East Baton Rouge, LA (H.010652)** This roadway transfer project involves replacement of the existing LA73 roadway with a new asphalt pavement section. Ms. Bankston assisted in setting up the base geometry using as-built drawings and survey data for the reconstruction of LA 73, including curb and gutter and sidewalks throughout the limits of the project. She was responsible for all quantity calculations, including compiling the quantity book, and the summary sheets. She also performed the QA/QC of the geometric details.
10/21 - Current	**I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), E. Baton Rouge Parish, LA (H.004100)** Ms. Bankston has assisted in the preparation of various submittals for this project. She has assisted in the typical section design, plan and profile preparation, required right of way and roadway geometrics for various sections and stages of this project, and is responsible for the graphical grading and superelevation design of multiple ramps throughout the corridor. She is responsible for documenting and tracking information, documents and comments received from LaDOTD and other consultants on the design team. Ms. Bankston has performed quantity calculations and prepared quantity tables for various submittal stages.
05/21 – 03/23	**LA 352 Drainage Improvement, St. Martin Parish, LA (H.014415)** This project involves channel improvements and adding subsurface drainage systems to an outfall channel adjacent to LA 352. Ms. Bankston is responsible for the typical sections, plan profiles, developing a suggested sequence of construction, diversion road design for maintenance of traffic, quantity computations, pay item list, and documentation of comments and responses.

Firm employed by: **SIGMA CONSULTING GROUP, INC.**

Name	**BRANDON J. BOURGOYNE, PE**	Years of relevant experience with this employer	**4**
Title	**Project Engineer**	Years of relevant experience with other employer(s)	**0**
Degree(s) / Years / Specialization	**BS / 2019 / Civil Engineering**	Discipline	**Civil**
Active registration number / state / expiration date	**PE.48025 / LA / 09-30-2025**	Year Registered	**2023**
Contract role(s) / brief description of responsibilities	**ROAD & DRAINAGE DESIGN**		

RESPONSIBILITIES: Mr. Bourgoyne will be responsible for roadway and drainage design

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
10/20 – Current	**Rural Bridge Replacement Initiative, LA** This project consists of 16 state projects including 29 bridge replacements throughout south Louisiana. Mr. Bourgoyne is the lead engineer for 5 of the 16 projects. He prepared the roadway plans and engineering calculations which include guardrail design, creating roadway alignments and profiles, and ditch design. He prepared the design criteria reports along with written justification for design waivers and exceptions where warranted for each project. Mr. Bourgoyne also calculated bridge hydraulic and scour and prepared reports for each bridge site. He determined large watershed areas, calculated the runoff discharges using either the SCS or USGS method, and created HEC-RAS models of both the existing and proposed bridge configurations.
2021 – 02/23	**Hooper Road (LA 408), East Baton Rouge Parish, LA (H.002316/CP No. 12-CS-HC-0017)** The project consists of improving Hooper Road in Central, LA from Blackwater Road to Sullivan Road. Mr. Bourgoyne created existing and proposed drainage computations including the following: existing drainage areas, calculated pre and post development stormwater parameters, created HEC-RAS models of the five existing major cross drains to evaluate existing and proposed conditions. Mr. Bourgoyne sized and designed reinforced box culverts for cross drains, open ditches and/or drainage structures and piped systems for storm drainage collection. He determined the off-site area that would overland flow directly to the roadway, as well as using the rational method for calculating the runoff. He also created the drainage plan and profile, existing and proposed drainage, and the summary of drainage structures. Mr. Bourgoyne performed calculations and plan preparation using HYDRWIN, Global Mapper, HEC-RAS, Excel, and Civil3D.
10/21 - Current	**I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), E. Baton Rouge Parish, LA (H.004100)** This project involves replacing the 6-lane I-10 roadway and bridge with an 8-lane section, new interchanges throughout the corridor length, and modifications to surface streets. Mr. Bourgoyne evaluated and designed drainage systems throughout the project corridor from the I-10/I-110 split to Acadian Thruway. He created an existing drainage report that showed the existing drainage systems areas for the entire length of the project. He created the design drainage report for both temporary and permanent drainage systems within 3 major drainage basins. Mr. Bourgoyne prepared proposed drainage systems, ditches, and spread calculations for interstate, ramps, and side streets. He also designed a bridge drainage system that would carry the first inch of runoff from the road to a water quality treatment area and limit stormwater spread.

Firm employed by: **LAZENBY & ASSOCIATES, INC.**

Name	**PAUL D. FRYER, P.E., P.L.S.**	Years of relevant experience with this employer	**37**
Title	**Senior Vice-President**	Years of relevant experience with other employer(s)	**2**
Degree(s) / Years / Specialization	**BS / 1984 / Civil Engineering**	Discipline	**Environmental, Civil & Land Surveyor**
Active registration number / state / expiration date	**PLS. 0004806/ LA / 09-30-2025** **PE.0023426 / LA / 09-30-2025**	Year Registered	**1987** **1997**
Contract role(s) / brief description of responsibilities	**LOCATION & SURVEY**		**MEETS MPR 9**

RESPONSIBILITIES: Survey Project Manager, QA-QC

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).

Mr. Fryer has over 37 years of experience in planning, surveying, designing, inspecting, and construction administration of transportation facilities. Mr. Fryer is familiar with LDOTD and AASHTO design standards for roadway design and plans development. Mr. Fryer has performed professional engineering and land surveying services on a variety of projects involving line and grade studies, major investment studies, location and Stage "0" studies as well as topographic surveys, property surveys, development of ROW maps. Mr. Fryer also has extensive experience in developing preliminary and final roadway plans on a variety of LDOTD projects, and has served in a QA-QC role on many different projects throughout his career.

Mr. Fryer is familiar with the LDOTD Location and Survey Manual for conducting topographic surveys, property surveys and developing right-of-way maps. He has overseen the development of right-of-way maps for various LDOTD projects for over 20 years.

Mr. Fryer has successfully completed the following continuing education classes, workshops, and seminars:

- LA Specific Traffic Control Technician Course, 2020 (refresher)
- LA Specific Traffic Control Supervisor Course, 2020 (refresher)
- National Environmental Policy Act (NEPA) and Transportation Decision Making

01/96 – 09/96	**State Project No. 038-03-0022: US 425 (Bastrop – Log Cabin), Morehouse Parish:** Mr. Fryer prepared preliminary roadway and bridge plans for expanded line and grade study. This project involved widening a 3.2-mile segment of US 425 to four lanes.
04/96 – 12/96	**State Project No. 038-03-0024: US 425 (Log Cabin – Junction LA 142), Morehouse Parish:** Mr. Fryer prepared preliminary roadway and bridge plans for expanded line and grade study. This project involved widening a 5.2-mile segment of US 425 to four lanes.
04/95 – 03/00	**State Project No. 043-01-0017: Dugdemona River and Relief Bridges, Jackson Parish:** Mr. Fryer prepared preliminary and final roadway plans. This project consisted of the construction of two voided slab span bridges (main bridge and relief structure) and roadway approaches on new alignment.
11/95 – 06/00	**State Project No. 172-01-0011: Bayou DeGlaise Bridge, Morehouse Parish:** Mr. Fryer prepared preliminary and final roadway and final roadway plans. This project consisted of the construction of a slab span bridge and roadway approaches on new alignment.

01/97 – 10/99	**State Project No. 026-05-0017: LA 15 (Sicily Island – Jct. LA 913), Catahoula Parish:** Mr. Fryer was responsible for preparation of preliminary and final roadway and bridge plans. This project consisted of widening a 4.5-mile segment of LA 15 to four lanes as part of the LA TIMED Program.
01/04 – 05/07	**State Project No. 700-30-0061: US 167, Lillie to Arkansas State Line, Union Parish:** Mr. Fryer served as project manager, roadway designer, and surveyor responsible for development of final roadway plans, and right-of-way maps. This project consisted of the conversion of a 7.2-mile section of a rural two-lane arterial route to a four-lane divided arterial route under the LA TIMED Program.
10/07 – 04/16	**State Project No. H.002622: Arkansas Road (LA 616), Ouachita Parish:** Mr. Fryer served as project manager, was responsible for QA-QC of the plans, and was surveyor in charge of right-of-way maps. This project consisted of widening a 3.2-mile portion of LA 616 from a two-lane section to a five-lane urban roadway, and included four multi-lane roundabouts.
07/10 – 05/18	**State Project No. H.003854: Bossier North-South Corridor from Route I-220/Swan Lake Road Interchange to Crouch Road, Bossier Parish:** Mr. Fryer served as project manager, was responsible for QA-QC of the plans, and was the surveyor in charge of right-of-way maps. This project consisted of reconstruction and realignment of a 3.7-mile section of Swan Lake Road and construction of a new 4.2-mile roadway connecting Swan Lake Road and Crouch Road. The southern portion of the project contains an urban three-lane section, while the northern segment is a rural, two-lane roadway. There are three bridge sites on this project.
02/18 - Current	**State Project No. H.007300: Kansas Lane – Garrett Road Connector and I-20 Improvements, Ouachita Parish:** Mr. Fryer serves as project manager, is responsible for QA-QC of the roadway plans, and prepared right-of-way maps for the widening of a section of Garrett Road crossing I-20 and connecting to Kansas Lane north of Millhaven Road and the KCS Railroad track to a four-lane arterial route. This project includes the design of five-multi lane roundabouts as well as interstate highway ramp improvements and frontage road realignments and improvements. Final plans for this project are currently 98% complete.
05/08 – 05/12	**State Project No. H.004780.5 – Kansas Lane Connector (Route US 80 to Route US 165) City of Monroe Urban systems, Ouachita Parish:** Mr. Fryer served as project manager and surveyor responsible for conducting topographic surveys, property surveys, and developing right-of-way maps as a sub-consultant to Denmon Engineering Co., Inc. This project involves construction of a four-lane urban arterial route around the University of Louisiana at Monroe connecting US 80 on the south end and US 165 on the northern end.
11/10 – 05/13	**Project Surveyor for Contract No. 4400000685: Retainer Contract for Professional Surveying Services – Statewide:** This retainer contract authorized 23 task orders for topographic surveys, property surveys and ROW maps over a 3-year period.
03/08 – 04/11	**Project Surveyor on Contract No. 4400000638: Retainer Contract for Professional Surveying Services – Statewide:** This retainer contract authorized 15 task orders for topographic surveys, property surveys and ROW maps over a 3-year period.
11/11 – 01/15	**Project Surveyor on Contract No. 4400001328: Retainer Contract For Professional Surveying Services – Statewide:** This retainer contract authorized 25 task orders for topographic surveys, property surveys and ROW maps over a 3-year period.
03/18 – 03/23	**Project Surveyor on Contract No. 4400012667: Retainer Contract For Professional Surveying Services – Statewide:** This retainer contract authorized 25 task orders for topographic surveys, property surveys and ROW maps over a 5-year period.
08/22 - Current	**US 165 Turn Lanes at Scott Drive, Ouachita Parish:** Mr. Fryer was responsible for QA-QC of the roadway plans for this project, which consists of adding a left and right turn lane on US 165 and traffic signal modifications at Scott Drive in Sterlington, Louisiana. This project is being funded by the Ouachita Parish School Board, and will be constructed under a LDOTD Project Permit.

Firm employed by: **LAZENBY & ASSOCIATES, INC.**

Name	**RONALD J. RIGGIN, II, P.E., P.L.S.**	Years of relevant experience with this employer	**11**
Title	**Project Surveyor**	Years of relevant experience with other employer(s)	**6**
Degree(s) / Years / Specialization	**BS / 2006 / Civil Engineering**	Discipline	**Civil & Land Surveyor**
Active registration number / state / expiration date	**PLS.0005119/ LA / 03-31-2025** **PE.0036016 / LA / 03-31-2025**	Year Registered	**2014** **2011**
Contract role(s) / brief description of responsibilities	**LOCATION & SURVEY**		**MEETS MPR 9**

RESPONSIBILITIES: Project Surveyor responsible for scheduling survey crews, conducting hydrographic surveys, and developing hydrographic survey submittals.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	Mr. Riggin is familiar with the requirements of the LDOTD Location and Survey Section for conducting topographic surveys, property surveys and hydrographic surveys. Mr. Riggin is responsible for quality control of all survey data obtained by survey crews in conducting topographic surveys, property surveys, and hydrographic surveys. Mr. Riggin has over five (5) year's experience in conducting and performing hydrographic surveys in rivers, lakes and bays. Mr. Riggin has successfully completed the LA Specific Traffic Control Technician course and the LA Specific Traffic Control Supervisor course in January, 2014 and the Traffic Control Supervisor Refresher course in October, 2016 and July, 2020.
07/13 – 06/16	**Retainer Contract No. 4400003471 – Retainer Contract For Professional Surveying Services – Statewide:** Project Surveyor responsible for coordination and supervision of survey field crews performing topographic surveys and property surveys on 14 Task Orders for an accumulated value of $436,473.00 for LDOTD State Projects at various locations in northern Louisiana.
10/12 – 06/16	**Project Surveyor for Contract No. 4400002862, S.P. # H.008768 – Hydrographic Survey Monitoring of Existing Bridges – Statewide (North Region):** Performed hydrographic surveys on 14 Task Orders for monitoring scour at major bridge sites in north Louisiana. Duties included supervision of survey crews, analysis of survey data, and the development of required hydrographic survey reports at the various bridge locations.
09/18 – 02/23	**Project Surveyor for Retainer Contract No. 4400012668 – Retainer Contract For Professional Hydrographic Surveying Services – Statewide (North Region):** Performed hydrographic surveys on major bridge structures in northern Louisiana for monitoring channel scour. Duties included supervision of field crews, analysis of survey data and development of required hydrographic survey reports at the various bridge locations for submission to the LDOTD.
02/23 - Current	**Project Surveyor for Retainer Contract No. 4400019714 – Retainer Contract for Professional Hydrographic Surveying Services-Statewide (North Region):** Performing hydrographic surveys on major bridge structures in northern Louisiana for monitoring channel scour. Duties include supervision and scheduling of field crews, analysis of field date and development of required hydrographic survey reports at the various bridge locations for submission to the LDOTD.

Firm employed by: **LAZENBY & ASSOCIATES, INC.**

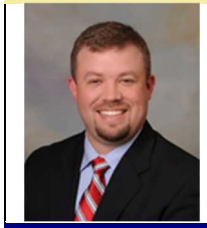
Name	**RANDY C. HAMMONS, P.E.**	Years of relevant experience with this employer	**22**
Title	**Project Engineer**	Years of relevant experience with other employer(s)	**8**
Degree(s) / Years / Specialization	**BS / 1993 / Civil Engineering**	Discipline	**Civil**
Active registration number / state / expiration date	**PE.0029504 / Louisiana / 09-30-2025**	Year Registered	**2001**
Contract role(s) / brief description of responsibilities	**LOCATION & SURVEY**		

RESPONSIBILITIES: Topographic Survey

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	Mr. Hammons has in excess of 26 years of experience in planning and designing highways and bridges on transportation projects in Louisiana, Arkansas, Mississippi, and Tennessee. Mr. Hammons has approximately 16 years of experience supervising and processing topographic survey data, including establishing survey control, calculating existing alignments, creating digital terrain models (DTM's), and developing existing drainage maps for LDOTD projects. Mr. Hammons has successfully completed the following continuing education classes, workshops, and seminars: • LA Specific Traffic Control Technician Course, 2020 (refresher) • LA Specific Traffic Control Supervisor Course, 2020 (refresher)
10/14 – 06/17	**State Contract No. 4400004541: Retainer Contract for Professional Surveying Services - Statewide:** Project Engineer processing topographic survey field data and preparing survey deliverables . It contained eight task orders to perform topographic surveys for various projects at a cost of $811,513 over a 3-year period. Some of the task orders for Topographic Surveys were as follows: **State Project No. H.001270.5 - LA I-X: Natchitoches By-Pass on Keyser Avenue and the Cane River in Natchitoches Parish (04/17-07/17):** Topographic Survey of road and bridge replacement project using GPS receivers, robotic total stations and a SX-10 terrestrial scanner. Project included hydrographic survey of a portion of Cane River at the LA 1-X bridge crossing. **State Project No. H.009997.5 - US 167: Johnston Street Improvements on Route US 167 in Lafayette Parish (04/17-09/17):** Topographic survey of a heavily traveled urban system route in Lafayette, Louisiana using GPS receivers, robotic total stations and a SX-10 terrestrial scanner.
02/15 – 02/16	**State Contract No. 4400005020:** Project Engineer processing topographic survey field data and preparing survey deliverables. This subcontract included approximately 48% of the total topographic surveying at a cost of $513,229. **State Project Nos. H.011137 & H.011152 - I-12 (LA 21 to US 190) & I-12 (US 190 to LA 59) in St. Tammany Parish:** Topographic Survey of a proposed 8.89 mi interstate widening located in Covington, LA along heavily traveled I-12 using GPS receivers and robotic total stations. Project included hydrographic survey of a portion of Tchefuncte River at the I-12 bridge crossing.
01/17 – 01/20	**State Contract No. 4400009384: Retainer Contract for Professional Surveying Services - Statewide:** Project Engineer processing topographic survey field data and preparing survey deliverables. It contained six task orders to perform topographic surveys for various projects at a cost of $989,478 over a 3-year time frame. Some of the task orders for Topographic Surveys were as follows:

	State Project No. H.003370.5 - I-220/I-20 Interchange and BAFB Access, Route I-220 & I-20 in Bossier Parish (04/18-10/18): Topographic survey of the proposed I-220/I-20 Interchange and BAFB Access roadway in Bossier Parish using GPS receivers, robotic total stations, SX-10 terrestrial scanner, and mobile lidar. **State Project No. H.007300.5 & H004774.5 - Kansas Lane - Garrett Road Connector and I-20 Interchange in Ouachita Parish (3/18-9/18):** Topographic Survey of the proposed Kansas Lane - Garrett Road Connector and I-20 Interchange using GPS receivers, robotic total stations and a SX-10 terrestrial scanner. **State Project No. H.012036.5 - US 80: Boeuf River Bridge in Richland Parish (03/19-6/19):** Topographic survey for a bridge replacement project at the US 80 crossing of the Boeuf River using GPS receivers, robotic total stations and a SX-10 terrestrial scanner.
10/19 - Current	**State Contract No. 4400015236: Retainer Contract for Professional Surveying Services - Statewide:** Project Engineer processing topographic survey field data and preparing survey deliverables. It contained sixteen task orders to perform topographic surveys for various projects at a cost of $1,869,614 over a 5-year time frame. Some of the task orders for Topographic Surveys were as follows: **State Project No. H.012030 - US 371: KCS RR Overpass HBI, Route LA 159 and US 371 in Webster Parish (10/20-04/21):** Topographic survey of two bridge replacements over KCS RR using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate bridges. **State Project No. H.012032.5 - LA 2: Bridges Near Mer Rouge, Route LA 2 in Morehouse and West Carroll Parishes (02/21-04/21):** Topographic survey of two bridge replacement sites using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate bridges. **State Project No. H.014554.5 - LA 3025: Coulee Mine Scour Repair, Route LA 3025 in Lafayette Parish (04/21-07/21):** Topographic survey of a bridge located near the intersection of LA 3025 & West Bayou Parkway using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate bridge, roadway and intersection. **State Project No. H.012541.5 - LA 594: Overpass I-20, Route LA 594 in Ouachita Parish (01/22-06/22):** Topographic survey of a bridge replacement near the intersection of I-20 and LA 594 (Texas Ave) using GPS receivers, robotic total stations and SX-10 terrestrial scanner. Terrestrial mobile lidar used to locate 4,200 LF of I-20 mainline and two bridge decks over interstate. **State Project No. H.014646.5 - I-20: US 165 - E. of Garrett Road, Route I-20 in Ouachita Parish (08/21-01/22):** Topographic survey of a proposed 2.49 mi interstate widening near the intersection of Garrett Road and I-20 using GPS receivers, robotic total stations and SX-10 terrestrial scanner. Terrestrial mobile lidar was used to locate 7,130 LF (1.4 mi) of I-20 mainline.
01/20 - Current	**State Contract No. 4400017710: Retainer Contract for Professional Surveying Services – Statewide:**Project Engineer processing topographic survey field data and preparing survey deliverables. It contained one task order to perform topographic surveys at a cost of $393,871 over a 5-year time frame. The task order for Topographic Survey is as follows: **State Project No. H.015052.5 - I-20 Widening & Improvements (Vancil to LA 34), Route I-20 in Ouachita Parish (05/22-01/23):** Topographic survey of a proposed 3.94 mi interstate widening from Vancil Road to LA 34 along I-20 in West Monroe using GPS receivers, robotic total stations and SX-10 terrestrial scanner. Terrestrial mobile lidar was used to locate 20,815 LF (3.9 mi) of I-20 mainline.

Firm employed by: **LAZENBY & ASSOCIATES, INC.**



Name	**JAMES S. ELLINGBURG, P.E.**	Years of relevant experience with this employer	**14**
Title	**Project Engineer**	Years of relevant experience with other employer(s)	**0**
Degree(s) / Years / Specialization	**BS / 2008 / Civil Engineering**	Discipline	**Civil**
Active registration number / state / expiration date	**PE.0037236 / LA / 09-30-2024**	Year Registered	**2012**
Contract role(s) / brief description of responsibilities	**LOCATION & SURVEY**		

RESPONSIBILITIES: Road Design, Hydraulic Analysis & Design, Topographic Survey

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	Mr. Ellingburg has over 14 years of experience in developing roadway plans on both LDOTD and local roadway projects. Mr. Ellingburg is familiar with the LDOTD Roadway Design Procedure and Details Manual and the LDOTD Hydraulics Manual, as well as AASHTO design standards for roadway design. Mr. Ellingburg has assisted in hydraulic analysis and design, as well as roadway design and preparation of roadway plans, on a variety of roadway projects. Mr. Ellingburg has successfully completed the following continuing education classes, workshops, and seminars: • LA Specific Traffic Control Technician Course, 2020 (refresher) • LA Specific Traffic Control Supervisor Course, 2020 (refresher) • Designing Streets for Pedestrians and Bicyclists Workshop, 2016 • Highway Safety Manual Workshop, 2016 • Roundabout Design Workshop, 2013 • Traffic Engineering Analysis Process & Report Class Module 1, 2 & 3, 2021 • One-Dimensional Modeling of River Encroachments with HEC-RAS Class, 2022
05/08 – 06/15	**State Project No. H.002622: Arkansas Road (LA 616), Ouachita Parish:** Mr. Ellingburg initially served as an engineering technician, checking the topographic survey in the field for accuracy. Mr. Ellingburg then served as a project staff engineer, assisting the project engineer with development of existing drainage maps, drainage design maps, utility adjustments, and developing roadway plans. Mr. Ellingburg also assisted with roundabout designs, and sequence of construction in both Preliminary and Final plan development. This project consisted of widening a 3.2-mile portion of LA 616 from a two-lane section to a five-lane urban roadway, and included four multi-lane roundabouts that required extensive geometric design and graphical grade development in order to meet AASHTO and LDOTD standards and requirements for safety. Once the project was let for construction, Mr. Ellingburg provided construction support on an as-needed basis by answering field questions from the contractor or LDOTD.

12/10 – 10/12	**State Project No. H.003854: Bossier North-South Corridor Roadway and Bridges (I-220/Swan Lake Road Interchange to Crouch Road), Bossier Parish:** Mr. Ellingburg served as a project staff engineer, working on development of existing drainage maps, design drainage maps, roadway drainage plans, and assisting with roadway and bridge design and plan development for both Preliminary and Final plans. This project consisted of reconstruction and realignment of a 3.7-mile section of Swan Lake Road and construction of a new 4.2 mile roadway connecting Swan Lake Road and Crouch Road. The southern portion of the project contains an urban three-lane section, while the northern segment is a rural, two-lane roadway. There are three bridge sites on the project.
11/11 – 01/12	**State Project No. H.004684: El Camino East/West Corridor, Route LA 6, Natchitoches Parish:** Mr. Ellingburg served as a project staff engineer, developing existing drainage maps for a LDOTD Topographic Survey.
09/17 - Current	**State Project Nos. H.004774 & H.007300: Kansas Lane – Garrett Road Connector and I-20 Improvements, Ouachita Parish:** Mr. Ellingburg served as a project staff engineer, assisting with generating topographic survey deliverables, developing existing drainage maps for the topographic survey portion of the project. During the design and plan preparation portion of the project, Mr. Ellingburg has performed drainage design, developed design drainage maps, and assisted with design of five multi-lane roundabouts, developing graphical grades and assisting with geometric design. This urban project includes five multilane roundabouts and interstate ramp modifications that required extensive geometrics and graphical grades in order to meet AASHTO and LDOTD standards and requirements for safety. The final plans are currently 98% complete.

Firm employed by: **LAZENBY & ASSOCIATES, INC.**

Name	**NOAH J. SAMPOGNARO, E.I.**	Years of relevant experience with this employer	**2**
Title	**Engineer Intern**	Years of relevant experience with other employer(s)	**0**
Degree(s) / Years / Specialization	**BS / 2020 / Civil Engineering**	Discipline	**Civil**
Active registration number / state / expiration date	**EI.0034746 / LA / 09-30-2025**	Year Registered	**2021**
Contract role(s) / brief description of responsibilities	**LOCATION & SURVEY**		

RESPONSIBILITIES: Road Design, Topographic Survey, Hydraulic Design & Analysis

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).

Mr. Sampognaro has 2 years of experience in performing drainage design, hydraulic analysis, roadway design, and preparation of roadway plans on a variety of LDOTD and local roadway projects. Mr. Sampognaro passed his P.E. Civil Transportation exam in October 2022 and is currently enrolled in the University of Wyoming Cadastral Surveying Certificate Program. Mr. Sampognaro is familiar with the LDOTD Roadway Design Procedure and Details Manual and the LDOTD Hydraulics Manual, as well as AASHTO design standards for roadway design. Mr. Sampognaro also assists in processing topographic survey and mobile LIDAR data, creating survey centerline alignments (ALG's) using horizontal regression analysis, developing digital terrain models (DTM's), and producing existing drainage maps for LDOTD topographic surveys.

Mr. Sampognaro has successfully completed the following continuing education classes, workshops, and seminars:

- TOPO Dot User Conference, 2022
- One-Dimensional Modeling of River Encroachments with HEC-RAS Class, 2022
- LA Specific Traffic Control Technician Course, 2022
- LA Specific Traffic Control Supervision Course, 2022

01/21 – 06/22	**State Contract No. 4400015236: Retainer Contract for Professional Surveying Services – Statewide:** This retainer contract consisted of fifteen task orders to perform topographic surveys for various projects across Louisiana. Mr. Sampognaro assisted in post-processing topographic survey data which was collected with the use of GPS receivers, robotic total stations, and SX-10 terrestrial scanners, as well as using TOPO Dot software to extract data collected with a terrestrial mobile lidar scanner. His duties also included creating survey centerline alignments (ALG's) and associated reports using horizontal regression analysis, developing existing digital terrain models (DTMs), and producing existing drainage maps. Some of the task orders on which Mr. Sampognaro has assisted include the following: **State Project No. H.011706.5 – BNSF Several RR Xings (Baldwin) in St. Mary Parish (01/2021-08/2021)** **State Project No. H.012032.5 – LA 2: Bridges Near Mer Rouge, Route LA 2 in Morehouse and West Carroll Parishes (02/2021-04/2021)** **State Project No. H.008220.5 – LA 406 @ F.E. Hebert Roundabout, Route LA 406 in Plaquemines Parish (03/2021-07/2021)** **State Project No. H.012541.5 – LA 594: Overpass I-20, Route 594 in Ouachita Parish (01/2022-06/2022)** **State Project No. H.014646.5 – I-20: US 165 – E. of Garrett Road, Route I-20 in Ouachita Parish (08/2021-01/2022)**

01/22 – 1/23	**State Project No. H.015052: I-20: I-20 Widening/Overlay (Vancil Rd to LA 34):** This project consisted of performing a complete topographic survey along I-20 from the Well Road Interchange to the LA 34 (Stella Mill St) Interchange in Ouachita Parish. It also included portions of Well Road, Downing Pines Road, Thomas Road, and LA 34 (Stella Mill St) for a total cumulative length of 25,625 ft (4.85 miles). Data was collected using GPS receivers, robotic total stations, SX-10 terrestrial scanners, and a terrestrial mobile LIDAR scanner. Mr. Sampognaro assisted in post-processing the survey data, extracting mobile LIDAR data using TOPO Dot software, and creating the existing drainage map. He also assisted in quality control measures by comparing field data collected by the survey crew to LDOTD as-built drawings.
01/21 - Current	**Ouachita Parish Police Jury Road Program:** Mr. Sampognaro has assisted with the Ouachita Parish Police Jury Road Program. His duties consist of post-processing topographic survey data, developing pavement preservation roadway plans, including design of cross drain structures, superelevation correction calculations, and quantity calculations, to preserve and extend the life of Ouachita Parish roadways, some of which are constructed under the DOTD Urban Systems program. Some of the Ouachita Parish Urban Systems projects on which Mr. Sampognaro has assisted include the following: **State Project No. H.013805 – Finks Hide-A-Way Road (Mill, Patch and Overlay and includes a segment of Reconstruction)** **State Project No. H.014397 – Rowland Road (Mill, Patch and Overlay)**
06/21 - Current	**City of Monroe, Louisiana roadways:** Mr. Sampognaro has assisted with City of Monroe roadways designed under the LDOTD Urban Systems program. His duties consist of post-processing topographic survey data, developing pavement preservation roadway plans, including hydraulic design, quantity calculations, and construction cost estimates. Some of the City of Monroe Urban Systems projects on which Mr. Sampognaro has assisted include the following: **State Project No. H.014347 – South Grand Street (Mill, Patch and Overlay)** **State Project No. H.014348 – Lee Avenue (Mill, Patch and Overlay)** Mr. Sampognaro is currently assisting with construction support activities by field marking and verifying required areas of pavement patching.
08/22 - Current	**US 165 Turn Lanes at Scott Drive, Ouachita Parish:** Mr. Sampognaro assisted in the development of roadway plans and post-processing the topographic survey data, including creating the existing digital terrain model (DTM), drainage design, and quantity calculations. This project, which was prepared for the Ouachita Parish School board, consists of adding a left and right turn lane on US 165 and traffic signal modifications at Scott Drive in Sterlington Louisiana.

Firm employed by: **LAZENBY & ASSOCIATES, INC.**

Name	**JERRY G. LAZENBY, P.E., P.L.S.**	Years of relevant experience with this employer	**41**
Title	**President**	Years of relevant experience with other employer(s)	**16**
Degree(s) / Years / Specialization	**BS / 1965 / Civil Engineering**	Discipline	**Environmental, Civil & Land Surveyor**
Active registration number / state / expiration date	**PLS.0002313/ LA / 03-31-2024** **PE.0012104 / LA / 03-31-2024**	Year Registered	**1970** **1970**
Contract role(s) / brief description of responsibilities	**LOCATION & SURVEY**		**MEETS MPR 9**

RESPONSIBILITIES: Principal-In-Charge, Project Supervisor and Contract Management, QA-QC

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	Mr. Lazenby has over 50 years of experience in planning, surveying, designing, inspecting, and construction administration of transportation facilities. The first 9 years of Mr. Lazenby's career were spend with the U.S. Bureau of Public Roads/Federal Highway Administration at various locations in the United States as a Highway Engineer reviewing and assisting state highway officials with transportation projects utilizing Federal-Aid transportation funding from project inception through construction. Mr. Lazenby has designed and supervised numerous projects for LDOTD over the past 45 years. He has been responsible for the firm's growth as well as the reputation of the firm. He has instilled in each member of the firm to provide a professional product and to deliver on time. Mr. Lazenby has successfully completed the following continuing education classes, workshops, and seminars: • LA Specific Traffic Control Technician Course, 2020 (refresher) • LA Specific Traffic Control Supervisor Course, 2020 (refresher) • National Environmental Policy Act (NEPA) and Transportation Decision Making
10/12 – 06/16	**Principal-In-Charge for IDIQ Retainer for LDOTD Contract No. 4400002862, S.P. No. H.008768 – Hydrographic Surveying Services for Monitoring of Existing Bridges-Statewide (North Region):** Supervised the performance of hydrographic surveys on 14 Task Orders for checking channel scour at major bridge sites in north Louisiana. Duties included supervision of project surveyors and the development of required hydrographic survey schedules and reports at the various bridge locations.
09/18 – 02/23	**Principal-In-Charge for LDOTD Contract No. 4400012668, IDIQ Retainer Contract for Professional Hydrographic Surveying Services, Statewide (North Region) (LDOTD Contract No. 44-12668):** Supervised the performance of hydrographic surveys on 17 Task Orders for checking channel scour at major bridge sites in north Louisiana. Duties included supervision of project surveyors, QA/QC of the development of required hydrographic survey schedules and reports at the various bridge locations.
06/04 – 03/05 **01/06 – 06/09**	**State Project No. 700-37-0102: US 165 (Jct. LA 841 – Rilla), Ouachita Parish:** Mr. Lazenby was Principal-in-Charge of this project and performed QA-QC reviews of the plans. On this project Lazenby & Associates performed topographic surveys, property surveys, ROW maps,

	alignment studies, and prepared preliminary and final roadway plans on a 4.5-mile section of US 165 being widened and upgraded to a four-lane divided arterial route under the Louisiana TIMED Program.
01/04 – 05/07	**State Project No. 700-30-0061: US 167 (Lillie to Arkansas State Line), Union Parish:** Mr. Lazenby was Principle-in-Charge on this project and performed QA-QC review of the plans. On this project, Lazenby & Associates developed final roadway plans, final bridge plans, and ROW maps on a 7-mile section of US 167 that was widened to a four-lane rural and urban arterial route under the Louisiana TIMED Program.
07/10 – 12/13	**State Project No. H.003854: Bossier North-South Corridor Roadway and Bridges (I-220/Swan Lake Road Interchange to Crouch Road), Bossier Parish:** Mr. Lazenby was Principle-in-Charge and performed QA-QC reviews of the plans. On this project, Lazenby & Associates developed topographic surveys, property surveys, right-of-way maps, preliminary roadway and bridge plans and final roadway and bridge plans along a 7.8-mile corridor being developed as an Urban Systems Project by the Bossier Parish Police Jury.
12/07 – 06/15	**State Project No. H.002622: Arkansas Road (LA 616), Ouachita Parish:** Mr. Lazenby was Principle-in-Charge, Project Manager, and performed QA-QC reviews of the plans. On this project, Lazenby & Associates performed topographic surveys, property surveys and developed right-of-way maps, preliminary roadway plans and final roadway plans for the widening of a 3.2-mile section of LA 616 from a two-lane rural roadway section to a five-lane urban roadway section including four multi-lane roundabouts. The project also included the hydraulic analysis of an existing timber bridge site in which the bridge was replaced with a reinforced concrete box culvert.
09/17 - Current	**State Project Nos. H.004774 & H.007300: Kansas Lane – Garrett Road Connector and I-20 Improvements, Ouachita Parish:** Mr. Lazenby is Principle-in-Charge. On these projects, Lazenby & Associates performed topographic surveys, developed preliminary roadway plans, and is currently developing final roadway plans for the widening of a section of Garrett Road to a four-lane arterial route with five multi-lane roundabouts. The project includes ramp modifications of the I-20/Garrett Road interchange, a new overpass structure over I-20, and a new overpass structure over Millhaven Road (LA 594) and the adjacent KCS railroad tracks, as well as lighting and traffic signal work. The project also includes design and development of subsurface drainage plans to improve drainage within the project area. Final plans are currently 98% complete.
10/14 – 06/17	**State Contract No. 4400004541: Retainer Contract for Professional Surveying Services – Statewide:** Mr. Lazenby was Principle-in-Charge responsible for 8 Task Orders to perform topographic surveys on various LDOTD projects in Louisiana.
01/17 – 01/20	**State Contract No. 4400009384: Retainer Contract for Professional Surveying Services – Statewide:** Mr. Lazenby was Principle-in-Charge responsible for 6 Task Orders to perform topographic surveys on various LDOTD projects in Louisiana.
10/19 - Current	**State Contract No. 4400015236: Retainer Contract for Professional Surveying Services – Statewide:** Mr. Lazenby is Principle-in-Charge responsible for 15 Task Orders to perform topographic surveys on various LDOTD projects in Louisiana.
10/20 - Current	**State Contract No. 4400017710: Retainer Contract for Professional Surveying Services – Statewide:** Mr. Lazenby is Principle-in-Charge responsible for this contract, which thus far has contained 1 Task Order to perform a topographic survey on S.P.N. H.015052.5: I-20 Widening & Improvements (Vancil to LA 34).

Firm employed by: **CIVIL DESIGN & CONSTRUCTION, INC. (CD&C)**

Name	**KARLA E. WESTON, PE**	Years of relevant experience with this employer	**18**
Title	**President**	Years of relevant experience with other employer(s)	**6**
Degree(s) / Years / Specialization	**BS / 1999 / Civil Engineering**	Discipline	**Civil**
Active registration number / state / expiration date	**PE.31010 / LA / 03-31-2024**	Year Registered	**2004**
Contract role(s) / brief description of responsibilities	**LOCATION & SURVEY**		

RESPONSIBILITIES: Mrs. Weston will oversee the firm's role as a sub-consultant and make sure the work is completed to all LADOTD standards.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
02/16 - 09/19	**H.003047 Pecue Lane/I-10 Interchange, Baton Rouge, LA:** Mrs. Weston served as Principal-in-Charge for the firm's role as a sub-consult for the engineering design services of the West bound on ramp to I-10, the West bound off ramp from I-10, the extension to Rieger Road and Pecue Lane Extension. She has worked to oversee the project design, coordinate with the prime consultant and government agencies.
12/13 – 10/19	**H.02960 Gramercy Bridge, St. James Parish, LA:** Mrs. Weston served as Principal-in-Charge for the firm's role as a subconsultant for the engineering design elements of the plans including Hydraulic Analysis and Design, Typical Sections, and Graphical Grades for the project.
02/14 - 02/15	**H.010620 I-49 Design Build, Lafayette, LA:** Mrs. Weston provided QA/QC review for the Roadway Design Plans on this Design-Build Project for part of the I-49 South Corridor.
05/13 – 05/14	**H.009288.5 LA 1 Railroad Bridge at DOW, WBR Parish, LA:** Mrs. Weston served as Principal-in-Charge for the firm's role as a sub-consult for the engineering design elements of the plans including Hydraulic Analysis and Design, Typical Sections, and Graphical Grades for the project. She has worked to oversee the firms design, coordinate with the prime consultant and government agencies.
01/06 – 12/12	**EBR City/parish Project No. 06-CS-HC-0018, Fairchild-Badley Roadway, EBR Parish, LA:** Mrs. Weston served as Principal in Charge for this project that was approx. 1.25 miles in length along Fairchild-Badley Road and also included approximately 600 linear feet of Elm Grove Garden Dr. CD&C designed the upgrade to the existing narrow roadway to a typical section of 2-11' lands with a 2' barrier curb and gutter, and a 6' adjacent sidewalk. This included the design of a new sub-surface drainage system throughout the length of the project as well.
03/12 – 07/12	**H.009104.5 - Sunshine Bridge Phase 2:** Ms. Weston served as Project Manager and Engineer for CD&C's portion of this Bridge Rehab Retainer Contract project which included the Traffic Management plans for the project. CD&C provided the Traffic Control design plans including detour maps of local road network for the repairs and widening to the Sunshine Bridge.
05/11 – 04/12	**Red River – Jackson Street Bridge, Alexandria, LA:** Ms. Weston served as Project Manager and Engineer for CD&C's portion of this Bridge Rehab Retainer Contract project which included the Traffic Management plans for the project. CD&C provided the Traffic Control design plans including detour maps of local road network for the replacement of the Jackson Street Bridge over the Red River.

Firm employed by: **CIVIL DESIGN & CONSTRUCTION, INC. (CD&C)**

Name	**RALPH BURGESS, PLS**	Years of relevant experience with this employer	**12**
Title	**Principal Land Surveyor**	Years of relevant experience with other employer(s)	**12**
Degree(s) / Years / Specialization	**BS / 2004 / Industrial Design & Supervision**	Discipline	**Land Surveyor**
Active registration number / state / expiration date	**PLS.5040 / LA / 09-30-2024**	Year Registered	**2010**
Contract role(s) / brief description of responsibilities	**LOCATION & SURVEY**		**MEETS MPR 9**

RESPONSIBILITIES: Mr. Burgess serves as the Survey Manager for this project. He will work to oversee the project progress stays on schedule, aide in both crew coordination and office production, and provide final QC on the firms' deliverable to the Prime Consultant. Mr. Burgess has an extensive background in providing topographic surveys for LADOTD in accordance with Location and Survey policies and procedures. He has overseen projects utilizing traditional means and methods of collecting data as well as those that include the use of 3D Terrestrial Scanning.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
03/23 - Current	**W Broussard Road @ Duhon Road Roundabout:** Mr. Burgess is the Survey and SUE Manager for this project. CD&C performed a QL-B Subsurface Utility Engineering (SUE) location including all applicable reports and exhibits in connection with the proposed West Broussard Road and Duhon Road Roundabout located in Lafayette Parish, Louisiana. QL-B utility designation was determined first with spot locations for QL-A to follow at a TBD date.
03/23 - Current	**MSY Campus Wide Sewer Location:** Mr. Burgess is the Survey and SUE Manager for this project. CD&C is performing a combination of both a QL-B and QL-A for the Louis Armstrong Airport campus to locate it's sanitary sewer lines. This project encompasses the entire campus. All sewer manholes and gravity lines as well as sewer forcemains are to be located. Verification of pipe size and material is also required. CD&C is providing all SUE appropriate reports and data for this project.
08/21 - Current	**H.011833.5 St. Mary Street Sidewalks; Scott, LA:** Mr. Burgess is the Survey and SUE Manager for this project. CD&C completed a topographic along this route. The survey utilized 3D Terrestrial Scanning of all hard surfaces and traditional methods for all other features. CD&C SUE personnel worked to coordinate the collection for all the utility information and location such that survey crews could collect data and incorporate for the submittal up to QLD Level B however an official SUE submittal was not required of this project. Final submittal will be in accordance with latest LADOTD Location and Survey standards.
03/22 – 09/22	**H.010960.5-2 Roundabouts at LA 182, Lafayette, LA:** Mr. Burgess was the Survey and SUE Manager for this project. CD&C completed a topographic along this route. The survey utilized 3D Terrestrial Scanning of all hard surfaces and traditional methods for all other features. CD&C SUE personnel worked to coordinate the collection for all the utility information and location such that survey crews could collect data and incorporate for the submittal up to QLD Level B however an official SUE submittal was not required of this project. Final submittal was in accordance with latest LADOTD Location and Survey standards.
04/23 - Current	**H.012914 LA 3073: Ambassador @ Verot-Chemin-Bonin:** Mr. Burgess is the Survey and SUE Manager for this project. He is overseeing and working with CD&C Survey and SUE personnel to coordinate the collection of all topographic data as well as the utility information and

	location such that survey crews could collect data and incorporate for the submittal up to QLD Level B however an official SUE submittal was not required of this project. Final submittal was in accordance with latest LADOTD Location and Survey standards.
04/23 - Current	**H.012027.5 I-20: UPRR:** Mr. Burgess is the Survey and SUE Manager for this project. He is overseeing and working with CD&C Survey and SUE personnel to coordinate the collection of all topographic data as well as the utility information and location such that survey crews could collect data and incorporate for the submittal up to QLD Level B however an official SUE submittal was not required of this project. Final submittal was in accordance with latest LADOTD Location and Survey standards.
7/17 - 12/18	**H.010960.5-2, LA 30 Roundabout at Tanger I-10, Ascension Parish, LA:** Mr. Burgess served as Survey Manager for the project. Duties included meeting with LADOTD & Cardno, Inc for utility locations, coordination of crews and 3D terrestrial scanning crew along with office personnel, coordination. Special duties were merging of two state projects with project survey for final submittal to combine all projects together.
07/20 – 04/21	**H.001352.5 and H.002273.5 Comite River Diversion Bridge at LA 67, LA 19 and LA 19 Railroad Bridge, East Baton Rouge Parish:** Mr. Burgess was the Survey Manager for this project. CD&C as a sub-consultant on this project was responsible for topographic surveying the LA 67 and LA 19 sites of the Comite River Diversion project. This included merging data from a previous survey on one portion of the site and field verifications of that data. The topographic data for this project was collected traditionally.
01/18 - 01/20	**H.004100 I-10: LA 415 to Essen Lane on I-10 and I-12, West and East Baton Rouge, LA:** Burgess was the surveying Manager for this project. CD&C as a sub-consultant on this project is responsible for topographic surveying the portion of I-10 in West Baton Rouge Parish beginning at the start of the project limits to a point just before the approach of the I-10 Bridge and the limits of the project along LA 415 including work on Tributaries of the Intercoastal Canal. This work included using 3D Scanning for the bridge at I-10 bridge @ LA 415 as well as scanning every 500' for control verification and incorporation of the Mobile Lidar for the I-10 pavement.
7/17 - 12/18	**H.010960.5-2, LA 30 Roundabout at Tanger I-10, Ascension Parish, LA:** Mr. Burgess served as Survey Manager for the project. Duties included meeting with LADOTD & Cardno, Inc for utility locations, coordination of crews and 3D terrestrial scanning crew along with office personnel, coordination. Special duties were merging of two state projects with project survey for final submittal to combine all projects together.
10/15 - 12/18	**H.003184.5 I-10 Texas State Line –East of Coone Gully, Calcasieu Parish, LA:** Mr. Burgess served as Survey Manager for the project. Duties included meeting with LADOTD, coordination of traditional crews and 3D terrestrial scanning crew, coordination of utility companies on the project, review and verification of drainage crossing I10, merging of existing topographic survey of bridges from LADOTD and final review of all survey data for submittals
08/16 - 12/17	**H.011235 I-49 South at Verot School Road, Lafayette, LA:** Mr. Burgess served as the Survey Manager for the project. Duties included meeting with LADOTD, and all consultants on the team, coordination of both traditional crews and 3D terrestrial scanning crew, coordination of survey crews with Cardno, Inc, utility locations on the project, met and review right of entry with landowners for project, review of drainage map, merging of existing topographic survey of the I-49 Connector project from LADOTD with current survey of project, review of apparent right of way mapping for prime consultant, and final review of all survey data.

Firm employed by: **CIVIL DESIGN & CONSTRUCTION, INC. (CD&C)**

Name	**CHRIS BALLARD, PLS**	Years of relevant experience with this employer	**8**
Title	**Survey Project Manager**	Years of relevant experience with other employer(s)	**19**
Degree(s) / Years / Specialization	**BS / 2004 / Biological Science**	Discipline	**Land Surveyor**
Active registration number / state / expiration date	**PLS.5033 / LA / 09-30-2024**	Year Registered	**2010**
Contract role(s) / brief description of responsibilities	**LOCATION & SURVEY**		**MEETS MPR 9**

RESPONSIBILITIES: Mr. Ballard serves as the Survey Project Manager for this project. He will work to oversee the project progress stays on schedule, aide in both crew coordination and office production, and provide final QC on the firms' deliverable to the Prime Consultant. Mr. Burgess has an extensive background in providing topographic surveys for LADOTD in accordance with Location and Survey policies and procedures. He has overseen projects utilizing traditional means and methods of collecting data as well as those that include the use of 3D Terrestrial Scanning.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
09/18 - 01/20	**H.004100 I-10: LA 415 to Essen Lane on I-10 and I-12, West and East Baton Rouge, LA:** Mr. Ballard is the Surveying Project Manager for this project. CD&C as a sub-consultant on this project is responsible for topographic surveying the portion of I-10 in West Baton Rouge Parish beginning at the start of the project limits to a point just before the approach of the I-10 Bridge and the limits of the project along LA 415 including work on Tributaries of the Intercoastal Canal. This work included using 3D Scanning for the bridge at I-10 bridge @ LA 415 as well as scanning every 500' for control verification and incorporation of the Mobile Lidar for the I-10 pavement.
04/17 - 07/17	**H.010006.5-3 LA 58 Petit Caillou Bridge Rehabilitation (Sarah Bridge), Terrebonne Parish, LA:** Mr. Ballard served as the firms Survey Project Manager on this project which included a complete topographic survey, utility coordination, channel cross sections, and the scanning of the existing vertical lift bridge for the design of its repairs/replacement. Project included data collection of the topography via traditional means and methods along with 3D terrestrial scanning and hydrographic surveying.
02/19 - 09/19	**Bridge Replacements in East Feliciana Parish, Rural East Feliciana Parish, LA:** Mr. Ballard is serving as Survey Project Manager for this project for East Feliciana Parish Police Jury. It includes the replacement of 2 bridges which were damaged from flooding and the repairs to many rural roadways throughout the parish. These projects are being funded thru FEMA and all documentation has to be in accordance with FEMA's policies and procedures.
01/17 - 12/17	**East Baton Rouge Parish Bridges, East Baton Rouge Parish, LA:** In 2017, CD&C has performed topographic surveys for at least 4 Bridge Replacement Projects throughout East Baton Rouge Parish. Mr. Ballard served as Survey Project Manager on each of these projects which included cross-sectioning and tracing the channel at each location. These included bridges over Dawson Creek, Claycut Bayou, Copper Mill Bayou, and Cypress Bayou.
10/16 - 11/16	**H.012728.5 LA 443: Tangi River Bridge Replacement, Tangipahoa Parish, LA:** Mr. Ballard served as the Project Manager for this Project. Among the duties performed for the project were review of the crew work conditions, review & processing of the survey data, verification,

	and review of final submittal. CD&C completed a topographic survey which included all utilities with depths, all drainage, all building information including finish floor elevations, and all super/substructure of the bridge over the Tangipahoa River. Additional information regarding the river was located by traditional means upstream and downstream for the engineer's design of the new bridge. To utilize data collection of the failed bridge, 3D Terrestrial Scanning was incorporated in conjunction with traditional means to complete the topographic survey. Due to the nature of the project being an Emergency Bridge replacement all staff worked on this project non-stop until field work was completed in less than 3 weeks.
09/17 -09/17	**H.012650.5-1 District 62 Bridges, Livingston and Tangipahoa Parishes, LA:** Mr. Ballard served as a Survey Project Manager for this project which included 5 bridge sites in District 62. In addition to all of the existing data for the bridge and roadway at each site, each channel was cross-sectioned both upstream and downstream of the bridge. These included bridges over the US 190 Bridge over Gray's creek, 2 bridges on LA 442 both crossing East Hog Branch, LA 1063 over the Natalbany River, and US 51 over Ponchatoula Creek. Several of these bridges including the US190 one was surveyed utilizing 3D Terrestrial Scanning.
07/18 - Current	**Plank Rd Realignment, Baton Rouge, LA:** Mr. Ballard served as the Survey Project Manager on this project. CD&C was a sub-consultant on this project and was responsible for topographic surveying and ROW mapping for the realignment of Plank Rd. for Baton Rouge Metro Airport. This project includes 2 phases of relocations and ROW mapping. CD&C is providing full topography ROW mapping services for both phases
10/15 - 12/18	**H.003184.5 I-10 Texas State Line – East of Coone Gully, Calcasieu Parish, LA:** Mr. Ballard served as the Survey Project Manager on this project which is a 6-lane widening of I-10. Duties performed on this project included the review of the survey information from crew, verification of project delivery schedule, processing of data and final review of submittal of project. 3D Terrestrial Scanning was used in conjunction with traditional means and methods for the completion of this project.
08/16 - Current	**H.011235 I-49 South at Verot School Road, Lafayette, LA:** Mr. Ballard served as a Survey PM on this project. Duties included aiding in the coordination of field crews for both topographic survey and property surveys for ROW mapping, QC review of data for submittals. CD&C is also providing complete ROW mapping on this project including property surveys and final ROW maps.
10/15 - 01/16	**H.011773 Hanks Dr/Landis Drive Pedestrian Improvements, East Baton Rouge Parish, LA:** Mr. Ballard served as the Survey Project Manager on this project that included a topographic survey and establishment of the ROW for Hanks Dr. for installation of new sidewalk.
06/11 - 09/13	**260-01-0028, H.002372 LA 42 Widening and Improvements, Ascension Parish, LA:** Mr. Ballard worked as a PLS on this project which included boundary and topography, establishing the existing ROW and acquisition of additional ROW.
07/17 - 12/18	**H.010960.5-2, LA 30 Roundabout at Tanger I-10, Ascension Parish, LA:** Mr. Ballard served as the Survey Project Manager on this project that includes a complete topo survey, utility coordination and drainage, along with finish floor elevations of all buildings that fall within the survey limits. Project included data collection of the topography via traditional means and methods along with 3D terrestrial scanning.

Firm employed by: **CIVIL DESIGN & CONSTRUCTION, INC. (CD&C)**

Name	**MADISON MILLS, PLS**	Years of relevant experience with this employer	**1+**
Title	**Professional Land Surveyor**	Years of relevant experience with other employer(s)	**4**
Degree(s) / Years / Specialization	**BS / 2016 / Civil Engineering**	Discipline	**Land Surveyor**
Active registration number / state / expiration date	**PLS.5293 / LA / 03-31-2025**	Year Registered	**2022**
Contract role(s) / brief description of responsibilities	**LOCATION & SURVEY**		

RESPONSIBILITIES: Mr. Mills joined CD&C in 2021 as a Land Surveying Intern and has recently been licensed as a Professional Land Surveyor. He serves as a Survey Technician and assistant PM for CD&C working to manage field crews, process field crew data, and finalize deliverables.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
08/22 - Current	**4400017091 Louisiana Watershed Initiative Region 5 – Task Order 3:** Mr. Mills is working as a Survey PM this Louisiana Watershed Initiative project. He has been responsible for managing crews, processing field data, creating punch-lists, working with utilities, and complete the final deliverables to the client. CD&C is a sub-consultant on this project.
01/22 – 11/22	**4400017091 Louisiana Watershed Initiative Region 5 – Task Order 2:** Mr. Mills is working as a Survey PM this Louisiana Watershed Initiative project. He has been responsible for managing crews, processing field data, creating punch-lists, working with utilities, and complete the final deliverables to the client. CD&C is a sub-consultant on this project.
09/21 – 03/22	**H.014747 Southern University Ravine Protection, East Baton Rouge Parish:** Mr. Mills served as a Survey Technician for this project. CD&C as a sub-consultant on this project was responsible for topographic survey of the sites at Southern University. The topographic data for this project was collected both traditionally and utilizing 3D Scanning.
08/21 - Current	**H.011833.5 St. Mary Street Sidewalks; Scott, LA:** Mr. Mills served as a Survey Tech for this project. CD&C completed a topographic along this route. The survey utilized 3D Terrestrial Scanning of all hard surfaces and traditional methods for all other features. CD&C SUE personnel worked to coordinate the collection for all the utility information and location such that survey crews could collect data and incorporate for the submittal up to QLD Level B however an official SUE submittal was not required of this project. Final submittal will be in accordance with latest LADOTD Location and Survey standards.
03/22 – 09/22	**H.010960.5-2 Roundabouts at LA 182, Lafayette, LA:** Mr. Mills served as a Survey Tech for the project. CD&C completed a topographic along this route. The survey utilized 3D Terrestrial Scanning of all hard surfaces and traditional methods for all other features. CD&C SUE personnel worked to coordinate the collection for all the utility information and location such that survey crews could collect data and incorporate for the submittal up to QLD Level B however an official SUE submittal was not required of this project. Final submittal was in accordance with latest LADOTD Location and Survey standards.

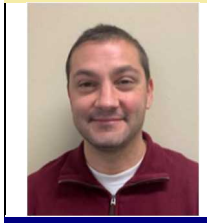
Firm employed by: **CIVIL DESIGN & CONSTRUCTION, INC. (CD&C)**

Name	**PHILIP DUPREE**	Years of relevant experience with this employer	**11**
Title	**Survey Party Chief**	Years of relevant experience with other employer(s)	**30**
Degree(s) / Years / Specialization		Discipline	
Active registration number / state / expiration date	**NSPS Certified Survey Technician, Level III, Boundary Cert. No. 0799-1106 Nationwide; ATSSA Certified as Registered Flagger ATSSA Certified Traffic Control Tech & Traffic Control Supervisor**	Year Registered	
Contract role(s) / brief description of responsibilities	**LOCATION & SURVEY**		

RESPONSIBILITIES: Mr. Dupree is the Senior Survey Party chief who will work to oversee a crew as well as aide in coordinating all crews with Survey PM to ensure field work is being completed timely and accurately.

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
07/20 – 04/21	**H.001352.5 and H.002273.5 Comite River Diversion Bridge at LA 67, LA 19 and LA 19 Railroad Bridge, East Baton Rouge Parish:** Mr. Dupree was the Senior Party Chief & Field Coordinator for this project. CD&C as a sub-consultant on this project was responsible for topographic surveying the LA 67 and LA 19 sites of the Comite River Diversion project. The topographic data for this project was collected traditionally.
01/18 - 02/20	**H.004100 I-10: LA 415 to Essen Lane on I-10 and I-12, West and East Baton Rouge, LA:** Mr. Dupree is the Survey Party Chief for this project. CD&C as a sub-consultant on this project is responsible for topographic surveying the portion of I-10 in West Baton Rouge Parish beginning at the start of the project limits to a point just before the approach of the I-10 Bridge and the limits of the project along LA 415.
07/17 - 12/18	**H.010960.5-2, LA 30 Roundabout at Tanger I-10, Ascension Parish, LA:** Mr. Dupree is serving as Field coordinator on this project by working specifically to set the control on the job and overseeing field crews as they work to complete the topography.
10/15 - 12/18	**H.011235 I-49 South at Verot School Road, Lafayette, LA:** Mr. Dupree served as Field coordinator on this project. He resurrected the original control set on the project and oversaw the checking of it. Mr. Dupree was the field coordinator with the R/R and also the SUE contractor on the project. He oversaw all field crews and ensured that the project was completed accurately and timely.
01/16 - 08/16	**H.005733.5 US 190 Superstreet, St. Tammany Parish, LA:** Mr. Dupree served as Field coordinator on this urban roadway topography project that included 3D scanning in addition to traditional topography. He oversaw the daily progress of both traditional field crews and scan crews and completed the project accurately and on schedule.
10/14 - 12/14	**H.011088.5 West Prien Lake, Lake Charles, LA:** Mr. Dupree served as the Senior Party Chief for this project working to collect all field data as required by the project. This project was to provide a topographic survey for a new route to be constructed. Topographic survey and DTM was required along the proposed alignment including all utilities and all drainage with the survey limits.

Firm employed by: **HUVAL AND ASSOCIATES, INC.**



Name	**COLBY J GUIDRY, P.E.**	Years of relevant experience with this employer	**16.5**
Title	**Vice President and Lead Engineer**	Years of relevant experience with other employer(s)	**7**
Degree(s) / Years / Specialization	**BS / 2000 / Civil Engineering**	Discipline	**Civil**
Active registration number / state / expiration date	**PE.31338 / LA / 09-30-2024**	Year Registered	**2004**
Contract role(s) / brief description of responsibilities	**BRIDGE DESIGN**		**MEETS MPR 5**

RESPONSIBILITIES: HUVAL Project Manager/Bridge Design and Ratings

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	Mr. Guidry came to Huval & Associates with 7 years' experience with the Federal Highway Administration (FHWA). His FHWA experience included all aspects of transportation related projects, where he was actively involved with environmental review, design, construction, and maintenance of bridges and roadways throughout Louisiana. Since joining HUVAL, he has been involved in bridge and structural design, plan preparation, bridge inspections, and construction support services. Completed the two-week FHWA approved comprehensive bridge training course for bridge inspectors, certified as a Bridge Inspection Team Leader, completed the NHI LRFR for Superstructures Course, the Work Zone Traffic Control Technician and Supervisor Courses, ATSSA Flagger Training, the NHI Design & Operation of Work Zone Traffic Control, Roadside Design Course, NHI Highway Hydraulics Course, NHI Urban Drainage Design Course, as well as many construction and environmental related courses. Very familiar with the LADOTD Bridge Design Manuals, 2002 AASHTO Bridge Specs, and the current AASHTO LRFD Bridge Specs
Ongoing	**Public and Private Bridge Load Ratings – Statewide –** Lead Rating Engineer for bridges all across the state on a continual basis. Numerous load ratings performed weekly for a host of clients including parishes, cities, oil field companies, and other clients. The ratings include bridge types such as timber, steel, concrete, movable, fixed, pontoons, and trusses.
01/19 - Current	**Herman Dupuis Swing Span Bridge (Movable) – St. Martin Parish –** Project Manager for the design, load rating, and plan development of a new swing span bridge over alligator bayou which will replace the Butte LaRose Pontoon bridge. Design elements include all aspects of the bridge including environmental clearance, surveying, structural design, mechanical design, electrical design, hydraulic design, roadway design, and all other design elements. Rating of the various bridge components was also performed.
10/10 - 01/22	**Butte LaRose Pontoon Repairs (Movable) – St. Martin Parish –** Lead Engineer for the design and Load Rating of numerous repairs to the movable pontoon bridge over alligator bayou. Repairs included deck repairs, stringer repairs, cap repairs, pontoon barge repairs, machinery repairs, pile repairs, abutment repairs.
12/20 - 06/21	**Ascension Parish 26 Bridge Ratings –** Inspected, gathered documentation, rated, provided repair plans, as well as assisted in construction rehab reviews for 26 Ascension Parish bridges. Complex analysis rating analysis allowed the bridges to remain open while repairs were planned.

01/11 – 08/14	**St. Ann Bridge Over Bayou Terrebonne (Movable) Swing Span – S.P. 700-55-0107 –** Lead structural designer for a new Swing span bridge over bayou Terrebonne. Also assisted with Mechanical reviews throughout the design process. Colby was involved with every aspect of this movable bridge project from environmental clearance through construction. This swing span had unique issues to overcome due to the limited vertical space due to waterway and adjacent road obstructions.
04/18 - Current	**Retainer for Engineering Services for Bridge Preservation - Statewide, Contract No. 4400011225 -** Supervisor Engineer of Retainer Contract. Responsible for project management, coordination, project setup, QA/QC, Load Ratings and bridge rehab design for the $4M retainer.
09/12 - 12/17	**Retainer Contract for Bridge Repair and Rehabilitation Services - Statewide, Contract No. 4400002537-** Supervising Engineer of Retainer Contract. Responsible for coordination, inspections, project setup, QA/QC, Load Ratings, and bridge rehab design for the $6M retainer contract.
05/11 - 08/15	**Retainer for Engineering Services for Bridge Preventive Maintenance (BRPM) - Statewide, Contract No. 440001543 -** Lead Engineer of Retainer Contract. Led the Inspection and Design for 8 different Task Orders covering Preventive Maintenance Repairs for over 100 Bridges statewide in short timeframes.
08/09 - 06/15	**Retainer Contract for Bridge Repair and Rehabilitation Services - Statewide, S.P. 700-99-0488 -** Lead Engineer of Retainer Contract. Responsible for coordination, inspection team leader, project setup, bridge design, and QA/QC of Task Orders totaling approximately $8.75M over a 5-year period. Contract utilized multiple Subconsultants on all aspects of bridge design and inspection.

Firm employed by: **HUVAL AND ASSOCIATES, INC.**

Name	**JUSTIN PELTIER, P.E.**	Years of relevant experience with this employer	**10.5**
Title	**Civil Engineer**	Years of relevant experience with other employer(s)	**8**
Degree(s) / Years / Specialization	**BS / 2005 / Civil Engineering**	Discipline	**Civil**
Active registration number / state / expiration date	**PE.34765 / LA / 09-30-2025**	Year Registered	**2009**
Contract role(s) / brief description of responsibilities	**BRIDGE DESIGN**		**MEETS MPR 4**

RESPONSIBILITIES: Lead Bridge Design

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	Mr. Peltier joined Huval & Associates in 2013 with 8 years of experience in civil engineering. Previously employed with LADOTD, he was involved with the design, live load rating, plan development, and construction support of more than 20 bridge replacement projects. These consisted of various superstructure and substructure types including but not limited to: AASHTO PPC girders, quadbeams, cast-in-place slab spans, precast slab spans, steel girders, steel swing spans, concrete box culverts, PPC pile bents, steel H-pile and pipe pile bents, timber pile bents and column bents supported by drilled shafts and/or PPC pile footings. Mr. Peltier assisted in developing and maintaining LADOTD's highway safety hardware details and specifications, including but not limited to guard rail, barrier rail, and crash cushion attenuators. He served as the Engineer of Record for the LADOTD concrete barrier rail and the detour bridge special details. Mr. Peltier's training includes the NHI LRFR for Highway Bridge Superstructure Course, the NHI AASHTO LRFD for Highway Bridge Superstructure Course, the NHI AASHTO LRFD for Highway Bridge Substructure Course, the Roadside Design Course, ATSSA Traffic Control Technician and Supervisor Course.
09/20 - Current	**I-10: LA 415 To Essen Lane on I-10 and I-12 CMAR – S.P. H.004100 –** Serving as the lead bridge engineer and overall structures team lead for this $1 billion project to widen I-10 in the heavily congested section through Baton Rouge. This very complex project will replace existing bridges in the urban area within an extremely constrained right of way while maintaining the existing traffic flow on I-10 through the construction zone. Roles include bridge design, plan development, load rating, structure rehabilitation, alternative bridge concepts development, construction sequencing, contractor style cost estimates, managing the bridge and structural design and plan production process, leading bi-weekly structures task force meetings, and implementing the bridge design QC/QA process.
09/17 - Current	**Kansas Lane-Garrett Road Connector and I-20 Improvements, Ouachita Parish, S.P. No. H.007300 –** Serving as the lead bridge design and load rating engineer for a new Garrett Road bridge over I-20 and a new Garrett Road to Kansas Lane connector structures which spans over the KCS RR right-of-way. The Garrett Road structure consists of an LG-36 PPC girder superstructure supported by column bents and pile footings. The Garrett Road to Kansas Lane connector structure consists of LG-36 PPC girder approach spans with a 3-span continuous plate girder superstructure over the KCS railroad right-of-way and is supported by column bents and pile footings. Also responsible for the design of a new median barrier and bridge pier protection systems to accommodate the inside widening of I-20 and raising the Nutland Road Overpass bridge to increase the vertical clearance above I-20 once the inside widening is complete.

06/13 - 04/19	**US 90 (I-49South), Albertson's Parkway to Ambassador Caffery, Design-Build Project, Lafayette Parish, S.P. No. H.010620 –** Served as the lead bridge and load rating engineer for the new US 90 bridge over Albertson Parkway and provided Q.C. for the US 90 BNSF RR overpass bridge within the same footprint as the existing bridge while maintaining 4-lanes of US 90 traffic during construction. This presented unique design challenges and required a complex, three-phase, traffic control and construction sequencing plan to move traffic safely through the tight work zone. The bridges consisted of multi-continuous PPC girders spans supported by concrete column bents and pile footings. The developed design concept saved millions of dollars and allowed the James Team to be 15% below the bids of the nearest competitor.
07/17 - 08/20	**I-10: Highland Road to LA 73, Design Build Project, East Baton Rouge & Ascension Parish, S.P. No. H.009250 –** Served as the lead bridge and load rating engineer for the widening of the I-10 E.B. and W.B. slab span bridges over Manchac Bayou and provided Q.C. for the replacement of the I-10 E.B. and W.B. bridges over Highland Road with a new steel plate girder bridge with PPC girder approach spans. The existing I-10 mainline bridge at the Highland Road interchange needed to be reconstructed under the project to provide longer spans in addition to more lanes. An innovative sequence of construction scheme and bridge design enabled construction of this bridge while maintaining 74,000 ADT traffic. Huval's cost-effective designs enabled its design-build team to be the only competitor to fit within the Owner's budget of $72 million.
03/19 – 04/23	**I-220/I-20 Interchange IMP & Barksdale Access Design-Build Project, Bossier Parish, LA DOTD S.P. No. H.003370 –** Currently the bridge design manager and lead bridge design and load rating engineer for the I-220 bridges over I-20 and Barksdale Access Road bridges over the KCS Railroad and also responsible for implementing the QC/QA plan for the bridge design and plan development process. The I-220 structures over I-20 consist of twin bridges utilizing LG-54 PPC girder spans supported by concrete column bents and drilled shafts. The Barksdale Access Road structures consist of twin bridges utilizing LG-54 PPC girder approach spans supported by concrete pile bents and a main span over the KCS Railroad consisting of 170'-0", LG-78 PPC girders supported by concrete column bents and drilled shafts. Some unique challenges that the project has presented is designing applicable I-220 bridge column bents for vehicular collision and completely spanning the KCS own right-of-way utilizing concrete PPC girders.
04/18 - Current	**I-49 South at Verot School Road, Lafayette, LA, S.P. H.011235, 2016-Present –** Serving as the lead bridge engineer to provide preliminary and final engineering and related services to construct 2.4 miles of mainline freeway and an interchange at the intersection of I-49 South/US 90 and Verot School Road. The project consists of an above grade bridge structure on Verot School Road that traverses over the I-49 South/US 90 mainline roadway over and parallel to the BNSF RR. The project also includes one-way frontage roads on both sides of the mainline roadway, a two-way collector service road east of the mainline roadway, and a new alignment of Verot School Road from the interchange to an existing bridge structure approximately 600' west of its intersection with LA 182 (Pinhook Road).
10/16 - 12/17	**LA 443: Tangipahoa River Bridge Replacement, S.P. H.012728 –** Lead engineer in the LRFD design, LRFR load rating, and plan preparation of a LG-25 and LG-36 p.p.c. girder bridge. This was an emergency replacement, due to the flood of 2016, and 100% final plans were completed in 8 weeks.

Firm employed by:	**HUVAL AND ASSOCIATES, INC.**		
	Name: **MATTHEW L. HEBERT, P.E.**	Years of relevant experience with this employer: **10**	
	Title: **Civil Engineer**	Years of relevant experience with other employer(s): **5**	
	Degree(s) / Years / Specialization: **BS / 2008 / Civil Engineering**	Discipline: **Civil**	
	Active registration number / state / expiration date: **PE.37713 / LA / 09-30-2025**	Year Registered: **2013**	
Contract role(s) / brief description of responsibilities	**BRIDGE DESIGN**		

RESPONSIBILITIES: Bridge Design and Ratings

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	Mr. Hebert joined Huval & Associates, Inc. in 2013 with 5 years' experience in civil engineering. Previously employed with LADOTD, he was involved with the design, live load rating, plan development, and construction support of more than 20 bridge replacement projects. These consisted of various superstructure and substructure types including but not limited to: AASHTO precast prestressed concrete (P.P.C.) girders, quad beams, cast-in-place slab spans, precast slab spans, concrete box culverts, P.P.C. pile bents, steel H-pile bents, and pipe pile bents. Additionally, Mr. Hebert was project manager for multiple bridge replacement projects. His responsibilities included coordinating all aspects of the plan development process including but not limited to road, bridge, hydraulic, and geotechnical engineering and determining the project scope, schedule, and budget. Mr. Hebert's training includes the NHI LRFR for Highway Bridge Superstructure Course, the NHI AASHTO LRFD for HWY Bridge Superstructure Course NHI AASHTO LRFD for Highway Bridge Substructure Course, the NHI AASHTO Roadside Design Course, and the NHI Design and Construction of Driven Pile Foundations Course.
01/23 - 04/23	**I-10 Over I-49 Emergency Repairs, S.P. H.015412 –** On January 3rd, an over height vehicle struck the I-10 eastbound span over the I-49 northbound roadway. Mr. Hebert worked with LADOTD to develop a multi-staged approach to re-open I-10 eastbound as fast as possible. A new 3 girder section of the bridge had to be designed and constructed off site. It would later be hauled in with SPMT (Self propelled modular transporters) after the damaged section was removed using a similar approach.
01/22 - Current	**I-10 Calcasieu River Bridge Public-Private Partnership, Calcasieu Parish S.P. H.003931 –** Lead Engineer for five bridges on the project. These include Bilbo St., Ryan St., and Lakeshore Drive overpasses, along with the PPG Drive and US 90 Overpasses.
10/20 - Current	**I-10 CMAR: LA 415 to Essen Lane on I-10 and I-12, East & West Baton Rouge Parishes S.P. H.004100 –** As an Engineer on this project, Mr. Hebert developed an alternative bridge construction phasing approach through a constructability review. This alternative phasing approach leads to safer MOT and reduced construction times, throughout the corridor.

02/17 - 11/20	**I-10 Design Build-LA 42 to LA 73, S.P. No. H.009250 -** Lead Engineer for the LRFD design, plan preparation, and LRFR live load rating for the Highland Rd. overpass. Highland Rd. consisted of a full replacement of 2 existing structures utilizing a 3-span structure which included 2-60ft. prestressed girder spans and 1-190ft. steel plate girder span. The superstructure is support by column bents and pile bents and will be one structure at the end of the project. In order to maintain traffic, the bridge had to be constructed in 3 separate stages.
04/14 - 07/18	**I-49 South-US 90 Albertson Pkwy to Ambassador Design Build, H.010620 –** Lead Engineer for LRFD Bridge design and plan preparation of the mainline bridge and the two frontage road bridges over BNSF Railway. The brides consisted of BT-72 girder spans with column bents and pile footings.
06/19 - Current	**I-220/I-20 Interchange IMP & BAFA Access Design-Build Project, S.P. H.003370 –** Mr. Hebert is serving as Bridge Design Quality Assurance on this design build project which will provide direct access to Barksdale Air Force Base. Most recently, Mr. Hebert has assisted with the QA of the I-220 Overpass bridges and KCS Overpass bridges on the project.
09/18 - 06/19	**Loyola Design Build I-10 Airport Interchange, Jefferson Parish, Louisiana, S.P. No. H.011670 -** Mr. Hebert was a primary bridge engineer throughout the RFP design phase for this complex urban interchange. A new interchange was designed and superimposed onto the existing Diamond interchange to provide direct connector access to the new New Orleans International Airport terminal. Assisted in the preparation of steel tub girder design and details, concrete box girder design and details, as well as plans and proposal documents for the RFP phase of the project. Assisted in development of alternative technical concepts, suggested sequence of construction, and miscellaneous bridge design items and other details. Assisted in the coordination and organization of all project data with the various members of the design team from numerous consulting firms.
03/18 - Current	**Belle Chasse Public-Private Partnership Project, Plaquemines Parish, Louisiana, Project No. H.004791--** Mr. Hebert was the Bridge Design Lead throughout the design phase for this new high-level fixed bridge over the Intracoastal Waterway. The new bridge will replace the existing moveable bridge and tunnel system. This is the first highway public-private partnership project in Louisiana. The bridge will be constructed in 2 stages to assist in MOT.
09/18 - 08/19	**LA 106: Bayou Boeuf Bridge, H.009497 -** Lead Engineer for the LRFD design, plan preparation, and LRFR live load rating of a new bridge structure to replacement an existing bridge. The new bridge structure consisted of LG girders and pile bents.
11/15 - 04/17	**Kaliste Saloom Roadway Widening, LCG –** Lead Engineer for the LRFD Bridge Design and plan preparation of an AAHSTO Type 4 girder bridge with pile bents on skew.
10/16 - 12/17	**LA 443: Tangipahoa River Bridge Replacement, S.P. H.012728 –** Assisted in the LRFD design, LRFR load rating, and plan preparation of a LG-25 and LG-36 p.p.c. girder bridge. This was an emergency replacement and 100% final bridge and roadway plans were completed in 8 weeks. In addition to the emergency timeline, the project had to be designed and constructed within the existing right-of-way and could not interfere with another bridge structure located approximately 250ft east of the existing bridge to be replaced. LADOTD also required that the low chord elevation of the new bridge be set to maximize the design storm flood year while also meeting all other project constraints. The design of the bridge also had to meet the LADOTD minimum design guidelines for design speed and ADT.

Firm employed by: **HUVAL AND ASSOCIATES, INC.**

Name	**REID ROMERO, P.E.**	Years of relevant experience with this employer	**14**
Title	**Civil Engineer**	Years of relevant experience with other employer(s)	**0**
Degree(s) / Years / Specialization	**BS / 2000 / Civil Engineering**	Discipline	**Civil**
Active registration number / state / expiration date	**PE.37772 / LA / 09-30-2025**	Year Registered	**2013**
Contract role(s) / brief description of responsibilities	**BRIDGE DESIGN**		

RESPONSIBILITIES: Bridge Design

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	Mr. Romero came to HUVAL after graduating from the University of Louisiana at Lafayette in 2008. Since joining Huval & Associates, Inc., Mr. Romero has been involved in bridge and structural design, plan preparation, bridge inspections and construction support services. Mr. Romero completed several NHI training courses including Fundamentals of LRFR and Applications of LRFR for bridge superstructures course, and a Drilled Shaft LRFD design methods and construction procedures course. Mr. Romero is familiar with the LADOTD Bridge Design Manual, LADOTD LRFD Bridge Design Manual, 2002 AASHTO Bridge Specifications, as well as the current AASHTO LRFD Bridge Specifications.
04/18 - Current	**Retainer for Engineering Services for Bridge Preservation - Statewide, Contract No. 4400011225 –** Lead Engineer of Retainer Contract. Responsible for coordination, project setup, QA/QC, and bridge rehab design for the $4M retainer.
05/20 - Current	**Retainer for Engineering Services for Bridge Preservation - Statewide, Contract No. 4400017262 –** Lead Engineer of Retainer Contract. Responsible for coordination, project setup, QA/QC, and bridge design for the $5M retainer.
03/19 - 06/22	**I-220/I-20 Interchange Imp & BAFB Access Design Build Project – S.P. No. H.003370 –** Responsible for QA of the bridge plans and load rating for the LA 1267 bridges over I-20 and the LA 1267 bridges over the KCS Railroad. The LA 1267 structures over I-20 consist of twin bridges utilizing LG-54 PPC girder spans supported by concrete column bents and drilled shafts. The LA 1267 structures over KCS Railroad consist of twin bridges utilizing LG-54 PPC girder approach spans supported by concrete pile bents and a main span over the KCS Railroad consisting of 170'-0", LG-78 PPC girders supported by concrete column bents and drilled shafts. Some unique challenges that the project has presented is designing applicable LA 1267 bridges over I-20 column bents for vehicular collision and completely spanning the KCS own right-of-way utilizing concrete PPC girders.
01/19 - 05/19	**I-10 Loyola Design-Build Project RFP Phase 30% Design - S.P. H.011670 –** Lead bridge engineer throughout the RFP design phase for this complex urban interchange. Assisted in the preparation of steel tub girder design and details, concrete box girder design and plans, as well as plans and proposal documents for the RFP phase of the project. Created dozens of computer models in order to analyze and size the steel tub girders, taking into account system redundancy. Assisted in development of alternative technical concepts, suggested sequence of construction, and miscellaneous bridge and other details. Assisted in the coordination and organization of all project data with the various members of the design team from numerous consulting firms.

03/23 - Current	**Jimmie Davis Bridge (LA 511), S.P. No. H.001779 –** Bridge task lead for the Design Build project to construct the new four lane bridge across the Red River in Bossier / Caddo Parish. The project includes the reconstruction of nearly two miles of LA 511 into a modern, four lane median divided highway. The project encompasses the creation of full access interchange connections at two key junctions: Arthur Ray Teague Parkway and Clyde Fant Memorial Parkway. These interchanges will seamlessly integrate with upgraded LA 511. The initiative also includes the transformation of the existing Jimmie Davis Bridge into a Linear Park. The repurposed structure will be a vibrant public space, featuring new multi-use paths for pedestrians and cyclists.
07/17 - 08/20	**I-10: Highland Road to LA 73, Design Build Project, East Baton Rouge & Ascension Parish, S.P. No. H.009250 –** Led the design, plan preparation, and load rating for the repair of the prestressed girder bridge on LA 928. Performed QA/QC of the LRFD design calculations and load rating for the steel girder bridge at Highland road and the slab span widening at Bayou Manchac. The existing I-10 mainline bridge at the Highland Road interchange needed to be reconstructed under the project to provide longer spans in addition to more lanes. An innovative sequence of construction scheme and bridge design enabled construction of this bridge while maintaining 74,000 ADT traffic. Huval's cost-effective designs enabled its design-build team to be the only competitor to fit within the Owner's budget of $72 million.
10/19 - Current	**New Swing Span- Herman Dupuis RD. Pontoon BR. Replacement, St. Martin, LA, Bridge Recall 200896 –** Lead structural engineer for the bridge design and plan development of a new swing span bridge over alligator bayou which will replace the Butte LaRose Pontoon bridge. Project is currently under construction. Designed, detailed, and sealed final plans, specifications, calculations, load rating and cost estimates for all structural elements.
11/17 - 07/18	**Surrey St. Bridge Repairs, Lafayette Parish –** Lead Engineer for the repair of the Surrey St. Bridge in Lafayette. Project consisted of bearing repair and replacement, concrete riser construction, deck overlay, joint repairs, painting of steel girders with full enclosure, and miscellaneous work.
03/11 - 06/13	**I-49 Segment I Ratings, S.P. 701-65-9999 –** Performed as-designed LRFR calculations on two prestressed girder bridges. Utilized VIRTIS to model varying girder spans. Created rating reports for each span configuration. Developed bridge load rating summary sheets. Provided construction services on an as-needed basis.
01/12 - 11/13	**I-49 North Segment J (MLK Blvd. to LA 1), S.P. H.003496.5 –** Performed LRFD design calculations and led plan preparation on two prestressed girder and steel girder bridges. Performed approach slab design, girder design check using LEAP Conspan, cap and column design check using LEAP RC Pier, steel girder design check using MDX, deck and overhang reinforcing design check, strip seal joint opening calculations, quantity calculations and QA/QC, and elevation calculations. Mr. Romero also provided load rating of the completed structure.
03/09 - 11/10	**I-49 North (LA 1 – LA 173), S.P. 701-65-1230 & S.P. 701-65-1349 –** Assisted in plan preparation and performed LRFD design calculations on a Type BT Prestressed Girder Bridge and a Type IV Prestressed Girder Bridge. Performed fixed and expansion bearing pad design, deck and overhang reinforcing design, quantity calculations and QA/QC, strip seal joint opening calculations, girder design check using LEAP Conspan, cap and column design check using LEAP RC Pier, and elevation checks.

Firm employed by: **HUVAL AND ASSOCIATES, INC.**

Name	**RUDOLPH (RUDY) MCLELLAN, PE**	Years of relevant experience with this employer	**5**
Title	**Senior Design Engineer**	Years of relevant experience with other employer(s)	**41**
Degree(s) / Years / Specialization	**BS / 1976 / Civil Engineering** **MS / 1977 / Structures** **Post Graduate Studies / 1997/ Structures**	Discipline	**Civil**
Active registration number / state / expiration date	**PE.19994 / LA / 03-31-2024** **PE. 31148 / FL / 02-28-2025**	Year Registered	**2004**
Contract role(s) / brief description of responsibilities	**BRIDGE DESIGN**		**MEETS MPR 4**

RESPONSIBILITIES: Bridge Design

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	Mr. McLellan has over 45 years of experience in every facet of Designing Bridges in an Urban Setting and structural design in over 14 states including Louisiana, Texas, Mississippi, Alabama & Florida. He is experienced in Designing Bridges in an Urban Setting including movable bridge design and rating and has been responsible for studies, preliminary and final design, preparation of plans and specifications, cost estimate for highway and railroad fixed and movable bridge projects, flood control structure and special or complex structures, including field inspections and investigative studies. Mr. McLellan has been the chief structural engineer for Designing Bridges in an Urban Setting of four movable bridge projects, including the Award Winning Double Leaf Fixed Trunnion Bascule Bridge in Louisa, Louisiana.
09/18 - Current	**Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project, Plaquemines Parish, Louisiana, Project No. H.004791 –** The bridge includes the fixed high level continuous steel plate girders having spans of 160' – 175' – 160' over the Intercoastal Waterway (ICWW) in an Urban Setting. The project included a vessel collision design for the waterway main piers. Mr. McLellan performed final Bridge Design calculations for the ICWW Main Piers and provided QA/QC for all bridge designs.
05/19 - Current	**I-220/I-20 Interchange IMP & BAFB Access Design-Build Project, Louisiana, S.P. H.003370 –** Mr. McLellan served as Design Quality Manager on this Design-Build project which will provide direct access to Barksdale Air Force Base from the I-220/I-20 Interchange. Mr. McLellan performed the Quality Assurance for the project including the Independent Check requiring Bridge Design calculations of the I-220 / I20 Overpass bridges and Bridges over the KCS Railroad on the project.
04/96 - 07/99	**S.P. 239-01-0077 LA Highway 319 Intracoastal Waterway Bridge Louisa, St. Mary Parish, Louisiana -** Mr. McLellan performed preliminary & final Complex Bridge Design calculations for all superstructure & substructure members of the constructed 276 foot double leaf fixed trunnion bascule movable bridge. The Louisa Bridge is the state's longest steel girder double leaf bascule bridge, is one of the longest span of its type in the U.S. & is the recipient of the National Steel Bridge Alliance's 2007 Prize Bridge Award Winner in the movable span category.

04/09 - 01/14	**S.P. 840-43-0001 US 71 & US 165 Fort Buhlow Bridge & Approaches Over The Red River, Rapides Parish, Louisiana. Structural Engineer -** Mr. McLellan performed final Complex Bridge Design calculations for all superstructure and substructure members of the constructed twin fixed high level three span continuous steel plate girders having spans 300' - 400' - 300' and the Main River Piers which are designed for marine vessel (Barge) collision.
01/87 - Current	**Old Mississippi River Railroad Bridge and Tunnel (Old U.S. 80), Vicksburg, Mississippi and Delta, Louisiana -** Mr. McLellan performed Complex Bridge Design/Rating including bridge safety and repair inspection, bridge load rating and structure maintenance and repair plans repairs for the existing combination highway and railway through truss, the approach deck girder bridge and the concrete tunnel structure.
09/99 - 02/03	**North Boulevard Bridge I-110 to 19TH Street, East Baton Rouge Parish, Louisiana, Project No. 97-CS-HC-0019 -** Mr. McLellan was the Bridge Engineer and performed the design, quality review of plans, constructability, cost estimates and the final structural calculations and rating analysis for all of the High Performance Concrete 10,000 psi high strength PPC concrete trapezoidal box girder (U-girder) bridge supported by concrete arch shaped piers on footings with drilled shaft in an Urban Setting.
09/95 - 07/01	**Project No. BRDP-9205-00(003) Mississippi River Bridge US 82 Greenville, Mississippi –** Mr. McLellan performed the Complex Bridge Design, quality review of plans, constructability, cost estimates and final calculations for the post-tensioned concrete segmental alternate and steel composite alternate of the 1,378 foot cable stayed main navigational span. He performed the Complex Bridge Design for most of the constructed steel composite main span, river piers supported on dredge caisson type foundations & the anchor span piers with drilled shaft footings.
03/85 - 01/94	**I 49 / LA 3132 and I 49 / I 20 Interchanges, Shreveport, Louisiana, S.P. 455-08-23 & 455-08-20 -** Mr. McLellan performed the Bridge Design, quality review of plans, constructability, cost estimates & final calculations for most of the constructed members consisting of curved continuous steel trapezoidal box girders with spans to 250', steel box framed in cap beams, the post-tensioned concrete delta shaped central (tree) pier and architecturally flared piers of both the constructed four level bridge interchanges in an Urban Setting.
04/89 - 08/90	**I-4 Turkey Lake Road Interchange, Broward County, Florida –** Mr. McLellan performed the final Bridge Design calculations for all superstructure and substructure members for the AISC Award Winning curved continuous steel box girder bridge supported by architecturally flared concrete piers having mustang rope indentations. Steel frame-in capbeams were used in the I-4 median to allow for future widening of I-4 in an Urban Setting.

Firm employed by:	**GEOENGINEERS, INC.**		
Name	**JAMES M. ARONSTEIN, JR., PE**	Years of relevant experience with this employer	**53**
Title	**Principal Geotechnical Engineer**	Years of relevant experience with other employer(s)	**5**
Degree(s) / Years / Specialization	**BS / 1965 / Civil Engineering**	Discipline	**Civil**
Active registration number / state / expiration date	**PE.11794 / LA / 03-31-2025**	Year Registered	**1969**
Contract role(s) / brief description of responsibilities	**GEOTECHNICAL**		**MEETS MPR 7**

RESPONSIBILITIES: Jim will be the principal-in-charge of the geotechnical discipline tasks

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
01/19 - Current	**S.P. H.011670: LA DOTD, I-10/Loyola Interchange Design Build, Kenner, LA:** GeoEngineers is completing the geotechnical exploration, testing, and engineering for this high-profile project in Kenner that will ultimately improve the Loyola Drive interchange to increase operational efficiency and traffic capacity. Jim is serving as Principal-in-Charge.
07/18 - Current	**P3 Belle Chasse Bridge and Tunnel Replacement** — GeoEngineers is providing geotechnical design and construction services along with subsurface exploration borings and laboratory testing for the P3 Bridge and Tunnel Replacement project in Plaquemines Parish, Louisiana. This unique project involves replacing the southbound tunnel and northbound elevating bridge with one replacement bridge over the Gulf Intracoastal Waterway (GIWW).
05/18 – 12/22	**S.P. H.003370: LA DOTD, I-20/I-220 (Barksdale AFB) Design Build, OV/QA, Bossier Parish, LA:** Jim is the Principal-in-Charge for GeoEngineers' OV/QA role in this design-build project which involves interchange improvements that will increase access to the Barksdale Air Force Base in Bossier Parish.
18/17 – 11/20	**S.P. H.009250: LA DOTD, I-10 Widening (Highland to LA-73) Design Build, OV/QA, Baton Rouge, LA:** Jim is the Principal-in-Charge for GeoEngineers' OV/QA role in this highly-anticipated I-10 project that involves widening a 6.5-mile segment of I-10 from four lanes to six lanes between Highland Road and LA-73.
04/15 – 11/17	**S.P. H.004932: LA DOTD, US-90/LA-318 Interchange Design Build, St. Mary Parish, LA:** Jim was the principal-in-charge during this design-build project in support of the proposed Interchange on US90 at LA318. GeoEngineers performed the geotechnical design including drilling, log review, test assignments, pile design, settlement analysis, embankment monitoring, and embankment design. We also conducted extensive settlement modeling to demonstrate that the aggressive schedule for this project can be met along with modeling driving in the wave equation analyses (WEAP). During construction we conducted PDA/CAPWAP testing to keep the schedule progressing.
02/13 – 04/13	**S.P. H.010620: LA DOTD, I-49/US90 Widening over LA182 and BNSF Railroad, Lafayette, LA:** A Louisiana DOTD widening project in preparation for upgrading US90 to I-49 from Albertson Road to Ambassador Caffery where Jim was the principal-in-charge in conducting bridge and roadway borings, and laboratory tests in support of design of this bridge and roadway widening project located just south of Lafayette. GeoEngineers completed 119 borings for the project on a fast-track schedule utilizing multiple drill rigs to meet the deadline.

Firm employed by:	**GEOENGINEERS, INC.**		
Name	**LARRY D. SANT, PE**	Years of relevant experience with this employer	**22**
Title	**Associate Geotechnical Engineer**	Years of relevant experience with other employer(s)	**2**
Degree(s) / Years / Specialization	**M.S. | 2001 | Civil Engineering** **B.S. | 2001 | Civil Engineering**	Discipline	**Civil**
Active registration number / state / expiration date	**PE.35625 / LA / 09-30-2024**	Year Registered	**2010**
Contract role(s) / brief description of responsibilities	**GEOTECHNICAL PROJECT MANAGER**		**MEETS MPR 7**

RESPONSIBILITIES: Larry will be the geotechnical project manager for all subsurface investigations and geotechnical design

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	Larry Sant is a senior geotechnical engineer with two decades of experience managing geotechnical engineering projects. His experience includes project planning and technical direction during exploration, laboratory testing, engineering design analyses, report preparation and construction monitoring. Larry has been involved in hundreds of projects including roadways ranging from highways to private access drives, airports, bridges, dams, university and K-12 schools, wastewater treatment plants, drainage facilities, utility projects, and other structures ranging from private residences to large public and private facilities. Representative bridge and roadway project experience includes the following.
01/19 - Current	**S.P. H.011670: LA DOTD, I-10/Loyola Interchange Design Build, Kenner, LA:** GeoEngineers is completing the geotechnical exploration, testing and engineering for this high-profile project in Kenner that will ultimately improve the Loyola Drive interchange to increase operational efficiency and traffic capacity. Larry is serving as project manager.
07/18 - Current	**P3 Belle Chasse Bridge and Tunnel Replacement** — GeoEngineers is providing geotechnical design and construction services along with subsurface exploration borings and laboratory testing for the P3 Bridge and Tunnel Replacement project in Plaquemines Parish, Louisiana. This unique project involves replacing the southbound tunnel and northbound elevating bridge with one replacement bridge over the Gulf Intracoastal Waterway (GIWW).
05/18 – 12/22	**S.P. H.003370: LA DOTD, I-20/I-220 (Barksdale AFB) Design Build, OV/QA, Bossier Parish, LA:** Larry is the project manager for GeoEngineers' OV/QA role in this design-build project which involves interchange improvements that will increase access to the Barksdale Air Force Base in Bossier Parish.
18/17 – 11/20	**S.P. H.009250: LA DOTD, I-10 Widening (Highland to LA-73) Design Build, OV/QA, Baton Rouge, LA:** Larry is the project manager for GeoEngineers' OV/QA role in this highly-anticipated I-10 project that involves widening a 6.5-mile segment of I-10 from four lanes to six lanes between Highland Road and LA-73.

04/15 – 11/17	**S.P. H.004932: LA DOTD, US-90/LA-318 Interchange Design Build, St. Mary Parish, LA:** Larry was the project manager during this design-build project in support of the proposed Interchange on US90 at LA318. He lead the geotechnical design including drilling, log review, test assignments, pile design, settlement analysis, embankment monitoring, and embankment design. We also conducted extensive settlement modeling to demonstrate that the aggressive schedule for this project can be met along with modeling driving in the wave equation analyses (WEAP). During construction we conducted PDA/CAPWAP testing to keep the schedule progressing.
02/13 – 04/13	**S.P. H.010620: LA DOTD, I-49/US90 Widening over LA182 and BNSF Railroad, Lafayette, LA:** A Louisiana DOTD widening project in preparation for upgrading US90 to I-49 from Albertson Road to Ambassador Caffery where Larry was the project manager in conducting bridge and roadway borings, and laboratory tests in support of design of this design build widening project located just south of Lafayette. GeoEngineers completed 119 borings for the project on a fast-track schedule utilizing multiple drill rigs to meet the deadline.
08/12 – 07/15	**S.P. H.010151: LA DOTD, I-210 at Cove Lane Interchange, Lake Charles, LA:** Larry was the project manager during this fast-track design and construction project in support of the proposed Interchange on I-210 at Cove Lane. GeoEngineers' completed engineering analyses and provided recommendations for design and construction of about 8,000 driven pile foundations including modeling driving in the wave equation analyses (WEAP), MSE walls, and wick-drain/surcharge design to reduce post-construction embankment settlement, in accordance with AASHTO LRFD specifications for highway bridges. In addition, the GeoEngineers' team monitored MSE wall construction, provided PDA/CAPWAP evaluation of the piles during installation, and installed liquid settlement sensors to monitor embankment settlement.
01/10 – 12/11	**S.P. 454-02-0071: LA DOTD, I-12 Widening (Amite River to Juban Road) Design Build, Denham Springs, LA:** Larry was project manager during this design build project. GeoEngineers completed engineering analyses and provided recommendations for design and construction of driven pile foundations for four bridge structures in accordance with AASHTO LRFD specifications which included PDA/CAPWAP monitoring.
09/09 – 07/11	**S.P. 424-04-0032: LA DOTD, US90 at LA85 Interchange Design Build, Iberia Parish, LA:** Larry was the project manager during a design-build project in support of the proposed Interchange on US90 at LA85. GeoEngineers' completed engineering analyses and provided recommendations for design and construction of driven pile foundations in accordance with AASHTO LRFD specifications for highway bridges and PDA/CAPWAP monitoring. In addition, the GeoEngineers' team analyzed embankment settlement and provided design recommendations for wick drains and surcharge loading to reduce post construction settlement and prevent down drag loads on the proposed adjacent bridge foundations.

Certifications

- Louisiana Traffic Control Technician (The American Traffic Safety Services Association)
- Louisiana Traffic Control Supervisor (The American Traffic Safety Services Association)
- Louisiana Registered Flagger (The American Traffic Safety Services Association)

Firm employed by:	**GEOENGINEERS, INC.**		
Name	**DAVID P. SAULS, PE**	Years of relevant experience with this employer	**29**
Title	**Senior Principal Geotechnical Engineer**	Years of relevant experience with other employer(s)	**10**
Degree(s) / Years / Specialization	**M.S. | 1984 | Civil Engineering** **B.S. | 1982 | Civil Engineering**	Discipline	**Civil**
Active registration number / state / expiration date	**PE.23270 / LA / 03-31-2025**	Year Registered	**1989**
Contract role(s) / brief description of responsibilities	**GEOTECHNICAL QA/QC**		**MEETS MPR 7**

RESPONSIBILITIES: David will be responsible for QA/QC for all subsurface investigations and geotechnical design

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
	David has more than 30 years of experience providing services on transportation-related projects and extensive experience working with the LA DOTD including the U.S. 165, Pollock to Tullos project and various timed projects for numerous private consultants. He has been the engineer of record in the production of many LA DOTD profile and laboratory data programs. David's role in these projects required project supervision and quality control in the generation of the field data as well as laboratory testing assignments and techniques. David is aware of the budget and schedule requirements for LA DOTD-related activities and has met such conditions in the past. David currently serves as frequent guest speaker to the Louisiana State University civil engineering department and previously was an adjunct professor for the instruction of Civil Engineering 4300 Foundation Design. He is an active member with numerous technical and professional societies, both locally and statewide. He is an author and co-author of seven technical papers regarding the soil behavior and deformation characteristics of numerous geotechnical foundation studies. Relevant examples of transportation project experience include:
01/19 - Current	**S.P. H.011670: LA DOTD, I-10/Loyola Interchange Design Build, Kenner, LA:** David is performing the geotechnical quality assurance during this design-build project that will increase traffic capacity and alleviate congestion on Loyola Drive at the I-10 interchange in the New Orleans area.
07/18 - Current	**P3 Belle Chasse Bridge and Tunnel Replacement** — GeoEngineers is providing geotechnical design and construction services along with subsurface exploration borings and laboratory testing for the P3 Bridge and Tunnel Replacement project in Plaquemines Parish, Louisiana. This unique project involves replacing the southbound tunnel and northbound elevating bridge with one replacement bridge over the Gulf Intracoastal Waterway (GIWW).
06/18 – 07/19	**Plank Road Relocation; City-Parish of East Baton Rouge, Baton Rouge, LA**—Performed geotechnical exploration and laboratory testing for the City of Baton Rouge. New runways at the Baton Rouge Metropolitan Airport necessitated the relocation of Plank Road. David provided bridge and piling design as well as pavement design recommendations based on geotechnical investigation results.

Firm employed by:	**VECTURA CONSULTING SERVICES, LLC**		
Name	**SHEELAGH BRIN FERLITO, PE, PTOE**	Years of relevant experience with this employer	**8**
Title	**Principal**	Years of relevant experience with other employer(s)	**27**
Degree(s) / Years / Specialization	**BS / 1988 / Civil Engineering**	Discipline	**Civil**
Active registration number / state / expiration date	**PE.0025383 / LA / 09-30-2025**	Year Registered	**1993**
Contract role(s) / brief description of responsibilities	**TRAFFIC, ITS & TMP**		**MEETS MPR 8**

RESPONSIBILITIES: Traffic Control Design, Traffic Signal Analysis and Design / TMPs / Peer Reviews

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
07/21 - Current	**H.007160 - EBR Computerized Traffic Signal, Phase VB (Baton Rouge, LA):** Brin is the task leader for Vectura for the Construction Engineering and Inspection of 24 traffic signals. Brin oversaw the review of signal mast arm shop drawings to assist the City-Parish of Baton Rouge in accepting the manufactured poles. Brin and Reece, with the DOTD, City-Parish and the Contractor conducted field visits to confirm pole foundation locations.
07/19 - Current	**MOVEBR New Capacity Projects Program Management (Baton Rouge, LA):** Brin is the lead traffic engineer for entire the New Capacity Projects program management team. All traffic engineering scope of services, traffic / speed data collection, traffic design studies, safety studies, and traffic signal design plans are reviewed by Brin. She is in constant communication with the Traffic Engineering staff of DOTD and EBR Traffic Engineering Department. She understands the current requirements for all aspects of traffic engineering projects.
07/19 - Current	**H.004791 DOTD Belle Chasse Bridge & Tunnel Replacement PPP (Belle Chasse, LA):** Brin is the project manager for the temporary and permanent traffic signal plans for the intersections of LA 23 at Burmaster St and at Engineers Rd. She based her traffic signal plans on design year volumes that were developed using growth rates from the New Orleans Regional Planning Commission Travel Demand Model. This project is the first ever Public-Private-Partnership performed by Louisiana DOTD.
09/20 – 12/21	**H.010960.5 LA 30 Roundabouts at Tanger I-10 (Ascension Parish, LA):** Brin is the project manager for the design of temporary traffic signal plans that will be implemented during the roundabout construction along LA 30 in Gonzales, LA. The project involves replacing three existing signalized intersections with multilane roundabouts along LA 30 at I-10 Interchange ramps and at Tanger Boulevard. Vectura also developed signal timing plans for each phase of the construction to maintain progression along LA 30.
07/18 – 04/19	**LA 1 Pedestrian Crosswalk Study and Traffic / Pedestrian Signal Design West Baton Rouge Parish, Addis, LA:** Brin developed a Pedestrian Crosswalk Study and Traffic Signal Construction Plans for the intersection of LA 1 at LA 990 in Addis, LA. The study was based on DOTD Traffic Engineering Manual Crosswalk Guidelines followed by traffic signal design plans based on DOTD requirements. The study included traffic and pedestrian traffic data collection, a speed study, crash analyses, intersection analyses and progression analyses. The signal plans included pedestrian signal equipment, signal timing parameter calculations, crosswalk striping, signs, DOTD pay items, estimated quantities, and construction cost. Brin also assisted with the Parish with the DOTD Permit Request for Intersection Control Devices on a State Right of Way.

09/17-04/18	**US 11 at US 190 Bus. (Fremaux Ave.) Pedestrian Crosswalk Study and Traffic / Pedestrian Signal Equipment Design Slidell, LA:** Brin developed a formal traffic study for a proposed crosswalk with pedestrian traffic signal equipment and pedestrian clearance timings based on DOTD requirements. Brin assisted with vehicle and pedestrian data collection, spot speed study, analyzed 3-year intersection crash data and developed signal timing for pedestrians to cross the street. From the design study, a set of Traffic Signal Modification Plans were developed to implement the recommended alternative.
09/16 - 04/17	**H.004957.5 I-12 To Bush - LA 3241 (I-12 – LA 36) Corridor Study (St. Tammany Parish, LA):** Brin was the project manager of a formal DOTD traffic study for the new alignment of LA 3241 with the purpose of obtaining both existing and projected future traffic variables in accordance with standard operating procedures typically performed in these types of analyses. The traffic study included alternative analyses to improve the safety and efficiency of the roadway consistent with the latest DOTD policies related to access management and complete streets. Specific access management features examined included intersection improvements, median openings, and U-turns, spacing and type of openings, signalization of intersections and roundabouts. Brin developed the safety analyses report for the project
04/14 – 12/14	**H.002301 Signal Design for N. Sherwood Forest Dr. Widening Project (Baton Rouge, LA):** As the project engineer, Brin was in responsible charge for data collection and design for three signalized intersections as part of a road widening project as per EBR DPW and DOTD requirements. Ms. Ferlito developed the traffic signal equipment, signal timing and communication construction plans, special provision specifications, quantities, and cost estimate. She also performed tasks to develop the striping plans and sequence of construction plans which included temporary signal equipment placement due to lane shifts during construction.
07/12-03/14	**EBR 03-TS-CI-0026 CE&I for EBR Traffic Signal Systems Jefferson Highway Construction (Baton Rouge, LA):** Brin was the Project Resident Engineer on behalf of EBR for performing CE&I services for the construction of 11 traffic signals. She maintained records of the contractor's daily operations, coordinated significant events that affected construction progress including utility issues, reviewed shop drawings, conducted monthly progress meetings, recorded daily installed quantities, developed change orders and monthly contractor pay estimates. She also coordinated with DOTD ITS division for fiber splicing into interstate I-12 fiber backbone and ATM/EOC building. She processed all monthly tasks in EBR formats as well as well as all items on the EBR project closeout checklist.
07/08-09/09	**SPN 013-05-0043 CE&I for EBR Traffic Signal Systems Phase IV Construction (Baton Rouge, LA):** Brin was the Project Resident Engineer for DOTD and EBR to perform CE&I services for the construction of 21 traffic signals. She developed the project Sample Plan, maintained records of the contractor's daily operations, coordinated significant events that affected construction progress including utility issues, reviewed shop drawings, conducted monthly progress meetings, recorded daily installed quantities, coordinated concrete sampling for DOTD Materials Lab, developed change orders and monthly contractor pay estimates. She also coordinated with DOTD ITS division for fiber splicing into Airline Highway fiber backbone and ATM / EOC building. She processed all monthly tasks electronically in DOTD Site Manager and in EBR required formats as well as all items on the DOTD Project Closeout Checklist including the 2059 Report.
01/09 – 03/12	**S.P. No. 700-99-0332 US 165 Corridor Study Pineville:** Brin was the Senior Project Engineer for a corridor traffic study in Pineville, LA. The project included traffic data collection, forecast traffic volume development, existing analyses and proposed alternative analyses that included improved traffic signal timings. She used Highway Capacity Manual software, Sidra software and VISSIM traffic simulation software to evaluate existing and proposed alternative conditions. Access management principles were applied to the proposed alternatives.

Firm employed by:	VECTURA CONSULTING SERVICES, LLC		
Name	LAURENCE LUCIUS LAMBERT, II, PE, PTOE, PTP	Years of relevant experience with this employer	8
Title	Principal	Years of relevant experience with other employer(s)	18
Degree(s) / Years / Specialization	BS / 1997/ Civil Engineering MS / 2006 / Transportation MBA / 2010	Discipline	Civil
Active registration number / state / expiration date	PE.0029901 / LA / 03-31-2024	Year Registered	2001
Contract role(s) / brief description of responsibilities	TRAFFIC, ITS & TMP		MEETS MPR 8

RESPONSIBILITIES: Traffic Control Design, Traffic Signal Analysis and Design / TMPs / Peer Reviews

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
12/21 - Current	**H.012030.5 US 371 KCS RR Overpasses HBI (Webster Parish, LA):** Laurence was the project manager for the design of permanent pavement marking and signing sheets for the construction plans in MicroStation. He will also participate in the QC of the sequence of construction and detour route.
06/21 – 02/22	**H.013267 Capital Area Pathways Project (Baton Rouge, LA):** Laurence was project manager for a traffic study to evaluate trail crossings at three state routes that required DOTD approval. The traffic study included traffic data collection, safety analysis, existing conditions analysis and alternative analysis. Laurence used the DOTD Traffic Engineering Manual, MUTCD, and FHWA guidance to develop the most effective trail crossing alternatives.
07/19 - Current	**MOVEBR New Capacity Projects Program Management (Baton Rouge, LA):** At the beginning of the program, Laurence worked with the Capital Region Planning Commission to produce measures of effectiveness from the travel demand model to prioritize the MOVEBR project list. Laurence and Pong Wu developed a list of vehicle miles traveled, V/C ratios and vehicles hours of delay. Laurence also provided peer review for the traffic studies for Ben Hur Road and Lee Drive.
02/21 - 03/21	**H.013256.5 I-10 ITS Scott to Lake Charles (Southwest Louisiana):** Laurence was the lead traffic engineer for a Level 2 Traffic Management Plan (TMP) for the construction of ITS equipment along I-10. The plan included a safety strategy that included a CAT Scan, LOS determination utilizing Citrix data, lane closure recommendations based on a queue analysis and public information strategies.
04/18 – 12/21	**H.010960.5 LA 30 Roundabouts at Tanger & I-10 Gonzales (Ascension, LA):** Laurence provided a Quality Control review of the temporary construction and sequence of construction plans. Vectura also provided Quality Control review of signing and striping plans at 30% and 60% plan sets to ensure the roundabouts conformed to the Pavement Markings Details Sheet PM-09 and the MUTCD details on roundabouts.
04/18 – 12/21	**H.011909.5-4 Roundabout: US 171 at Boone St. (Vernon Parish, LA):** Laurence provided a Quality Control review of the temporary construction and sequence of construction plans. Vectura also provided Quality Control review of signing and striping plans at 30% and 60% plan sets to ensure the roundabouts conformed to the Pavement Markings Details Sheet PM-09 and the MUTCD details on roundabouts.
02/20 – 09/21	**College Drive Corridor Enhancement from Perkins Road to I-10 (Baton Rouge, LA):** Laurence was the project manager to develop Chapter 1 (Data Collection), Appendix A (Initial Data Collection), and Appendix B (Final Data Collection) for proposed improvements College Drive.

	Since the I-10 interchange was included in the study, approval from DOTD was required. Vectura collected, turning movement counts, 85% speed data, travel time runs, queue measurements, field observations, verification of Traffic Signal Inventories, and bicycle / pedestrian / transit observations.
09/16 - 04/17	**H.013025 LA 182 (University Avenue) Corridor Planning Study (Lafayette, LA):** Laurence was the lead transportation engineer for a Corridor Planning Study for LA 182. The scope focused on improving safety and mobility for pedestrian, bicycle, and transit users. Laurence collected AM & PM peak vehicle turning movement counts as well as pedestrian and bicycle counts. Laurence coordinated with the Acadiana Planning Commission to develop growth rates and design year volumes. Laurence then performed Highway Capacity Manual analysis for 5 intersections along the intersection analyses for the signalized and roundabout controlled alternatives. Included in the study was a safety analyses of five intersections and the intermediate segments. Based on the results of the safety analysis, Laurence provided design criteria to the design team for improving safety of pedestrians, bicycles, and vehicles.
07/12 - 03/14	**FHWA Intersection & Interchange Geometrics: Innovative Design Considerations for All Users (Multiple States):** FHWA funded workshops for state Departments of Transportation that were interested in learning more about innovative intersection & interchange design. Laurence presented either part or all the one-day or two-day workshops that included modules on the overall policy and goals of FHWA for these types of innovations, roundabouts, roundabout interchanges, DLTs, DDIs, J-turns / Superstreets, MUT, Thru-turns, quadrant, and the assessment tools (CAP-X) available to compare the measures of effectiveness of each innovation. Each module includes sections on design, traffic operations, safety and multi-modal accommodation Laurence has presented for the Alabama, Kentucky, Ohio, Oklahoma, Massachusetts, Tennessee, and Texas Departments of Transportation under this contract.
06/16 - 09/17	**H.004490 Stage 0 Roundabout Studies, (Lafayette Parish, LA):** Laurence performed a Stage 0 Feasibility Study for roundabouts at ten intersections in the Lafayette area. The scope was developed based on EDSMs VI.1.1.1 / VI.1.1.5 and DOTD Traffic Engineering Manual Section 20.2. Laurence, along with Brin, collected 7-day, 24-hour counts w/ classification, turning movement counts for peak periods and speed data for mainlines. Once the traffic data was collected, Laurence performed traffic signal warrants analyses, performed a Sidra unsignalized, signalized and roundabout analyses. After the analyses were completed, Laurence developed a report that captured the results.
03/10 - 11/11	**S.P. No. 700-09-0171 Stage 0 and 1 Study I-49 Inner City Connector (Shreveport, LA):** This 3.5-mile route will connect existing I-49 / I-20 interchange to the proposed I-49 / I-220 interchange. After completing the Stage 0, Laurence was the project manager for the traffic analyses for the EA phase. The total traffic analyses effort included over 30 TransCAD Models, 20 interchanges and 70 intersections. Analyses included signalized and unsignalized intersections, basic freeway segments, freeway merge / diverge segments and freeway weaving segments at the studied intersections and interchanges. This project included performing both Interchange Modifications Reports (IMRs) and Interchange Justification Reports (IJRs).

17. Firm Experience

Firm Name	Project	Past Performance Evaluation Discipline
Sigma	I-10: East Jct. I-49 to LA 328 (H.003003)	Road
	I-49 S: Ambassador Caffery / US 90 Interchange (H.002868)	Road
	Hooper Rd Widening (LA408) Blackwater - Joor (H.002316)	Road
	I-220/I-20 Interchange Imp & BAFB Access DB Project (H.003370)	Road
	I-10: LA 415 to Essen Lane on I-10 & I-12 CMAR (H.004100)	Road
Lazenby & Associates, Inc.	Arkansas Road (West Monroe) LA 616 (H.002622)	Survey
	I-20 Widening/Overlay (Vancil Rd to LA 34) (H.015052)	Survey
	Kansas Lane - Garrett Road Connector and I-20 Improvements (H.007300)	Survey
CD&C, Inc.	I-10: LA 415 to Essen Lane on I-10 & I-12 CMAR (H.004100)	Survey
	I-10: TX State Line east of Coone Gully (H.003184.5)	Survey
	I-49 @ Verot School Road (H.011235)	Survey
Huval & Associates, Inc.	I-220/I-20 Interchange Imp & BAFB Access DB Project (H.003370)	Bridge
	I-49 @ Verot School Road (H.011235)	Bridge
	Kansas Lane - Garrett Road Connector and I-20 Improvements (H.007300)	Bridge
GeoEngineers, Inc.	Loyola Drive/I-10 Interchange to New Airport Terminal DB (H.011670)	Geotech
	I-210 at Cove Lane Interchange (H.010151)	Geotech
	I-10: Highland to LA 73 Quality Assurance DB (H.009250.6)	Geotech
Vectura Consulting Services, LLC	LA1 @ LA 990 Crosswalk Study and Traffic Signal Design (H.011558)	Traffic
	East Baton Rouge Parish MovEBR Program	Traffic
	I-12 to Bush - LA 3241 (I-12 - LA 36) Corridor Study (H.004957.5)	Traffic

Firm name:	SIGMA CONSULTING GROUP, INC.	Past Performance Evaluation Discipline(s)	Road
Project name	I-10: EAST JCT. I-49 TO LA 328	Firm responsibility (prime or sub?)	Prime
Project number	H.003003	Owner's name	LA DOTD
Project location	Lafayette & St. Martin Parishes	Owner's Project Manager	Nick Olivier, PE
Owner's address, phone, email	1201 Capitol Access Rd, Baton Rouge, LA | (225) 379-1133 | Nicholas.Olivier@la.gov		
Services commenced by this firm (mm/yy)	06/13	Total consultant contract cost ($1,000's)	$1,288
Services completed by this firm (mm/yy)	12/19	Cost of consultant services provided by this firm ($1,000's)	$960

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

Project Description: Sigma was the prime consultant for surveying, road design and plan preparation for capacity improvements and pavement replacement on Interstate 10 in Lafayette. The project includes adding one lane in each direction to the inside of I-10, a median barrier, bridge widening (designed by DOTD), WIM system relocations, and complex traffic management/sequencing to maintain two lanes of traffic throughout construction.

The road design components include typical sections for both asphalt and concrete alternatives, horizontal and vertical geometrics with existing bridge structures constraining the design parameters, geometric details, and a detailed analysis of the sequence of construction that will maintain two-lanes of traffic in each direction. A Level 4 TMP was also developed by Sigma.

Sigma was responsible for coordinating the multi-discipline project and preparing the final plan package. This included subconsultants/DOTD in-house staff responsible for bridge design, permanent signing, weigh-in-motion, roadway lighting, and SUE designations. Sigma also prepared permit sketches for LADOTD and attended public meetings for environmental clearance.

This project was one of three adjacent projects designed by Sigma under one contract. Projects H.003003 I-10: East Jct. I-49 to LA 328, H.010601 I-10: LA 328 to LA 347, and H.003014 I-10: LA 347 to Atchafalaya Basin Br were concurrently designed by Sigma. Project sequencing through both design and construction were critical to the successful completion of all 3 projects.

The successful bidder was within 3% of Sigma's Estimated Construction Cost.

TEAM MEMBERS INVOLVED:
R. Lear (PM), G. Sepeda, M. Williams, A. Farr,

SIMILARITIES TO I-69 FRONTAGE ROADS

- ✓ **Multiple Adjacent Projects Designed Under One Contract**
- ✓ Multi-Discipline Plans with Multiple Categories for Pay Items
- ✓ DOTD Roadway Design
- ✓ DOTD Drainage Design
- ✓ Interstate Interchange Connections to Local Roads
- ✓ Construction Support

Firm name:	SIGMA CONSULTING GROUP, INC.	Past Performance Evaluation Discipline(s)	Road
Project name	I-49 S: AMBASSADOR CAFFERY / US 90 INTERCHANGE	Firm responsibility (prime or sub?)	Sub
Project number	H.002868	Owner's name	LA DOTD
Project location	Lafayette Parish	Owner's Project Manager	Ryan Morvant, PE
Owner's address, phone, email	1201 Capitol Access Rd, Baton Rouge, LA | (225) 379-1067 | Ryan.Morvant@la.gov		
Services commenced by this firm (mm/yy)	01/13	Total consultant contract cost ($1,000's)	Unknown
Services completed by this firm (mm/yy)	Current	Cost of consultant services provided by this firm ($1,000's)	$1,294.8

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

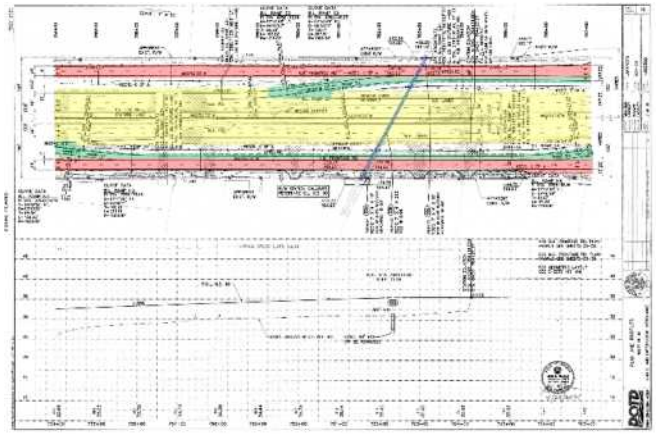
Project Description: The I-49 Ambassador Caffery project upgrades an existing at-grade intersection on US 90 with a grade separated X-Pattern interchange on Future I-49. **It includes two-lane one-way frontage roads**, U-turns, MSE Walls, **subsurface and open drainage systems**, and signalized ramp intersections. The project also was designed to accommodate future flyover directional ramps to Ambassador Caffery Pkwy and continuation of the interstate and frontage roads southward.

Sigma is a major sub for this project and was responsible for all roadway geometrics for the interstate, frontage roads, urban arterials, ramp connections, intersections, and transitions to existing roadways. Sigma also prepared all existing and design drainage calculations, and played a significant role in the bridge design and MSE Wall design. We coordinated with Huval & Associates who designed the bridges over the BNSF Railroad at the north end of the project. Additional design responsibilities included traffic signal design, utility conflict matrix development, and construction support.

Sigma is currently providing construction support, including shop drawing reviews, RFI's, change orders, and on-call services as needed.

TEAM MEMBERS INVOLVED:

R. Lear, G. Sepeda, M. Williams, A. Farr, B. Harmon, J. Renard, J. Olivier, K. Bankston



SIMILARITIES TO I-69 FRONTAGE ROADS

- ✓ Interstate and Frontage Roads
- ✓ Multi-Discipline Plans with Multiple Categories for Pay Items
- ✓ DOTD Roadway Design
- ✓ DOTD Drainage Design
- ✓ Design Reports with Waivers & Exceptions
- ✓ Bridge Design (LG Girders, PCC Pile Bents, Column Bents)
- ✓ Traffic Signal Design
- ✓ Utility Coordination
- ✓ Construction Support

Firm name:	SIGMA CONSULTING GROUP, INC.	Past Performance Evaluation Discipline(s)	Road
Project name	HOOPER RD WIDENING (LA 408) BLACKWATER – JOOR	Firm responsibility (prime or sub?)	Prime
Project number	H.002316	Owner's name	East Baton Rouge Dept. of Transportation & Drainage
Project location	Central, LA	Owner's Project Manager	Tom Stephens, PE
Owner's address, phone, email	P.O. Box 1471, Baton Rouge, LA 70821 | (225) 389-3186 | TStephens@brla.gov		
Services commenced by this firm (mm/yy)	10/12	Total consultant contract cost ($1,000's)	$1,818
Services completed by this firm (mm/yy)	Current	Cost of consultant services provided by this firm ($1,000's)	$1,111

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

Project Description: Sigma was contracted by East Baton Rouge Parish DTD, in cooperation with the FHWA and LADOTD, to provide NEPA environmental documentation, planning, and roadway engineering for the improvements to Hooper Road in Central, LA. The existing 2-lane roadway is being converted to a 4-lane boulevard with subsurface drainage and pedestrian accessibility.

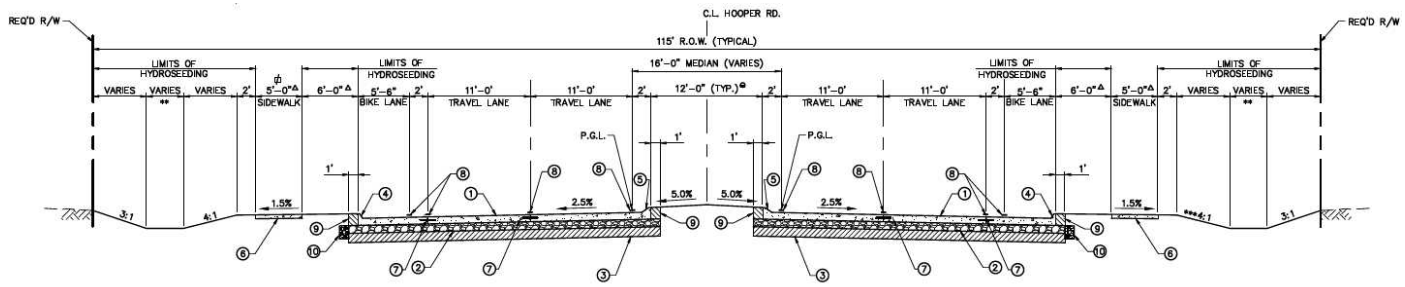
DOTD design criteria, standard plans, and pay items are being used for this EBR City Parish project since it is on a State route. The design includes a 16 ft raised median, 11 ft travel lanes, 4 ft outside shoulders with bike lane accommodations, and 5 ft sidewalks on both sides of the road. A combination of subsurface and open ditch sections are used for drainage systems. Unsignalized R-CUTs are used for U-turns and left turn movements. A 2-lane roundabout was designed at the Hooper / Lovett intersection. The sequence of construction is planned for 2 phases. Sigma prepared all roadway plans including typical sections, plan profiles, drainage plan profiles, existing and design drainage maps, geometric details, graphical grades, joint layouts, construction phasing, permanent pavement markings, permanent signing, cross sections, utility space allocations, and right-of-way maps.

SIMILARITIES TO I-69 FRONTAGE ROADS

- ✓ Urban Roadway Design
- ✓ DOTD Roadway Design
- ✓ DOTD Drainage Design

TEAM MEMBERS INVOLVED:

G. Sepeda, R. Lear,
M. Williams, A. Farr,
B. Harmon, J. Renard,
K. Bankston, B. Bourgoyne



Firm name:	SIGMA CONSULTING GROUP, INC.	Past Performance Evaluation Discipline(s)	Road
Project name	I-220/I-20 INTERCHANGE IMP & BAFB ACCESS DESIGN-BUILD PROJECT	Firm responsibility (prime or sub?)	Sub to Huval
Project number	H.003370	Owner's name	LA DOTD
Project location	Bossier Parish, LA	Owner's Project Manager	Corey Landry, PE
Owner's address, phone, email	1201 Capitol Access Rd, Baton Rouge, LA | (225) 379-1065 | Corey.Landry@la.gov		
Services commenced by this firm (mm/yy)	08/18	Total consultant contract cost ($1,000's)	$4,411
Services completed by this firm (mm/yy)	Current	Cost of consultant services provided by this firm ($1,000's)	$2,166

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

Project Description: The I-220/I-20 Interchange Imp & BAFB Access Design-Build Project consists of extending I-220 as a 4-lane freeway (Barksdale Access Road) south over I-20 to proposed ramp gores for ramps W-S and S-E at Musselshell Bayou then continuing south as a 4-lane rural arterial, crossing over the KCS RR, ending on BAFB property. Included is a modification of the existing I-220/I-20 interchange to also provide direct access from I-20 to Barksdale Access Road. Cost of the project is $72 million.

Sigma served as the lead roadway designer and was responsible for preparing design reports, roadway geometrics, hydraulic analysis and design for open channels and subsurface drainage, permanent striping, cross sections, clearing and grubbing plans, SWPPP preparation, and quantity computations. The drainage design included analyzing existing cross drains and designing new cross drains for Musselshell Bayou, which required a 10x10 RCB and bridge scour analysis at a second crossing. Sigma provided independent reviews of the transportation management plan, traffic control plans, and the Interchange Modification Report (IMR) re-evaluation.

Sigma coordinated the above-mentioned design activities for the Builder James Construction Group, in a very compressed time frame. The scheduled time from contract execution to the beginning of construction activities was 5 months, and all design activities were completed in the first 11 months of the project.

Sigma is providing construction engineering support for James Construction Group during the construction phase of the project.

TEAM MEMBERS INVOLVED:

R. Lear, M. Williams, J. Renard, A. Farr

SIGMA CONSULTING GROUP, INC.
ENGINEERING & SURVEYING

SIMILARITIES TO I-69 FRONTAGE ROADS

- ✓ Interstate and Arterial Roads
- ✓ Urban Roadway Design
- ✓ DOTD Drainage Design
- ✓ Construction Support

Firm name:	SIGMA CONSULTING GROUP, INC.		Past Performance Evaluation Discipline(s)	Road
Project name	I-10: LA 415 TO ESSEN LANE ON I-10 & I-12 (CMAR)		Firm responsibility (prime or sub?)	Sub to Huval & Associates
Project number	H.004100		Owner's name	LA DOTD
Project location	West and East Baton Rouge Parishes		Owner's Project Manager	Nick Olivier, PE
Owner's address, phone, email	1201 Capitol Access Rd, Baton Rouge, LA | (225) 379-1133 | Nicholas.Olivier@la.gov			
Services commenced by this firm (mm/yy)	10/20	Total consultant contract cost ($1,000's)	$29,583	
Services completed by this firm (mm/yy)	Current	Cost of consultant services provided by this firm ($1,000's)	$4,170	

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

Project Description: Sigma is the lead roadway design firm for this transformational transportation improvement for the Capital Region. It is being delivered in a tight time frame by an alternative delivery process. **Our primary responsibility includes geometrics and road design for the frontage roads, ramps, and local roadway upgrades. We are also responsible for the drainage design for the entire project, which includes subsurface and open ditch systems.**

The road design components include typical sections, plan profiles, drainage plan profiles, geometric layouts, geometric details, geometric details, graphical grades, cross sections, pay item and quantity computations, and non-standard special provisions. Sigma prepared all Design Reports for the project which included interstate, ramp, urban arterial, urban collector, local roads, and roundabout classifications. All associated design waivers and design exception documentation was also prepared by Sigma.

TEAM MEMBERS INVOLVED:

R. Lear, G. Sepeda, M. Williams, A. Farr, B. Harmon, J. Renard, J. Olivier, K. Bankston

SIMILARITIES TO I-69 FRONTAGE ROADS

- ✓ Interstate and Frontage Roads
- ✓ Multi-Discipline Plans with Multiple Categories for Pay Items
- ✓ DOTD Roadway Design
- ✓ DOTD Drainage Design
- ✓ Design Reports with Waivers & Exceptions
- ✓ Utility Coordination
- ✓ Construction Support

Firm name:	**LAZENBY & ASSOCIATES, INC.**	Past Performance Evaluation Discipline(s)	**Survey**
Project name	**ARKANSAS ROAD (WEST MONROE) LA 616**	Firm responsibility (prime or sub?)	**Prime**
Project number	**H.002622**	Owner's name	**LA DOTD**
Project location	**Ouachita Parish, LA**	Owner's Project Manager	**Fred Borne, PE (Retired)**
Owner's address, phone, email	**1201 Capitol Access Rd., Baton Rouge, LA 70802 | Owner PM has Retired**		
Services commenced by this firm (mm/yy)	**12/07**	Total consultant contract cost ($1,000's)	**$1,611**
Services completed by this firm (mm/yy)	**06/15**	Cost of consultant services provided by this firm ($1,000's)	**$1,512**

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

Lazenby & Associates, Inc. was the prime consultant on this project, which involved the **widening of a 3.2-mile segment of Arkansas Road (LA 616) from a two-lane arterial** to a five-lane arterial with subsurface drainage. The project included replacing four signalized intersections with multi-lane roundabouts to improve safety. An existing timber bridge site was replaced with a 4 – 7'x 7' RCB as part of this project.

Lazenby & Associates, Inc., performed topographic surveys and property surveys, and prepared preliminary plans, final plans, and right-of-way maps. Major design components were road design, hydraulic analysis and design, geometric design, signing and striping, and sequence of construction. Challenges encountered include developing a logical suggested sequence of construction while maintaining through traffic, and design of the roundabout finished grades due to the grades of the approach roadways at three of the roundabouts. Lazenby & Associates also assisted LDOTD in the environmental clearance process, preparing exhibits for and assisting with the public meetings and preparing permit drawings. Lazenby & Associates, Inc., also prepared utility relocation plans for water and sewer relocations within the project limits.

The topographic survey was performed in accordance with DOTD Location & Survey Manual and Location and Survey Automation procedures.

TEAM MEMBERS INVOLVED:

J. Lazenby, P. Fryer, R. Riggin
J. Spillers, J. Ellingburg,
R. Hammons

SIMILARITIES TO I-69 FRONTAGE ROADS

- ✓ Topographic Surveying
- ✓ DOTD Format Delivery
- ✓ Existing Drainage Map
- ✓ Suburban Roadway Survey

Firm name:	**LAZENBY & ASSOCIATES, INC.**	Past Performance Evaluation Discipline(s)	**Survey**
Project name	**I-20 WIDENING/OVERLAY (VANCIL RD TO LA 34)**	Firm responsibility (prime or sub?)	**Prime**
Project number	**H.015052**	Owner's name	**LA DOTD**
Project location	**Ouachita Parish, LA**	Owner's Project Manager	**Steve Leblanc, PLS**
Owner's address, phone, email	**1201 Capitol Access Rd., Baton Rouge, LA 70802 | (225) 379-1292 | Steve.LeBlanc2@la.gov**		
Services commenced by this firm (mm/yy)	**05/22**	Total consultant contract cost ($1,000's)	**$393.9**
Services completed by this firm (mm/yy)	**01/23**	Cost of consultant services provided by this firm ($1,000's)	**$393.9**

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

Lazenby & Associates, Inc. is the prime consultant on this project, performing topographic surveying services within the existing I-20 ROW for existing interstate widening & overlay. **Approximately 20,815 feet (3.94 mi) along I-20 (urban interstate) thru West Monroe, LA is included in the topographic survey limits, including portions of 3 urban principal arterial and 1 urban major collector interchanges/overpasses.**

Static/RTK GPS survey methods were used to establish horizontal and vertical control for the field survey. Conventional survey methods using total stations and digital levels were used to collect the topographic survey data for the project. In addition, 3D LIDAR point clouds were collected using both stationary terrestrial tripod mounted scanner and mobile scanning. Topographic features were extracted from the 3D point cloud such as hard surface pavement, bridge structures, traffic signs, overhead truss sign supports, guardrails, and existing traffic lighting. 360 camera images collected with the mobile LIDAR and georeferenced aerial imagery were used to assist with the QA/QC validation of the topographic survey. In addition to the collection of topographic survey features, other surveying services include the establishment of referenced iron rods along the project to define the GPS control, locating and research of ownership of all utilities within the limits of the topographic survey using LA One Call and preparation of an existing drainage map of the project area. **An existing DTM was developed using surface elevations collected and existing alignments were calculated along the I-20 corridor, interchanges and overpasses.**

TEAM MEMBERS INVOLVED:
R. Riggin, J. Ellingburg,
R. Hammons, N. Sampognaro

SIMILARITIES TO I-69 FRONTAGE ROADS

- ✓ Topographic Surveying
- ✓ DOTD Format Delivery
- ✓ Existing Drainage Map
- ✓ Urban Roadway Survey

The topographic survey was performed in accordance with DOTD Location & Survey Manual and Location and Survey Automation procedures.

Firm name:	**LAZENBY & ASSOCIATES, INC.**	Past Performance Evaluation Discipline(s)	**Survey**
Project name	**KANSAS LANE – GARRETT ROAD CONNECTOR AND I-20 IMPROVEMENTS**	Firm responsibility (prime or sub?)	**Prime**
Project number	**H.007300**	Owner's name	**LA DOTD**
Project location	**Ouachita Parish, LA**	Owner's Project Manager	**Catherine Mastin, PE**
Owner's address, phone, email	**1201 Capitol Access Rd., Baton Rouge, LA 70802 | (225) 379-1652 | Catherine.Mastin@la.gov**		
Services commenced by this firm (mm/yy)	**09/17**	Total consultant contract cost ($1,000's)	**$2,997.4**
Services completed by this firm (mm/yy)	**Current**	Cost of consultant services provided by this firm ($1,000's)	**$1,436.3**

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

Lazenby & Associates, Inc. is the prime consultant on this project, which involves widening Garrett Road to four lanes in the vicinity of the I-20/Garrett Road interchange, and constructing a new roadway and bridge over LA 594 and the KCS Railway to connect Garrett Road to Kansas Lane in Monroe. The project also includes a new overpass over Garrett Road, five multi-lane roundabouts, and geometric modifications to the existing interstate ramps. The project also includes lighting, an MSE wall, and a traffic signal.

Lazenby & Associates, Inc., performed topographic surveying services on this project, significantly extending the limits of the initial DOTD topographic survey limits. Lazenby also prepared preliminary roadway plans and are currently developing final roadway plans. As the prime consultant, Lazenby & Associates, Inc., is also coordinating the geotechnical engineering services, the development of bridge plans, the development of lighting plans, and traffic management plans (Level 4 TMP) by other firms retained as sub-consultants. Major design components being performed by Lazenby & Associates, Inc., include road design, hydraulic analysis and design, geometric design, signing and striping, and sequence of construction. One major challenge is to construct the project while maintaining traffic as much as possible, with minimum interference with I-20 traffic, which has resulted in a suggested sequence of construction that consists of 8 phases.

The topographic survey was performed in accordance with DOTD Location & Survey Manual and Location and Survey Automation procedures.

TEAM MEMBERS INVOLVED:

J. Lazenby, P. Fryer, R. Riggin, J. Spillers, J. Ellingburg, R. Hammons, H. Lawrence. N. Sampognaro

SIMILARITIES TO I-69 FRONTAGE ROADS

- ✓ Topographic Surveying
- ✓ DOTD Format Delivery
- ✓ Existing Drainage Map
- ✓ Urban Roadway Survey

Firm name:	**CIVIL DESIGN & CONSTRUCTION, INC.**	Past Performance Evaluation Discipline(s)	**Survey**
Project name	**I-10: LA 415 TO ESSEN LANE ON I-10 & I-12 (CMAR)**	Firm responsibility (prime or sub?)	**Sub**
Project number	**H.004100**	Owner's name	**LA DOTD**
Project location	**West and East Baton Rouge Parishes**	Owner's Project Manager	**Nick Olivier, PE**
Owner's address, phone, email	**1201 Capitol Access Rd, Baton Rouge, LA | (225) 379-1133 | Nicholas.Olivier@la.gov**		
Services commenced by this firm (mm/yy)	**01/18**	Total consultant contract cost ($1,000's)	**N/A**
Services completed by this firm (mm/yy)	**Ongoing**	Cost of consultant services provided by this firm ($1,000's)	**$296**

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

Project Description: A complete Topographic survey including all utilities (ASCE 38-02, QL "B") with depths and all drainage is required, along with Finish floor elevations of all buildings that fall within the survey limits. The survey begins 1,500 feet West of the western most entrance/exit ramps of the LA 415 and I-10 Interchange. From the I-10, I-12 split the survey shall proceed in southerly and easterly directions along the existing main alignment of I-10 for approximately 1.5 miles & I-12 for approximately 1.5 miles to end the route limits.

CD&C as a sub-consultant on this project is responsible for topographic surveying the portion of I-10 in West Baton Rouge Parish beginning at the start of the project limits to a point just before the approach of the I-10 Bridge and the limits of the project along LA 415. This work included using 3D Scanning for the bridge at I-10 bridge @ LA 415 as well as scanning every 500' for control verification and incorporation of the mobile lidar for the I-10 pavement.

The topographic survey was performed in accordance with DOTD Location & Survey Manual and Location and Survey Automation procedures.

CD&C INCORPORATED

TEAM MEMBERS INVOLVED:

R. Burgess, C. Ballard, P. Dupree, J. Stoehr, T. Norris

SIMILARITIES TO I-69 FRONTAGE ROADS

- ✓ Topographic Surveying
- ✓ DOTD Format Delivery
- ✓ Scanning Capabilities for hardscapes and bridges
- ✓ Utility Surveying

Firm name:	**CIVIL DESIGN & CONSTRUCTION, INC.**	Past Performance Evaluation Discipline(s)	**Survey**
Project name	**I-10: TX STATE LINE EAST OF COONE GULLY**	Firm responsibility (prime or sub?)	**Sub**
Project number	**H.003184.5**	Owner's name	**LA DOTD**
Project location	**Calcasieu Parish, LA**	Owner's Project Manager	**Stan Ard, PLS**
Owner's address, phone, email	**1201 Capitol Access Rd., Baton Rouge, LA 70802 | 225-379-1232 | Stanley.ard@la.gov**		
Services commenced by this firm (mm/yy)	**10/15**	Total consultant contract cost ($1,000's)	**N/A**
Services completed by this firm (mm/yy)	**12/18**	Cost of consultant services provided by this firm ($1,000's)	**$443**

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

Project Description: This was a 6-lane widening project on I-10 in Calcasieu Parish. The project limits extended from the foot of the Sabine River Bridge (approximately 0.5 miles east of the state line) to a point approximately 2000 feet east of the beginning of the existing 6-lane section (located East of Coone Gully). The survey width of the project was from apparent right of way to apparent right of way and 500 feet past the gore along each of the on and exit ramps.

In 2018, CD&C was supplemented to extend the original limits of this survey approximately 1500' and to pick up several other areas of additional topographic updates.

CD&C's Role: **CD&C performed a complete topographic survey in accordance with the Location and Survey Manual and all current accepted Location and Survey Automation Procedures for this project.** A topographic survey was already completed at all bridge sites located within the limits. **The survey included all utilities with depths and information, all drainage structures, and all survey DTM and improvement features that fell inside the survey limits.** Due to traffic concerns 3D Terrestrial Scanning was utilized for the location of roadways and traditional means and methods were used to complete the topographic survey on this project. The final submittal of the survey was a combination of the supplied data from LADOTD for the bridges with the current survey that was completed for this project.

TEAM MEMBERS INVOLVED:

R. Burgess, C. Ballard,
P. Dupree, J. Stoehr, T. Norris
K. Weston, J. Ewing, S. Benton

SIMILARITIES TO I-69 FRONTAGE ROADS

- ✓ Topographic Surveying
- ✓ DOTD Format Delivery
- ✓ Scanning Capabilities for hardscapes and bridges
- ✓ Utility Surveying

Firm name:	CIVIL DESIGN & CONSTRUCTION, INC.		Past Performance Evaluation Discipline(s)	Survey
Project name	I-49 @ VEROT SCHOOL ROAD		Firm responsibility (prime or sub?)	Sub to Huval
Project number	H.011235		Owner's name	LA DOTD
Project location	Lafayette, LA		Owner's Project Manager	Thomas Gattle (Huval)
Owner's address, phone, email	922 W. Point Des Mouton Rd., Lafayette, LA 70507 | 337-234-3798 | tgattle@huvalassoc.com			
Services commenced by this firm (mm/yy)	08/16	Total consultant contract cost ($1,000's)	$3,064	
Services completed by this firm (mm/yy)	01/18	Cost of consultant services provided by this firm ($1,000's)	$435	

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

Project Description: The project is for the proposed widening of US 90/I-49 South and realignment of Verot School Road. **A topographic survey was performed along the entire proposed route as well as an existing drainage map. This included a complete topographic survey of all utilities with depths, drainage and finished floor elevations of all buildings that fell within the designated survey limits. Also, CD&C was required to coordinate with the topographic survey of the adjacent I-49 Connector project and include required portions of the I-49 Connector project with the survey of this project.**

CD&C performed a complete topographic survey of the project site by using 3D Terrestrial Scanning in conjunction with traditional means to complete the survey. Control was set for the scanning throughout the project limits. Coordination with Cardno, Inc. (Team member) was necessary for the location of all utilities in the project area. **CD&C also coordinated with all the property owners for access to the properties and also meet with safety advisors for the industrial business that were impacted.** The survey included coordination with the ongoing I-49 Connector project and merging of that survey to the CD&C survey in order to make a complete project for the area. CD&C also researched and compiled an existing right of way linework for the prime consultant to use for exhibits for the project and is tasked to complete Final ROW Maps. **In order to complete the survey CD&C also had to coordinate with BNSF railroad for access to BNSF's rail.**

TEAM MEMBERS INVOLVED:

R. Burgess, C. Ballard,
P. Dupree, J. Stoehr, T. Norris

SIMILARITIES TO I-69 FRONTAGE ROADS

- ✓ Topographic Surveying
- ✓ DOTD Format Delivery
- ✓ Scanning Capabilities for hardscapes and bridges
- ✓ Utility Surveying
- ✓ Property Owner Coordination

Firm name:	**HUVAL & ASSOCIATES, INC.**		Past Performance Evaluation Discipline(s)	**Bridge**
Project name	**I-220/I-20 INTERCHANGE IMP & BAFB ACCESS DESIGN-BUILD PROJECT**		Firm responsibility (prime or sub?)	**Prime**
Project number	**H.003370**		Owner's name	**LA DOTD**
Project location	**Bossier Parish, LA**		Owner's Project Manager	**Corey Landry, PE**
Owner's address, phone, email	**1201 Capitol Access Rd, Baton Rouge, LA | (225) 379-1065 | Corey.Landry@la.gov**			
Services commenced by this firm (mm/yy)	**08/18**	Total consultant contract cost ($1,000's)	**$4,411**	
Services completed by this firm (mm/yy)	**Current**	Cost of consultant services provided by this firm ($1,000's)	**$2,166**	

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

Project Description: The I-220/I-20 Interchange Imp & BAFB Access Design-Build Project consists of extending I-220 as a 4-lane freeway (Barksdale Access Road) south over I-20 to proposed ramp gores for ramps W-S and S-E at Musselshell Bayou then continuing south as a 4-lane rural arterial, crossing over the KCS RR, ending on BAFB property. Included is a modification of the existing I-220/I-20 interchange to also provide direct access from I-20 to Barksdale Access Road. Cost of the project is $72 million. Saving $10 million for the LADOTD, a HUVAL-developed Alternative Technical Concept (ATC) was accepted by LADOTD and incorporated into the project. This ATC changed the IMR concept for the I-220/Barksdale Road northbound exit to I-20 westbound entrance (Ramp NB-WB) from an elevated semi-direct flyover ramp (Ramp S-W in the IMR) to an at-grade loop ramp. This ATC partial cloverleaf design extends the collector-distributor road for the I-20 westbound exit to the I-220 southbound entrance (Ramp WB-SB) included in the IMR concept in order to connect NB to WB traffic to the I-220 southbound to I-20 westbound entrance ramp (Ramp SB-WB).

HUVAL's responsibilities for the I-220 interchange project include Lead Designer, project management, roadway geometrics, LG Girder bridge design, sequence of construction, and traffic control plans.

HUVAL also is providing construction engineering support for James Construction Group during the construction phase of the project.

TEAM MEMBERS INVOLVED:

T. Gattle, J. Peltier,
R. McClellan, B. Schmidt,
R. Romero, C. Guidry,
N. Helminger

HUVAL

SIMILARITIES TO I-69 FRONTAGE ROADS

- ✓ Interstate and Arterial Roads
- ✓ Bridge Design (LG Girder Bridges)
- ✓ Bridge Design Criteria
- ✓ Bridge QA/QC Plan
- ✓ Site Visit / Document Review
- ✓ Bridge Rating
- ✓ Construction Support

Firm name:	**HUVAL & ASSOCIATES, INC.**	Past Performance Evaluation Discipline(s)	**Bridge**
Project name	**I-49 @ VEROT SCHOOL ROAD**	Firm responsibility (prime or sub?)	**Prime**
Project number	**H.011235**	Owner's name	**LA DOTD**
Project location	**Lafayette, LA**	Owner's Project Manager	**Corey Landry, PE**
Owner's address, phone, email	**1201 Capitol Access Rd, Baton Rouge, LA | (225) 379-1065 | Corey.Landry@la.gov**		
Services commenced by this firm (mm/yy)	**06/16**	Total consultant contract cost ($1,000's)	**$3,064**
Services completed by this firm (mm/yy)	**Current**	Cost of consultant services provided by this firm ($1,000's)	**$713**

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

Project Description: HUVAL leads a group of firms providing preliminary engineering and related services to construct 2.4 miles of mainline freeway and an interchange at the intersection of I-49 South/US 90 and Verot School Road. The project consists of an **above grade bridge structure on Verot School Road** that traverses over the I-49 South/US 90 mainline roadway and the parallel railroad. The project also includes **one-way frontage roads** on both sides of the mainline roadway, a **two-way collector service road** east of the mainline roadway, and a new alignment of Verot School Road from the interchange to an existing bridge structure approximately 600' west of its intersection with LA 182 (Pinhook Road). A roundabout will be utilized as the intersection between the reconstructed and realigned Verot School Road and South College Drive.

Huval was given a Notice to Proceed in July of 2016 which began Phase 1 of the design project. Phase 1 consisted of a topographic survey, SUE services, traffic engineering analysis, conceptual roadway design and bridge design, preliminary geotechnical study and public meeting and outreach. The goal of Phase 1 was to analyze and update the Record of Decision (ROD) Conceptual Layout and assess the limits of the updated concept compared to that of the ROD Concept. Phase 2, the Preliminary Plan portion of the project, began in May of 2018 and was completed in March 2022.

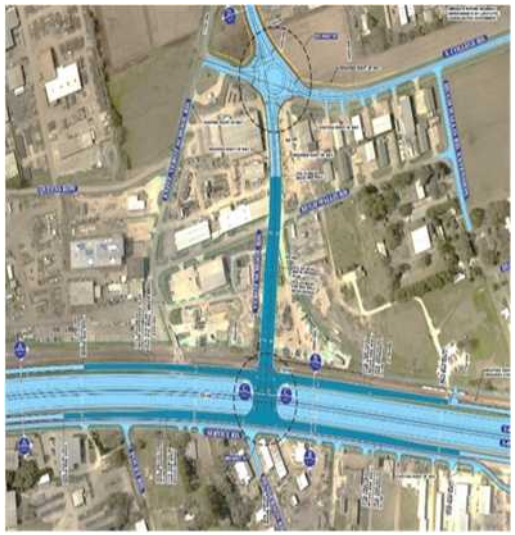
During the Preliminary Plans portion, as the prime consulting firm, Huval is responsible for overall project management, lead bridge design, lead roadway design and lead drainage design.

TEAM MEMBERS INVOLVED:
D. Huval, T. Gattle,
N. Helminger, M. Helminger
J. Peltier

SIMILARITIES TO I-69 FRONTAGE ROADS

- ✓ Interstate with Frontage Roads
- ✓ Bridge Design (LG Girder Bridges)
- ✓ Bridge Design Criteria
- ✓ Bridge QA/QC Plan
- ✓ Site Visit & Document Review
- ✓ DOTD Format Bridge Plans

HUVAL



Firm name:	**HUVAL & ASSOCIATES, INC.**	Past Performance Evaluation Discipline(s)	**Bridge**
Project name	**KANSAS LANE – GARRETT ROAD CONNECTOR AND I-20 IMPROVEMENTS**	Firm responsibility (prime or sub?)	**Sub**
Project number	**H.007300**	Owner's name	**LA DOTD**
Project location	**Ouachita Parish, LA**	Owner's Project Manager	**Catherine Mastin, PE**
Owner's address, phone, email	**1201 Capitol Access Rd., Baton Rouge, LA 70802 | (225) 379-1652 | Catherine.Mastin@la.gov**		
Services commenced by this firm (mm/yy)	**09/17**	Total consultant contract cost ($1,000's)	**$2,997.4**
Services completed by this firm (mm/yy)	**Current**	Cost of consultant services provided by this firm ($1,000's)	**$650**

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

Project Description: **HUVAL leads the design of all bridges** for this project, consisting of 1 new bridge over I-20, 1 new bridge over LA 594 and the KCS Railroad and preservation of the existing Garrett Road bridge over I-20. **HUVAL is preparing final bridge plans for the LADOTD in accordance with the AASHTO LRFD Bridge Design Specifications and the Bridge Design and Evaluation Manual.**

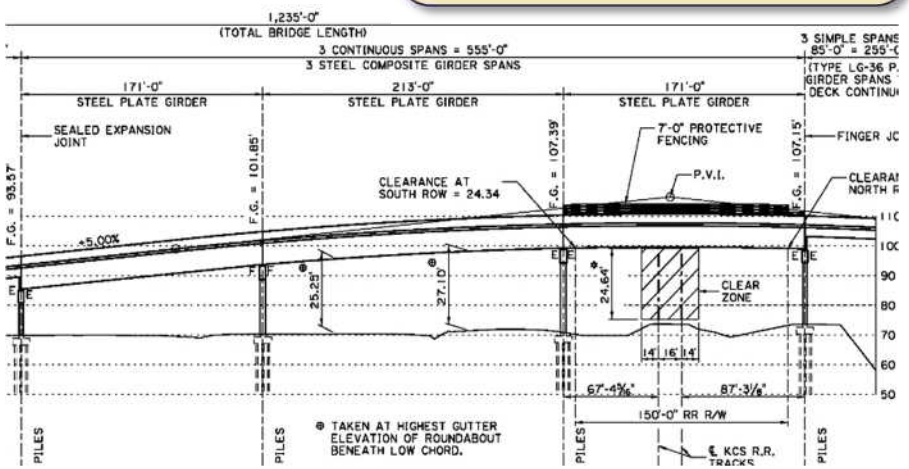
The new Garrett Road Bridge over I-20 consists of 4, LG-36 girder spans providing a total bridge length of 380'-0". The superstructure is supported by concrete column bents and pile footings. The Kansas Lane– Garrett Road Connector bridge consists of a 555'-0", 3-span continuous steel plate girder superstructure with LG-36 girder approach spans. The total bridge length is 1,235'-0". The superstructure is supported by concrete column bents and pile footings. The bridge will span over LA 594 and completely span over the KCS Railroad right-of-way. Preservation of the existing Garrett Road bridge consists of an epoxy deck overlay, repairing spalls and cracks, installing new guard rail and a class 3 concrete finish. Once the estimated $50 million project is complete, it will provide an upgraded interchange at I-20 and Garrett Road and the direct connection of Garrett Road to Kansas Lane.

TEAM MEMBERS INVOLVED:
D. Huval, T. Gattle,
J. Peltier, R. Romero

HUVAL

SIMILARITIES TO I-69 FRONTAGE ROADS

- ✓ Interstate with Frontage Roads
- ✓ Bridge Design (LG Girder Bridges)
- ✓ Bridge Design Criteria
- ✓ Bridge QA/QC Plan
- ✓ Site Visit & Document Review
- ✓ DOTD Format Bridge Plans



Firm name:	**GEOENGINEERS, INC.**		Past Performance Evaluation Discipline(s)	**Geotech**
Project name	**LOYOLA DRIVE/I-10 INTERCHANGE TO NEW AIRPORT TERMINAL DESIGN BUILD**		Firm responsibility (prime or sub?)	**Sub**
Project number	**H.011670**		Owner's name	**LA DOTD**
Project location	**Jefferson Parishes**		Owner's Project Manager	**Tim Nickel, PE**
Owner's address, phone, email	**1201 Capitol Access Rd, Baton Rouge, LA | (225) 379-1110 | Timothy.Nickel@la.gov**			
Services commenced by this firm (mm/yy)	**01/19**	Total consultant contract cost ($1,000's)	**$125,000**	
Services completed by this firm (mm/yy)	**Current**	Cost of consultant services provided by this firm ($1,000's)	**$1,100**	

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

Project Description: GeoEngineers is completing the geotechnical exploration, testing and engineering for this high-profile design build project that will ultimately improve the Loyola Drive interchange to increase operational efficiency and traffic capacity. The existing I-10 interchange is a multi-level, controlled-access interchange consisting of two overpass bridges. The LANOIA Airport is planning to build a new terminal and subsequently move the I-10 exit from Williams Boulevard to Loyola Drive.

To do this, LA DOTD hired our design-build team to:

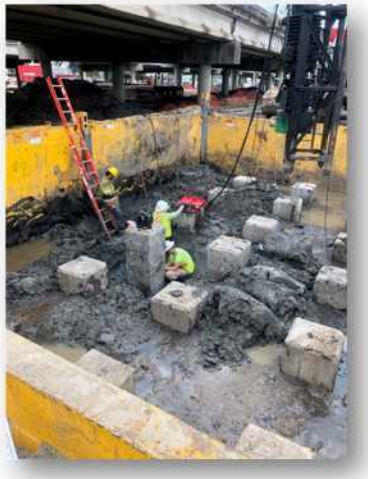
- Modify the existing ramps and construct a new multi-level interchange, including two one-way elevated flyovers and a diverging diamond on at-grade interchange Loyola Drive.
- Add auxiliary lanes along I-10, including over Duncan Canal.
- Construct noise barriers at various locations throughout the project corridor.
- Upgrade Loyola Drive north and south of I-10 and tie it into the LANOIA corridor Airport Access Road.
- Improve drainage and lighting, relocate utilities, and provide pier protection.

As part of the design build process, GeoEngineers developed a preliminary subsurface conditions evaluation describing local geology, available geotechnical information, and plotted design standards to help refine the team's design approach. Now that our team is in construction, GeoEngineers completed the geotechnical investigations, analyses, design, and construction monitoring including Pile Driving Analyzer (PDA) equipment to evaluate and monitor installation of piles. Our design services included providing foundation, embankment, pile, and pavement design recommendations.

TEAM MEMBERS INVOLVED:
J. Aronstein, L. Sant, D. Sauls, N. Haque

SIMILARITIES TO I-69 FRONTAGE ROADS

- ✓ Geotechnical Explorations
- ✓ Geotechnical Testing
- ✓ Geotechnical Design
- ✓ Construction Support



Firm name:	**GEOENGINEERS, INC.**	Past Performance Evaluation Discipline(s)	**Geotech**
Project name	**I-210 AT COVE LANE INTERCHANGE (DESIGN AND CONSTRUCTION)**	Firm responsibility (prime or sub?)	**Prime**
Project number	**H.010151**	Owner's name	**LA DOTD**
Project location	**Lake Charles, LA**	Owner's Project Manager	**Benjamin Fernandez**
Owner's address, phone, email	**1201 Capitol Access Rd, Baton Rouge, LA | (225) 379-1821 | Benjamin.Fernandez@la.gov**		
Services commenced by this firm (mm/yy)	**08/12**	Total consultant contract cost ($1,000's)	**$72,000**
Services completed by this firm (mm/yy)	**07/15**	Cost of consultant services provided by this firm ($1,000's)	**$2,470**

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

Project Description: GeoEngineers completed a geotechnical engineering evaluation, design, and construction monitoring for the new Interstate 210 (I-210) overpass of Cove Lane in Lake Charles, Calcasieu Parish. This fast-track project required our team to mobilize five different drill rigs for explorations and staff from offices across the country in order to meet the schedule requirements. We completed engineering analyses and provided design and construction recommendations for about 8,000 driven pile foundations, MSE walls and wick-drain/surcharge design to reduce post-construction embankment settlement, in accordance with AASHTO LRFD specifications for highway bridges.

GeoEngineers provided a complete geotechnical investigation, including 128 explorations (43 drilled soil borings and 85 CPTs) to depths in the range of 20 to 120 feet and associated soil laboratory testing for the I-210 overpass structure with approach embankments and ramps, which is aligned within a very crowded corridor between Cline Canal and private property. The proposed embankment overpass structure used a tight urban diamond configuration with a roundabout for the new Cove Lane interchange. The team used Pile Driving Analyzer (PDA) equipment to evaluate and monitor installation of one pile every 50 of the 8,000 piles the contractor placed. In addition, our numerous detailed records provided valuable information to the DOTD and team members during the project. The work for this large project had to be performed very close to live traffic. Safety measures were heightened even more to ensure the safety of everyone working on the project and to the ongoing traffic.

TEAM MEMBERS INVOLVED:
J. Aronstein, L. Sant

SIMILARITIES TO I-69 FRONTAGE ROADS

- ✓ Geotechnical Explorations
- ✓ Geotechnical Testing
- ✓ Geotechnical Design
- ✓ Construction Support

Firm name:	**GEOENGINEERS, INC.**	Past Performance Evaluation Discipline(s)	**Geotech**
Project name	**I-10: HIGHLAND TO LA 73 QUALITY ASSURANCE DESIGN BUILD**	Firm responsibility (prime or sub?)	**Sub**
Project number	**H.009250.6**	Owner's name	**LA DOTD**
Project location	**East Baton Rouge & Ascension Parishes, LA**	Owner's Project Manager	**Benjamin Fernandez**
Owner's address, phone, email	**1201 Capitol Access Rd, Baton Rouge, LA | (225) 379-1821 | Benjamin.Fernandez@la.gov**		
Services commenced by this firm (mm/yy)	**09/17**	Total consultant contract cost ($1,000's)	**Unknown**
Services completed by this firm (mm/yy)	**09/19**	Cost of consultant services provided by this firm ($1,000's)	**$168.5**

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

Project Description: GeoEngineers completed a design-build construction support services project for Route I-10 from Highland to LA73. GeoEngineers provided quality assurance (QA) services for the Owner-Verification (OV) team on this project that included EB and WB structures crossing Bayou Manchac, preliminary design analyses in preparation for reviewing reports and communications for compliance with LRFD and other standards, discussions during design meetings, and on-site QA observation and review during Monitor Pile testing

TEAM MEMBERS INVOLVED:

J. Aronstein, L. Sant, D. Sauls

SIMILARITIES TO I-69 FRONTAGE ROADS

- ✓ Geotechnical Construction Support

Firm name:	**VECTURA CONSULTING SERVICES, LLC**	Past Performance Evaluation Discipline(s)	**Traffic**
Project name	**LA 1 @ LA 990 CROSSWALK STUDY AND TRAFFIC SIGNAL DESIGN**	Firm responsibility (prime or sub?)	**Prime**
Project number	**H.011558**	Owner's name	**WBR Parish Government**
Project location	**Addis, LA**	Owner's Project Manager	**Kevin Durbin, PE, AICP**
Owner's address, phone, email	**880 N. Alexander Avenue Port Allen, LA 70767 | (225) 336-2434 | Kevin.Durbin@wbrcouncil.org**		
Services commenced by this firm (mm/yy)	**11/20**	Total consultant contract cost ($1,000's)	**$22**
Services completed by this firm (mm/yy)	**12/21**	Cost of consultant services provided by this firm ($1,000's)	**$22**

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

Project Description: Vectura was hired by West Baton Rouge Parish to perform a Crosswalk Traffic Engineering study and to develop **Traffic Signal Design plans** for the intersection of LA 1 and LA 990 (Addis Lane) in Addis, LA. The crosswalk was first conceptualized as part of a trail that connects the Mississippi River Trail to points west of LA 1 in the West Baton Rouge Parish Comprehensive Plan (PlanWEST) dated 9/22/11 as well as included in a Stage 0 report titled CMAQ Proposal WBR-2 dated 04/30/14.

A Crosswalk Traffic Engineering Study was performed based on the Traffic Engineering Manual (TEM) Section 3B.2.9, Section 20.2 & EDSM VI.3.1.6 Section 5 and included the following elements:

- Collected 24-hour traffic approach volumes, speed data, crash history and sight distance
- Collected AM and PM peak hour vehicle and pedestrian turning movement counts
- Developed safety analyses using 3-year crash data from Crash1 as per DOTD standards
- Performed pedestrian crosswalk warrants as per TEM Section 3B.2.9
- Performed AM and PM Peak signal timing and progression for existing conditions
- Performed AM and PM Peak signal timing and progression for future conditions

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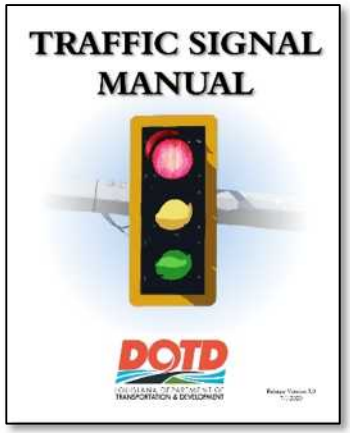


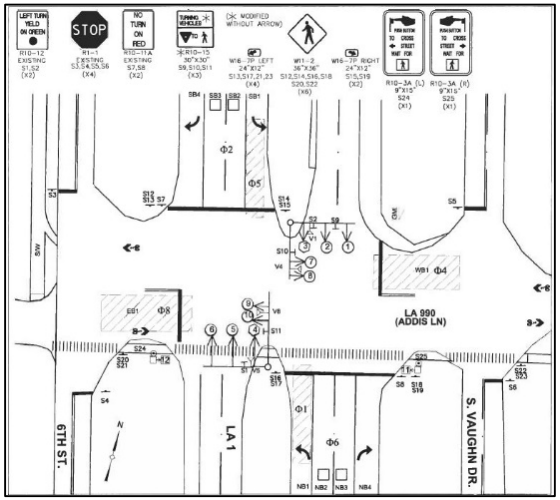
TEAM MEMBERS INVOLVED:
B. Ferlito, R. Rodgrigue,
L. Lambert, B. Robicheaux

Traffic Signal Construction Plans was prepared for LA 1 at LA 990 based on the latest DOTD Traffic Signal Inventory v3.2, DOTD Signal Design Manual, MUTCD & EDSM VI.3.1.6 Section 5. This task included signal timing parameter calculations, signal equipment layout, wiring diagram, DOTD pay items, estimated quantities, and construction cost.

SIMILARITIES TO I-69 FRONTAGE ROADS

- ✓ Traffic Signal Inventory (TSI)
- ✓ Traffic Signal Timing
- ✓ DOTD Format Traffic Signal Plans

VECTURA



Firm name:	VECTURA CONSULTING SERVICES, LLC	Past Performance Evaluation Discipline(s)	Traffic
Project name	EAST BATON ROUGE PARISH MOVEBR ($912 MILLION DOLLAR) PROGRAM	Firm responsibility (prime or sub?)	Sub
Project number	C.P. No. 19-CS-HC-0001	Owner's name	East Baton Rouge Parish
Project location	Baton Rouge, LA	Owner's Project Manager	Tom Stephens, PE
Owner's address, phone, email	1100 Laurel Street Baton Rouge, LA 70802 | (225) 389-3186 ext 5634 | TStephens@brla.gov		
Services commenced by this firm (mm/yy)	07/19	Total consultant contract cost ($1,000's)	Unknown
Services completed by this firm (mm/yy)	12/22	Cost of consultant services provided by this firm ($1,000's)	$873

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

Project Description: As part of the East Baton Rouge Parish MOVEBR ($912 Million Dollar) Program, Vectura provides traffic engineering services for all Capacity Projects. Vectura routinely collaborated with EBR Parish and DOTD Stakeholder such as Section 27, Safety Section, and DOTD District 61. The primary task was to peer review all traffic-related deliverables from consultants for 25 capacity projects to date. Submittal review in various stages included but not limited to the following:

Data Collection - Raw tube counts, peak period determination, signalized / unsignalized intersection turning movement counts, unmet demand, explanation for any count discrepancies, speed data, peak period observations, geometric field documentation, sight distance, warrants analyses

Design Year Volume Development - Travel Demand Model data, Growth rate methodologies in accordance with NCHRP 765, design year volume development

Existing and No Build Analyses - HCS, Synchro, SIDRA, VISSIM, analyses for existing and No Build conditions based on traffic volumes, lane usage, truck percent, required SIDRA roundabout settings, speed, and **Traffic Signal Inventory form information. CATScan, collision diagrams, conflict points, crash analyses report as per DOTD standards.**

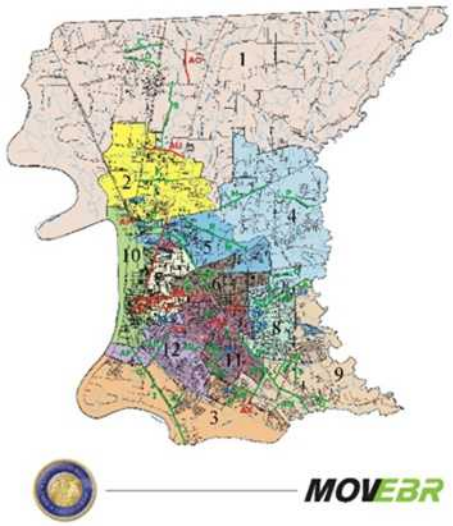
TEAM MEMBERS INVOLVED:

B. Ferlito, R. Rodgrigue,
L. Lambert, B. Robicheaux
K. Farrington, C Foshee

Build Year Alternative Analyses - Reviewed traffic volume redistribution, alternative conceptual layouts included access management, restricted median openings, signalized /unsignalized intersections, median U-turns at existing signal locations, RCUT intersections, and roundabouts. Turn lane calculations, AutoTURN, construction cost estimates

SIMILARITIES TO I-69 FRONTAGE ROADS

- ✓ Traffic Signal Inventory (TSI)
- ✓ Traffic Signal Timing
- ✓ Opening Year & Future Year Intersection Traffic Analysis



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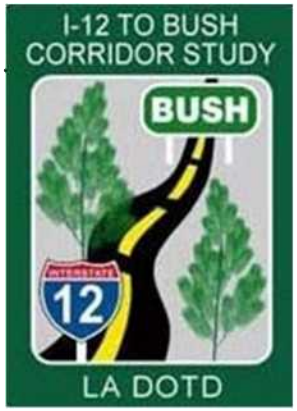
Firm name:	**VECTURA CONSULTING SERVICES, LLC**	Past Performance Evaluation Discipline(s)	**Traffic**
Project name	**I-12 TO BUSH - LA 3241 (I-12 – LA 36) CORRIDOR STUDY**	Firm responsibility (prime or sub?)	**Sub**
Project number	**H.004957.5**	Owner's name	**DOTD**
Project location	**Lacombe, LA**	Owner's Project Manager	**Joachim C Umeozulu, P.E**
Owner's address, phone, email	**1201 Capitol Access Road, Baton Rouge, LA 70802 | (225) 379-1386 | Joachim.Umeozulu@la.gov**		
Services commenced by this firm (mm/yy)	**09/16**	Total consultant contract cost ($1,000's)	**$1,895**
Services completed by this firm (mm/yy)	**05/17**	Cost of consultant services provided by this firm ($1,000's)	**$84**

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

Project Description: As part of the DOTD TIMED program, Vectura prepared a formal traffic study for the new alignment of LA 3241. The traffic study examined concepts that improved the safety and efficiency of the roadway consistent with the latest DOTD policies related to access management and complete streets. The study included **analyses for intersection** and corridor improvements such as median openings, spacing of openings, **signalized, unsignalized and roundabout intersections.**

TEAM MEMBERS INVOLVED:
B. Ferlito, R. Rodgrigue,
L. Lambert, B. Robicheaux
K. Farrington, C Foshee



SIMILARITIES TO I-69 FRONTAGE ROADS

- ✓ Traffic Signal Inventory (TSI)
- ✓ Traffic Signal Timing
- ✓ Opening Year & Future Year Intersection Traffic Analysis

Task 1 - Data Collection: Vectura collected the following traffic data for 10 intersections:

- 7-day (mainlines) and 2-day (side streets) 24-hour tube counts with vehicle classification
- Turning movement counts for morning and evening peak periods
- 15-minute driveway counts
- Traffic Signal warrants, radar speed studies and sight distance evaluation
- Developed growth rate methodology and AM and PM peak forecast traffic volumes

Task 2 Traffic Study: This task included a roundabout study as defined in EDSM VI.1.1.5, VI.1.1.1 and DOTD Traffic Engineering Manual Section 20.2. This task included the following elements:

- Perform Vistro and Sidra analyses for existing conditions
- Perform Vistro and Sidra analyses for Implementation and Design Years.
- Intersection alternatives included restricted median openings, signalized and unsignalized intersections,
- median U-turns at existing signal locations, restricted crossing U-turn (RCUT) intersections, and roundabouts
- Developed Vissim model of the preferred corridor layout
- Developed Draft Traffic Study Report (3 copies)

Task 3 Safety Analyses

VECTURA

PROJECT UNDERSTANDING

The **SIGMA TEAM** has a clear understanding of the I-69 Frontage Road projects. We have met with DOTD's Project Manager Tim Nickel to gain his insight and to understand the challenges and goals of the project. We have read the Interstate 69 SIU 15 Final Environmental Impact Statement and Record Of Decision to understand the constraints, commitments, and alternatives studied. We also have studied the Stage 0 Feasibility Reports for the I-69 Frontage Road Connector (Stonewall Frierson) H.014056 and (Ellerbe Rd to LA1) H.014054 projects.

The **SIGMA TEAM** understands that this contract contains three (3) separate State Projects that will likely be let as three construction projects. Successful implementation of all 3 projects is critical to meeting DOTD's purpose and need of providing connectivity between the Port of Caddo-Bossier and I-49.

H.014056 Stonewall Frierson Road follows an existing roadway alignment from I-49 to the KCS Railroad (Alternate 2 in the Stage 0 study) as identified in the advertised scope of work. Roadway widening and/or replacement will require utility relocations and assessment of impacts to pipelines. Coordination with KCS Railroad will also be required for the at-grade crossing. Construction sequencing should allow for maintaining traffic in both directions; however, grade differences will need to be considered for residential and commercial access points. The R-CUT at the I-49 NB off ramp to Stonewall Frierson Rd WB identified in the Stage 0 study will not be implemented as per the advertised scope of work. There are no bridges within the limits of this project. **Key Challenges: Upgrading the existing roadway while maintaining traffic, utility and pipeline conflicts, and KCS Railroad coordination.**

H.005184 I-69 Frontage Road (Stonewall Frierson to Ellerbe Road) implements the I-69 frontage road on new alignment starting at the terminus of the H.014056 project near Good Time Lane and connects to Ellerbe Road. A new bridge over Wallace Bayou near the Wallace Dam outfall structure will be required. Due to the proximity of existing oil and gas wells, the horizontal alignment of the frontage roads and future I-69 should be reviewed for potential unknown impacts. There is at least one new bridge within the limits of this project. **Key Challenges: Frontage Road and I-69 alignment coordination and potential oil and gas conflicts.**

H.014054 I-69 Frontage Road (Ellerbe Road to LA 1) connects the frontage road system between Ellerbe Road and LA 1. A considerable portion of this segment is on new alignment; however, the existing Robson Road alignment will be incorporated into the frontage road system. The new intersection at LA 1 and at-grade crossing of the Union Pacific Railroad will require close coordination with DOTD, UPRR, and the Caddo-Bossier Port. Roadway widening and/or replacement will require utility relocations and assessment of impacts to pipelines. There are three bridges, one new and two existing, within the limits of this project. **Key Challenges: Upgrading the existing roadway while maintaining traffic, utility and pipeline conflicts, UP Railroad coordination.**

The **SIGMA TEAM's** understanding of the project goals coupled with our experience in delivering DOTD projects with the same requirements as the I-69 Frontage Roads provides DOTD with a highly qualified candidate for selection.

PROJECT APPROACH / KEYS TO SUCCESS

Sigma's approach to this project comes from experience. **Similar to the I-69 Frontage Road projects, we recently completed the design for three adjacent projects on I-10 in Lafayette under one contract.** Two of the three projects were fully designed concurrently to meet the DOTD's letting and funding schedules. The advertised scope of work and requirements for the I-69 Frontage Roads requires the same project delivery process and work components as the I-10 Lafayette Segments 1, 2 and 3 projects. **In addition, our experience with designing interstate frontage roads on the I-49: Ambassador Caffery Interchange in Lafayette and I-10 CMAR Segment 1: Washington Street to Acadian Thruway in Baton Rouge qualifies the SIGMA TEAM members with practical experience needed to deliver the project.** The following approach is what we consider to be the keys to successfully delivering these projects:

- ✓ **Assemble a highly qualified and experienced design team:** The SIGMA TEAM members have a long-standing history of successfully delivering DOTD projects. In addition, we have previously worked together on DOTD projects with great communication and success.
- ✓ **Maintain a staffing plan to carry past experience forward:** The key personnel assigned to this project are the same individuals who have gained critical experience on similar projects. This will ensure that DOTD receives the highest caliber services and expertise necessary for success. Most of our core engineering group has been with Sigma for over 10 years and has their primary experience in transportation related projects for DOTD.
- ✓ **Define expectations early:** Communication is always the primary key to success. We intend to discuss DOTD's expectations and how the SIGMA TEAM intends to meet or exceed those expectations during the contract negotiation, scoping and schedule development process. These will be documented and carried forward throughout the entire life of the contract. Of particular interest is the project letting priority for the three projects. This is key to establishing the project schedule and delivery plan.
- ✓ **Establish communication protocols and documentation:** As part of our initial work plan, the SIGMA TEAM will establish a communication matrix with key team members, assignments, and responsibilities. All communications between the SIGMA TEAM and DOTD will be through Robbie Lear (PM). All major meetings and discussions will be documented. All submittal reviews, comments, and decisions will be documented.
- ✓ **Diligent project management:** The SIGMA TEAM project manager, Robbie Lear, will actively work the project schedule, monitor the budget, and forwardly orchestrate the design team to meet the project goals.
- ✓ **Site Visits:** Nothing compares to putting your eyes on the existing conditions to give you the big picture and detail needed to successfully design a project. All key personnel will visit the site to see firsthand lay of the land, constraints, and existing conditions of the project corridor.
- ✓ **Quality Control:** Last but not least, the most important key to success is quality control. Sigma has a rigorous quality control process that will be incorporated throughout the life of the project. Every submittal will be reviewed for both technical accuracy and relevant content. A copy of our quality control procedures will be submitted to DOTD upon selection.

Alignment and datum continuity throughout the entire corridor is paramount to successfully designing these 3 projects. To achieve this goal, we recommend the following approach: Upon receipt of the NTP, Lazenby will establish the project horizontal and vertical control for the entire corridor. Once the control sketch and control levels are accepted by Location & Survey, both Lazenby and CD&C would begin surveying the two highest priority projects, with each firm assigned to a specific project. Based on our experience from the I-10 Lafayette projects, the H.014056 (Stonewall Frierson) and H.014054 (Ellerbe Rd to LA 1) projects will be implemented first. This approach also provides construction access to the H.005184 (Stonewall Frierson to Ellerbe Rd) project.

METHODOLOGY

Scope and Task Development

Immediately after selection, Sigma will work with the DOTD PM to develop the contract scope and items necessary to deliver the project. We will work with the project manager to develop the blank manhour spreadsheet, sheet count, and conceptual delivery schedule. This early coordination ensures that both DOTD and Sigma are on the same page with respect to project goals, deliverables, and expectations. Once these items are established, independent manhour estimates will be completed for negotiated fee determination.

Kick-Off Meeting / Pre-Design Planning Conference & Work Planning

Once a Notice to Proceed is issued, Sigma and the DOTD will hold a project kickoff meeting, preferably in person. The appropriate DOTD and SIGMA TEAM members will walk through the project scope, discuss the items listed in the *Reconnaissance Evaluation / Pre-Design Planning Conference Form*, determine the dates for milestone deliverables, and estimate DOTD review periods at each milestone. The project design criteria, Stage 0 identified environmental constraints, and safety concerns will also be discussed and documented. Any DOTD provided services such as as-builts, geotechnical data, pavement design, environmental permitting needs, etc. will be requested at this meeting. All project points of contact with contact information will be collected and minutes of the meeting will be distributed to all pertinent personnel.

Topographic Surveying

Lazenby & Associates and Civil Design & Construction CD&C will ensure that the topographic survey adheres to all modern survey theory, practice, and procedures, and follows the latest version of the LADOTD Location and Survey Manual including typical surveying methods as applied by DOTD. This includes all accepted horizontal and vertical control standards as stated in the manual. The DOTD feature table code list and symbols shall be utilized and met with those included in the latest edition of the survey feature code guidebook produced by the DOTD Location and Survey Section and Automation. 3D Terrestrial Scanning may be utilized in conjunction with traditional means and methods to capture topography as applicable for each site and will adhere to all LADOTD Standards as related to Terrestrial and Mobile Scanning. All deliverables will adhere to the electronic standard as set forth by DOTD.

All utilities within the project limits, above and below ground, will be located. Establishment of utility ownership will also be included. Utility locates will be to Quality Level D or C services as defined by CI/ASCE Standard 38-22. Both Sigma and CD&C have SUE capabilities and experience and can assist DOTD in this discipline of work as needed. Josh Renard is Sigma's SUE coordinator and will handle all discussions with existing pipelines to determine potential impacts and mitigating requirements.

Work Zone Safety Training

All appropriate staff performing pre-construction services such as design, survey, and utility work as designated in the advertisement have been trained in work zone safety. Whenever work affects the movement of traffic or traffic safety, we will provide traffic control in conformance with the MUTCD and under the direction of a Traffic Control Supervisor (TCS). Proof of successfully completing work zone safety training for each individual is included in Section 20 of this form.

PRELIMINARY & FINAL PLAN PREPARATION

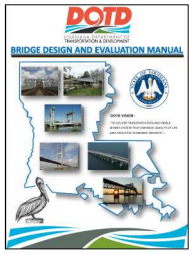
The preliminary and final plan development process will typically follow the *Road Design Tasks for Completion Milestones* chart shown as Figure 1-03 in the DOTD Road Design Manual. Milestone submittals will be made at the 30%, 60%, 90% and 100% Preliminary Plan stages and at the 60%, 95% and stamped/signed 98% Final Plan stages. These submittals will include plans and associated calculations as defined in the advertisement. Bridge and roadway design will work in conjunction to ensure that the approach roadway and proposed bridge section are compatible.

All required documentation such as review comments and responses, QA/QC certifications, Constructability Review Forms and calculations will be submitted with each appropriate delivery milestone.

Road & Drainage Design

The road and drainage design will be performed by Sigma. The DOTD Minimum Design Guidelines and selected alternatives from the FEIS/ROD will be used to prepare Design Reports for each functional class of roadway on each project. The DOTD Road Design Manual, AASHTO Green Book 2018, Roadside Design Guide, DOTD Hydraulics Manual and accepted DOTD reference material will be used to guide the road design process. DOTD's HydroWin software will be the primary tool for hydraulic design on the project.

The preliminary plan phase will focus on establishing the horizontal and vertical geometrics, typical sections, drainage design, cross sections, and conceptual sequence of construction components. The final plans phase will provide full details and quantity computations for the project.



Bridge Design

Huval is responsible for the bridge design portion of this project and has assigned a design team to meet the terms of the project scope most successfully. HUVAL has a unique understanding of the general project site through multiple projects executed in the Bossier City and Caddo Parish area. This experience includes new bridge, road design and existing bridge rehabilitation. Local knowledge results in a better understanding of the desires of the local LA DOTD District engineers, knowledge of general geotechnical site conditions, and local traffic concerns.

The preliminary planning phase for any new bridge construction project encompasses several crucial activities. The bridge plans will consist of bridge structure, type, size, and location. Conceptual bridge designs are developed in this stage and a further investigation will be done into the two existing bridges on Robson Road to see if the original bridge structures meet current guidelines. A preliminary budget estimate will also be provided during this phase.

During the final plan stage, final structure design and full bridge calculations are developed. Material details such as rebar, bearing pads, joint types, and layout, are finalized. Precise cost estimates are refined in this stage. LRFR ratings for each substructure and superstructure elements will be prepared for each bridge structure. A final calculation package will then be submitted.

Maintenance of Traffic Plans & TMP Level 2

The project team will develop the Level 2 TMP for each project in accordance with EDSM VI.1.1.8. All key team members developing MOT plans have received Traffic Control Supervisor (TCS) training. QA/QC will be provided by Greg Sepeda who has also received TCS training. The SIGMA TEAM has experience in developing multi-phased sequencing for road construction.

Traffic Engineering

Sigma is complimented by Vectura who will provide any traffic analysis and traffic studies required to further identify the project need and scope a solution. All traffic analyses will follow DOTD's Traffic Engineering processing and Report guidelines (TEPR). The study scope will be developed based on the preliminary site visit to study area, coordination with District Traffic Operation Engineer and local agencies for additional information on study area characteristics. Scope, schedule and tools to be used for the study will be discussed in detail during kick-off meeting. All the data collection tasks required for traffic analysis will be performed as per DOTD's TEPR guidelines and the project manager will be updated for consent before proceeding to next task.

TEPR Training - All traffic engineers with Vectura have taken the DOTD Traffic Engineering Process and Report course. To help understand the process and make sure the necessary data is coordinated with the design team, Sigma has assigned Alex Farr, to work with Vectura. Alex has also taken the TEPR course as well as highway safety training.

Geotechnical Investigation, Testing, and Design

All work will be performed in accordance with the requirements of the advertisement and the resulting contract. We believe that the best, accurate and optimized geotechnical design is dependent upon starting with good information, which comes from the exploration and testing program and results in the boring logs. The engineer's involvement begins in the preparation of the scope and continues through the following efforts to obtain accurate and useful results to input in design:

1. **Field Brief** – Before mobilization of the drilling crew, the engineer will meet with the field supervisor regarding site safety and access, and to review the prepared drilling plan. This plan is then communicated to the drilling crew.
2. **Exploration & Sampling** – CPTs, borings and sampling are conducted according to the ASTM standards, GEC5, and DOTD requirements.
3. **Laboratory** – Lab tests for bridge borings include moisture content, UU triaxial compressive strength, Atterberg limits, and grain size testing. Additional tests required in the advertisement will be performed when prescribed.
4. **Boring Logs** – Laboratory test results are input into DOTD gINT boring logs according to USCS classifications.
5. **Geotechnical Data Report (GDR)** – all results are included in a GDR along with a summary of findings.

The geotechnical design elements that are expected for this project include: driven piles (or shafts, if needed); roadway and approach embankments; earth retaining structures (if needed); and pavements. We plan to follow all requirements of the advertisement during design and for deliverables.

Construction Support

We plan to keep Robbie Lear (PM) and Huval's bridge engineers involved with the project construction stage. This includes working with the Districts and CE&I consultants to address RFI's, assisting with solutions to unforeseen field conditions, and preparing plan changes when necessary. Sigma and Huval have provided construction support for several projects including design-bid-build and design-build projects.

Opinion of Probable Construction Costs, Pay Items & Quantities

The preparation of opinions of probable construction costs (OPCC) will be prepared, beginning at the 90% Preliminary Plan and updates with every subsequent submittal. The SIGMA TEAM design professionals have extensive experience in the DOTD Purple Book, Pay Item list, Special Provisions, and developing specifications for Non-Standard items. We have experience with and understand the requirements for breaking down quantities by construction funding sources and control sections.

Project Management

Robbie Lear will be the overall project manager and primary point of contact for this project. He will be responsible for meeting all project delivery requirements and engaging subconsultants where necessary. Monthly status reports and schedule updates will be submitted. Robbie has over 25 years of experience in designing and managing transportation projects for DOTD.

Project Schedule

Sigma has worked on numerous large-scale DOTD projects and understands the delivery and production processes for these types of projects. This allows us to "hit the ground running" and accelerates the project initiation phase, which we have learned is a large part of the work effort. We also have a past working relationship with each of our subconsultants with successful partnering and positive project results. We have prepared a schedule of typical phases and major milestones that would be submitted for each task order.

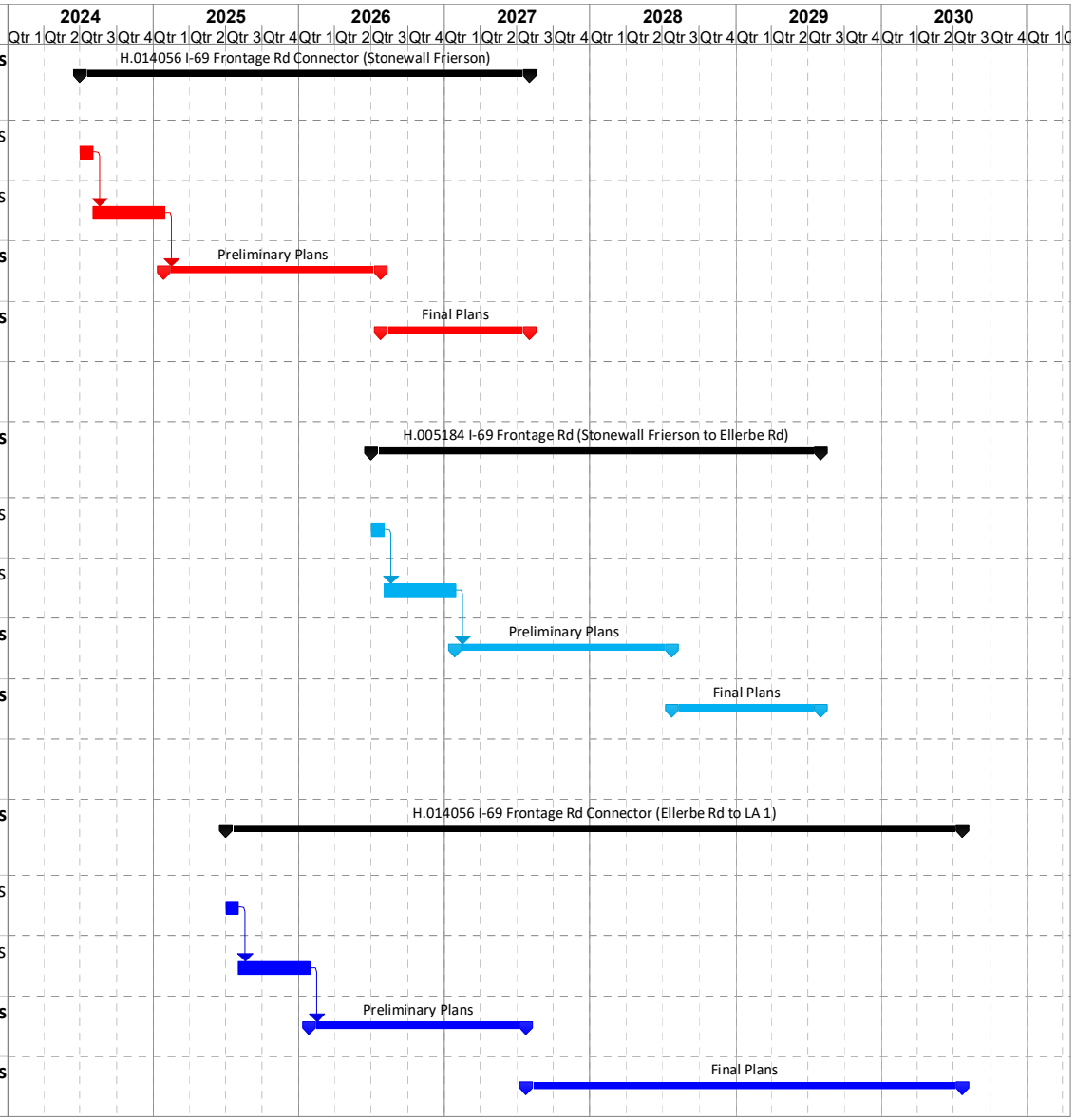
Quality Control / Quality Assurance

Sigma proposes to utilize our currently implemented quality control plan for this contract, which includes DOTD's QA/QC requirements and forms. Built around DOTD's philosophy and internal QA/QC plans, the key components to this plan include communication, redundancy, and application of experience.

CONCLUSION

The **SIGMA TEAM** has experience providing all the elements described in the Scope of Services to DOTD. With our knowledge of DOTD procedures and practices, the **SIGMA TEAM** provides a design consultant with an unparalleled depth of hands-on experience, technical expertise, and perform the services needed within budget and on time.

ID	Task Name	Start	Finish	Duration
1	**H.014056 I-69 Frontage Rd Connector (Stonewall Frierson)**	**7/1/2024**	**8/1/2027**	**1127 days**
2	Project Kickoff & Initiation	7/1/2024	7/30/2024	30 days
3	Topographic Survey	7/31/2024	1/26/2025	180 days
4	**Preliminary Plans**	**1/27/2025**	**7/24/2026**	**544 days**
12	**Final Plans**	**7/25/2026**	**8/1/2027**	**373 days**
18				
19	**H.005184 I-69 Frontage Rd (Stonewall Frierson to Ellerbe Rd)**	**7/1/2026**	**7/31/2029**	**1127 days**
20	Project Kickoff & Initiation	7/1/2026	7/30/2026	30 days
21	Topographic Survey	7/31/2026	1/26/2027	180 days
22	**Preliminary Plans**	**1/27/2027**	**7/23/2028**	**544 days**
30	**Final Plans**	**7/24/2028**	**7/31/2029**	**373 days**
36				
37	**H.014056 I-69 Frontage Rd Connector (Ellerbe Rd to LA 1)**	**7/1/2025**	**7/22/2030**	**1848 days**
38	Project Kickoff & Initiation	7/1/2025	7/30/2025	30 days
39	Topographic Survey	7/31/2025	1/26/2026	180 days
40	**Preliminary Plans**	**1/27/2026**	**7/24/2027**	**544 days**
48	**Final Plans**	**7/25/2027**	**7/22/2030**	**1094 days**



19. **Workload:**

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(s)	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance
SIGMA CONSULTING GROUP, INC. A WAGGONER COMPANY	Road	unavail., H.004791	Belle Chasse Bridge & Tunnel Replacement	$5,307
		44-18646, H.004100	I-10: LA 415 to Essen Lane on I-10 and I-12	$776,942
		44-19379, H.013797	LA 30: EBR PL - I-10 (Environmental Assessment)	$86,020
		44-19010, H.010652	LA 73: US 61 (Airline) – Essen Lane	$1,533
		44-19010, H.010116	LA 1088: Soult and Trinity Roundabouts	$62,809
		44-24084, H.009300	CMAR Contract for Hooper Road Widening (LA 3034 - LA 37)	$131,840
	Bridge	44-19338	Rural Bridge Replacement Initiative Phase II (South) (16 State Project Numbers)	$646,934
		44-25041	IIJA Off-System Bridge Program, District 62 (6 State Project Numbers)	$739,423
	Survey	44-23782, H.013429	Entity Contract for Downtown Thibodaux Sidewalks	$1,355
	CE&I / OV	44-4666, H.002868	Ambassador Caffery & US 90 Interchange Construction Support	$45,643
		44-19680, H.013897	Owner Verification Services For College Drive Flyover Ramp I-10/I-12 West	$40,803
	Environmental	44-8711, H.004526	Leeville - Golden Meadow (Ph. 2 Permits)	$208,738
	Other (SUE)	44-19183, H.001711	Saline Bayou relief & Mill Cr. Brs. - Water Lines Locate & Design (SUE) (Contract Time Suspended)	$0

19. **Workload:**

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(s)	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance
	Bridge	44-25025	Infrastructure Investing & Jobs Act (IIJA) Off-System Bridge Program – District 05 (13 Off-System Bridge Structures) (12% Complete)	$1,245,537
	Road	44-10428 H.004774.5	Kansas Lane-Garrett Road Connector & I-20 Improvements (Road Design-Urban & Road Design-Controlled) (98% Complete)	$64,158
	Survey	44-15236	IDIQ Contract for Topographic Surveys – Statewide (District 04, 05, 08 & 58) No Active Task Orders At This Time	$0
		44-17710	IDIQ Contract for Topographic Surveys – Statewide No Active Task Orders At This Time	$0
		44-19714	IDIQ Contract for Hydrographic Surveys T.O. #2 – Hydrographic Surveying Services Statewide (Districts 04, 05, 08 & 58) (69% Complete)	$13,325
	Survey	H.011833.5	St. Mary Street Sidewalks	$3,236
		H.011235.5	I-49 South @ Verot School Rd	$155,840
		H.011235.5	I-20: UPRR Overpass	$243,302
		H.015619.5	LA 106: US 167 to Avoyelles P/L	$44,101

19. **Workload:**

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(s)	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance
HUVAL	Bridge	44-5673, H.011235	I-49 South @ Verot School Road Lafayette Parish – Design Phase Supp. #1&2	$554,154
		44-10428, H.004774.5	Kansas Lane-Garrett Road Connector – Supp #1	$40,354
		Not issued, H.004791	LA 23: Belle Chasse Bridge and Tunnel (HBI)	$781,716
		44-17421, H.001352.5	Comite Diversion Bridge at LA 67 – Construction Services	$180,033
		44-17421, H.002273.5	Comite Diversion Bridge at LA 19 & LA 19 Railroad – Const. Services	
		44-18646, H.004100	I-10 CMAR – Segment 1 Design	$2,671,950
		44-17262, H.012545.5	LA454: Wiggins Bayou Bridge	$197,148
		44-17262, H.014646.5	I-20: US 165 East of Garret Road	$85,324
		44-17262, H.014052.5	LA 151: Construction Services	$42,456
		44-17262, H.002868.5	I-49 South : Ambassador Caffery / US 90 Interchange	$5,248
		44-17262, H.002868.6	I-49 South: Ambassador Caffery Interchange	$25,135
		44-17262, H.012027.5	I-20: UPRR Overpass	$526,769
		44-17262, H.015114.5	US 90 Over Bayou Ramos	$4,939
		44-17262, H.013203.5	US 90: US 90 – LA318 – LA 83 Approach Slabs	$0
		Not Issued H.001779	Jimmie Davis Bridge (LA 511- Design Build Project)	$5,409,720
GeoEngineers	Geotech	H.004791	P3 Belle Chasse Bridge & Tunnel	$45,064
		H.011670	Loyola Dr/I-10 Interchange	$2,000

19. **Workload:**

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(s)	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance
VECTURA	Traffic	44-17293, H.010616	I-20: LA 544 Overpass Replacement	$74,429
		44-5484, H.005168.2	New Orleans Rail Gateway Jefferson Highway EA	$14,200
		44-5484, H.005168.2	New Orleans Rail Gateway Avondale EA	$123,988
		Not Issued, H.004791	Belle Chasse Bridge & Tunnel Replacement PPP	$14,740
		44-21519, H.012030.5	KCS RR Overpasses HBI	$2,001
		44-24187, H.015504	CCC Decorative Lighting	$9,110
	CE&I/OV	44-20018, H.007160	EBR Computerized Traffic Signal, Ph VB	$36,576
	ITS	44-16364, H.011504.5	Alexandria ITS Phase 2	$14,305
		44-17922, H.012845.1	Connected & Autonomous Vehicles (C/AV) Team and Working Group Support	$16,932
		44-20058, H.011507.1	Monroe Phase 3 SEA	$37,461

20. Certifications/Licenses:

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Robert J Lear Jr.
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

6/30/2021 to 6/30/2025
Training Valid Through

Director of Training

Baton Rouge, LA
Location

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

The American Traffic Safety Services Association

Hereby recognizes that

Greg[illegible]epeda
has attended
Traffic Control Sup[illegible]her-LA State Specific
Training Cours[illegible]

12/7/201[illegible]/7/2018
Date

[illegible]ouge, LA
[illegible]cation

ATSSA SAFER ROADS SAVE LIVES

Training & [illegible] Dept. Director

President, CEO

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Joshua Renard
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

6/30/2021 to 6/30/2025
Training Valid Through

Director of Training

Baton Rouge, LA
Location

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

The American Traffic Safety Services Association

Hereby recognizes that

Alex Farr
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

11/15/2019 to 11/15/2019
Date

Baton Rouge, LA
Location

ATSSA SAFER ROADS SAVE LIVES

Training & Products Dept. Director

President, CEO

Certificate of Completion

presented to

Alex Farr

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: July 16, 2018
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD

Certificate of Completion

presented to

Alex Farr

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: July 23, 2018
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD

Certificate of Completion

presented to

Alex Farr

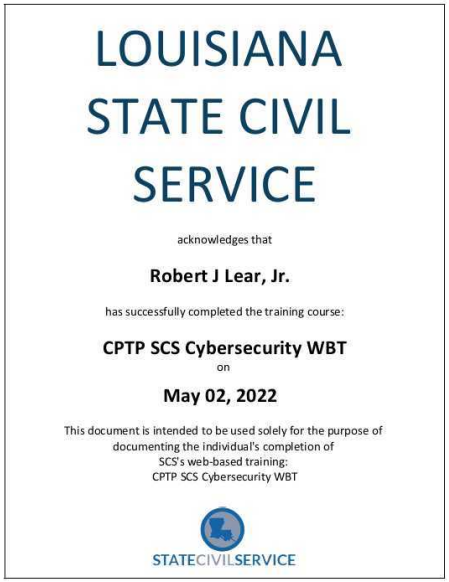
for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: October 18, 2018
Location: Baton Rouge, Louisiana
Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor | Authorized Instructor | Authorized Instructor

DOTD



LOUISIANA STATE CIVIL SERVICE

acknowledges that

Robert J Lear, Jr.

has successfully completed the training course:

CPTP SCS Cybersecurity WBT
on
May 02, 2022

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

STATECIVILSERVICE

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Paul D Fryer

has attended

Traffic Control Supervisor Refresher-LA State Specific

Training Course

7/3/2020 to 7/3/2020
Date

Vice President of Education and Technical Services

Baton Rouge, LA
Location

President, CEO

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

American Traffic Safety Services Association ATSSA.com

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Ronald J Riggin

has attended

Traffic Control Supervisor Refresher-LA State Specific

Training Course

7/3/2020 to 7/3/2020
Date

Vice President of Education and Technical Services

Baton Rouge, LA
Location

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Randy Hammons

has attended

Traffic Control Supervisor Refresher-LA State Specific

Training Course

7/3/2020 to 7/3/2020
Date

Vice President of Education and Technical Services

Baton Rouge, LA
Location

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

James S Ellingburg

has attended

Traffic Control Supervisor Refresher-LA State Specific

Training Course

7/3/2020 to 7/3/2020
Date

Vice President of Education and Technical Services

Baton Rouge, LA
Location

President, CEO

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

American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Jerry G Lazenby

has attended

Traffic Control Supervisor Refresher-LA State Specific

Training Course

7/3/2020 to 7/3/2020
Date

Vice President of Education and Technical Services

Baton Rouge, LA
Location

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

20. Certificates/Licenses:

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Christopher Ballard
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

5/10/2021 to 5/10/2025
Training Valid Through

Baton Rouge, LA
Location

Director of Training
President, CEO

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

American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Madison Mills
has attended
Louisiana Traffic Control Supervisor
Training Course

7/12/2023 to 7/12/2027
Training Valid Through

Baton Rouge, LA
Location

Vice President of Education and Technical Services
President, CEO

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

American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Clarence Goodspeed
has attended
Traffic Control Supervisor-LA State Specific
Training Course

4/27/2022 to 4/27/2026
Training Valid Through

Baton Rouge, LA
Location

Director of Training
President, CEO

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

This certificate provides proof of training, not certification.

American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Brad Jacobs
has attended
Louisiana Traffic Control Supervisor
Training Course

7/12/2023 to 7/12/2027
Training Valid Through

Baton Rouge, LA
Location

Vice President of Education and Technical Services
President, CEO

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

American Traffic Safety Services Association ATSSA.com

20. Certificates/Licenses:

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Alexander Wells
has attended
Traffic Control Technician-LA State Specific
Training Course

5/11/2021 to 5/11/2025
Training Valid Through

Director of Training

Baton Rouge, LA
Location

President, CEO

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

American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Philip S Dupree
has attended
Louisiana Traffic Control Supervisor
Training Course

7/12/2023 to 7/12/2027
Training Valid Through

Vice President of Education and Technical Services

Baton Rouge, LA
Location

President, CEO

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

American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Drennon Humphreys
has attended
Louisiana Traffic Control Supervisor
Training Course

7/12/2023 to 7/12/2027
Training Valid Through

Vice President of Education and Technical Services

Baton Rouge, LA
Location

President, CEO

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

American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Richard Evans
has attended
Louisiana Traffic Control Supervisor
Training Course

7/12/2023 to 7/12/2027
Training Valid Through

Vice President of Education and Technical Services

Baton Rouge, LA
Location

President, CEO

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

American Traffic Safety Services Association ATSSA.com

Colby Guidry

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Colby J Guidry
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

9/23/2022 to 9/23/2026
Training Valid Through

Director of Training

Lafayette, LA
Location

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

COLBY GUIDRY

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

LA DOTD/LTRC

Date: *January 21-23, 2020*
Location: *Baton Rouge, LA*

Hours of Instruction: 18

Instructor

Instructor

Local Coordinator

Michael Davies, P.E.
Director, National Highway Institute

NATIONAL HIGHWAY INSTITUTE

U.S. Department of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Colby Guidry

has participated in

FHWA-NHI-130053 Bridge Inspection Refresher Training

hosted by

Office of State Aid Road Construction

Date: *April 21-23, 2015*
Location: *Jackson, MS*

Hours of Instruction: 18

Instructor

Instructor

Local Coordinator

Valerie Briggs, Director
National Highway Institute

NATIONAL HIGHWAY INSTITUTE

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

Colby Guidry

has participated in

Safety Inspection In-Service Bridges

hosted by

ALABAMA DEPARTMENT OF TRANSPORTATION

Location: ***Mobile, Alabama***
Date: ***May 14 – 25, 2007***

Hours of instruction: ***72***

Instructor

Director, National Highway Institute
Federal Highway Administration

Coordinator

Director, Office of Professional Development
Federal Highway Administration

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Colby Guidry

has participated in

Fracture Critical Inspection Techniques for Steel Bridges

hosted by
LA DOTD/LTRC

Date: April 27-30, 2009 ***Hours of Instruction:*** 21

Location: Baton Rouge, LA

Instructor

Instructor

Allison Landry
Local Coordinator

Richard Barnaby, Director
National Highway Institute

U.S. Department Of Transportation
Federal Highway Administration

National Highway Institute

Certificate of Training

NATIONAL HIGHWAY INSTITUTE
Training Solutions for Transportation Excellence

Colby Guidry

has participated in

Fundamentals of LRFR and Applications of LRFR for Bridge Superstructures

hosted by
LA DOTD/LTRC

Date: December 7-10, 2009 ***Hours of Instruction:*** 24

Location: Baton Rouge, LA

Instructor

Instructor

Allison Landry
Local Coordinator

Richard Barnaby, Director
National Highway Institute

Transportation Professional Certification Board Inc.
1627 Eye Street, NW • Suite 600 • Washington, DC 20006 USA • Tel: 202-785-0060 • Fax: 202-785-0609 • www.tpcb.org

Ms. Sheelagh B. Ferlito, P.E., PTOE
Vectura Consulting Services, LLC

Thank you for renewing your certification as a Professional Traffic Operations Engineer®® (PTOE). The Transportation Professional Certification Board (TPCB) congrats you for your continued commitment to your profession. As a PTOE you will be recognized as one of a specialized group of professional Traffic Operations Engineers with the set of skills and expertise needed to build better communities.

Your certification is renewed through 9/9/2024.

You will not be receiving a new certificate as the one sent to you does not indicate an expiration date and can be displayed as long as you are a certified PTOE. Note that your certificate shows your original certification date.

At the end of the three-year period, your certification will be renewed without examination provided you have met the continuing education requirements described in the enclosed attachment.

Prior to the expiration of your PTOE, you will be notified of your renewal deadline. Additional examinations are not required if you renew within three-months of your expiration date 9/9/2024. Failure to renew within the 3-month grace period will result in a certified inactive letter and penalty fees for renewal. Visit our website for more information. http://www.tpcb.org/PTOE/feeschedule.asp

TPCB seeks to maintain the highest level of quality for its certification programs. Since its inception, the TPCB has required its certificants to maintain records with regard fulfillment of continuing education requirements. Please be advised that as of January 1, 2018, TPCB is phasing in a policy in which 20% of certificant renewals will be randomly selected for audit and the certificant will be required to provide documentation (certificates of completion, course syllabus, meeting agenda/registration, etc.) to demonstration fulfillment of continuing education requirements. The professional record-keeping system available from ITE, provides a resource to record the dates of completion of continuing education and maintain the necessary supporting documentation.

The TPCB continues its efforts to grow and enhance the value of the PTOE and its other certifications. In 2019 the TPCB web site was redesigned and a new certification – the Road Safety Professional – was launched. Going forward the TPCB is committed to expanding the awareness of its certification programs, encouraging jurisdictions to give preference to certificants and growing the number of certified professionals.

The TPCB distributes a quarterly newsletter and highlights the value of the its certification programs through the tpcb.org website. If you would like to contribute to the newsletter or website, please send any items of interest to: certification@tpcb.org.

Thank you for your continued PTOE certification and best wishes in the coming years.

Sincerely,

Deborah L. Snyder, P.E., PTOE
Chair, Transportation Professional Certification Board Inc.

Transportation Professional Certification Board Inc.
1627 Eye Street, NW • Suite 500 • Washington, DC 20006 USA • Tel: 202-785-0060 • Fax: 202-785-0609 • www.tpcb.org

Mr. Laurence L. Lambert, II, P.E., PTOE, PTP
Vectura Consulting Services, LLC
PO Box 14269
Baton Rouge, LA 70898-4269 USA

Thank you for renewing your certification as a Professional Traffic Operations Engineer® (PTOE). The Transportation Professional Certification Board (TPCB) congrats you for your continued commitment to your profession. As a PTOE you will be recognized as one of a specialized group of professional Traffic Operations Engineers with the set of skills and expertise needed to build better communities.

Your certification is renewed through 2/3/2025.

You will not be receiving a new certificate as the one sent to you does not indicate an expiration date and can be displayed as long as you are a certified PTOE. Note that your certificate shows your original certification date.

At the end of the three-year period, your certification will be renewed without examination provided you have met the continuing education requirements described in the enclosed attachment.

Prior to the expiration of your PTOE, you will be notified of your renewal deadline. Additional examinations are not required if you renew within **three-months** of your expiration date 2/3/2025. Failure to renew within the 3-month grace period will result in a certified inactive letter and penalty fees for renewal. Visit our website for more information. http://www.tpcb.org/PTOE/feeschedule.asp

TPCB seeks to maintain the highest level of quality for its certification programs. Since its inception, the TPCB has required its certificants to maintain records with regard fulfillment of continuing education requirements. Please be advised that as of January 1, 2018, TPCB is phasing in a policy in which 20% of certificant renewals will be randomly selected for audit and the certificant will be required to provide documentation (certificates of completion, course syllabus, meeting agenda/registration, etc.) to demonstration fulfillment of continuing education requirements. The professional record-keeping system available from ITE, provides a resource to record the dates of completion of continuing education and maintain the necessary supporting documentation.

The TPCB continues its efforts to grow and enhance the value of the PTOE and its other certifications. In 2019 the TPCB web site was redesigned and a new certification – the Road Safety Professional – was launched. Going forward the TPCB is committed to expanding the awareness of its certification programs, encouraging jurisdictions to give preference to certificants and growing the number of certified professionals.

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Thank you for your continued PTOE certification and best wishes in the coming years.

Sincerely,

Deborah L. Snyder, P.E., PTOE
Chair, Transportation Professional Certification Board Inc.

Certificate of Completion

presented to

Brin Ferlito

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: June 4, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Brin Ferlito

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: June 11, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 4

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Brin Ferlito

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: September 10, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Laurence Lambert

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: July 16, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Laurence Lambert

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: July 23, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Laurence Lambert

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: October 15, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Brin Ferlito

has attended

Traffic Control Supervisor Refresher-LA State Specific

Training Course

4/29/2022 to 4/29/2026
Training Valid Through

Director of Training

Baton Rouge, LA
Location

President, CEO

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

This certificate provides proof of training, not certification.

American Traffic Safety Services Association ATSSA.com

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Laurence Lambert

has attended

Traffic Control Supervisor Refresher-LA State Specific

Training Course

4/29/2022 to 4/29/2026
Training Valid Through

Director of Training

Baton Rouge, LA
Location

President, CEO

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This certificate provides proof of training, not certification.

American Traffic Safety Services Association ATSSA.com

21. QA/QC Plan:

If the advertisement requires submission of a QA/QC plan, include it here. **Otherwise, leave this section blank.**

HUVAL

Engineering and Related Services – I-69 Frontage Road Stonewall Frierson to Ellerbe Road, Ellerbe to LA 1, Stonewall Frierson

BRIDGE QUALITY MANAGEMENT PLAN

Prepared for:

Contract No. 4400027735

Prepared by:

HUVAL & ASSOCIATES, INC.

Table of Contents

1. INTRODUCTION

The HUVAL Design Team has a goal of providing timely, efficient, and high-quality bridge engineering services to its clients. Safety is a top priority for the Team and its staff of qualified professionals. Successful completion of a project requires top-quality planning, teamwork, management, and a thorough review of all plans and documents.

In order to best serve the LADOTD, we have developed this Quality Control / Quality Assurance (QC/QA) plan. Since the LADOTD is our primary client, we have incorporated the QC/QA requirements of the LADOTD into this plan in order to produce quality sets of plans. According to the LADOTD's Construction Plans Quality Control / Quality Assurance Manual, a quality set of plans should have the following characteristics (The 5 C's): complete, consistent, clear, correct, and constructible. Our goal is to meet and exceed the requirements presented under the LADOTD Bridge Design Section Policy on Quality Control and Quality Assurance and the Guidance on QC/QA in Bridge Design in Response to NTSB Recommendation (H-08-17) in order to achieve the desired result of a quality set of plans.

The following QC/QA plan is proposed as a general document/guideline and may be modified based upon the specified scope of an individual project/task order and input from the LADOTD. The QC/QA Plan has been made to assure the LADOTD that the Huval Design Team understands the complexities associated with each project and are prepared to produce an accurate and complete submittal. The process assures that quality a set of Construction Plans will be submitted for Bid, thus, minimizing Plan Revisions and Plan Changes.

1.1 Definition of Terms and Positions

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.

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.

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 a 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.

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

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.

Team Leader: Project Manager or Task Assignee responsible for overseeing the project and staff on the project. Responsible for conducting audits and ensuring quality control plans are adhered to for each discipline.

Constructability Review: A design review performed by the Contractor or appropriate construction services personnel to assess the feasibility of the proposed design from a construction perspective.

Design Criteria: Document agreed to by the LADOTD and Consultant prior to design that establishes the design guidelines and procedures to be used for the design of the project. The Design Criteria shall include a Checklist that lists all the criteria, factors, software and general guidelines to be used for each discipline required for this project. The Checklist is based upon the LADOTD Bridge Design Section Policy on Quality Control and Quality Assurance Appendix A: Design Criteria Checklist.

2. BRIDGE DESIGN TEAM AND CONSULTANT RESPONSIBILITIES

As the Prime Consultant, HUVAL has selected experienced staff and Sub-consultant firms with qualified personnel to assist in the design of the required bridge structures for the project. Huval shall have the role of the project manager, Lead Bridge Designer and will also be responsible for the scope development of individual task orders. Huval shall also be responsible for QC/QA of the bridge/structural plans and design calculations.

2.1 File Management

Refer to Quality System Procedure (QSP) No. 9 of the QA/QC Plan for document and file management control requirements.

2.2 CADD

All drawings shall be performed in Microstation V8i and be CADD Conformed to LADOTD standards. HUVAL will be responsible for assuring that these requirements are met by all Consultants.

2.3 LADOTD Roles

Quality control is the sole responsibility of the Design Team. The Team shall be responsible for completing quality control in accordance with this document and the QM prior to all submissions. LADOTD's role shall be limited to providing comments on the substance provided and not completely reviewing the plans for errors and omissions.

3. DESIGN CRITERIA AND SOFTWARE

The following sections discuss the Design Team's procedures for Design Criteria and Software determination.

3.1 Design Criteria

Design criteria will be created based on the requirements of the Bridge Design and Evaluation Manual. If applicable the design criteria shall include but not be limited to;

- Governing Design and Construction Specifications and Other References
- Design Assumptions and Design Exceptions
- General Information
- Hydraulic Design Criteria
- Design Factors
- Design Loads
- Limit States
- Bridge Barrier
- Guardrail
- Approach Slab
- Deck and Deck Drainage
- Bearings
- Joints
- Superstructure
- Substructure
- Piles
- Geotechnical Design
- Electrical/ Lighting Design
- As-Designed Rating Criteria
- Software

The design criteria will be submitted to LADOTD for review and approval prior to the start of design. The design criteria will be updated as necessary but resubmitted to LADOTD for review and approval.

Design memorandums will be issued to the Team for all major decisions that affect the design.

3.2 Software

The Design Team shall adhere to LADOTD policies regarding software by using only design software which is pre-approved by the LADOTD. Design and drafting software to be used on the Project shall be listed in the design criteria. In the event software has not been pre-approved by the LADOTD, the Design Team shall adhere to the following stipulations in order to seek LADOTD approval of the software to be used.

A synopsis of the software shall be submitted to the Bridge Design Engineer Administrator for approval prior to use. The synopsis shall include the name of the software and the developer, a general description of the functions, a certification from the software developer stating that it is maintained in accordance with the latest AASHTO LRFD Bridge Design Specifications, and an account of the requester's experience and the experience of other organizations or agencies that use the software. Data/results from in-house software will not be accepted as part of the deliverable.

4. DESIGN QUALITY MANAGEMENT PLAN

4.1 Quality Management Overview

A specific Quality Control/Quality Assurance process has been established for the design of all bridges for the projects. This shall include design and detail reviews among the designated design team responsible for the design.

Detailed procedures for QC and QA are described in the following sections.

4.2 Quality Control Process (QC)

Design Calculations and Plans

Quality control starts with the Designer. The Designer is responsible for producing and reviewing all calculations and details prior to being checked. It is the responsibility of the Designer to develop and check the details and plans produced by the Detailers.

The design checker is the engineer responsible for performing a full technical review of the design calculations, drawings, special provisions including Non-Standard items, and cost estimate. The design checker must be licensed by the State of Louisiana a professional engineer or certified as an engineer intern; however, if the designer is an engineer intern, the design checker must be a professional engineer. The detail checker is the individual responsible for performing a full review of the CAD drawings. The detail checker can be a designer or a detailer. The design checker and detail checker shall not be the ones who perform the original design and detailing.

During the design check process, the design checker must verify the accuracy of the designer's calculations, pay items, quantities, special provisions including Non-Standard items, and cost estimate. The design checker may perform a redline check of the designer's calculations or produce an independent set of calculations and compare the results; the supervisor or team leader shall determine which method to use

depending on the complexity of the project. Regardless of the checking method employed, the designer's calculations are the calculations of record and must be updated to correct any errors or omissions discovered by the design checker. The calculations of the design checker should also become a part of the calculation of record when independent checking calculations are produced. The design checker should also ensure that the drawings adequately and accurately present the design information.

During the detail check process, the detail checker must ensure the drawings are in accordance with the design information and CAD standards. All dimensions and quantity calculations must be verified.

The checker may begin the checking process at the completion of the entire design/detail process or may check components of the designer/detailer's work as it is completed. Likewise, the checker may provide feedback at the completion of the entire checking process or as each component of check is completed. Any discrepancies that arise should be resolved between the designer/detailer and the checker, and the calculations and plan details should be corrected accordingly. If the designer/detailer and the checker are unable to resolve their discrepancies, the issue should be brought to the attention of the supervisor or team leader.

The Design Checker shall review the calculations, document for correctness and completeness, and verify that the design is properly reflected in the plans and details.

- Items needing correction are marked in red.
- Correct items are highlighted in yellow.
- Correct full paragraphs (or pages) marked with a yellow diagonal or check mark
- For software calculations, the design checker may prepare an independent model or conform the correctness of the input/out using the designers software file.

When the checker is complete, all calculations and details should be highlighted and sent back to the designer. Any discrepancies are to be resolved prior to completion of the calculation package and noted.

Upon completion of the submittal by the Designer and Design Checker, the Reviewer shall review the calculation documents along with the details used to develop the calculations. The Reviewer is responsible for checking the plans for completeness and accuracy prior to a submittal. The Reviewer shall document their review.

- Agreement shown with a blue check mark
- Disagreement are discussed are shown in red.
- The review is sent back to the Designer. Any disagreements are to be resolved prior to completion of the submittal.

All reviews and comments shall be recorded and documented by the EOR.

4.3 Quality Assurance Process (QA)

QA is defined as the procedures of reviewing the work to ensure the quality control procedures

are in place and effective in preventing mistakes, and consistency in the development of bridge design plans and specifications. Prior to submitting the plans to the Quality Manager (QM), the Reviewer is responsible for ensuring that the QC process is complete and that the design calculations, drawings, special revisions, and cost estimates are in accordance with LADOTD Bridge Design practices, policies and procedures.

The Reviewer shall verify the constructability of the plans and that critical structural areas are accurate and designed properly. The Reviewer provides the designer with any concerns or deficiencies observed in the design and plans. These issues are resolved prior to formal submittal to the DQM.

Upon completion of the QA process, the plans are submitted to the QM in accordance with the overarching Comite project CMAR QA/QC Plan.

5. CERTIFICATIONS

5.1 Certifications and Forms

The Design Team shall create pertinent QC/QA forms for this project and shall require that the QC/QA process is followed, and the forms are signed by the responsible parties. Huval shall document and file these forms for each deliverable where required.

5.2 Sealing of Plans

The Engineer of Record (EOR) is the Louisiana-licensed professional engineer who is assigned by the Design Unit Leader to seal the calculation, plans, and special provisions.

APPENDIX

- Design Criteria Checklist
- Final Calculation Book Checklist
- QA Information Package Checklist
- QC/QA Certification
- Consultant Submittal QC/QA Certification
- Quality Audit Checklist
- Sample Check Print Stamps

Design Criteria Checklist

Design criteria for each project shall include, but not be 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 Expectations**

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
- Hydraulic design information (design water elevations, scour depth and scour elevation, etc.)
- Other relevant information

__ **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**
The design criteria, types, and test levels for bridge barriers shall be listed in this section. Standard plans and special details should be listed if they are utilized.

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

__ **Approach Slab**
Design criteria for approach slab shall be included in this section. Standard plans and special details 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 and special details 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 and special details 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 and special details 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 and special details 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 and special details 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 and special details should be listed if they are utilized.

__ **Geotechnical Design**
All geotechnical design shall be included in this section. Standard plans and special details should be listed if they are utilized.

__ **Mechanical Design**
All mechanical design criteria shall be included in this section if applicable. Standard plans and special details should be listed if utilized.

__ **Electrical Design**
All electrical design criteria shall be included in this section if applicable. Standard plans and special details should be listed if they are utilized.

__ **As-Designed Bridge Rating Criteria**
All as-designed bridge rating criteria shall be included in this section.

Final Calculation Book Checklist

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

__ **Cover Sheet**

The following information must be included on the cover sheet:

- LADOTD project number
- Project name
- The title of "Final Calculation Book"
- The EOR's seal with signature and date

__ **Final Calculation Book Check List**

__ **QC/QA Certifications**

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

__ **Design Criteria**

__ **Final Hydraulic Analysis Report from Hydraulic Engineer**

__ **Final Geotechnical Analysis Report from Geotechnical Engineer**

__ **Superstructure Design Calculations**

__ **Substructure Design Calculations**

__ **Quantity Calculations**

__ **Special Provisions/NS-Items**

__ **Construction Cost Estimate**

__ **As-Designed Rating Report**

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

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

__ **A PDF File of the Calculation Book**

__ **All Electronic Design Files**

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

QA Information Package Checklist

Project No.: TBD
Project Description: TBD

_____ Calculation Book

_____ Plans

_____ Special Provisions

_____ Cost Estimate

_____ Other Documents _____

QC/QA Certification

Project No.: TBD
Project Description: TBD
We, the undersigned designers, detailers, checkers and reviewers for this project, have reviewed and accepted the calculations, plans, quantities, special provisions, and cost estimate prepared for the project. We certify that the work for which we are responsible has been completed in accordance with the LADOTD Bridge Design Section policy on QC/QA.

Team Members	Name	PE Registration No.	Responsible Plan Sheets	Responsible Special Provisions	Construction Cost Estimate	Signature
Designers						
Design Checkers						
Detailers						
Detail Checkers						
Reviewers						
EOR						

Consultant Submittal QC/QA Certification

Project No.: TBD
Project Description: TBD

I, the undersigned Supervisor or Team Leader for this project, certify that the information included in this submittal has been prepared in accordance with the QC/QA plan documents and LADOTD Bridge Design Section policy on QC/QA and the information presented is accurate and meets the requirements of this submittal. All CAD drawings meet LADOTD CAD standards.

_____
Submittal Description

_____	_____	_____
Supervisor or Team Leader Name	Signature	Date

QUALITY AUDIT CHECKLIST

AUDITED AREA:	DATE(S) OF AUDIT:
AUDITOR:	AUDIT:

AUDIT ITEM	REFERENCE	METHOD OF VERIFICATION	CONFORMS	
			YES	NO
1. Have computer programs utilized been validated?	QMP Group D	Review validation records.		
2. Are calculation check prints available?	QMP Group B	Review originals and check prints		
3. Were calculations checked prior to drawing checking?	QA Folder, QMP Log	Review check prints.		
4. Are drawing check prints available?	QMP Group E	Review record set and check prints.		
5. Are check prints of specifications available?	QMP Group A	Review record set and check prints.		
6. Is checking of input to computer programs being accomplished?	QMP Group B	Review originals and check prints		
7. Are check prints of studies or report-type documents available?	QMP Group A	Review check prints.		

8. Are procedures for marking up check prints being followed? Checker - Yellow/Red Backchecker - Green Updater - Blue Verifier - Yellow	QA Folder	Review check prints.		
10. Are check prints properly signed and dated?	QA Folder	Review check prints.		
11. Are plan reviews completed?	QMP Log	Review package to verify that comment sheets are available.		
12. Are the review comments incorporated into the final documents or disposed of as otherwise noted?	QA Folder	Review for verification that Design Reviews comments have been incorporated. Review for verification that comments from prior Design Reviews have been incorporated.		
13. Are check prints of graphic elements available?	QMP Group C	Review check prints.		
14. Are all checklists validated?	QMP Group D	Review check prints.		

SAMPLE CHECK PRINT STAMPS

CHECKING PRINT

Checked by_____ Date_____

Back Checked by_____ Date_____

Corrected by_____ Date_____

Tracing Signed by_____ Date_____

AUXILIARY

CHECKING PRINT NO.____

Checked by_____ Date_____

Back Checked by_____ Date_____

Corrected by_____ Date_____

Tracing Signed by_____ Date_____

Designers (designer will be someone from this list depending on specific bridge project and needs) (Design checker will be a PE if the Designer is an EI and will not be one of the designers for the subject bridge)	**Design Checkers** (design checker will be someone from this list depending on specific bridge project and needs) (Design checker will be a PE if the Designer is an EI. The design checker will not be one of the designers for the subject bridge)	**Detailers**	**Detail Checkers** (detail checker will be a designer or a detailer, but shall not be the person who designed or detailed the drawings being checked)	**Reviewers**	**Team Leaders**
Justin Peltier, PE	Colby Guidry, PE	Keri Cart	Colby Guidry, PE	Colby Guidry, PE	Colby Guidry, PE
Matthew Hebert, PE	Justin Peltier, PE	Jamie Cart	Justin Peltier, PE	Thomas Gattle, PE	Thomas Gattle, PE
Reid Romero, PE	Matthew Hebert, PE	Lori Fuselier	Matthew Hebert, PE	Glenn McCall, PE	Glenn McCall, PE
Rudy McClellan, PE	Reid Romero, PE	Jonathon Sundberg	Reid Romero, PE	Rudy McClellan, PE	Justin Peltier, PE
Robert Dugas, PE	Rudy McClellan, PE	Joey Landry	Rudy McClellan, PE	Robert Dugas, PE	Matthew Hebert, PE
Robert Schmidt, PE	Robert Dugas, PE	Brandi Grace	Robert Dugas, PE	Patrick Wilson, PE	Reid Romero, PE
Patrick Wilson, PE	Robert Schmidt, PE	Matt Hebert, PE	Robert Schmidt, PE	Justin Peltier, PE	Robert Schmidt, PE
Katherine Werther, PE	Patrick Wilson, PE	Colby Guidry, PE	Patrick Wilson, PE	Matthew Hebert, PE	
Nicholas Helminger, PE	Katherine Werther, PE	Justin Peltier, PE	Katherine Werther, PE	Reid Romero, PE	
Michelle Helminger, PE	Nicholas Helminger, PE	Nicholas Helminger, PE	Nicholas Helminger, PE	Robert Schmidt, PE	
Glenn McCall, PE	Michelle Helminger, PE	Megan Foret, PE	Michelle Helminger, PE		
Lee Hupperich, PE	Glenn McCall, PE	Devin Fuselier, EI	Glenn McCall, PE		
Ross Prejean, PE	Lee Hupperich, PE		Lee Hupperich, PE		
Tracy Sonnier, PE	Ross Prejean, PE		Ross Prejean, PE		
Andrew Juneau, PE	Tracy Sonnier, PE		Tracy Sonnier, PE		
Cheyenne Stelly, PE	Andrew Juneau, PE		Andrew Juneau, PE		
Megan Foret, PE	Cheyenne Stelly, PE		Megan Foret, PE		
Brian Rando, PE	Megan Foret, PE		Brian Rando, PE		
Devin Fuselier, EI	Brian Rando, PE		Devin Fuselier, EI		
Alex Spikes, EI	Devin Fuselier, EI		Alex Spikes, EI		
Patricia East, EI	Alex Spikes, EI		Patricia East, EI		
Paige Adams, EI	Patricia East, EI		Paige Adams, EI		
Raymond Provost, EI	Paige Adams, EI		Keri Cart		
	Raymond Provost, EI		Jamie Cart		
			Lori Fuselier		
			Jonathon Sundberg		
			Joey Landry		
			Brandi Grace		

22. Sub-consultant information:

Firm Name (as registered with Louisiana's Secretary of State)	Address	Point of Contact and email address	Phone Number
Lazenby & Associates, Inc.	2000 N. Seventh Street West Monroe, LA 71291	Paul D. Fryer, P.E., P.L.S. pfryer@lazenbyengr.com	(318) 387-2710
Civil Design & Construction, Inc. DBE Firm	3251 Southern Pacific Road Port Allen, LA 70767	Karla E. Weston, PE kweston@cdcbr.com	(225) 765-1802
Huval & Associates, Inc.	922 West Pont Des Mouton Rd Lafayette, LA, 70507	Colby Guidry, P.E. cguidry@huvalassoc.com	(337) 234-3798
GeoEngineers, Inc.	11955 Lakeland Park Blvd Suite 100 Baton Rouge, LA 70809	Larry Sant, PE Lsant@geoengineers.com	(225) 663-1522
Vectura Consulting Services, LLC DBE Firm	4467 Bluebonnet Blvd., Suite A, Baton Rouge, LA 70809-9639	Sheelagh Brin Ferlito, PE bferlito@vecturacs.com	(225) 223-6685

23. Location:

If location is an evaluation criterion for this advertisement and the prime consultant intends to establish a local presence, describe the plan for doing so. **Otherwise, leave this section blank.**