Stanley Consultants INC.

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I-69 FRONTAGE ROAD CONNECTOR

H.005184: Stonewall Frierson to Ellerbe Road
H.014054: Ellerbe Rd. to LA 1
H.014056: Stonewall Frierson

Contract Number: 4400027735

October 3, 2023

Stanley Consultants INC.

721 Government Street
Suite 302
Baton Rouge, LA 70802

P: 225.387.2422
F: 225.387.2423
stanleyconsultants.com

Cover Letter

Louisiana Department of Transportation and Development
1201 Capitol Access Road
Baton Rouge, LA, 70802

RE: Contract No-4400027735 – I-69 Frontage Road Connector

Dear Members of the Selection Committee:

The Louisiana Department of Transportation and Development (DOTD) is looking for a consultant to provide complete design services for Contract No. 4400027735. Stanley Consultants has teamed with Crescent Engineering & Mapping, LLC, Lazenby & Associates, Inc., APS Engineering and Testing, LLC, Terracon Consultants, Inc., and Vectura Consulting Services, LLC to provide a comprehensive, experienced Team that is immediately available to provide design services for this important DOTD contract. Our key team members consisting of Blake Roussel, Principal-In-Charge/Deputy Project Manager (DPM), Jesse Tisdale, Contract Manager/DPM, Adam Fields, DPM, and Ed Wedge, Client Services Manager can attest to how important this contract is to our team. We are confident in providing the Louisiana DOTD with:

A Passionate Focus on project delivery. Our focus on project delivery and our passion for our clients, projects, and stakeholders set Stanley Consultants apart! This project is critical to numerous stakeholders in Northwest Louisiana and throughout the state. The Port of Caddo-Bossier is quickly expanding. The Port has a vision of providing a safer and more economical transportation route to its facilities and is passionate about executing this vision. Our team can match that passion! Numerous Parishes in the region also stand to reap economic benefits from this project with Desoto, Caddo, and Bossier all providing funding. We are firm believers that it is our responsibility to improve the safety of the traveling public while meeting the needs of our clients and stakeholders and we look for every opportunity to make their goals our own. With our own internal Project Management Program (PMP), we track and monitor all of our projects to ensure both their timely delivery and to confirm that we are fulfilling the goals and needs of each project safely and efficiently.

An Experienced Team Who Delivers Successful DOTD Projects. Our Team has successfully teamed on projects in Louisiana in the past. We have clear lines of communication established coupled with strong relationships. This team is prepared to work together to fulfill any needs that may arise from this contract.

Flexible Workloads & Available Resources. Stanley Consultants is the prime consultant for only two active DOTD projects in design at this time. All other DOTD projects are in the construction support phase or are on hold. Our Team is deep and well versed in roadway design. We can immediately begin working with the DOTD PM on scoping and have the availability to quickly move into the Data Collection phase.

I:69: Project Visualization

Approach & Methodology. The Stanley Consultants Team has put together an Approach and Methodology (Section 18) that proves we have done our homework. We illustrate an understanding of the intricacies of the project and the preferred project delivery schedule. We also have a complete understanding of the typical DOTD Plan Delivery Process proving that we can deliver as per DOTD's required design and plan delivery workflow.

OUR RELIABLE & EFFICIENT TEAM

- **STANLEY CONSULTANTS, INC.** — Prime Consultant
- **CRESCENT ENGINEERING & MAPPING, LLC** — Road, Survey, Bridge
- **LAZENBY & ASSOCIATES, INC.** — Road, Survey
- **APS ENGINEERING AND TESTING, LLC** — Geotech
- **TERRACON CONSULTANTS, INC.** — Geotech
- **VECTURA CONSULTING SERVICES, LLC** — Traffic

Thank you for the opportunity to partner with DOTD and other important stakeholders to deliver this critical project. It will benefit the traveling public throughout Louisiana. If you have any questions, please contact Blake, our main point of contact during the project proposal phase. His contact information is (225) 936-1604 (cell), and email: RousselBlake@stanleygroup.com.

Sincerely,

Stanley Consultants, Inc.

Jesse Tisdale, PE
Contract Manager
(O): 225-388-4220

Blake Roussel, PE, PMP
Principal-in-Charge
(O): 225-388-4211

Sections 1-13

I-12 Widening Over Tchefuncte River (Large Scale Roadway Design - Urban Freeway - Team Firm Experience)

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)	Stanley Consultants, 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 000762
6. Prime consultant mailing address	721 Government Street, Suite 302; Baton Rouge, LA 70802
7. Prime consultant physical address (existing or to be established, if location is used as an evaluation criteria)	721 Government Street, Suite 302; Baton Rouge, LA 70802
8. Name, title, phone number, and email address of prime consultant's contract point of contact	Blake Roussel, PE, PMP - Principal- in-Charge (T): 255-388-4211 Rousselblake@stanleygroup.com
9. Name, title, phone number, and email address of the official with signing authority for this proposal	Blake Roussel, PE, PMP – Principal-in-Charge (T): 255-388-4211 Rousselblake@stanleygroup.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.	Blake S. Roussel 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)' %:
	APS Engineering and Testing, LLC	4.5%
	Vectura Consulting Services, LLC	1%

12. Past Performance Evaluation Discipline Table

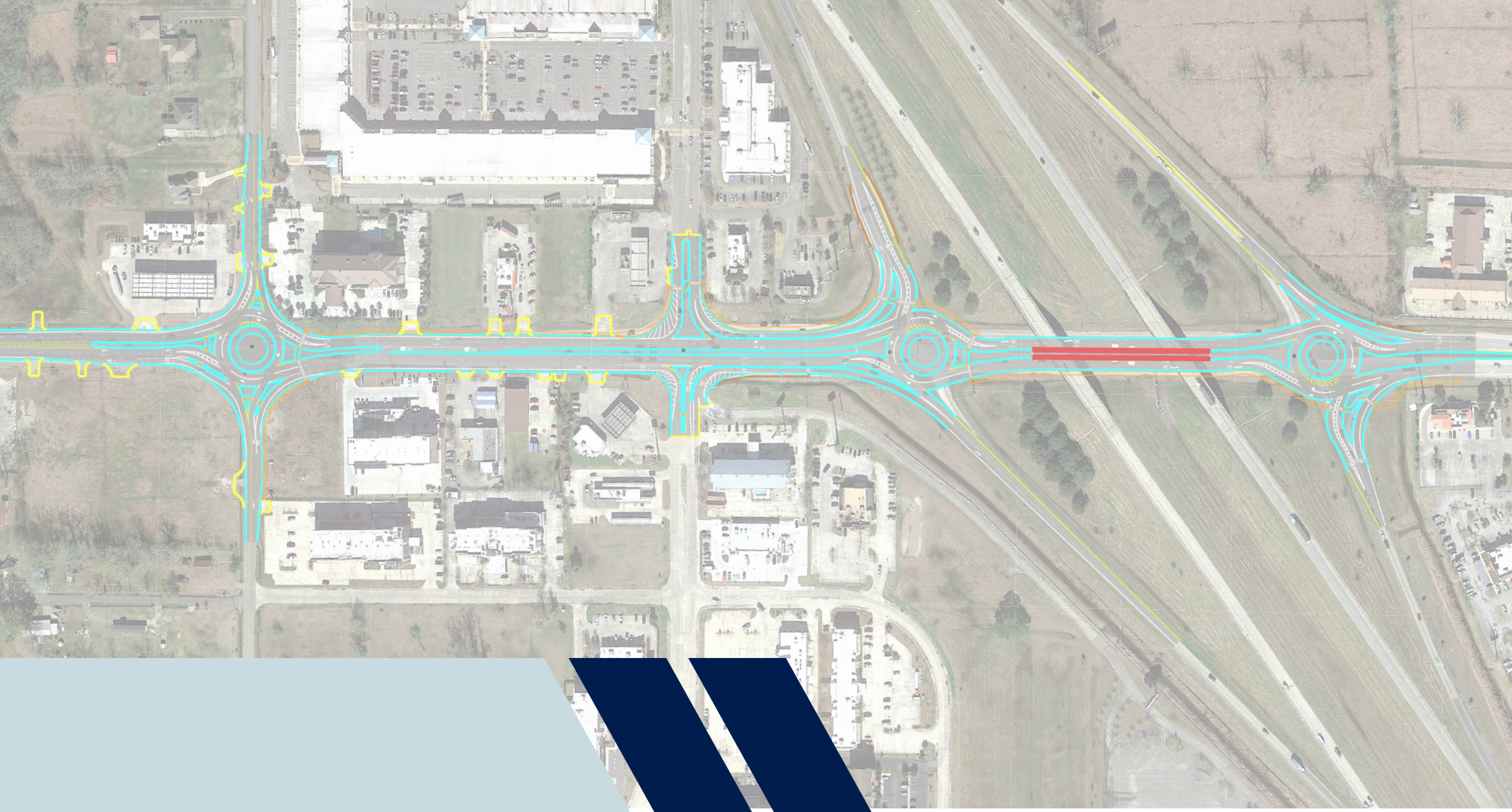
Past Performance Evaluation Discipline(s)	% of Overall Contract	Stanley Consultants (Prime)	Crescent Engineering & Mapping, LLC	Lazenby & Associates, Inc.	APS Engineering and Testing, LLC	Terracon Consultants, Inc.	Vectura Consulting Services, LLC	Each Discipline must total to 100%
Road	55%	75%	15%	10%	--	--	--	**100%**
Survey	20%	--	49%	51%	--	--	--	**100%**
Bridge	15%	44%	56%	--	--	--	--	**100%**
Geotech	9%	--	--	--	50%	50%	--	**100%**
Traffic	1%	--	--	--	--	--	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%**	48%	26%	16%	4.5%	4.5%	1%	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)
Stanley Consultants, Inc.	Principal	1	2
Stanley Consultants, Inc.	Supervisor – Eng	4	6
Stanley Consultants, Inc.	Engineer	7	15
Stanley Consultants, Inc.	Engineer Intern	3	6
Stanley Consultants, Inc.	Senior Technician	0	2
Stanley Consultants, Inc.	CADD Technician	1	3
Stanley Consultants, Inc.	Administrative	1	2
Crescent Engineering & Mapping, LLC	Supervisor – Eng	1	1
Crescent Engineering & Mapping, LLC	Engineer	2	3
Crescent Engineering & Mapping, LLC	Senior Technician	3	2
Crescent Engineering & Mapping, LLC	Technician	1	1
Crescent Engineering & Mapping, LLC	Surveyor	1	1
Crescent Engineering & Mapping, LLC	Party Chief	1	1
Crescent Engineering & Mapping, LLC	Senior Technician	3	2
Lazenby & Associates, Inc.	Accountant	0	1
Lazenby & Associates, Inc.	CADD Drafter	1	2
Lazenby & Associates, Inc.	CADD Technician	2	3

Firm Name	DOTD Job Classification	Number of Personnel Committed to this Contract	Total Number of Personnel Available in this DOTD Job Classification (if needed)
Lazenby & Associates, Inc.	Clerical	0	2
Lazenby & Associates, Inc.	Engineer	3	6
Lazenby & Associates, Inc.	Engineer Intern	2	2
Lazenby & Associates, Inc.	Inspector	0	2
Lazenby & Associates, Inc.	Inspector – Certified	0	2
Lazenby & Associates, Inc.	Instrument Man	2	2
Lazenby & Associates, Inc.	Party Chief	2	2
Lazenby & Associates, Inc.	Principal	1	1
Lazenby & Associates, Inc.	Rodman	2	3
Lazenby & Associates, Inc.	Supervisor – Eng	2	3
Lazenby & Associates, Inc.	Surveyor	1	1
Lazenby & Associates, Inc.	Technician	0	1
APS Engineering and Testing, LLC	Engineer	3	3
APS Engineering and Testing, LLC	CADD Technician	3	3
APS Engineering and Testing, LLC	Driller	6	6
APS Engineering and Testing, LLC	Technician	10	10
APS Engineering and Testing, LLC	Clerical	2	2
Terracon Consultants, Inc.	Principal	1	1

Firm Name	DOTD Job Classification	Number of Personnel Committed to this Contract	Total Number of Personnel Available in this DOTD Job Classification (if needed)
Terracon Consultants, Inc.	Supervisor – Eng	2	4
Terracon Consultants, Inc.	Engineer	1	4
Terracon Consultants, Inc.	Engineer Intern	1	2
Terracon Consultants, Inc.	Supervisor – Other	2	3
Terracon Consultants, Inc.	Technician	3	8
Vectura Consulting Services, LLC	Supervisor – Eng	2	2
Vectura Consulting Services, LLC	Engineer	4	4
Vectura Consulting Services, LLC	Engineer Intern	1	1
Vectura Consulting Services, LLC	Inspector	2	2



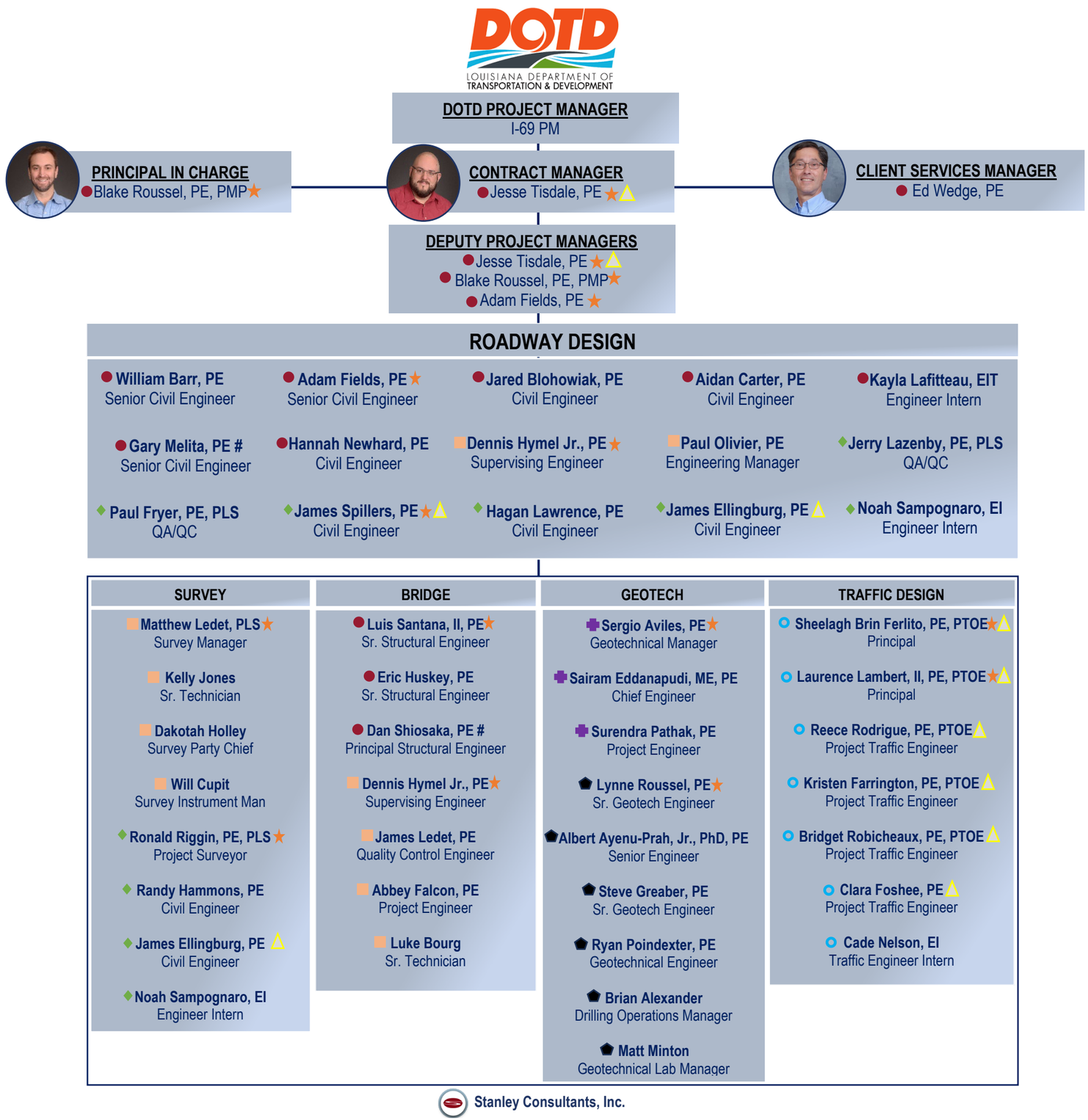
Sections 14-16

LA 30 Roundabouts
(Large Scale Roadway Design - Team Firm Experience)

14. Organizational Chart

The Stanley Consultants team was carefully assembled to assure compliance with DOTD required MPRs. Our Principal-in-Charge, Blake Roussel, PE, PMP meets MPRs 1, 2, and 6. Our PM Jesse Tisdale, PE meets MPRs 2 and 3. Our Road Design Lead, Adam Fields, PE meets MPRs 3 and 6. Stanley's Bridge Design Lead, Luis Santana II, PE meets MPRs 4 and 5, along with Dennis Hymel, Jr. PE from Crescent Engineering & Mapping.

Other subconsultants meeting the MPR guidelines are Dennis Hymel Jr., PE from Crescent and James Spillers, PE from Lazenby meeting MPR 6; Sergio Aviles, PE from APS and Lynne Roussel, PE from Terracon meeting MPR 7; Sheelagh Brin Ferlito, PE, PTOE, and Laurence Lambert, PE, PTOE from Vectura meeting MPR 8; and Matthew Ledet, PLS from Crescent and Ronald Riggin, PE, PLS from Lazenby meeting MPR 9.



LEGEND:
- Stanley Consultants, Inc.
- Crescent Engineering & Mapping, LLC
- Lazenby & Associates, Inc.
- APS Engineering and Testing, LLC
- Terracon Consultants, Inc.
- Vectura Consulting Services, LLC
- Meets MPR Criteria
- Meets Traffic Engineering Process & Report Training Requirements
- # PE Licensee in Arizona

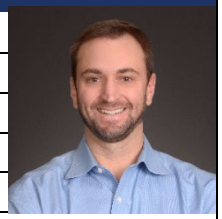
15. Minimum Personnel Requirements

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	Blake Roussel, PE, PMP	Stanley Consultants, Inc.	PE #33279 – Civil Eng PMP #2018301	LA USA	Sep 30, 2025 Mar 23, 2026
2	Blake Roussel, PE, PMP Jesse Tisdale, PE	Stanley Consultants, Inc. Stanley Consultants, Inc.	PE #33279 – Civil Eng PE #40972 – Civil Eng	LA LA	Sep 30, 2025 Mar 31, 2025
3	Jesse Tisdale, PE Adam Fields, PE	Stanley Consultants, Inc. Stanley Consultants, Inc.	PE #40972 – Civil Eng PE #35614 – Civil Eng	LA LA	Mar 31, 2025 Sep 30, 2024
4	Luis Santana, II, PE Dennis Hymel Jr., PE	Stanley Consultants, Inc. Crescent Engineering & Mapping, LLC	PE #42265 – Civil Eng PE #38172 – Civil Eng	LA LA	Mar 31, 2024 Sep 30, 2025
5	Dennis Hymel Jr., PE Luis Santana, II, PE	Crescent Engineering & Mapping, LLC Stanley Consultants, Inc	PE #38172 – Civil Eng PE #42265 – Civil Eng	LA LA	Sep 30, 2025 Mar 31, 2024
6	Blake Roussel, PE, PMP Adam Fields, PE Dennis Hymel Jr., PE James Spillers, PE	Stanley Consultants, Inc. Stanley Consultants, Inc. Crescent Engineering & Mapping, LLC Lazenby & Associates, Inc.	PE #33279 – Civil Eng PE #35614 – Civil Eng PE #38172 – Civil Eng PE #28574 – Civil Eng	LA LA LA LA	Sep 30, 2025 Sep 30, 2024 Sep 30, 2025 Sep 30, 2025
7	Sergio Aviles, PE Lynne Roussel, PE	APS Engineering and Testing, LLC Terracon Consultants, Inc.	PE #33571 – Civil Eng PE #35152 – Civil Eng	LA LA	Mar 31, 2024 Mar 31, 2024
8	Sheelagh Brin Ferlito, PE, PTOE Laurence Lambert, PE, PTOE, PTP	Vectura Consulting Services, LLC Vectura Consulting Services, LLC	PE #25383 – Civil Eng PE #29901 – Civil Eng	LA LA	Sep 30, 2025 Mar 31, 2024
9	Matthew Ledet, PLS Ronald Riggin, PE, PLS	Crescent Engineering & Mapping, LLC Lazenby & Associates, Inc.	PLS #5104 PLS #5119	LA LA	Sep 30, 2024 Mar 31, 2025

(Add rows as needed)

16. Staff Experience

Firm Employed By: Stanley Consultants, Inc.			
Name:	Blake Roussel, PE, PMP	**Years of relevant experience with this employer:**	16
Title:	Senior Transportation Engineer	**Years of relevant experience with other employer(s):**	5
Degree(s) / Years / Specialization:		BS / 2003 / Civil Engineering	
Active Registration Number / State / Expiration Date:		PE #33279 / LA / 9/30/2025; PMP #2018301 / USA / 3/23/2026	
Year Registered:	2007	**Discipline:**	Civil Engineering / Project Management Professional



Over his two-decade career in Louisiana, he has designed or managed 20+ projects for DOTD.

Meets MPRs No. 1, 2, 6

Contract Role(s) / Brief Description of Responsibilities:

CONTRACT ROLE: Principal-in-Charge / Deputy Project Manager

RESPONSIBILITIES: In addition to serving as a Deputy Project Manager leading the project delivery requirements internal to Stanley Consultants for one of the three projects, Blake will also be responsible for project resourcing and ensuring that this contract is receiving adequate staffing levels to maintain project schedules.

PROFESSIONAL PROFILE: Blake specializes in managing design teams for the development of transportation infrastructure projects. **Over his two-decade career in Louisiana, he has designed or managed 20+ projects for DOTD.** His professional experience encompasses project management and construction plan preparation for complete streets, road design, and highway projects, in accordance with DOTD plan preparation guidelines. Prior to joining Stanley Consultants, Blake gained valuable transportation experience employed by DOTD.

Blake is a certified Project Management Professional (PMP), which is recognized across the world as the gold standard in project management. This rigorous study and certification process prepared him to lead teams effectively and efficiently. Blake's design experience includes geometrics, earthwork, drainage, utilities relocation, traffic control, quantities computations, cost estimating, preparation of final contract documents, development of three-dimensional roadway models, and roadway designs using MicroStation and ORD.

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).
06/15 – Present	**H.011781 LA 675 & LA 87 Improvements, DOTD, Iberia Parish, LA:** PM responsible for the overall supervision of engineers performing the survey, road design and plan preparation; coordination with the owner; reviewing the plans; checking compliance with the design criteria; and completing all required forms and documents in support of the plan package. Design tools used for this project included MicroStation, Excel, and HYDRWIN.
01/23 – Present	**H.015052 I-20: Widening/Ovrly (Vancil Rd-LA 34):** Project Principal responsible for ensuring the project is receiving adequate resources to maintain project schedules and ensuring proper QA/QC procedures are being followed.

Firm Employed By: Stanley Consultants, Inc.	
11/18 – 04/22	**H.011137 I-12 LA 21 to US 190, DOTD, St. Tammany Parish, LA:** Project Principal responsible for assisting and overseeing portions of the horizontal and vertical alignment design, drainage design, and sequence of construction with minimum temporary traffic control layout and striping according to DOTD specifications, standards and design criteria. Additional responsibilities include standard PM duties including coordination, QC of plans and design, project coordination, and scheduling.
06/18 – 01/21	**H.012964 US 61: Bluebonnet Blvd to S. End US 190, DOTD, East Baton Rouge Parish, LA:** PM responsible for the overall supervision of engineers performing the survey, road design and plan preparation; coordination with the owner; reviewing the plans; checking compliance with the design criteria; and completing all required forms and documents in support of the plan package. Design tools used for this project included MicroStation.
10/18 – 03/20	**H.012304.5 LCG Road Overlay Program, DOTD, Lafayette Parish, LA:** PM responsible for field surveying and capturing topographic features and measuring CL stationing. Duties also include plan development, determining quantities and pay items according to DOTD specifications, standards and design criteria. Design tools used for this project included MicroStation with CadConform, Bentley InRoads and Microsoft Excel.
10/18 – 12/19	**H.012861 Prejean Road, DOTD, Lafayette Parish, LA:** PM responsible for field surveying and capturing topographic features and measuring CL stationing. Duties also include plan development, determining quantities and pay items according to DOTD specifications, standards and design criteria. Design tools used for this project included MicroStation with CadConform, Bentley InRoads and Microsoft Excel.
03/17 – 08/19	**H.009633 LA 67: EBR P/L to 8 Miles North of EB, DOTD, East Feliciana Parish, LA:** PM responsible for the overall supervision of engineers performing the survey, road design and plan preparation; coordination with the owner; reviewing the plans; checking compliance with the design criteria; and completing all required forms and documents in support of the plan package. Design tools used for this project included MicroStation.
06/13 – 04/19	**Village De L'est Neighborhood, City of New Orleans, New Orleans, LA:** PM responsible for the roadway scoping, pavement rehabilitation design, plan preparation, construction administration, and construction resident inspection for urban local roadways. The scoping phase includes a Project Scope Report based on the results of pavement damage inspection review and assessment and its applicable rehabilitation recommendations. The scoping report includes scoping plans, pavement rehabilitation quantities, pavement damage inspection photos, as well as a written scoping report. Preliminary plan scope of work includes Milling and Asphaltic Concrete (AC) Overlay, AC patching, Portland Cement Concrete Patching, Composite Pavement Patching, driveway repairs, sidewalk repairs, waterline repairs, utility adjustments, and sanitary sewer repairs.
10/16 – 09/18	**H.009508 LA 2: Caney Creek Bridge to Webster P/L - Pavement Preservation Program, DOTD, Bossier Parish, LA:** PM responsible for the overall supervision of engineers performing the survey, road design and plan preparation; coordination with the owner; reviewing the plans; checking compliance with the design criteria; and completing all required forms and documents in support of the plan package. Design tools used for this project included MicroStation.
01/17 – 06/18	**Bootlegger Road Mill and Overlay and Bootlegger Road Bridge Design, St. Tammany Parish Government, St. Tammany Parish, LA:** Project Principal responsible for the right of way mapping, soil analysis, traffic data inventory, feasibility study, conceptual engineering design, opinion of construction cost, preliminary wetland assessment, and Corps of Engineers (USACE) jurisdictional determination for the mill & overlay and bridge design along a 3-mile segment of Bootlegger Road located in Covington.

Firm Employed By: Stanley Consultants, Inc.			
Name:	Jesse Tisdale, PE	**Years of relevant experience with this employer:**	5
Title:	Senior Transportation Engineer	**Years of relevant experience with other employer(s):**	6
Degree(s) / Years / Specialization:		BS / 2013 / Civil Engineering	
Active Registration Number / State / Expiration Date:		PE #40972 / LA / 3/31/2025	
Year Registered:	2016	**Discipline**:	Civil Engineering

Contract Role(s) / Brief Description of Responsibilities:

CONTRACT ROLE: Contract Manager / Deputy Project Manager

RESPONSIBILITIES: In addition to serving as the Contract Manager and single point of contact to DOTD PM for the contract during the project execution phase, Jesse will also serve as a Deputy Project Manager leading the project delivery requirements internal to Stanley Consultants for one of the three projects.

PROFESSIONAL PROFILE: Jesse has been responsible for the design and/or project management of roadway projects such as: roadway reconstruction, intersection safety projects, turn lane additions, corridor safety projects, and roundabout projects throughout Louisiana. He has completed 14 projects for DOTD. Jesse is proficient in both design and management and is capable of fulfilling both roles simultaneously as projects warrant. His design expertise is with roadway/highway design, drainage, environmental permitting, construction sequencing, earthworks and estimating.

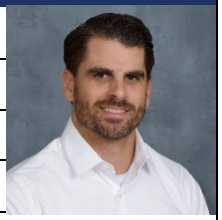
Jesse will use his years of DOTD experience to provide a straightforward and practical design for this project. Jesse has completed the DOTD TEPR training course.

Meets MPRs No. 2 & 3

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).
01/23 – Present	**H.015052 I-20: Widening/Ovrly (Vancil Rd-LA 34):** Project Manager responsible for adherence to scope of work, budget, and schedule requirements. Additional responsibilities include QC/QA and subconsultant coordination.
02/21 – 03/23	**Lee Drive Widening; East Baton Rouge Parish, LA; MOVEBR:** Serving as Stanley Consultants' PM and Lead Designer. Stanley Consultants is a sub-consultant on this project responsible for all road design between Highland Road and the Bayou Duplantier Bridge. Jesse is responsible for the oversight of all roadway design for the portion the project that has been assigned to Stanley Consultants. This project involves developing the limited Lee Drive corridor into a widened footprint with a divided roadway, bike lanes, and pedestrian facilities.
12/17 – 03/23	**I-12: 1077 to LA 21; St. Tammany Parish, LA; DOTD:** Serving as PM, Jesse was responsible for all project/design oversight. This included horizontal and vertical alignment, drainage design, sequence of construction, 3D modeling, signing, and striping. Additional responsibilities included coordination, quality control reviews, project coordination with sub-consultants, and scheduling.
11/18 – 11/22	**H.010960 LA 30 Roundabouts at Tanger & I-10, Ascension Parish, LA; DOTD:** PM/Lead Design Engineer responsible for providing oversight for all necessary engineering and related services required for the design of four multi-lane roundabouts along LA 30 at the heavily traversed commercial

Firm Employed By: Stanley Consultants, Inc.	
	interchange at I-10 in Gonzales, LA. Mr. Tisdale also provided QA of typical sections, pedestrian and bicycle design, roadway geometrics, roundabout geometrics, drainage design, and driveway details for this project.
04/17 – 11/22	**H.011909 US 171 at Boone St. Roundabout, Vernon Parish, LA; DOTD:** Serving as PM, Jesse was responsible for assisting design of a three-legged multi-lane roundabout and multiple intersection improvements along US 171. Tasks also include, budgeting, project cost estimation, utility coordination, and QA for the design and construction plans. This project involves engineering and related services to develop construction plans for a multi-lane (Hybrid) roundabout at the intersection of US 171 and Boone Street to allow for improvements to safety and efficiency, while utilizing best access management practices along the corridor.
9/19 – 03/23	**Stone Road to Powell Drive Extension, St. Tammany Parish, LA:** PM for engineering design services for a new greenfield connector roadway between Ben Thomas Road and Powell Drive as well as widening and drainage improvements to an existing section of Powell Drive. The purpose of this project is to accommodate industrial traffic accessing and egressing Interstate 12 to the north by providing improved system linkage with a new north-south connector roadway and improving an existing roadway within the project limits.
09/16 – 05/21	**I-12: LA 21 to US 190 & I-12, St. Tammany Parish, LA; DOTD:** Serving as PM, Jesse was responsible for assisting and overseeing the horizontal and vertical alignment design, drainage design, and sequence of construction with minimum temporary traffic control layout and striping according to DOTD specifications, standards and design criteria. His additional responsibilities include standard PM duties including coordination, QC of plans and design, project coordination and scheduling. Design tools used for this project included MicroStation, InRoads, CADConform, Bentley InRoads, DOTD HydrWIN and Microsoft Project.
01/23 – Present	**LA 447 Roundabouts, DOTD, Livingston Parish, LA:** Working as a subconsultant, Jesse served as the Stanley Consultants project manager responsible for overall project oversight, adherence to scope of work, budget, and schedule requirements, as well as QC/QA activities.
4/16 – 01/18	**Dijon Drive Extension Phase I & II, Confidential Client, East Baton Rouge Parish, LA:** PM/Lead Designer responsible for a proposed four-lane divided highway project between Essen Lane and Bluebonnet Boulevard. Project management responsibilities included budget coordination with local, city, and state agencies, design and construction scheduling coordination to prevent conflict from major construction in the surrounding areas, coordination with several private entities and other public departments working on designing or constructing projects in the vicinity of the roadway, and coordinating subsurface drainage to combine roadway drainage and drainage from private properties adjacent to the new roadway. Design responsibilities included the geometric roadway design, roadway modeling, and overseeing drainage design. This was a greenfield project along new alignment.
04/15 – 12/17	**Harveston Way, Private Client, East Baton Rouge Parish, LA:** Lead Designer responsible for the design of new four lane divided asphalt roadway, a single lane roundabout, a shared use path, sidewalks facilities, and all associated roadway drainage. Mr. Tisdale was responsible for developing the plans and coordinating with ongoing development adjacent to the planned roadway. This was a greenfield project along new alignment.
10/13 – 04/15	**US 11 @ Cleo Road Roundabout, DOTD, St. Tammany Parish, LA:** Lead Designer responsible for the design and plan development of a single lane roundabout at US 11 and Cleo Rd. This roundabout design included special design details for the WB-67 design vehicle due to two distribution warehouses located on Cleo Rd. This project additionally involved the design of a 4th leg that is to be built at a later date when private development north of the roundabout is complete.

Firm Employed By: Stanley Consultants, Inc.			
Name:	Adam Fields, PE	**Years of relevant experience with this employer:**	5
Title:	Senior Transportation Engineer	**Years of relevant experience with other employer(s):**	12
Degree(s) / Years / Specialization:	BS / 2005 / Civil Engineering		
Active Registration Number / State / Expiration Date:	PE #35614 / LA / 9/30/2024		
Year Registered: 2010	**Discipline:**	Civil Engineering	



Contract Role(s) / Brief Description of Responsibilities:

CONTRACT ROLE: Deputy Project Manager / Road Design Lead

RESPONSIBILITIES: In addition to serving as a Deputy Project Manager leading the project delivery requirements internal to Stanley Consultants for one of the three projects, Adam will also serve as the overall road design lead for this contract.

PROFESSIONAL PROFILE: Adam is experienced in design for local roads, highways and roundabouts in accordance with DOTD standards and specifications. His experience has included project/task management, roadway alignment studies; development of horizontal and vertical geometrics; typical sections; intersection details; roadway drainage calculations, earthwork design; development of traffic control and staging plans, roadside safety features and development of quantities, technical specifications, and construction cost estimates. He is skilled in development of three-dimensional roadway models and roadway design utilizing MicroStation, AutoCAD, Civil 3D, InRoads and OpenRoads software.

Adam will use his 16 years of diverse design experience to lead the plan development of roadways, intersections and roundabouts.

Meets MPRs No. 3 & 6

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).
01/23 – Present	**H.015052 I-20: Widening/Ovrly (Vancil Rd-LA 34):** Design Lead responsible for horizontal and vertical alignment, typical sections, sequence of construction with minimum temporary traffic control layout, erosion control layout and permanent pavement markings according to DOTD specifications, standards and design criteria. Design tools used for this project included MicroStation with CadConform, Bentley InRoads and Microsoft Excel.
10/18 – 04/22	**H.010960 LA 30 Roundabouts at Tanger & I-10, DOTD, Ascension Parish, LA:** Civil Engineer responsible for providing oversight for all necessary engineering and related services required for the design of four multi-lane roundabouts along LA 30 at the heavily traversed commercial interchange at I-10 in Gonzales, LA. Adam also provided quality assurance (QA) of typical sections, pedestrian and bicycle design, roadway geometrics, roundabout geometrics, drainage design, and driveway details for this project.
10/18 – 04/22	**H.011137 I-12: LA 1077 to LA 21, DOTD St. Tammany Parish, LA:** Design Lead responsible for horizontal and vertical alignment, typical sections, sequence of construction with minimum temporary traffic control layout and striping according to DOTD specifications, standards and design criteria. Design tools used for this project included MicroStation with CadConform, Bentley InRoads and Microsoft Excel.

Firm Employed By: Stanley Consultants, Inc.	
03/19 – 03/20	**H.013866 I-12: LA 21 to US 190, DOTD, St. Tammany Parish, LA:** Design Lead responsible for horizontal and vertical alignment, typical sections, sequence of construction with minimum temporary traffic control layout and striping according to DOTD specifications, standards and design criteria. Design tools used for this project included MicroStation with CadConform, Bentley InRoads and Microsoft Excel.
9/19 – 03/23	**Stone Road to Powell Drive Extension, St. Tammany Parish, LA:** Project Engineer responsible for engineering design services for a new greenfield connector roadway between Ben Thomas Road and Powell Drive as well as widening and drainage improvements to an existing section of Powell Drive. The purpose of this project is to accommodate industrial traffic accessing and egressing Interstate 12 to the north by providing improved system linkage with a new north-south connector roadway and improving an existing roadway within the project limits.
10/18 – 03/20	**H.012304 LCG Road Overlay Program DOTD Lafayette Parish, LA:** Design Lead responsible for field surveying and capturing topographic features and measuring CL stationing. Duties also include plan development, determining quantities and pay items according to DOTD specifications, standards and design criteria. Design tools used for this project included MicroStation with CadConform, Bentley InRoads and Microsoft Excel.
10/18 – 12/19	**H.012861 Prejean Road Pavement Preservation DOTD Lafayette Parish, LA:** Design Lead responsible for field surveying and capturing topographic features and measuring CL stationing. Duties also include plan development, determining quantities and pay items according to DOTD specifications, standards and design criteria. Design tools used for this project included MicroStation with CadConform, Bentley InRoads and Microsoft Excel.
10/18 – 03/22	**H.011781 LA 675 and LA 87 Improvements in New Iberia Pavement Preservation Program; DOTD; Baton Rouge, LA:** Design Lead responsible for plan development, drainage design, determining quantities and pay items according to DOTD specifications, standards and design criteria. Design tools used for this project included MicroStation with CadConform, Bentley InRoads, HYDRWIN drainage modeling software and Microsoft Excel.
01/14 – 11/17	**H.013052 LA 442 Tangipahoa River Bridge Replacement, DOTD, Tangipahoa Parish, LA:** Design Lead responsible for horizontal and vertical alignment, typical sections, sequence of construction with minimum temporary traffic control layout and striping according to DOTD specifications, standards and design criteria for emergency replacement of the LA 44 bridge over the Tangipahoa River. Design tools used for this project included MicroStation with CadConform, Bentley InRoads and Microsoft Excel.
01/12 – 02/14	**H.003495 I-49 N, Segment K – Phase 1, DOTD, Caddo Parish, LA:** Project Engineer responsible for developing sequence of construction plans, temporary pavement marking layouts for maintenance of traffic during construction, joint layouts and graphical grades, retaining wall layout, and quantities and cost estimates. Design tools used for this project included MicroStation with, Bentley InRoads and Microsoft Excel.
07/11 – 12/13	**H.011111 I-49 N, Segment K – Phase 2, DOTD, St. Tammany Parish, LA:** Project Engineer responsible for developing sequence of construction plans, temporary pavement marking layouts for maintenance of traffic during construction, joint layouts and graphical grades, retaining wall layout, and quantities and cost estimates. Design tools used for this project included MicroStation with, Bentley InRoads and Microsoft Excel.

Firm Employed By: Stanley Consultants, Inc.			
Name:	Ed Wedge, PE	**Years of relevant experience with this employer:**	2
Title:	Principal Civil Engineer	**Years of relevant experience with other employer(s):**	36
Degree(s) / Years / Specialization:	BS / 1985 / Civil Engineering		
Active Registration Number / State / Expiration Date:	PE #24613 / LA / 9/30/2024		
Year Registered:	1992	**Discipline:**	Civil Engineering

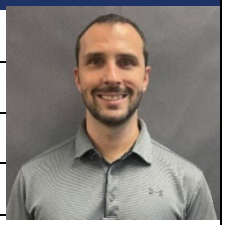
Contract Role(s) / Brief Description of Responsibilities:	**CONTRACT ROLE:** Client Services Manager **RESPONSIBILITIES / PROFESSIONAL PROFILE:** As former Deputy Chief Engineer for the DOTD, Ed has a thorough understanding of policy, standards and processes required to perform as an engineering consultant working for the DOTD. He is knowledgeable about DOTD program management and development with respect to the environment, project design and management, construction traffic engineering, system preservation and improvements of highway bridges. While working at DOTD, Ed managed the Traffic Section, Construction and Consultant Contracts, Environmental, and Project Development for roads, bridges, programs, geotechnical, right of way and survey.

Ed had over 30 years of DOTD experience that he will leverage to assure that each deliverable meets DOTD standards and quality expectations.

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).
01/13 – 06/21	**DOTD Deputy Chief Engineer; DOTD, Baton Rouge, LA:** Administers all matters, including engineering, related to the programs of the state of Louisiana with respect to the environment, project design and management, construction, traffic engineering, system preservation and regulation of highways and bridges, and other special programs as may be directed by DOTD Chief Engineer or DOTD Secretary. Assists in the approval process of all plans, specifications, and estimates for the construction of all facilities and projects for which the office is responsible. Oversees four direct reports, which have responsibilities in the areas of highways and bridges. Specifically, the Traffic Section, the Contracts Section (construction and consultant), the Environmental Section and the Project Development Division (Road, Bridge, Project Management, Geotechnical, R/W, Survey). This includes planning, organizing and evaluating the respective missions and activities of each which includes approximately 360 staff members. Routinely confers with Assistant Secretaries, DOTD Division Chiefs, District/Section Administrators and managers in an effort to coordinate work efforts, communicate operational and managerial needs, utilize resources, eliminate duplication of efforts, and facilitate achievement of the Department's overall goals. Participates in conferences with other state and federal agency officials to correlate administrative and operational programs.
04/11 – 01/15	**DOTD Project Management Director (Engineer 8 DOTD), Baton Rouge:** Directs implementation and execution of DOTD's Project Management Section. Coordinates with Chief Engineer, Project Development Chief, Project Delivery Steering committee, and Program Managers to ensure timely project delivery. Directs a staff of PMs responsible for high risk, technical, complex, environmental sensitive, regionally important and schedule constrained projects.

Firm Employed By: Stanley Consultants, Inc.	
07/08 – 04/11	**DOTD Contracts Administrator (Engineer 8 DOTD), Baton Rouge, LA:** Section Head over Consultant Contracts, Contracts and Specifications and Project Control. Monitors the processes and procedures of the Consultant Contract Services Unit, which is responsible for all contract and procurement actions for planning, environmental, engineering, and construction engineering consultant services. Monitors the processes and procedures of the Contracts & Specifications unit which is responsible for developing the construction specification package and the construction proposal; responsible for advertising projects for construction bids, issuing addenda, and assembling final contract documents after award. Monitors the processes and procedures of the Project Control unit which is responsible for managing and operating DOTD Construction Bid letting process in accordance with federal requirements and the state public bid law. Meets and confers with the Chief Engineer, participates in meetings with federal officials, consultants, contractors, and other stakeholders relative to the operations of Contract Services.
06/06 – 07/08	**DOTD Consultant Contract Services Administrator (Engineer 7 DOTD) at Louisiana Department of Transportation & Development, Baton Rouge, LA:** Provides or recommends policy relative to the procurement of consultant engineer and related contract services, determines compensation for those services, and processes all contract actions for those services. Counsels PMs and other department personnel to provide assistance and guidance concerning the procurement process and in the proper management of engineering and related services contracts. Monitors the consultant evaluation system. Evaluates qualifications of firms competing for engineering and related services projects. Chair of the Consultant Selection Committee. Presents the short-listed firms to the Secretary for final selection. Meets with representatives of consultant engineering firms to provide feedback, information on the selection process and to provide answers to specific questions concerning selection and contract issues.
07/01 – 06/06	**Engineer 6 – Road Design at Louisiana Department of Transportation & Development, Baton Rouge, LA:** Supervised all aspects of pre-construction engineering performed by consulting engineers and in house design staff. This supervision included providing guidance in all areas of plan preparation including hydraulic design, geometric design and ensuring conformance with the AASHTO “Green Book”. The range of projects included design of freeways, urban arterials, rural collectors, and major and minor bridge replacement projects.
05/00 – 07/01	**Engineer 6 – Office of Planning and Programming at Louisiana Department of Transportation & Development, Baton Rouge, LA:** This position was created to provide the feasibility, scope and budget of new construction and reconstruction projects. Prepare alignment studies. Monitors the scope and estimated costs of projects during plan development. Reviews and makes recommendations regarding requested changes in the scope and/or budget for projects in plan development.
02/92 – 05/94	**Design Engineer – Road Design at Louisiana Department of Transportation & Development, Baton Rouge, LA:** Supervised a design squad, check design calculations and detail drawings Reviews plans for completeness. Reviews and approves plans and specifications submitted by consultant engineers.

Firm Employed By: Stanley Consultants, Inc.			
Name:	William (Travis) Barr, PE	Years of relevant experience with this employer:	<1
Title:	Senior Transportation Engineer	Years of relevant experience with other employer(s):	14
Degree(s) / Years / Specialization:		BS / 2012 / Civil Engineering	
Active Registration Number / State / Expiration Date:		PE #45675 / LA / 9/30/2025	
Year Registered:	2021	**Discipline:**	Civil Engineering



Contract Role(s) / Brief Description of Responsibilities:

CONTRACT ROLE: Roadway Engineer

RESPONSIBILITIES: Assist in leading the development of roadway and intersection plans.

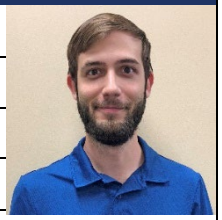
PROFESSIONAL PROFILE: Travis has a depth of transportation design and project management experience inclusive of preliminary engineering through design and construction. He serves as the lead on small to large infrastructure projects including roadway, water, wastewater, drainage, quality control and assurance, project management and more. His responsibilities have included the evaluation of highway plans, evaluation of MOT plans, alternative analysis, cost estimating, standards, specifications and overall constructability. Travis has completed work for various state DOT's, Army Corp of Engineers, municipalities, and private entities. He has completed training such as: ATSSA Traffic Control Supervisor/Technician/Flagger, Operations Management I (30 hr instructor lead course), Basic Watershed Modeling using HEC HMS, Highway Engineering: An Introduction, and more.

Travis will use his 14 years of transportation experience to assist in the plan development of roadways, intersections, and roundabouts.

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).
01/23 – Present	**H.015052 I-20: Widening/Ovrly (Vancil Rd-LA 34):** Project Engineer responsible for drafting the typical sections and performing quality control and quality assurance of engineering documents and plans.
11/22 – Present	**LA 477 Roundabouts, DOTD, Livingston Parish, LA:** Serving as Sr. Engineer, Mr. Barr is in responsible charge for the preliminary layout, design checks, calculations, and plan preparation for two (2) LA highway roundabouts including one multi-lane and one sing-lane configuration. Mr. Barr additionally is providing roadway design on adjoining roadways realignments.
11/22 – Present	**Stone Road to Powell Drive Extension, St. Tammany Parish, LA:** Serving as Sr. Engineer, Mr. Barr aided in the quality control duties to ensure project submittal is of high-quality and meets minimum design requirements as set forth in contract documents. This was a greenfield project along new alignment.

Firm Employed By: Stanley Consultants, Inc.	
11/22 – Present	**Terrace Avenue, Baton Rouge Department of Transportation and Drainage, Baton Rouge, LA:** Serving as Sr. Engineer, Mr. Barr worked with project management to lead the modeling effort for the final design for the project. Mr. Barr also aided in the quality control and creation of project wide design standards.
03/21 – 11/22	**University Ave, LADOTD, Lafayette, LA:** Serving as PM, Mr. Barr served as Engineer of Record and acted as the person in responsible charge for evaluation and production of highway plans, evaluation and production of maintenance of traffic plans, exhibits, QA/QC, alternative analysis, scheduling, cost estimates, and project management.
03/21 – 11/22	**MOVEBR Transportation Program, East Baton Rouge City Parish, Baton Rouge, LA:** Serving as PM, Mr. Barr was responsible for the project management of the eight projects in the program. He assists in leadership of the projects, cost estimation, budgets, design standards, and focuses on overall constructability/feasibility of projects. As a part of her project management tasks, he has assisted with cost estimation, identification of project goals, economic development, and feasibility.
03/17 – 03/21	**I-820 (SH-287 to I-20) Interchange Reconstruction, Alternative Delivery TxDOT, Dallas, TX:** Serving as Task Lead, Mr. Barr was in responsible charge and acted as the Engineer of Record for the evaluation of interstate plans, wall location to facilitate sequence of construction, bridge limits, retaining wall structural requirements. Additionally, production of exhibits, and QA/QC of deliverables. Lastly, Travis coordinated between stake holders and presented findings with key stake holders. Travis led weekly task force meetings with major stake holders to present status, potential roadblocks, project timelines, design philosophies and approach each week.
03/17 – 06/20	**Border Wall, Douglas, AZ.:** Serving as Task Lead and Engineer of Record, Mr. Barr was in responsible charge for project wide design standards, specifications and design of the Douglas portion of the Tucson 63 project. Totaling over 20 miles of boarder wall design, the Douglas portion of the Tucson 63 project had some of the most treacherous and complicated portions of the boarder to design and construct. Travis managed three design teams, QA/QC activities, design of the line and grade, wall and retaining system selection, limits of construction/right of way, typical section, compliance with environmental guidelines, scope/fee estimation, and scheduling. Additionally, Travis led weekly task force meetings with major stake holders including representation from construction, design, and the owner to present status, potential roadblocks, project timelines, design philosophies and approach each week. Additionally, Travis led comment resolution meetings with the owner and reviewing agencies to ensure proper closeout of each item.
03/17 – 06/20	**SR 520 (I-5 to 84th Ave) Interchange Reconstruction, Lid covering, and Union Bay Crossing, Design-Build Pursuit, WSDOT, Seattle, WA:** Serving as Maintenance of Traffic Task Lead, Mr. Barr was in responsible charge for the evaluation of interstate plans, maintenance of traffic, pier and wall location to facilitate sequence of construction, alternative design analysis, production of exhibits, and QA/QC of deliverables. Additionally, Travis Coordinated and presented findings with key stake holders.

Firm Employed By: Stanley Consultants, Inc.			
Name:	Jared Blohowiak, PE	**Years of relevant experience with this employer:**	5
Title:	Transportation Engineer	**Years of relevant experience with other employer(s):**	N/A
Degree(s) / Years / Specialization:		BS / 2017 / Civil Engineering	
Active Registration Number / State / Expiration Date:		PE #46547 / LA / 9/30/2024	
Year Registered:	2022	**Discipline:**	Civil Engineer



Contract Role(s) / Brief Description of Responsibilities:

CONTRACT ROLE: Roadway Engineer

RESPONSIBILITIES: Assist design Team with roadway plan development.

PROFESSIONAL PROFILE: Jared has worked on numerous DOTD projects providing design support, modeling, CADD and detail checks to ensure plan sets are in compliance with specifications and standards. He has been responsible for the creation of plan and profiles; typical section; drainage design; signing and striping layout; safety and roadside facilities; sequence of construction and development of quantities and cost estimates. Jared is an expert in applying design tools such as MicroStation, InRoads OpenRoads, CADConform and Bluebeam Revu to enhance efficiencies and project quality. His most recent work has included preparing models and development of detailed geometry for major freeways, urban roadways/complete streets and multi-lane roundabout roadways. Jared has his TCT, TCS, and Flagger certifications.

Jared has 5 years of experience designing DOTD 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).
01/23 – Present	**H.015052 I-20: Widening/Ovrly (Vancil Rd-LA 34):** Project Engineer responsible for engineering design services on an interstate improvement project to an existing section of Interstate 20 in Monroe, Louisiana. These responsibilities include the collection and documentation of existing sign data along the corridor, analysis of existing drainage patterns and structures to evaluate potential flooding hazards, and the design of new drainage systems to minimize the hazards for the roadway and neighboring communities.
9/19 – 03/23	**Stone Road to Powell Drive Extension, St. Tammany Parish, LA:** Project Engineer responsible for engineering design services for a new greenfield connector roadway between Ben Thomas Road and Powell Drive as well as widening and drainage improvements to an existing section of Powell Drive. The purpose of this project is to accommodate industrial traffic accessing and egressing Interstate 12 to the north by providing improved system linkage with a new north-south connector roadway and improving an existing roadway within the project limits. This was a greenfield project along new alignment.
09/18 – 04/22	**H.011909 US 171 at Boone St. Roundabout, DOTD, Vernon Parish, LA:** Provided assistance with the design of a three-legged multi-lane roundabout and multiple intersection improvements along US 171. Tasks also include, budgeting, project cost estimation, utility coordination, and QA for the design and construction plans.

Firm Employed By: Stanley Consultants, Inc.	
09/18 – 04/22	**H.010960 LA 30 Roundabouts at Tanger I-10, DOTD, Ascension Parish, LA:** Assisted with all necessary engineering and related services required for the design of four multi-lane roundabouts along LA 30 at the heavily traversed commercial interchange at I-10 in Gonzales, LA. Assisted with QA of typical sections, pedestrian and bicycle design, roadway geometrics, roundabout geometrics, drainage design, and driveway details for this project.
09/18 – 04/22	**H.011137 I-12: LA 21 to US 190, DOTD, St. Tammany Parish, LA:** Helped with drafting of typical section sheets, quantity tables, guardrail layout designs, plan/profile sheets, signing and striping sheets using CADConform and MicroStation. Responsible for designing guardrail layouts and quantity calculations. Jared also assisted with the development of cost estimates. Responsible for following the Stanley Consultants QA/QC plan.
10/18 – 12/19	**H.012861 Prejean Road Pavement Preservation, DOTD, Lafayette Parish, LA:** Assisted with field surveying and capturing topographic features and measuring CL stationing. Duties also include plan development, determining quantities and pay items according to DOTD specifications, standards and design criteria. Design tools used for this project included MicroStation with CadConform, Bentley InRoads and Microsoft Excel.
03/17 – 03/22	**LA 67 East Baton Rouge Parish Line to 6.5 Miles North, Eastbound, DOTD, LA:** Engineering Technician Serving as Engineer Intern, Jared is responsible for assisting with topographic survey field work. He assisted with the drafting of typical section sheets, quantity tables, guardrail layouts, miscellaneous detail sheets using MicroStation, and performed quantity calculations. He also assisted with the development of cost estimates. Responsible for following the Stanley Consultants QA/QC plan.

Firm Employed By: Stanley Consultants, Inc.			
Name:	Kayla Lafitteau, EIT	**Years of relevant experience with this employer:**	5
Title:	Engineer-In-Training (EIT)	**Years of relevant experience with other employer(s):**	1
Degree(s) / Years / Specialization:		BS / 2019 / Civil Engineering	
Active Registration Number / State / Expiration Date:		EI.0034158 / LA / 3/31/2024	
Year Registered:	2019	**Discipline:**	Civil Engineering Intern

Contract Role(s) / Brief Description of Responsibilities:

CONTRACT ROLE: Roadway Engineer Intern

RESPONSIBILITIES: Assist Team with roadway plan development.

PROFESSIONAL PROFILE: Kayla has professional experience since 2019. She has worked on DOTD and City of New Orleans projects with the oversight of several professional engineers. Kayla has been responsible for detour signing, permanent pavement markings, geometric layout, and guard rail design. She prepares quantity calculations, cost estimates, and is proficient in MicroStation and AutoCAD. Kayla is often responsible for detailed corrections and adjustments to plan sets to ensure they are compliant DOTD specifications and standards.

Kayla has 5 years of experience on DOTD 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).
01/23 – Present	**H.015052 I-20: Widening/Ovrly (Vancil Rd-LA 34):** Engineering Intern responsible for many aspects of drainage and plan development, including performing ponding calculations to determine the width of flooding for each catch basin, developing existing and design drainage maps, and assisting with the creation of drainage plan and profile sheets. She has also helped in the development of plan and profile sheets and existing sign plans.
9/19 – 03/23	**Stone Road to Powell Drive Extension, St. Tammany Parish, LA:** EIT responsible for engineering design services for a new greenfield connector roadway between Ben Thomas Road and Powell Drive as well as widening and drainage improvements to an existing section of Powell Drive. The purpose of this project is to accommodate industrial traffic accessing and egressing Interstate 12 to the north by providing improved system linkage with a new north-south connector roadway and improving an existing roadway within the project limits. This was a greenfield project along new alignment.
12/17 – 04/22	**I-12: 1077 to LA 21; St. Tammany Parish, LA; DOTD:** EIT responsible for assisting with drafting of typical section sheets, pavement marking sheets, and plan/profile sheets. Responsible for assisting with quantity calculations, guard rail design, and developing a cost estimate. Stanley Consultants performed roadway design, modeling, DOTD formatting, and CADConform compliance. DOTD requested an expansion of the project that included the addition of the auxiliary lane to the exit inclusive of the roadway widening two-lane ramp. Our team prepared designs to re-stripe the roads under the structure instead of adding more pavement.

Firm Employed By: Stanley Consultants, Inc.	
09/18 – 04/22	**H.010960 LA 30 Roundabouts at Tanger I-10, DOTD, Ascension Parish, LA:** EIT responsible for assisting with topographic field work. Assisted with quantity calculations, guard rail design, and additional detail sheets. Also assisted with developing the cost estimate and summary sheets.
05/19 – 03/22	**H.011781 LA 675 & LA 87 Improvements, DOTD, Iberia Parish, LA:** EIT responsible for assisting with drafting of plan/profile sheets, drainage plan/profile sheets, geometric layout sheets, sequence of construction sheets, and pavement marking sheets. Responsible for existing drainage maps, design drainage maps, and summary of drainage structures tables. Also assisted with quantity calculations and cost estimates.
05/19 – 02/20	**H.013191 LA 1 Iberville P/L - Port Allen Canal, DOTD, East Baton Rouge Parish, LA:** EIT responsible for assisting with topographic field work. Assisted with quantity calculations, guard rail design, and additional detail sheets. Also assisted with developing the cost estimate and summary sheets.
03/17 – 08/19	**H.009633 LA 67 EBR P/L to 8 Miles North of EB, DOTD, East Feliciana Parish, LA:** EIT responsible for assisting with topographic survey field work. Assisted with the drafting of typical section sheets, quantity tables, guard rail layouts, miscellaneous detail sheets using MicroStation, and performed quantity calculations. Also assisted with the development of cost estimates. Responsible for following the Stanley Consultants QA/QC plan.

Firm Employed By: Stanley Consultants, Inc.				
Name:	Aidan Carter, PE	**Years of relevant experience with this employer:**	<1	
Title:	Transportation Engineer	**Years of relevant experience with other employer(s):**	4	
Degree(s) / Years / Specialization:		BS / 2018 / Civil Engineering		
Active Registration Number / State / Expiration Date:		PE #47566 / LA / 9/30/2025		
Year Registered:	2023	**Discipline:**	Civil Engineering	

Contract Role(s) / Brief Description of Responsibilities:

CONTRACT ROLE: Roadway Engineer

RESPONSIBILITIES: Road Design, Geometrics, and Corridor Modeling

PROFESSIONAL PROFILE: Aidan has over four years of experience in performing road design and development of roadway plans for both LADOTD and Local roadway projects. During his time working for LADOTD's Road Design Section, Aidan became familiar with LADOTD's project delivery workflow as well as their design philosophy. He leverages work experiences to provide quality engineering services.

Aidan will use his four years of transportation experience to assist in the plan development of roadways and intersections.

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).
01/23 – Present	**H.015052 I-20: Widening/Ovrly (Vancil Rd-LA 34):** Engineering and Design Support responsible for aiding in the design of the widening/overlay of a 4 mile stretch of I-20 in West Monroe, Louisiana. The purpose of this project is to improve highway capacity by widening to the inside and install a median barrier wall. A portion of the project is being fully reconstructed due to insufficient pavement structural capacity, and drainage will be modified to accommodate changes to the corridor.
01/19 – 03/20	**Black Bayou Bridge; Caddo Parish, LA:** Aidan performed the role of lead designer for this bridge replacement project. As such, he designed the horizontal & vertical alignments and generated the corridor model. In addition to developing the construction plan set, Aidan calculated the project quantities and generated the Engineer's Estimate of Probable Cost.
01/19 – 07/21	**LA 44 Widening/Roundabout; Ascension Parish, LA:** Aidan performed the role of design support by developing the geometry, pavement section, and corridor model for the widening portion of this multi-site project. In addition, Aidan supported the design of the roundabout site by aiding in the development of the sequence of construction.
06/20 – 07/21	**Red Chute Bayou Bridge; Bossier Parish, LA:** Aidan performed the role of lead designer for this bridge replacement project. In addition to designing the horizontal and vertical alignments, Aidan designed and modeling the diversion road that will be utilized to maintain traffic during construction.

Firm Employed By: Stanley Consultants, Inc.	
07/21 – 04/23	**North University Avenue Corridor Improvements; Lafayette, LA:** Aidan performed the role of Lead Designer for this 5-lane corridor improvement project near downtown Lafayette. Aidan assisted in the development of the TEPR by performing the Tier 1 and Tier 2 analyses. Aidan designed the roadway geometry for the 1.25-mile-long corridor, implementing access control elements as well as pedestrian safety improvements. Aidan also designed the horizontal geometry for two multi-lane roundabouts and an RCUT along the corridor. He ran performance tests for the roundabouts including Fastest Path Analysis and Design Vehicle Swept Path Analysis as outlined in NCHRP Report 672.
07/21 – 04/23	**Bluebonnet Roundabouts; Private Client; Baton Rouge, LA:** Aidan performed the role of Design QA/QC Lead for this project, which included the construction of access management elements, two shared use paths, a pedestrian table, and two multi-lane roundabouts. Aidan reviewed all design decisions related to roadway geometrics and design, including roundabout geometry and performance tests. Design for this project was performed using Bentley's OpenRoads designer.
01/23 – 04/23	**Energy Transition Corridor; Move Ascension; Donaldsonville, LA:** Aidan performed the role of Road Design Representative for this 2-mile greenfield project. Aidan performed a desktop analysis of the project site, utilizing LIDAR data, Wetland Maps, FEMA Flood maps, etc. Aidan used his desktop analysis to generate three potential horizontal alignments and provided a ROM cost estimate for each alignment.

Firm Employed By: Stanley Consultants, Inc.				
Name:	Gary Melita, PE	**Years of relevant experience with this employer:**	30	
Title:	Senior Transportation Engineer	**Years of relevant experience with other employer(s):**	4	
Degree(s) / Years / Specialization:		BS / 1991 / Civil Engineering MS / 1995 / Construction Management		
Active Registration Number / State / Expiration Date:		PE #30516 / AZ / 9/30/2026		
Year Registered:	1996	**Discipline:**	Civil Engineering	

Contract Role(s) / Brief Description of Responsibilities:

CONTRACT ROLE: Roadway Engineer

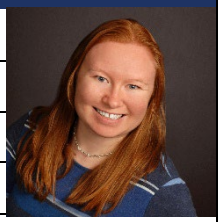
RESPONSIBILITIES: Road Design, Geometrics, and Corridor Modeling

PROFESSIONAL PROFILE: Gary's 32 years of experience in design and construction of complex transportation projects and excels at designing urban freeway reconstruction, interchanges and intersections projects. He brings extensive skill in roadway geometrics, roadway modeling (INROADS), construction sequencing and maintenance of traffic. In addition to possessing exceptional command of design practices and project development process, he has experience with multiple delivery methods – Design-Bid-Build, Design-Build, and CMAR. His previous experience as an ADOT construction supervisor and assistant resident engineer provides him the ability to fully understand the interaction and coordination between design and construction means and methods.

Gary will use his 34 years of transportation experience to assist in the plan development of roadways and intersections.

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).
12/18 – 11/21	**SR 24, Ellsworth Road to Ironwood Road; Arizona Department of Transportation; Arizona:** Project Manager and Lead Roadway Engineer responsible for design of five miles of urban freeway. The project includes utility and R/W clearances, environmental mitigation efforts, and coordination with ADOT, City of Mesa, Pinal County, FCDMC, and utilities. Construction includes new SR 24 mainline and ramp construction, crossroad construction, three mainline bridges, retaining walls, onsite and offsite drainage facilities, concrete channel, drainage basins, erosion control, traffic signals, FMS, lighting, signing/pavement marking, and traffic control.
02/15 – 03/16	**SR 202L South Mountain Design Build; Fluor/Granite Construction/Ames Construction JV, Arizona Department of Transportation:** Segment roadway lead responsible for the Salt River Segment this $980 million design-build project to construct 21.5 miles of new eight - urban freeway. Salt River Segment encompassed 7.5 miles of mainline freeway with seven diamond interchanges; 15 bridges including the two - 3000'+ bridges over the Salt River, a 230' long multi-span pedestrian bridge, retaining walls; drainage systems and signing, pavement marking, lighting and MOT and extensive utility coordination and relocations. The approximate construction value for the Salt River Segment was $340 million and had a 10-month design schedule. The project design was completed on fast track with multiple interdisciplinary and constructability reviews and a rigorous design quality control process and extensive documentation of quality control activities.
09/12 – 04/17	**US60/303 CMAR; Arizona Department of Transportation; Arizona:** Project Manager responsible for managing design activities for this $45 million CMAR project which replaces the existing interchange with a traffic interchange that provides improved connectivity between US60 and SR303L. Construction included widening a four span SR303L structure over US60 and the BNSF Railroad, retaining and sound walls, onsite and offsite drainage facilities, lighting, traffic signals, FMS, signing/pavement marking, erosion control, utility relocations, and traffic control. Collaborated with the CMAR contractor to develop, a refined construction staging plan and traffic control plan.

Firm Employed By: Stanley Consultants, Inc.			
Name:	Hannah Newhard, PE	**Years of relevant experience with this employer:**	9
Title:	Transportation Engineer	**Years of relevant experience with other employer(s):**	0
Degree(s) / Years / Specialization:		BS / 2015 / Civil Engineering	
Active Registration Number / State / Expiration Date:		PE #69331 / LA / 9/30/2025	
Year Registered:	2019	**Discipline:**	Civil Engineering



Contract Role(s) / Brief Description of Responsibilities:

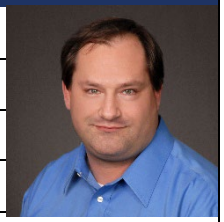
CONTRACT ROLE: Roadway Engineer

RESPONSIBILITIES: Road Design, Geometrics, and Corridor Modeling

PROFESSIONAL PROFILE: Hannah is knowledgeable in civil /roadway engineering and specializes in traffic studies, operations and design of traffic engineering related elements for street, highway, intersections and roundabouts. Hannah's experience includes analysis of traffic volumes, crash data and level of service; and design of signing and pavement marking, roadway lighting, construction phasing layout and maintenance of traffic plans. Her experience includes serving as a design team member for a number of projects for LaDOTD, Arizona DOT, Florida DOT, Iowa DOT, and Idaho Transportation Department, typically responsible for signing, marking and maintenance of traffic plans.

Hannah's combination of nationwide experience and familiarity with LADOTD plan development requirements make her the perfect fit to supplement our local in-house roadway design team.

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).
03/17 – 04/22	**H.010960 LA 30 Roundabouts at Tanger I-10; LaDOTD; Ascension Parish, LA:** Design engineer assisting with roadway design plans and pavement marking, signing, and traffic control associated the design of four multi-lane roundabouts along LA 30 at the heavily traversed commercial interchange at I-10 in Gonzales, LA.
12/18 – 11/21	**SR 24, Ellsworth Road to Ironwood Road; Arizona Department of Transportation; Arizona:** Traffic Engineer completed signing and pavement marking design including designing sign formats utilizing SignCAD and completing sign summaries, quantities, and specifications. Hannah also completed the lighting design including pole and conductor schedules, photometric analysis using AGi32, and lighting report.
12/17 – 04/22	**H.011137 I-12: LA 21 to US 190; LaDOTD; St. Tammany Parish, LA:** Design engineer providing plan layout and quantity calculations for pavement marking, signing, and traffic control associated with the widening and rehabilitation of I-12 to the median side from a four-lane freeway to a six-lane freeway section in both the East and West bound directions, including auxiliary lanes.
05/15 – 09/20	**SR 260 thousand Trails Corridor Reconstruction CMAR; Arizona Department of Transportation:** Design engineer responsible for preparing signing and pavement marking plans for seven roundabouts in a seven-mile segment of SR 260. Also prepared sign summaries and quantities, created sign formats in SignCAD, assisted in lighting analysis using AGi32 and preparing lighting and maintenance of traffic plans associated with reconstruction of more than 7 miles of existing SR260 roadway into a divided highway.

Firm Employed By: Stanley Consultants, Inc.				
Name:	Luis Santana II, PE	**Years of relevant experience with this employer:**	17	
Title:	Senior Structural Engineer	**Years of relevant experience with other employer(s):**	0	
Degree(s) / Years / Specialization:		BS / 2008 / Civil Engineering; BS / 2005 / Oceanic Engineering		
Active Registration Number / State / Expiration Date:		PE #76363 / FL / 2/28/2025; PE #42265 / LA / 3/31/2024		
Year Registered:	2013	**Discipline:**	Civil Engineering	

Contract Role(s) / Brief Description of Responsibilities:

CONTRACT ROLE: Structures and Bridge Design

RESPONSIBILITIES: Assist with structural design and bridge planning/design.

PROFESSIONAL PROFILE: Luis's engineering experience includes designing and managing the necessary structural work for bridges, levees and walls along the Gulf Coast. His expertise includes structural inspections (above and underwater), bridge load ratings, shoring plans, dewatering, site demolition planning, and LEED experience. He has designed bridges, foundations, retaining walls and many other ancillary structural elements. His structural background includes concrete, steel, wood, masonry, sheet piles, and pile foundations design of bridges, and hydraulic and non-hydraulic structures. His software experience includes Microsoft programs, MathCad, STAAD Pro, CPGA/ CPGC/ CPGG from USACE, Cwalshet, MicroStation, and AutoCAD.

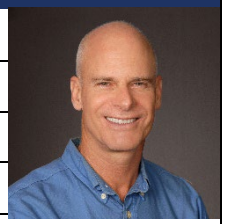
Luis will use his two decades of structural and Louisiana experience to support the structures tasks.

Meets MPRs 4 & 5

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).
01/23 – Present	**H.015052 I-20: Widening/Ovrly (Vancil Rd-LA 34):** Structural Engineer/ Task Lead responsible for the design and plan development of roadside median barriers and overhead sign structures to accommodate design widening throughout the I-20 corridor. The median barrier walls consist of both single and double faced concrete barrier walls used for grade separated roadway. The barrier walls will also include several sections used to transition between the single to double face sections. The overhead sign structures will utilize standard truss arms with modified uprights for either mounted onto the median barriers/foundation or to have independent foundations. The design will utilize requirements as indicated in the LADOTD Bridge Manual and AASHTO guidelines.
01/17 – 09/20	**Bootlegger Rd – Bridge Replacement and Road Mill and Overlay, St. Tammany Parish Government, St. Tammany Parish, LA:** Luis serves as the Structural Engineer responsible for the design and plan productions for the bridge replacement of the existing timber bridge. The new bridge consisted of a three span 70ft long continuous concrete flat slab superstructure founded on concrete piles and pile caps. The new bridge footprint was widened to accommodate two 12-ft lanes with 4-ft shoulders and a 12-ft shared-use path. The new bridge was lengthened to match new H&H requirements and to allow for new piles to be driven to clear the existing piles.

Firm Employed By: Stanley Consultants, Inc.	
09/19 – 04/22	**I-12, LA 21 to US 190 Widening Design, DOTD, St. Tammany Parish, LA:** Structural Engineer responsible for the design of roadway median concrete barrier walls along the I-12 corridor. The project included the design of 36", 48", and 54" barriers walls. The design analyzed the stability of the barrier walls for vehicle impacts and traffic live loads and then developed the reinforced concrete design for each of the barrier types. The project also included an analysis of the Tchefuncte River Bridge piling for boat impact.
05/19 – 07/20	**LA 117 Between LA8 and LA 118 Bridge Study, Vernon Parish, LA:** Luis serves as the Structural Engineer responsible for the structural inspection, assessment, and development of conceptual plans of five bridges along the LA 118 corridor. As part of the project, the existing bridges were evaluated for either widening or replacement to accommodate the proposed roadway improvements. The existing bridges consisted of two timber bridges and three concrete flat slab bridges. The bridges ranged in span numbers from two spans to ten spans with a typical span length of 20-ft. Each bridge has two alternatives to match the roadway improvements. The timbers bridges were recommended for replacement with concrete flat slab bridge founded on new concrete piles. The existing concrete bridges were recommended for widening for most alternatives. One of the concrete bridges were recommended for replacement by box culvert due to an extreme vertical profile change.
01/20 – 9/20	**Runway 13/31 Threshold Recovery, Baton Rouge Metropolitan Airport, Baton Rouge, LA:** Structural Engineer. Stanley Consultants provided engineering design and construction administrative services for the Runway 13/31 Safety Area Improvements and Threshold Recovery. Stanley Consultants provided engineering design and construction administrative services for the Runway 13/31 Safety Area Improvements and Threshold Recovery.
05/13 – 01/16	**US 41 Design-Build Pursuit, Florida Department of Transportation, District 1, FL:** Structural Engineer responsible for the design of a bridge over Henderson Creek (aquatic reserve/ outstanding Florida water), three bridge culverts and approximately ¾ of a mile of special design sound barrier walls. The bridge was designed as a flat slab continuous three-span structure. The culvert bridges were designed as cast-in-place type structures. The sound barrier walls were designed to have a special bottom panel acting as a retaining wall. Stanley Consultants engineers prepared the drainage design and utilities improvements and relocation design for this 3.5-mile-long project.
07/11 – 05/13	**I-95 Widening Design-build, Florida Department of Transportation, District 4, St. Lucie, FL:** Structural Engineer responsible for the design of bridge superstructure, substructure, and foundation of widening bridge. The project consisted of widening the existing I-95 Bridge of Indrio Road. The existing bridge is a four span, 280ft long concrete bridge founded on concrete abutments pile caps and hammerhead piers. The widened superstructure is comprised of prestressed concrete Florida I Beams. The new substructure components were designed to resist vehicular collision forces.
11/09 – 04/16	**Bridge Load Rating, Puerto Rico Department of Transportation and Public Works, PR:** Structural Engineer responsible for the structural investigation and load rating of over 700 bridges throughout Puerto Rico. The investigation included the verification of structural components which include bridge length and width, barrier and beam sizes and scour conditions at and near the bridge. Additional responsibly included analysis and creating bridge load rating reports for all bridges. The load ratings were performed on both superstructures and substructures. The project performed load ratings of prestressed beam, reinforced concrete beam, flat slab, concrete and brick arches, steel girder, and reinforced concrete culvert structures. The project included field data collection, an environmental study, and inspection of bridges for scour signs. Field measurements were logged for load rating purposes and creating reports for all bridges. The project team utilized several different types of load rating program including FDOT Beam Program, AASHTOBridgeware, MDX, and Leap Bridge.

Firm Employed By: Stanley Consultants, Inc.			
Name:	Eric Huskey, PE	**Years of relevant experience with this employer:**	24
Title:	Senior Structural Engineer	**Years of relevant experience with other employer(s):**	9
Degree(s) / Years / Specialization:	MS / 1999 / Civil Engineering; BS / 1985 / Civil Engineering		
Active Registration Number / State / Expiration Date:	PE #24GE03867000 / NJ / 4/30/2024; PE #47330 / LA / 3/31/2025		
Year Registered: 1994	**Discipline:** Civil Engineering		



Contract Role(s) / Brief Description of Responsibilities:

CONTRACT ROLE: Structures and Bridge Design

RESPONSIBILITIES: Assist with structural design and bridge planning/design.

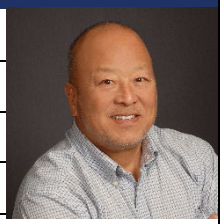
Eric's 33 years of structural design will assist the team in the development of any structural aspect of the project.

PROFESSIONAL PROFILE: Eric has engineering experience that includes analysis and design of a variety of civil engineering projects, including bridges, culverts, retaining walls, water control structures and drainage and flood control projects. His structural background includes structural analysis and design, post-design services, inspection, cost estimation, and report and construction document preparation. Eric is proficient in the use of FDOT Bridge software, Mathcad, Excel, LEAP Products, OpenBridge Modeler, ProStructures, FB-MultiPier, LPile, STAAD Pro and MDX for design. Eric's transportation experience includes design of prestressed concrete bridges, steel girders, retaining walls, culverts, and providing post-design services during construction and post tensioning. His experience also includes load rating and scour analysis of a variety of bridges. He has designed both cantilever and anchored retaining walls, and he has other design experience with drainage and flood control projects, including multi-bay spillway structures with roller gates, replacement of hoist mechanisms and operating platforms on spillway structures, small water control structures and small pump stations. Eric's experience also includes hydraulic studies for flood control 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).
03/15 – 02/21	**SR 80 (Southern Boulevard) at Sansbury's Way/Lyons Road, Lyons Road Bridge Widening over the C-51 Canal; Florida Department of Transportation, Palm Beach County, FL**. Eric performed as the Structural Engineer responsible for the design and detailing of the beam design of a five span 152'-6" long concrete beam bridge widened to both sides over a canal in order to add a through lane and a turn lane. The existing concrete beams were prestressed slab units with an asphalt overlay that together formed the bridge deck. The beams for each side of the bridge widening are post-tensioned together to prevent independent movement of the beams. The widening utilized the same beam type with the closure pour between the remaining existing bridge beams and the bridge widening beams utilizing Ultra High-Performance Concrete (UHPC). The use of UHPC closure pours enabled the closure pour width to be reduced to 9 inches instead of the standard 2-foot closure pour using conventional concrete.

Firm Employed By: Stanley Consultants, Inc.	
02/18 – 09/23	**SR 9/I-95 at SR 804/Boynton Beach Blvd Interchange, Florida Department of Transportation, District 4, Boynton Beach, FL:** Structural Engineer responsible for the designs for roadway widening improvements of Boynton Beach Boulevard (about 1 mile) and each of the interchange ramps to increase capacity and promote safety. Stanley Consultants prepared designs for roadway widening improvements of Boynton Beach Boulevard (about 1 mile) and each of the interchange ramps to increase capacity and promote safety, including signing and pavement marking, signal, lighting and ITS improvements, bicycle lanes, pedestrian facilities, as well as ADA improvements along Boynton Beach Boulevard. Our team also managed subconsultants tasks including drainage design of 151storm drain structures and 'Wrong-way" driving systems (WWDS) and advanced counter measures.
06/11 – 11/17	**SR 7 Extension from 60th St. North to Northlake Boulevard; Florida Department of Transportation, District 4; Palm Beach County, FL**. Acting as Structural Engineer, Eric was responsible for the design and detailing of a 151'-7 ½" span concrete girder bridge over a canal supporting a roadway on a 536-foot horizontal curve. The bridge supports four traffic lanes, two 6' bike lanes and two 6' sidewalks. Our team provided the right bridge designs that were engineered perfectly for the traffic's centrifugal forces due to the curvature of the roadway.
11/07 – 12/08	**Center Street Bridge over the Union Pacific Railroad; Gilson Engineering, Vineyard, UT.** As Structural Engineer, Eric was responsible for the design and detailing of a 157-foot single span, four lane bridge over the Union Pacific railroad. The bridge design included seismic analysis and design details including integral abutments since the bridge is located in a seismic region.
02/04 – 12/08	**C-43 West Basin Storage Reservoir; Local Access Bridge; South Florida Water Management District Hendry County, FL.** Functioning as Structural Engineer, Eric was responsible for the design and detailing of a three span 193'-0" long concrete girder bridge over a canal. In addition to design for normal highway loading, the bridge was also checked for client specific crane loading.
01/90 – 04/08	**Golden Gate Parkway Grade Separated Overpass; Collier County, FL.** Eric served as the Structural Engineer responsible for the design and detailing of continuous steel box girders of a three span 517'-0' foot long bridge over an existing multi-lane roadway. The bridge carries six lanes of traffic over a Single Point Urban Interchange. Also provided post design services during the fabrication and erection phases of the girders.

Firm Employed By: Stanley Consultants, Inc.			
Name:	Dan Shiosaka, PE	**Years of relevant experience with this employer:**	31
Title:	Principal Structural Engineer	**Years of relevant experience with other employer(s):**	15
Degree(s) / Years / Specialization:		MS / 1991 / Civil Engineering; BS / 1977 / Civil Engineering	
Active Registration Number / State / Expiration Date:		PE #14083 / AZ / 6/30/2025	
Year Registered:	1981	**Discipline:**	Civil Engineering



Contract Role(s) / Brief Description of Responsibilities:

CONTRACT ROLE: Structures and Bridge Design

RESPONSIBILITIES: Assist with structural design and bridge planning/design.

Dan's 45 years of structural design will assist the team in the development of any structural aspect of the project.

PROFESSIONAL PROFILE: Dan will serve as Structural Engineer responsible for bridge designs. Dan's relevant experience includes designing bridge structures of steel, precast concrete, and cast-in-place concrete. The bridges have ranged in complexity from straight, single-span, precast prestressed concrete bridges to curvilinear, multi-span continuous, cast-in-place (CIP) posttensioned concrete bridges. His intuitive nature and focused mindset will help guide all structural related design tasks. Dan has served as Project Manager, Structural QA/QC Officer and Lead Structural Engineer on numerous transportation-related structures projects. His project management responsibilities have included budget and schedule control, contractor tendering, client liaison, contract administration, issuing change orders, evaluating and mitigating claims, preparing reports, and providing quality control and quality assurance. His experience includes preparing structure selection reports, type/size/location studies and drawings, and developing contract plans, specifications, and estimates (PS&E). Dan is additionally experienced in the use of several structural engineering software applications.

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).
01/17 – 09/20	**Bootlegger Road Mill and Overlay and Bootlegger Road Bridge Design, St. Tammany Parish, LA:** St. Tammany Parish Government: Serving as Structural Engineer QA/QC Officer, Dan was responsible for final review of the design and plan production for this bridge replacement project. The scope of work consisted of replacement the existing timber bridge with a new concrete flat slab bridge. The new bridge was widened to include two 12-ft lanes with 4-ft shoulders and a 12-ft shared use path. The new bridge was lengthened to match new H&H requirements and to allow for new piles to be driven to clear the existing piles. The new bridge foundation consisted of pile caps and 16-in prestress, precast concrete piles.
09/16 – 05/21	**I-12, LA 21 to US 190 Widening Design, St. Tammany Parish, LA; DOTD:** Serving as Structural Engineer QA/QC Officer, Dan was responsible for the final review of the design and plan productions for the design of roadway median concrete barrier walls along the I-12 corridor. The project included the design of 36", 48", and 54" barriers walls. The design analyzed the stability of the barrier walls for vehicle impacts and traffic live loads and then developed the reinforced concrete design for each of the barrier types. The project also included an analysis of the Tchefuncte River Bridge piling for boat impact.

Firm Employed By: Stanley Consultants, Inc.	
11/15 – 04/21	**I-19 / SR86 Ajo Way TI, Southcentral District, Tucson, AZ; Arizona Department of Transportation:** As Structural QA/QC Manager, Dan helped to provide structural work, inclusive of the Michigan St pedestrian bridge and SR-86 Ajo Way Santa Cruz River Bridge replacements; completion of the Rodeo Wash RC box culvert and I-19 sound barrier walls south of Michigan St and along the south side of SR-86 Ajo Way. The project consisted of two construction phases to replace a narrow old Partial Cloverleaf (Par-Clo) traffic interchange with a wide modern Single Point Urban Interchange (SPUI). The phases are segregated to suit two ADOT fiscal year funding appropriations. Phase I concluded in the Spring 2018. Structural work included TI Underpass replacement; a new 4-span Entrance Ramp A (SB) bridge with a straddle bent over Irvington Rd Exit Ramp C (SB), and sound barrier walls along I-19 NB & SB from SR-86 Ajo Way to Michigan St. A new RC box culvert conveys Rodeo Wash beneath SR-86 Ajo Way, built in a matching twophase manner.
06/18 – 03/22	**I-10, Houghton Road Transportation Interchange, Final Design, Tucson, AZ; Arizona Department of Transportation:** Structural Engineer responsible for pre-design Bridge Selection Report phase and final design QA/QC plan review phase of design by subconsultants. The project scope involves replacing of an old diamond TI configuration bridge with a new Diverging Diamond TI configuration bridge. Alignment improvements allow for "offline" construction while the old bridge remains in service. Maintenance of traffic criteria require complex construction sequence to make the conversion transitions.
12/18 – 04/22	**SR 24, Ellsworth Rd to Ironwood Rd, Mesa, AZ; Arizona Department of Transportation:** Design Manager responsible for design of five miles of urban freeway. The project includes utility and R/W clearances, environmental mitigation efforts, and coordination with ADOT, City of Mesa, Pinal County, FCDMC, and utilities. Construction includes new SR 24 mainline and ramp construction, crossroad construction, three mainline bridges, retaining walls, onsite and off-site drainage facilities, concrete channel, drainage basins, erosion control, traffic signals, FMS, lighting, signing/pavement marking, and traffic control. This is an extension of Dan's SR 24 Gateway/SR 202L Santan Fwy 4-Level System TI. It features dual OP bridges at the Ellsworth Road TI and Mountain Road. Pier-style exposed abutments in front and MSE walls behind simplifies/speeds design and construction. New AZ BT-girders and new partial depth precast prestressed concrete deck panels are ABC/PBES measures that Stanley Consultants brought to the table for the SR 202L South Mountain Freeway, corridor wide. The SR 24 bridges feature a first in Arizona configuration of "cookie cutter" modular precast pier cap beams at all abutments and piers. Sets of identical cap beams, each supporting multiple identical girders, and supported upon identical columns create true modular substructure. Ellsworth Road will be constructed full-width. Mountain Road will be designed for full envisioned width but built for interim use to accommodate future compatible/matching median in-fill widening.
07/05 – 07/12	**Red Mountain Freeway Power to University, Mesa, AZ; Arizona Department of Transportation:** As Design Manager, Dan was responsible for the multi-discipline final design and construction documents for five miles of new urban freeway with three service TIs. The project included utility, right-of-way and environmental clearances and coordination with ADOT, City of Mesa, FCDMC, NRCS, ADEQ, CAP, and numerous utilities.
04/17 – 03/22	**North I-25, Johnstown to Fort Collins Design-Build, Confidential Client, CO:** Traffic Engineer responsible for coordinating the approval of the railroad crossing on the I-25 frontage road just north of County Road 20E. This included an application to the local PUC (Public Regulation Commission) to approve the new rail crossing. This required coordination with the contractor, the railroad owner, CDOT and the PUC. The application included preliminary rail crossing layouts following CDOT and the Railroad standards. Evaluation of the existing crossing and the future crossing for safety.

Firm Employed By: Crescent Engineering & Mapping, LLC					
Name:	Dennis M. Hymel, Jr., PE		**Years of relevant experience with this employer:**	2	
Title:	Supervising Engineer / Manager		**Years of relevant experience with other employer(s):**	17	
Degree(s) / Years / Specialization:			Bachelor of Science / 2009 / Civil Engineering		
Active Registration Number / State / Expiration Date:			38172 / LA / 9/30/2025		
Year Registered:	2013	**Discipline:**	Civil Engineering		
Contract Role(s) / Brief Description of Responsibilities:			Roadway and Bridge Design. **Dennis' experience fulfills MPRs 4 & 5.**		

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).
03/14 – 08/21 (previous employer)	**S.P. H.004113, I-12 to Bush: LA 3241 (LA 435 to LA 40/41), St. Tammany Parish, LA (LADOTD)** – Project Manager/ Engineer of Record. Performed field and office QC of topographic surveys, lead the design team as EOR and was responsible for all roadway design elements including hydraulics, roadway H&V geometrics, superelevation, intersection design, R-CUT intersections, prepared Level 3 Traffic Management Plan, prepared roadway plans, served as bridge design QC engineer for twin 4-span AASHTO Type III girder bridges over Talisheek Creek, oversaw entire plan production for 5.5-mile, greenfield, new corridor including a four-lane rural roadway from LA 435 to Bush, LA.
09/16 – 08/21 (previous employer)	**S.P. H.011152, I-12 Widening (US 190 to LA 59), St. Tammany Parish, LA (LADOTD)** – Project Manager/Engineer of Record. Responsible for all roadway design including H&V geometrics and drainage, prepared Level 4 TMP and construction phasing plans. Designed single slope TL-4 median barriers on concrete footings, special median barrier transitions for lighting, overhead signs and ITS/DMS, prepared ERDD document and EOR for all permanent interstate signing; Bridge Design Engineer and QC for the widening of Pontchatolawa Creek (25' skewed RC Slabs) and Tammany Trace bridges (AASHTO Type III prestressed girders with varying skewed, bobtail spans), LRFR for all structures. Performed Construction Support Services. Design completed under an accelerated project schedule.
03/15 – 05/18 (previous employer)	**S.P. H.004932, I-49 South @ LA 318 Interchange, St. Mary Parish. LA (LADOTD)** – Project Manager & Engineer of Record. Responsible for Design-Build team coordination, Value Engineering Assessment, roadway geometric design including H&V geometry, hydraulic design including SDP, SD and CDP, intersection layout and design, striping/signing, Level 3 TMP, environmental support including public hearings, led plan production and design of nearly (3) miles of frontage roads for I-49 South.
05/22 – Ongoing	**EN22-0181, Rousseau Rd. Bridge over Tchefuncte River, St. Tammany Parish, LA (St. Tammany Parish Government)** - Project Manager/Engineer of Record. Performed review of topographic surveys, QC of roadway design, H&V geometrics, hydraulics, EOR for Urban bridge design elements including special span/bents, LRFR of replacement bridge and rehabilitated structure, bridge rehabilitation design using steel framed helper bents, environmental assistance, and subconsultant coordination for the replacement of the existing 4-span vehicular near Covington, LA.
03/22 – Ongoing	**S.P. H.015333, H.015404, H.015407 – Tangipahoa IIJA Bridge Replacements, Tangipahoa Parish, LA (LADOTD)** – Project Manager/EOR. Performed QC review of topographic surveys, EOR for hydraulic analysis, EOR for roadway and bridge design elements including H&V geometry, roadside drainage, QA of plan production, LRFR for RCB structures for the replacement of 5 bridge sites Parish-wide in Tangipahoa with RC Slab spans and RCB's.
09/18 – 08/21 (previous employer)	**S.P. H.001344, US 190: LA 437 to US 190 BUS (Ph. 1), St. Tammany Parish (LADOTD)** – Supervising/QC Engineer. QC/QA of roadway design elements including horizontal and vertical geometry, intersection design, oversight of roadway plan production for one mile, 5-lane urban roadway reconstruction. Responsible for bridge design report, bridge design, and QC of bridge plan development and LRFR for a horizontally curved, superelevated, 1400-foot-long bridge over the Bouge Falaya River using LG 36 and LG 54 prestressed concrete girders, rectangular column bents, low water pier foundations. Coordinated utility conflicts and relocations, prepared cost estimates.

Firm Employed By: Crescent Engineering & Mapping, LLC	
05/20 – 08/21 (previous employer)	**Contract 44-17598 – Rural Bridge Replacement Initiative Phase I (47 bridge structures), Districts 04, 05, 08, 58 (LADOTD)** – Project Manager/Engineer of Record. Led contract negotiations, performed QC review of topographic surveys, served as the EOR for roadway, geometrics, and bridge design elements including hydraulics analysis, scour, horizontal/vertical alignments, Level 1&2 TMP, bridge design & LRFR (non-standard structures) including LG-25 girders, oversight of geotechnical services and environmental permitting, SOV's, CE document preparation and permitting the replacement of 47 bridge structures in northern Louisiana containing Fifteen (15) State Project Numbers.
02/18 – Ongoing	**ENG-17-013 & MA-23-01, LA 3127 Extension (LA 70 to LA 1), Ascension Parish, LA (Ascension Parish Government)** – Project Manager/EOR. At previous employer, SUE QL D-A EOR, QC of surveys, responsible for developing Stage 0 report, Line and Grade, roadway design and bridge design (LG-36 girders) for 175' bridge over Bayou Lafourche and curved RC Slab spans over Bayou Napoleon. Currently managing Environmental Assessment and responsible for roadway and bridge design of 8.5 mile, 4-lane, greenfield, new corridor project creating an evacuation route, industrial and heavy vehicle by-pass around Donaldsonville, LA.
12/22 – Ongoing	**S.P. H.014992, McHugh Road over Brushy Bayou, East Baton Rouge Parish, LA (LADOTD)** – Project Manager/EOR. Performed QA and oversight of roadway design, H&V geometry, EOR for Urban bridge design including special 25' spans/bents, cantilevered sidewalks on bridge with bike lanes, railing design, LRFR, environmental.
04/22 – Ongoing	**LA 3127 Widening (LA 20 to LA 3213), St. James Parish, LA (St. James Parish)** – Project Manager/EOR. Responsible for entire project including QC of topographic surveys, oversight of traffic analysis, drainage and hydraulic design, H&V geometry, project includes two multi-lane roundabouts, geotechnical, environmental for over 4 miles of arterial widening.
01/12 – 12/17 (previous employer)	**07-EXT-22, Bayou Gardens Blvd. Extension (LA 660 to LA 316), Terrebonne Parish, LA (Terrebonne Parish)** – Project Manager/Engineer of Record. QC of topographic surveys led roadway design including drainage, H&V geometry, superelevation, subsurface storm drainage, TMP, utility locates, utility relocation and coordination. Performed bridge design including curved, superelevated RC Slabs on special skew, LRFR, scour analysis, special pile supported approach slabs, oversight of CE&I and construction support services, LADOTD permitting and traffic approval for the 1.6 mile, 4-lane Urban roadway extension including signals and turn lanes on LA 660 and LA 316.
06/13 – 03/16 (previous employer)	**S.P. H.010559, Bayou Mercier Road/Berard Canal Bayou, St. Martin Parish, LA (LADOTD)** – Project Manager/Engineer of Record. Responsible for topographic surveys, performed roadway and bridge design including prestressed quad beam girder spans, special bents, LRFR, QC of hydraulic analysis and oversaw plan production for the 200' long replacement structure with special quad-beam spans near Catahoula, LA.
07/12 – 08/15 (previous employer)	**S.P. 713-29-0103, Tiger Drive Bridge over Bayou Lafourche, Lafourche Parish, LA (LADOTD)** – Project Manager/Lead Engineer. Performed roadway and bridge design including drainage, H&V geometry, urban bridge included special 23' spans, curved approach slabs, special bents for utility accommodations, steel cantilever bulkheads, reviewed shop drawings, provided construction support for the 183' long bridge replacement with signal upgrades.
02/10 – 01/12 (previous employer)	**S.P. 450-10-0159, I-10 Widening (Siegen Ln. to Highland Rd.), East Baton Rouge Parish, LA (LADOTD)** – Staff Engineer. Performed roadway design, H&V geometric design, drainage design for Interstate widening, construction support/coordination, designed minor structures including barriers and retaining walls, prepared roadway & structural plans and cost estimates.

Firm Employed By: Crescent Engineering & Mapping, LLC			
Name:	Paul L. Olivier, PE	**Years of relevant experience with this employer:**	1
Title:	Engineering Manager	**Years of relevant experience with other employer(s):**	13
Degree(s) / Years / Specialization:	Bachelor of Science / 2010 / Civil Engineering		
Active Registration Number / State / Expiration Date:	39967 / LA / 3/31/2024		
Year Registered:	2015	**Discipline:**	Civil Engineering
Contract Role(s) / Brief Description of Responsibilities:	Roadway Design		

03/14 – 01/23 (previous employer)	**S.P. H.004113, I-12 to Bush: LA 3241 (LA 435 to LA 40/41), St. Tammany Parish, LA (LADOTD)** – Lead Project Engineer. Led roadway design including hydraulics and drainage, roadway H&V geometrics, performed Inroads modeling, designed major drainage crossings with multi-cell RCB, , superelevation, intersection design, R-CUT intersections and directional median J-turns, roundabout layouts, permanent signing, pavement marking plans, calculated quantities, assisted with Level 3 TMP, led development of roadway plans, provided construction support for the 5.5-mile, greenfield, new corridor including a four-lane rural roadway from LA 435 to LA 41 in Bush, LA.
09/16 – 10/22 (previous employer)	**S.P. H.011152, I-12 Widening (US 190 to LA 59), St. Tammany Parish, LA (LADOTD)** – Lead Project Engineer. Led roadway design including clear & grubbing, H&V geometrics and drainage, prepared Level 4 TMP and construction phasing plans. Oversaw Inroads modeling and roadway preparation, guardrail design, temporary ramp design, led roadway plan production, performed quantity calculations, and oversaw plan development, assisted with construction support, RFI and shop drawing reviews, contractor coordination via Falcon, for the 4-mile widening of I-12 near Covington, LA. Design completed under an accelerated project schedule.
08/17 – 01/23 (previous employer)	**S.P. H.013116, LA 20 Widening (LA 307 to S. Vacherie), St. James & Lafourche Parishes, LA (LADOTD)** – Lead Project Engineer/Engineer of Record. Led roadway design for 2.7-mile asymmetrical widening of LA 20 to include 8' shoulders, responsible for roadway design including H&V geometry, drainage design, utility coordination, Level 3 TMP, traffic control plans, oversight of Inroads modeling and plan production, coordination with adjacent state projects.
02/23 – Ongoing	**LA 3127 Widening (LA 20 to LA 3213), St. James Parish, LA (St. James Parish)** – Lead Project Engineer. Lead engineer for roadway design including intersection layouts, roundabout layouts, alternatives analysis for traffic study, line and grade, drainage design, existing drainage maps, cost estimates, H&V geometry, subconsultant coordination and plan production for the 4-mile, 4-lane widening of LA 3127.
02/20 – 01/23 (previous employer)	**S.P. H.012812, US 190 Roundabouts @ Northshore & Camp Villere, St. Tammany Parish, LA (LADOTD)** – Project Manager/Lead Engineer. Performed roadway design including H&V geometry, drainage design, multi-lane roundabout design and layout, Inroads modeling, led plan production, quantity calculations, environmental support for the multi-lane roundabout at Northshore Dr. and the single lane roundabout at Camp Villere Rd. along US 190 near Slidell, LA.
09/18 – 03/22 (previous employer)	**S.P. H.001344, US 190: LA 437 – US 190 BUS (Ph. 1), St. Tammany Parish, LA (LADOTD)** – Project Manager/Engineer of Record. Responsible for and led roadway design for 1-mile Urban widening of US 190 to 5 lanes including storm drainage design, roadway H&V geometrics, superelevation, cross sectional elements, raised median sections, roadway plan production, oversight of Inroads modeling, prepared Level 4 TMP, temporary traffic control/signalization.
02/23 – Ongoing	**EN22-0181, Rousseau Rd. over Tchefuncte River, St. Tammany Parish, LA (St. Tammany Parish Government)** – Lead Engineer. Lead engineer responsible for roadway design for offset alignment, H&V geometrics, hydraulics, QA for bridge design elements including special span/bents, bridge rehabilitation, environmental assistance, and subconsultant coordination for the replacement of the existing 4-span vehicular near Covington, LA.

Firm Employed By: Crescent Engineering & Mapping, LLC	
02/23 – Ongoing	**S.P. Nos. H.015333, H.015404, H.015407 – Tangipahoa IIJA Bridge Replacements, Tangipahoa Parish, LA (LADOTD)** – Lead Engineer/EOR. Led design for roadway and bridge design elements including H&V geometry, QC of hydraulics and scour, roadside drainage, Level 1&2 TMP, construction phasing & detours, oversight of plan production for the replacement of 5 bridge sites Parish-wide in Tangipahoa as part of the Infrastructure Law (IIJA) program.
04/23 – Ongoing	**S.P. H.014984, Libuse Cutoff Road/Flagon Bayou, Rapides Parish, LA (LADOTD)** – Lead Engineer/Engineer of Record. Lead engineer for roadway design including re-alignment of site, H&V geometry, superelevation, drainage design, hydraulics and scour analysis, construction phasing, oversight of plan production and Inroads modeling.
03/15 – 05/18 (previous employer)	**S.P. H.004932, I-49 South @ LA 318 Interchange, St. Mary Parish. LA (LADOTD)** – Lead Project Engineer. Led roadway design including H&V geometry, hydraulic design including SDP, SD and CDP, intersection layout and design, striping/signing, assisted with Level 3 TMP and environmental support including public hearings, prepared roadway plans for the design of nearly **(3) miles of frontage roads for I-49 South**.
06/20 – 01/23 (previous employer)	**Contract 44-19336 – Rural Bridge Replacement Initiative Phase II (40 bridge structures), Districts 04, 05 (LADOTD)** – Project Manager/Engineer of Record. Performed QC review of topographic surveys, served as the EOR or Lead Engineer for roadway design, geometrics, and bridge design elements including hydraulics analysis, scour, horizontal/vertical alignments, Level 1&2 TMP, oversight of geotechnical services and environmental permitting, SOV's, CE document preparation and permitting the replacement of 40 bridge structures in northern Louisiana containing Twelve (12) State Project Numbers.
03/23 – Ongoing	**S.P. H.014992, McHugh Road over Brushy Bayou, East Baton Rouge Parish, LA (LADOTD)** – Project Engineer. Lead engineer for roadway design, H&V geometry, subsurface urban drainage design, bike path and pedestrian accommodations, QC of bridge hydraulic design and scour analysis, assist with bridge design and environmental.
01/12 – 12/17 (previous employer)	**07-EXT-22, Bayou Gardens Blvd. Extension (LA 660 to LA 316), Terrebonne Parish, LA (Terrebonne Parish)** – Project Engineer. Assisted with roadway design including drainage, H&V geometry, superelevation, subsurface storm drainage, TMP, utility relocation and coordination. Assisted with CE&I and construction support services, LADOTD permitting and traffic approval for the 1.6 mile, 4-lane Urban roadway extension including signals and turn lanes on LA 660 and LA 316.
09/18 – 08/19 (previous employer)	**S.P. H.003790, LA 930: LA 929 to LA 42, Ascension Parish (Ascension Parish Government)** – Lead Engineer/Engineer of Record. Responsible for all roadway design elements including typical sections, H&V geometry, intersection design, TMP, drainage design, clearing and grubbing, oversight of Inroads modeling and roadway plan production for the 1.4 mile widening and reconstruction of LA 930 near Prairieville, LA.
02/18 – 06/20 (previous employer)	**ENG-17-013, LA 3127 Extension (LA 70 to LA 1), Ascension Parish, LA (Ascension Parish Government)** – Project Engineer. Led roadway design for Line and grade and Stage 0 report, led preparation of roadway plans including H&V geometry, cross sectional elements, drainage design, intersection design, superelevation, clearing and grubbing, oversight of Inroads modeling for the 8.5 mile, 4-lane, greenfield, new corridor project creating an evacuation route, industrial and heavy vehicle by-pass around Donaldsonville, LA.

Firm Employed By: Crescent Engineering & Mapping, LLC			
Name:	Abbey F. Falcon, PE	**Years of relevant experience with this employer:**	1.5
Title:	Project Engineer	**Years of relevant experience with other employer(s):**	5
Degree(s) / Years / Specialization:	Bachelor of Science / 2017 / Civil Engineering		
Active Registration Number / State / Expiration Date:	46035 / LA / 3/31/2024		
Year Registered:	2021	**Discipline:**	Civil Engineering
Contract Role(s) / Brief Description of Responsibilities:	Bridge Design, hydraulics, scour analysis, plan production		

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).
07/22 – Ongoing	**S.P. H.015333, H.015404, H.015407 – Tangipahoa IIJA Bridge Replacements, Tangipahoa Parish, LA (LADOTD)** – Project Engineer/EOR. Responsible for bridge design, developed bridge TS&L, performed bridge hydraulics and scour analysis, developed roadway and bridge H&V geometry, prepared roadway and bridge plans, Inroads modeling, performed review of topographic surveys, EOR for 2 sites for the replacement of 5 bridge sites Parish-wide in Tangipahoa with RC Slab spans and RCB's.
12/22 – Ongoing	**SP H.014992, McHugh Road over Brushy Bayou, East Baton Rouge Parish, LA (LADOTD)** – Project Engineer, Hydraulic EOR. Lead/EOR for hydraulics analysis, lead design of roadway, H&V, road and bridge plan production, performed Inroads modeling, assist with bridge design elements including special span/bents, cantilevered sidewalks on bridge with bike lanes, railing design for the replacement of the existing vehicular and pedestrian bridges near Baker, LA.
12/22 – Ongoing	**S.P. H.015025, Mclin Road over Darling Creek, St. Helena Parish, LA (LADOTD)** – Lead Project Engineer/EOR. Responsible for all roadway and bridge design including H&V geometrics, drainage design, hydraulics and scour analysis, foundation layout, curved RC slab spans and approach slabs, guardrail design, GPE, on-site detour design, Inroads modeling, developed bridge TS&L, oversight of road and bridge plan production. Accelerated design schedule.
03/21 – 07/22 (previous employer)	**S.P. H.014233, LA 160: Cypress Bayou and Relief Bridges, Bossier Parish, LA (LADOTD)** – Lead/Engineer of Record. Responsible for all roadway and bridge design, bridge hydraulics & scour analysis, developed roadway and bridge H&V alignments, drainage design, bridge TS&L, prepared roadway and bridge plans up to 60% Final Plans, design criteria for the replacement of two (2) LADOTD On-System bridges.
03/21 – 07/22 (previous employer)	**SP H.014217, LA 537: Bridges Near Plain Dealing, Bossier Parish, LA (LADOTD)** – Lead/Engineer of Record. Responsible for all roadway and bridge design, bridge hydraulics & scour analysis, developed roadway and bridge H&V alignments, drainage design, bridge TS&L, prepared roadway and bridge plans up to 60% Final Plans, design criteria for the replacement of three (3) LADOTD On-System bridges.
04/23 – Ongoing	**Bridges Near Amite, Tangipahoa Parish, LA (Tangipahoa Parish)** – Lead Project Engineer/EOR. Responsible for all urban roadway and bridge design, developed structure alternatives and bridge TS&L, H&V geometry, urban drainage design, performed hydraulics analysis and scour, Inroads modeling, preparation of road and bridge plans for the replacement of three (3) bridge structures within Amite City, LA.
12/22 – 07/23	**S.P. H.014980, Chinaberry Dr. over Unnamed Coulee, Acadia Parish, LA (LADOTD)** – Project Engineer. Led roadway and bridge design, developed bridge TS&L, H&V geometry, drainage design, hydraulics analysis and scour, guardrail design, Inroads modeling, preparation of road and bridge plans for a 3-apns RC Slab replacement bridge.

Firm Employed By: Crescent Engineering & Mapping, LLC	
04/20 – 05/22 (previous employer)	**S.P. H.013955, LA 507, 514, Local: Bayou and Cr BRs, Red River Parish, LA (LADOTD)** – Lead/Engineer of Record. Responsible for all roadway and bridge design, bridge hydraulics & scour analysis, developed roadway and bridge H&V alignments, drainage design, bridge TS&L, curved bridge sites, prepared roadway and bridge plans, design criteria for the replacement of five (5) LADOTD On-System bridges and one (1) Off-System Bridge.
04/20 – 04/22 (previous employer)	**S.P. H.013987, LA 521: Bridges Near Dykesville, Claiborne Parish, LA (LADOTD)** – Lead/Engineer of Record. Responsible for all roadway and bridge design, bridge hydraulics & scour analysis, developed roadway and bridge H&V alignments, superelevation, drainage, bridge TS&L, prepared roadway and bridge plans, design report & criteria forms for the replacement of three (3) LADOTD On-System bridges.
03/21 – 07/22 (previous employer)	**S.P. H.014231, LA 153: Topy Creek Relief & Drain Bridges, Bienville Parish, LA (LADOTD)** – Lead/Engineer of Record. Responsible for all roadway and bridge design, bridge hydraulics & scour, developed roadway and bridge H&V alignments, drainage design, bridge TS&L, prepared roadway and bridge plans up to 60% Prelim Plans for the replacement of four (4) LADOTD On-System bridges.
06/22 – Ongoing	**EN22-0181, Rousseau Rd. over Tchefuncte River, St. Tammany Parish, LA (St. Tammany Parish Government)** – Project Engineer. Developed roadway design for offset alignment, H&V geometrics, hydraulics, assisted with bridge design elements including special span/bents, bridge TS&L development, environmental assistance, and subconsultant coordination for the replacement of the existing 4-span bridge near Covington, LA.
06/18 – 04/21 (previous employer)	**S.P. H.013080, McLemore Road/Bee Bayou, Richland Parish, LA (LADOTD)** – Project Engineer – Assisted with roadway and bridge design including Inroads modeling, geometrics, bridge TS&L, hydraulics, foundation layout, and bridge plan production for the 6-span Off-System bridge replacement near Rayville, LA.
05/17 – 08/21 (previous employer)	**S.P. H.004113, I-12 to Bush: LA 3241 (LA 435 to LA 40/41), St. Tammany Parish, LA (LADOTD)** – Project Engineer. Assisted with all roadway design elements on the 5.5 rural, 4-lane corridor project including geometrics and drainage design. Prepared quantities, performed Inroads roadway modeling, prepared summary sheets, typical sections, detailing, Sequence of Construction sheets, prepared preliminary and final roadway plans.
07/17 – 09/18 (previous employer)	**SP No. H.011540, Babin Road Bridge/Bayou Narcisse, Ascension Parish, LA (LADOTD)** – Engineering Support. Assisted with H&V geometrics, roadway drainage design, roadway and bridge plan production, Inroads modeling, quantity calculations for the 3-span Off-System bridge near Gonzales, LA.
04/20 – 04/22 (previous employer)	**S.P. H.013953, McManus Road Bridge/Cypress Creek, Richland Parish, LA (LADOTD)** – Lead/Engineer of Record. Responsible for all roadway and bridge design, bridge hydraulics & scour analysis, developed roadway and bridge H&V alignments, drainage design, prepared bridge TS&L, prepared roadway and bridge plans, design report forms, design criteria for the eight (8) span Off-System bridge replacement.

Firm Employed By: Crescent Engineering & Mapping, LLC			
Name:	James P. Ledet, PE, F. ACEC	**Years of relevant experience with this employer:**	1
Title:	Quality Control Engineer	**Years of relevant experience with other employer(s):**	44
Degree(s) / Years / Specialization:	Bachelor of Science / 1982 / Civil Engineering		
Active Registration Number / State / Expiration Date:	22428 / LA / 3/31/2024		
Year Registered:	1986	**Discipline:**	Civil Engineering
Contract Role(s) / Brief Description of Responsibilities:	Bridge Design Quality Control Manager		

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).
07/22 – Ongoing	**S.P. H.015333, H.015404, H.015407 – Tangipahoa IIJA Bridge Replacements, Tangipahoa Parish, LA (LADOTD)** – Quality Control Engineer. Responsible for QC reviews of roadway and bridge design including bridge TS&L, bridge hydraulics and scour analysis, roadway and bridge H&V geometry, reviewed roadway and bridge plans and bridge details, review calculations for the replacement of 5 bridge sites Parish-wide in Tangipahoa with RC Slabs and RCB's.
12/22 – Ongoing	**S.P. H.014992, McHugh Road over Brushy Bayou, East Baton Rouge Parish, LA (LADOTD)** – Quality Control Engineer. Responsible for QC reviews of roadway and bridge design including bridge TS&L, bridge hydraulics and scour analysis, roadway and bridge H&V geometry, reviewed roadway and bridge plans and bridge details, review calculations for the replacement structure using special 25' spans, special bents and cantilevered sidewalks for the replacement of the existing vehicular and pedestrian bridges near Baker, LA.
12/22 – Ongoing	**S.P. H.015025, Mclin Road over Darling Creek, St. Helena Parish, LA (LADOTD)** – Quality Control Engineer. Responsible for QC reviews of roadway and bridge design including bridge TS&L, bridge hydraulics and scour analysis, roadway and bridge H&V geometry, reviewed roadway and bridge plans and bridge details, review calculations for the 3-span curved replacement structure. Accelerated design schedule.
05/15 – 08/17 (previous employer)	**S.P. H.004113, I-12 to Bush: LA 3241 (LA 435 to LA 40/41), St. Tammany Parish, LA (LADOTD)** – Senior Supervising Engineer. Supervision and oversight of roadway design including QC of hydraulic analysis, geometrics and supervision of plan production for the new 5.5-mile, four-lane RA-3 roadway from LA 435 to Bush, LA.
11/13 – 11/18 (previous employer)	**S.P. H.010557, Lajaunie Road/Lateral 1 Bridge over Bayou St. Clair, Lafayette Parish, LA (LADOTD)** – Senior Professional/QA/QC. Supervision of topographic surveying and engineering design including roadway and bridge design for preliminary plans of the 80' RC Slab and quad-beam, superelevated, curved Off-System bridge structure including roadway upgrades to RL-3 criteria.
04/23 – Ongoing	**Bridges Near Amite, Tangipahoa Parish, LA (Tangipahoa Parish)** – Quality Control Engineer. Responsible for QC reviews of hydraulics and bridge design including bridge TS&L of alternatives including RC slabs and RCB's, bridge hydraulics and scour analysis, bridge H&V geometry, review calculations and plan production/details, urban drainage design, for the replacement of three (3) bridge structures within Amite City, LA.

Firm Employed By: Crescent Engineering & Mapping, LLC	
11/10 – 06/14 (previous employer)	**S.P. 713-29-0103, Tiger Drive Bridge over Bayou Lafourche, Lafourche Parish, LA (LADOTD)** – Engineer of Record. Responsible for topographic surveying, roadway design including approaches, utility relocations, bulkheads and drainage, and bridge design including special RC slabs, curved spans, special bents and rail elements, oversight of construction support and shop drawing review for the 183' long Urban bridge replacement.
03/10 – 05/14 (previous employer)	**S.P. 713-04-0002, LA 400 Bridge over Cancienne Canal, Assumption Parish, LA (LADOTD)** – Engineer of Record. Responsible for topographic surveying, roadway design including approaches, and bridge design, supervised roadway and bridge plan production including bridge details, roadway details for the 7-span off-system bridge replacement.
10/09 – 11/17 (previous employer)	**07-EXT-22, Bayou Gardens Blvd. Extension: LA 660 to LA 316, Terrebonne Parish, LA (Terrebonne Parish Consolidated Government)** – Engineer of Record (Ph. I)/Supervising Engineer (Ph. II). Responsible for topographic surveying, oversight of roadway design including drainage and geometrics, and oversight of 160' RC Slab Span bridge design including special/curved spans for 1.6-mile, four-lane roadway extension (UA-2) including signal upgrades and turn lanes on state routes.
1997 – 2011 (previous employer)	**S.P. 713-55-0100, St. Ann Bridge Replacement, Terrebonne Parish, LA (LADOTD)** – Engineer of Record. Responsible for topographic surveying and all roadway design aspects, bridge design and approaches for the Off-System moveable bridge replacement with a single-leaf, bascule span bridge.
02/05 – 05/08 (previous employer)	**S.P. 246-01-0054, Route LA 57: Grand Caillou Road, Terrebonne Parish, LA (LADOTD)** – Engineer of Record. Responsible for all roadway design aspects including and subsurface drainage design; construction support and topographic survey for two-mile long UA-2, five-lane widening project.
11/99 – 01/01 (previous employer)	**S.P. 742-07-0019, Bayou Gardens Blvd. Widening: LA 659 to Alma St., Terrebonne Parish, LA (LADOTD)** – Engineer of Record/Project Manager. Responsible for topographic surveying, roadway design including geometrics and intersection improvements and subsurface drainage design for the one-mile UA-2 widening project.
1994 – 1997 (previous employer)	**S.P. 413-01-0011, Hollywood Rd./LA 311 Intersection Improvements/Bridge Replacement, Terrebonne Parish, LA (LADOTD)** – Engineer of Record/Project Manager. Responsible for design of roadway, hydraulics, utility relocations, drainage improvements, bulkheads and bridge design services for intersection improvement and Off-System bridge replacement project.
1994 – 1995 (previous employer)	**S.P. 742-05-0042, Combon Bridge and Approaches, Terrebonne Parish, LA (LADOTD)** – Project Manager. Responsible for EIS document and design supervision of the Off-System 100 Ft. vertical lift span across Grand Caillou including roadway approaches and shop drawing reviews during construction.
1985 – 1991 (previous employer)	**S.P. 700-26-100, Off-System Bridge Replacement Program, Lafourche Parish, LA (LADOTD)** – Engineer of Record/ Project Manager. Responsible for engineering design services for the replacement of four (4) Off-System bridges and associated roadway approaches: S.P. 713-46-98, Parish Road 16 (Choctaw Road) over St. James Canal; S.P. 713-53-93, Parish Road 18 (60 Arpent Road) over Bayou Boudreaux; S.P. 713-53-94, Parish Road 11 (Lepine Rd. #1) over unnamed canal; and S.P. 713-53-92 Parish Road 579 (Hamilton Road) over 40 Arpent Canal.
1984 – 1986 (previous employer)	**S.P. 855-14-08 & 65-90-23, LA 3087: Bridge over Bayou Terrebonne at East Street, Terrebonne Parish, LA (LADOTD)** – Project Manager. Responsible for the roadway and bridge design services to retrofit the existing Prospect Street bridge to be relocated to construct a vertical lift bridge at East Street, and associated intersection improvements at LA 24 and LA 659.

Firm Employed By: Crescent Engineering & Mapping, LLC			
Name:	Luke Bourg	**Years of relevant experience with this employer:**	<1
Title:	Senior Technician	**Years of relevant experience with other employer(s):**	15
Degree(s) / Years / Specialization:	Associate of Applied Science / 2008 / Drafting and Design		
Active Registration Number / State / Expiration Date:	N/A		
Year Registered:	N/A	**Discipline:**	N/A
Contract Role(s) / Brief Description of Responsibilities:	Sr. Design Technician. Luke will be responsible for preparation of bridge plans and details.		

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).
05/23 – Ongoing	**S.P. H.014992, McHugh Road over Brushy Bayou, East Baton Rouge Parish, LA (LADOTD)** – Sr. Project Technician. Responsible for roadway and bridge plan development, Microstation drafting and Inroads modeling of roadway corridor including sidewalks, preparation of plan/profile, typical sections, cross sections, geometric layouts and details. Prepared bridge plans including GPE, typical sections, foundation layouts and details of cantilevered sidewalks for the replacement of the existing vehicular and pedestrian bridges near Baker, LA.
09/18 – 03/22 (previous employer)	**SP H.001344, US 190: LA 437 – US 190 BUS (Ph. 1), St. Tammany Parish (LADOTD)** – Sr. Project Technician. Responsible for bridge plan development, Microstation drafting and Inroads modeling, preparation of plan/profile, typical sections, cross sections, geometric layouts and details. Prepared bridge plans including span and bent details, footing details, LG girder details, framing plans, GPE, typical sections, approach slabs, retaining walls, foundation plan, pile layouts, bridge elevations schedule, girder data and camber tables and developed bridge quantities for an Urban 1,485 foot long LG 54/LG36 bridge along the 1 mile for the 5-lane widening section in Covington, LA.
05/23 – Ongoing	**EN22-0181, Rousseau Rd. over Tchefuncte River, St. Tammany Parish, LA (St. Tammany Parish Government)** – Sr. Project Technician. Responsible for roadway and bridge plan development, Microstation drafting and Inroads modeling of roadway corridor, preparation of plan/profile, typical sections, cross sections and bridge plans for the replacement of the existing 4-span vehicular near Covington, LA.
09/16 – 08/21 (previous employer)	**SP No. H.011152, I-12 Widening (US 190 to LA 59), St. Tammany Parish, LA (LADOTD)** – Sr. Project Technician. Responsible for roadway and bridge plan development, Microstation drafting for the 4-mile widening of I-12 near Covington, LA including four (4) bridge structures, prepared bridge typical sections, GPE, span and bent details, AASHTO Type III girder details, framing plans, foundation plans, approach slab details, miscellaneous details, foundation and pile layouts, girder data and camber tables, developed bridge quantities, barrier details. Accelerated project schedule.
05/23 – Ongoing	**Bridges Near Amite, Tangipahoa Parish, LA (Tangipahoa Parish)** – Sr. Project Technician. Responsible for roadway and bridge plan development, Microstation drafting and Inroads modeling of roadway corridor, preparation of plan/profile, typical sections, cross sections, geometric layouts and details. Prepared bridge plans including GPE, typical sections, foundation layouts for the replacement of three (3) bridge structures within Amite City, LA.
05/23 – Ongoing	**SP Nos. H.015333, H.015404, H.015407 – Tangipahoa IIJA Bridge Replacements, Tangipahoa Parish, LA (LADOTD)** – Sr. Project Technician. Responsible for roadway and bridge plan development including Microstation drafting and Inroads modeling of roadway corridor, preparation of plan/profile, typical sections, cross sections and bridge plans for the replacement of five (5) bridge sites throughout Tangipahoa Parish.

Firm Employed By: Crescent Engineering & Mapping, LLC			
Name:	Matthew J. Ledet, PLS	**Years of relevant experience with this employer:**	1.5
Title:	Survey Manager	**Years of relevant experience with other employer(s):**	17
Degree(s) / Years / Specialization:	BS / 2008 / Manufacturing Engineering Technology BS / 2010 / Geomatics		
Active Registration Number / State / Expiration Date:	5104 / LA / 9/30/2024		
Year Registered:	2014	**Discipline:**	PLS/Surveying
Contract Role(s) / Brief Description of Responsibilities:	Matt will serve as Surveyor of Record and will lead the topographic surveys for Crescent. **Matt's experience fulfills MPR #9.**		

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).
04/14 – 12/18 (previous employer)	**S.P. H.004113, I-12 to Bush: LA 3241 (LA 435 to LA 40/41), St. Tammany Parish, LA (LADOTD)** – Lead/Surveyor of Record. Led topographic survey, performed data processing and corrections, coordinated survey field crews for the topographic surveys of 5.5 miles of virgin, wooded, greenfield terrain with a 300' wide .DTM, including control densification and SUE locates. Prepared all topo survey deliverables. Performed property surveys and created 60% Base and Final R/W maps including 101 parcels for the 5.5-mile, four-lane, new corridor roadway from Talisheek to Bush, LA.
04/22 – 02/23	**LA 3127 Widening (LA 20 to LA 3213), St. James Parish, LA (St. James Parish)** – Lead/Surveyor of Record. Led topographic survey, performed and reviewed data processing and corrections, performed digital leveling of control monuments, coordinated survey field crews for the topographic surveys of 4.5 miles of roadway widening with a 350' wide. DTM in accordance with LADOTD survey standards using Microstation/Inroads and CAD conform including GPS control establishment and SUE locates. Oversaw preparation of control and topo survey deliverables.
02/18 – 12/18 (previous employer)	**ENG-17-013, LA 3127 Extension (LA 70 to LA 1), Ascension Parish, LA (Ascension Parish Government)** – Lead/Surveyor of Record. Led topographic survey, performed and reviewed data processing and corrections, digital leveling of control monuments, coordinated survey field crews for the topographic surveys of 6.8 miles of virgin, wooded, greenfield terrain with a 350' wide. DTM in accordance with LADOTD survey standards using Microstation/Inroads and CAD conform including GPS control establishment and SUE locates. Performed title take offs, property surveys, prepared base right of way maps including 12 parcels for the 6.8-mile roadway extension project including several bridge sites.
03/22 – 07/22	**S.P. H.015333, H.015404, H.015407 – Tangipahoa IIJA Bridge Replacements, Tangipahoa Parish, LA (LADOTD)** – Lead/Surveyor of Record. Responsible for topographic surveys, crew coordination, data processing, existing drainage maps, GPS control establishment and digital leveling for the replacement of 5 bridge sites Parish-wide in Tangipahoa with RC Slab spans and RCB's.
08/22 – 10/22	**S.P. H.015101, Lowes Ave at LA 44 Roundabout, Ascension Parish, LA (Ascension Parish Government) -** Lead/Surveyor of Record. Led urban topographic survey effort including survey of existing roadway, sidewalks, utilities, bridge and storm drainage systems along LA 44 and Lowes Ave in Gonzales for the design of a multi-lane roundabout, performed GPS control establishment and digital levels, field reconnaissance, field packs, processed data and prepared LADOTD topographic survey deliverables.

Firm Employed By: Crescent Engineering & Mapping, LLC	
05/20 – 12/21 (previous employer)	**Contract 44-17598 – Rural Bridge Replacement Initiative Phase I (47 bridge structures), Districts 04, 05, 08, 58 (LADOTD)** – Lead Surveyor/ Surveyor of Record. Led survey effort including GPS control establishment, topographic surveys, data processing, deliverable preparation, property surveys and Right of Way Mapping for the replacement of 47 bridge structures in northern Louisiana containing nine (9) OffSystem Bridges.
04/16 – 08/21 (previous employer)	**S.P. H.013116, LA 20 Widening (LA 307 to S. Vacherie), St. James & Lafourche Parishes (LADOTD)** – Surveyor of Record, Lead Surveyor. Led topographic survey effort for the 2.7-mile rural safety widening project including control establishment, topographic surveys, and property surveys. Performed field reconnaissance, prepared survey field crew packs, processed data and prepared deliverables. Prepared base and Final Right of Way Maps including 9 parcels.
05/22 – 09/22	**EN22-0181, Rousseau Rd. over Tchefuncte River, St. Tammany Parish, LA (St. Tammany Parish Government)** - Lead/Surveyor of Record. Led topographic survey effort for the replacement of 4-span bridge with a new 5-span bridge including roadway and bicycle lanes, GPS control establishment, field reconnaissance, field packs, processed data and prepared LADOTD topographic survey deliverables.
03/23 – 07/23	**LA 44 at LA 621 Roundabout, Ascension Parish, LA (Ascension Parish Government)** - Lead/Surveyor of Record. Led urban topographic survey effort including survey of existing roadway, sidewalks, utilities, bridges and storm drainage systems along LA 44 and LA 621 in Gonzales for the design of a multi-lane roundabout, performed GPS control establishment and digital levels, field reconnaissance, field packs, processed data and prepared LADOTD topographic survey deliverables.
07/21 – 12/21 (previous employer)	**Contract 44-19336 – Rural Bridge Replacement Initiative Phase II (40 bridge structures), Districts 04 & 05, (LADOTD)** – Lead Surveyor/ Surveyor of Record. Led survey effort including GPS control establishment, topographic surveys, data processing, deliverable preparation for the replacement of 40 bridge structures in northern Louisiana.
04/23 – 08/23	**Bridges Near Amite, Tangipahoa Parish, LA (Tangipahoa Parish)** – Lead/Surveyor of Record. Responsible for topographic surveys, crew coordination, data processing, existing drainage maps, GPS control establishment and digital leveling, prepared LADOTD topo survey deliverables using Microstation, Inroads and Cad Conform for the replacement of three (3) bridge structures within Amite City, LA
12/22 – 04/23	**S.P. H.014980, Chinaberry Dr. over Unnamed Coulee, Acadia Parish, LA (LADOTD)** – Lead/Surveyor of Record. Responsible for topographic surveys, crew coordination, data processing, existing drainage maps, GPS control establishment and digital leveling, deliverables for LADOTD bridge replacement project.
04/23 – 05/23	**S.P. H.014984, Libuse Cutoff Road/Flagon Bayou, Rapides Parish, LA (LADOTD)** – Lead/Surveyor of Record. Responsible for topographic surveys, crew coordination, data processing, existing drainage maps, GPS control establishment and digital leveling, deliverables for LADOTD bridge replacement project.
04/23 – 05/23	**S.P. H.015025, Mclin Road over Darling Creek, St. Helena Parish, LA (LADOTD)** – Lead/Surveyor of Record. Responsible for topographic surveys, crew coordination, data processing, existing drainage maps, GPS control establishment and digital leveling, offset alignment, deliverables for LADOTD bridge replacement project.
02/11 – 01/13 (previous employer)	**S.P. 713-29-0103, Tiger Drive Bridge over Bayou Lafourche, Lafourche Parish, LA (LADOTD)** – Survey Support. Performed field topographic and property surveys, prepared topographic survey deliverables, prepared base, and final right of way maps for the urban, 3-lane Off-System Bridge replacement project in Thibodaux, LA.

Firm employed by: Crescent Engineering & Mapping, LLC			
Name	Kelly G. Jones	**Years of relevant experience with this employer**	1
Title	Senior Technician	**Years of relevant experience with other employer(s)**	3
Degree(s) / Years / Specialization		BA / 2012 / Mathematics & English	
Active registration number / state / expiration date		N/A	
Year registered	N/A	**Discipline**	N/A
Contract role(s) / brief description of responsibilities		Survey. Kelly will assist with the preparation of topographic surveys, GPS control documentation and survey 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 time specified in the applicable MPR(s).
08/22 – 10/22	**S.P. H.015101, Lowes Ave at LA 44 Roundabout, Ascension Parish, LA (Ascension Parish Government)** - Project Technician. Processed survey data and prepared survey deliverables for the survey of existing roadway, sidewalks, utilities, bridge and storm drainage systems along LA 44 and Lowes Ave in Gonzales, LA for the design of a multi-lane roundabout, prepared GPS control sketches, survey alignments, survey. DTM surfaces, prepared survey control reports, forms and letters for the LADOTD topographic survey deliverables.
04/22 – 02/23	**LA 3127 Widening (LA 20 to LA 3213), St. James Parish, LA (St. James Parish)** – Project Technician. Processed survey data and prepared survey deliverables for the survey of 4.5 miles of roadway widening with a 350' wide. DTM, utilities, prepared GPS control sketches, survey alignments, survey .DTM surfaces, prepared survey control reports, forms and letters for the LADOTD topographic survey deliverables in Microstation, Inroads and CAD Conform.
04/23 – 08/23	**Tammany Trace Connection to Heritage Park, St. Tammany Parish, LA (St. Tammany Parish Government)** – Project Technician. Processed survey data and prepared survey deliverables for the "rails to trails" conversion project of the abandoned Illinois Central Gulf corridor including GPS control sketches, survey alignments, survey. DTM surfaces, prepared survey control reports, forms and letters to LADOTD Standards for the 2.4 mile path segment near Slidell, LA.
04/22 – 08/22	**S.P. H.015333, H.015404, H.015407 – Tangipahoa IIJA Bridge Replacements, Tangipahoa Parish, LA (LADOTD)** – Project Technician. Processed survey data and prepared survey deliverables for the survey of 4 bridge sites, prepared GPS control sketches, survey alignments, survey. DTM surfaces, prepared survey control reports, forms and letters for the LADOTD topographic survey deliverables in Microstation, Inroads and CAD Conform.
03/23 – 07/23	**LA 44 at LA 621 Roundabout, Ascension Parish, LA (Ascension Parish Government)** - Project Technician. Processed survey data and prepared survey deliverables for the survey of existing roadway, sidewalks, utilities, bridge and storm drainage systems along LA 44 and LA 621 in Gonzales, LA for the design of a multi-lane roundabout, GPS control sketches, survey alignments, survey. DTM surfaces, prepared survey control reports, forms and letters for the LADOTD topographic survey deliverables.
04/23 – 08/23	**Bridges Near Amite, Tangipahoa Parish, LA (Tangipahoa Parish)** – Project Technician. Processed survey data and prepared survey deliverables for the survey of 3 bridge sites, prepared GPS control sketches, survey alignments, survey. DTM surfaces, prepared survey control reports, forms and letters for the LADOTD topographic survey deliverables in Microstation, Inroads and CAD Conform.
12/22 – 04/23	**S.P. H.014980, Chinaberry Dr. over Unnamed Coulee, Acadia Parish, LA (LADOTD)** – Project Technician. Processed survey data and prepared survey deliverables for the survey of a single bridge replacement, prepared GPS control sketches, survey alignments, survey. DTM surfaces, prepared survey control reports, forms and letters and LADOTD survey deliverables in Microstation, Inroads and CAD Conform.

Firm Employed By: Crescent Engineering & Mapping, LLC			
Name:	Dakotah "Kody" Holley	**Years of relevant experience with this employer:**	1.5
Title:	Survey Party Chief	**Years of relevant experience with other employer(s):**	4
Degree(s) / Years / Specialization:	High School Diploma / 2017		
Active Registration Number / State / Expiration Date:	N/A		
Year Registered: N/A	**Discipline:** N/A		
Contract Role(s) / Brief Description of Responsibilities:	Survey Party Chief		

Experience Dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
08/22 – 10/22	**S.P. H.015101, Lowes Ave at LA 44 Roundabout, Ascension Parish, LA (Ascension Parish Government)** – Party Chief. Performed GPS static control establishment, digital levels, urban field topographic surveys of the existing roadway, sidewalks, utilities, bridges and other features, with a 180' wide full .DTM survey using LADOTD codes and procedures.
06/22 – 01/23	**LA 3127 Widening (LA 20 to LA 3213), St. James Parish, LA (St. James Parish)** – Party Chief. Performed GPS static control establishment, 8 miles of digital levels, field topographic surveys of the existing roadway, utilities, SUE locates, drainage and other features, survey for existing drainage map features for the survey of 4.5 miles of roadway widening with a 350' wide .DTM, using LADOTD codes and procedures.
04/23 – 08/23	**Tammany Trace Connection to Heritage Park, St. Tammany Parish, LA (St. Tammany Parish Government)** – Party Chief. Performed GPS static control establishment, performed 4 miles digital levels of control points, field topographic surveys of the existing railroad, utilities, drainage, (3) bridge sites and other features, survey for existing drainage map features for a 250' wide .DTM, using LADOTD codes and procedures along a 2.4 mile segment near Slidell, LA.
03/23 – 07/23	**LA 44 at LA 621 Roundabout, Ascension Parish, LA (Ascension Parish Government)** - Party Chief. Performed GPS static control establishment, digital levels, urban field topographic surveys of the existing roadway, sidewalks, utilities, bridges and other features, with a 180' wide full .DTM survey using LADOTD codes and procedures.
05/23 – 08/23	**Bridges Near Amite, Tangipahoa Parish, LA (Tangipahoa Parish)** – Party Chief. Performed GPS static control establishment, digital levels, urban field topographic surveys of three (3) existing bridge sites, existing roadway, sidewalks, utilities, bridges and other features, with a 140' wide full .DTM survey at each site using LADOTD codes and procedures.
05/19 – 01/21 (previous employer)	**Almonaster Bridge Rehabilitation and Approaches, Orleans Parish, LA (Port of New Orleans)** – Survey Technician. Performed field topographic and boundary surveys as well as assist with 3D laser scanning of the existing single-leaf bascule bridge, railroad and roadway approaches using LADOTD procedures for the rehabilitation and reconstruction of the bridge approaches.
10/20 – 03/21 (Previous employer)	**S.P. H.001399, Happy Jack – N. Port Sulphur, Plaquemines Parish, LA (LADOTD)** – Survey Technician. Performed field topographic route surveys of the existing roadway sections including control and full .DTM survey using LADOTD procedures for the widening to 4 lanes.

Firm Employed By: Crescent Engineering & Mapping, LLC			
Name:	Will Cupit	**Years of relevant experience with this employer:**	2
Title:	Survey Instrument Man	**Years of relevant experience with other employer(s):**	2
Degree(s) / Years / Specialization:	High School Diploma / 2019		
Active Registration Number / State / Expiration Date:	N/A		
Year Registered:	N/A	**Discipline:**	N/A
Contract Role(s) / Brief Description of Responsibilities:	Survey Instrument Man		

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 – 10/22	**S.P. H.015101, Lowes Ave at LA 44 Roundabout, Ascension Parish, LA (Ascension Parish Government)** – Survey Technician. Assisted with GPS static control establishment, digital levels, urban field topographic surveys of the existing roadway, sidewalks, utilities, bridges and other features, with a 180' wide full .DTM survey using LADOTD codes and procedures.
03/22 – 08/22	**S.P. H.015333, H.015404, H.015407 – Tangipahoa IIJA Bridge Replacements, Tangipahoa Parish, LA (LADOTD)** – Survey Technician. Assisted with GPS static control establishment, digital levels, field topographic surveys of four (4) existing bridge sites, existing roadway, utilities, and other features, with a 140' wide full .DTM survey at each site using LADOTD codes and procedures.
06/22 – 01/23	**LA 3127 Widening (LA 20 to LA 3213), St. James Parish, LA (St. James Parish)** – Survey Technician. Assisted with GPS static control establishment, 8 miles of digital levels, field topographic surveys of the existing roadway, utilities, SUE locates, drainage and other features, survey for existing drainage map features for the survey of 4.5 miles of roadway widening with a 350' wide .DTM, using LADOTD codes and procedures.
04/23 – 05/23	**Tammany Trace Connection to Heritage Park, St. Tammany Parish, LA (St. Tammany Parish Government)** – Survey Technician. Assisted with GPS static control establishment, 4 miles digital levels of control points, field topographic surveys of the existing railroad, utilities, drainage, (3) bridge sites and other features, survey for existing drainage map features for a 250' wide .DTM, using LADOTD codes and procedures along a 2.4 mile segment near Slidell, LA.
03/23 – 07/23	**LA 44 at LA 621 Roundabout, Ascension Parish, LA (Ascension Parish Government)** - Survey Technician. Assisted with GPS static control establishment, digital levels, urban field topographic surveys of the existing roadway, sidewalks, utilities, bridges and other features, with a 180' wide full .DTM survey using LADOTD codes and procedures.
04/23 – 05/23	**S.P. H.014992, McHugh Road over Brushy Bayou, East Baton Rouge Parish, LA (LADOTD)** – Survey Technician. Assisted with GPS static control establishment, digital levels, urban field topographic surveys of the existing bridge site, roadway, sidewalks, utilities, and other features, with a 140' wide full .DTM survey using LADOTD codes and procedures.
03/23 – 04/23	**S.P. H.014993, Lemon Road over Drainage Bayou, East Baton Rouge Parish, LA (LADOTD)** – Survey Technician. Assisted with GPS static control establishment, digital levels, field topographic surveys of the existing bridge site, roadway, utilities, and other features, with a 140' wide full .DTM survey using LADOTD codes and procedures.
09/21 – 02/22	**Magnolia Heights Drainage Improvements, Vacherie, LA (St. James Parish Government)** – Survey Technician. Performed GPS control establishment and field topographic surveys of over 2 miles of existing roadway, drainage structures, utilities.

Firm Employed By: Lazenby & Associates, Inc.					
Name:	James Ellingburg, PE		**Years of relevant experience with this employer:**	14	LAZENBY & ASSOCIATES, INC.
Title:	Project Engineer		**Years of relevant experience with other employer(s):**	0	
Degree(s) / Years / Specialization:			BS / 2008 / Civil Engineering		
Active Registration Number / State / Expiration Date:			37236 / LA / 9/30/2024		
Year Registered:	2012	**Discipline:**	Civil Engineering		
Contract Role(s) / Brief Description of 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).
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 – Present	**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:	Paul Fryer, PE, PLS		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		
Active registration number / state / expiration date:			PE23426 / LA / 9/30/2025; PLS4806 / LA / 9/30/2025		
Year registered:	PE 1987; PLS 1997	Discipline:	Civil Engineering; Environmental Engineering; Professional Land Surveyor		
Contract role(s) / brief description of responsibilities:			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).
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 – Present	**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

Firm Employed by: Lazenby & Associates, Inc.	
	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 – Present	**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:	Randy Hammons, PE	**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	
Active registration number / state / expiration date:		29504 / LA / 9/30/2025	
Year registered:	2001	**Discipline:**	Civil Engineering
Contract role(s) / brief description of 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).
10/2014 – 06/2017	Project Engineer processing topographic survey field data and preparing survey deliverables for **State Contract No. 4400004541: Retainer Contract for Professional Surveying Services – Statewide.** This retainer contract 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. (04/2017 – 07/2017).** 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. (04/2017 – 09/2017).** Topographic survey of a heavily traveled urban system route in Lafayette, Louisiana using GPS receivers, robotic total stations and a SX-10 terrestrial scanner.
02/2015 – 02/2016	Project Engineer processing topographic survey field data and preparing survey deliverables for **State Contract No. 4400005020.** 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.
01/10/17 – 01/10/20	Project Engineer processing topographic survey field data and preparing survey deliverables for **State Contract No. 4400009384: Retainer Contract for Professional Surveying Services – Statewide.** This retainer contract 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 (04/2018 – 10/2018).** 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 (3/2018 – 9/2018)** 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 (03/2019 – 6/2019).** 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.
10/2019 – Present	Project Engineer processing topographic survey field data and preparing survey deliverables for **State Contract No. 4400015236: Retainer Contract for Professional Surveying Services – Statewide.** This retainer contract has 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:

Firm Employed by: Lazenby & Associates, Inc.	
	State Project No. H.012030 – US 371: KCS RR Overpass HBI, Route LA 159 and US 371 in Webster Parish (10/2020-04/2021). 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 (02/2021-04/2021).** 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.013832.5 – LA 6: Grand Ecore Bridge Deck Repair, Route LA 6 in Natchitoches Parish (04/2021-06/2021).** Topographic survey of the existing deck, barrier rails & river pier top of cap elevations for the Grand Ecore Bridge across the Red River using GPS receivers, robotic total stations and SX-10 terrestrial scanner to locate complete bridge deck & barrier rails. **State Project No. H.008220.5 – LA 406 @ F.E. Hebert Roundabout, Route LA 406 in Plaquemines Parish (03/2021-07/2021).** Topographic survey of a proposed roundabout site located at the intersection of LA 406 and Keating Dr and F.E. Hebert Blvd using GPS receivers and robotic total stations. **State Project No. H.014554.5 – LA 3025: Coulee Mine Scour Repair, Route LA 3025 in Lafayette Parish (04/2021-07/2021).** 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 (01/2022-06/2022).** 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 (08/2021-01/2022).** 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.
01/2020 – Present	Project Engineer processing topographic survey field data and preparing survey deliverables for **State Contract No. 4400017710: Retainer Contract for Professional Surveying Services – Statewide.** This retainer contract has 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 (05/2022-01/2023).** 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:	Hagan Lawrence, PE		**Years of relevant experience with this employer:**	5	
Title:	Project Engineer		**Years of relevant experience with other employer(s):**	2	
Degree(s) / Years / Specialization:			BS / 2015 / Civil Engineering		
Active registration number / state / expiration date:			43645 / LA / 3/31/2024		
Year registered:	2019	**Discipline:**	Civil Engineering		
Contract role(s) / brief description of responsibilities:			Road Design, 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).
01/16 – 08/17	**State Project No. H010287: Well Road Roundabout, Ouachita Parish.** Mr. Lawrence Assisted with drainage design, preparation of roadway plans, and quantity calculations (with previous employer). This project involved the construction of a roundabout at the I-20 westbound ramp terminal with Well Road.
02/18 – Present	**State Project No. H.007300: Kansas Lane – Garrett Road Connector and I-20 Improvements, Ouachita Parish.** Mr. Lawrence has assisted with subsurface drainage design, and assisted with development of drainage plan-profile sheets and design drainage maps. This urban project includes five multilane roundabouts and interstate ramp modifications. The final plans are currently 98% complete.
12/17 – Present	**Ouachita Parish Police Jury Road Program.** Mr. Lawrence is an integral team member of the Ouachita Parish Police Jury Road Program. His duties consist of developing pavement preservation roadway plans, including drainage design, to preserve and extend the life of Ouachita Parish roadways, some of which are constructed under the DOTD Urban Systems program. Mr. Lawrence has also assisted with processing of topographic survey data, as well as coordinating utility relocation efforts as required to facilitate construction of these projects. Some of the Ouachita Parish Urban Systems projects that Mr. Lawrence has provided professional services on include the following: **State Project No. H.011745 – Sandal Street (Reconstruction)** **State Project No. H.011784 – Stubbs-Vinson Road (Mill, Patch and Overlay)**(Project included 8' x 8' RCB) **State Project No. H.013791 – Hadley Street** (Mill, Patch and Overlay and includes a segment of Reconstruction) **State Project No. H.013776 – Well Road** (Mill, Patch and Overlay) **State Project No. H.013802 – Garrett Road** (Mill, Patch and Overlay) **State Project No. H.013804 – Wall Williams** (Mill, Patch and Overlay)(Project included a 3 - 8' x 7' RCB) **State Project No. H.013805 – Fink's Hideaway Road** (Reconstruction/Mill, Patch and Overlay) **State Project No. H.014347 – South Grand Street** (Mill, Patch and Overlay)(Project included adding ADA compliant sidewalks along the length of the road to improve safety for pedestrians) **State Project No. H.014348 – Lee Avenue** (Mill, Patch and Overlay) (Project included adding ADA compliant sidewalks along the length of the road to improve safety for pedestrians) Mr. Lawrence assists with construction support on these projects, including answering contractor RFI's and verifying patching areas.
03/21 – 01/22	**Pinecrest Road Intersection Improvements - Ouachita Parish Police Jury Roadway Safety Improvement Project.** Mr. Lawrence was the design engineer for the Pinecrest Road Intersection Improvements for the Ouachita Parish Police Jury. This intersection was experiencing operational issues and was deemed substandard. Improvements included reconstructing approximately 175' of the approach roadway and improving the turnout radii. Mr. Lawrence oversaw the processing of topographic survey data, prepared roadway plans and contract documents, and provided construction support services during the construction phase of the project.

Firm Employed by: Lazenby & Associates, Inc.			
Name:	Jerry Lazenby, PE, PLS	**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	
Active registration number / state / expiration date:		PE12104 / LA / 3/31/2024; PLS2313 / LA / 3/31/2024	
Year registered:	1970 **Discipline:**	Civil Engineering; Environmental Engineering, Professional Land Surveyor	
Contract role(s) / brief description of responsibilities:		Principal-in-Charge, Project Supervisor, Contract Management, QAQC	

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).
10/12 – 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.
02/23 – Present	**Principal-In-Charge for LDOTD Contract No. 4400019714, IDIQ Retainer Contract for Professional Hydrographic Surveying Services (North Region) (LDOTD Contract No. 44-19714).** Supervised the performance of hydrographic surveys checking channel scour at major bridge sites in north Louisiana. Duties include supervision of project surveyors and QA/QC reviewing 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.
05/00 – 05/04	**State Project No. 700-99-0237: Retainer Contract for Professional Surveying Services, Statewide.** Mr. Lazenby was Principle-in-Charge responsible for 15 Task Orders to perform topographic surveys, property surveys, and develop ROW maps on various LDOTD projects in northern Louisiana.
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.

Firm Employed by: Lazenby & Associates, Inc.	
09/17 – Present	**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 – present	**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 – present	**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: Lazenby & Associates, Inc.			
Name:	Ronald Riggin, II, PE, PLS	**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	
Active registration number / state / expiration date:		PE36016 / LA / 3/31/2025; PLS5119 / LA / 3/31/2025	
Year registered:	PE 2011; PLS 2014 **Discipline:**	Civil Engineering; Professional Land Surveyor	
Contract role(s) / brief description of responsibilities:		Project Surveyor responsible for scheduling survey crews, conducting hydrographic surveys, and developing hydrographic survey submittals. **Mr. Riggin meets MPR No. 9.**	

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).
07/13 – 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 – Present	**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.
04/14 – 04/18	Professional Surveyor of Record for developing topographic surveys and Property Surveys for **private clients on residential developments and commercial developments in Ouachita Parish and northern Louisiana.** Professional Engineer of Record for the overall design of residential and commercial developments.
03/15 – 08/17	**Project Engineer and Project Surveyor for S.P. # H.011742 – Ole Highway 15 Improvements (US 80 – Arkansas Road (LA 616)), Ouachita Parish.** Mr. Riggin performed a topographic survey of a 2.2 mile section of Ole Hwy 15 from US 80 to LA 616 and then was the project engineer responsible for roadway design which consisted of cold planning to remove existing AC surfacing, in-place cement stabilization of existing base course, A.S.T. interlayer and asphaltic concrete overlay.
05/16 – 02/18	**Project Surveyor on the Steep Bayou Sewer Main project of the West Ouachita Sewerage District No. 5.** Mr. Riggin performed a topographic survey of the alignment for a sewer main trunk line from I-20 to New Natchitoches Road along Steep Bayou in Ouachita Parish. He also conducted a boundary survey of the right-of-way parcels along this route and developed the necessary ROW maps and legal descriptions.

Firm Employed by: Lazenby & Associates, Inc.					
Name:	Noah Sampognaro, EI		**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		
Active registration number / state / expiration date:			EI 34746 / LA / 9/30/2025		
Year registered:	2021	**Discipline:**	Civil Engineering		
Contract role(s) / brief description of responsibilities:			Road Design, Hydraulic Design & Analysis, 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).
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 – Present	**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)

Firm Employed by: Lazenby & Associates, Inc.					
Name:	James Spillers, PE		**Years of relevant experience with this employer:**	28	
Title:	Chief Roadway Design Engineer		**Years of relevant experience with other employer(s):**	0	
Degree(s) / Years / Specialization:			BS / 1994 / Civil Engineering		
Active registration number / state / expiration date:			28574 / LA / 9/30/2025		
Year registered:	1999	**Discipline:**	Civil Engineering		
Contract role(s) / brief description of responsibilities:			Road Design, Hydraulic Design & Analysis. **Mr. Spillers meets MPR No. 6**.		

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).
04/95 – 03/00	**State Project No. 043-01-0017: Dugdemona River and Relief Bridges, Jackson Parish.** Mr. Spillers performed a bridge hydraulic study, and assisted with preliminary and final roadway and bridge plans for two voided slab span bridges and roadway approaches on new alignment.
11/95 – 06/00	**State Project No. 172-01-0011: Bayou De Glaise Bridge, Morehouse Parish.** Mr. Spillers performed a bridge hydraulic study, and assisted with preliminary and final roadway and final roadway and bridge plans for a slab span bridge and roadway approaches on new alignment.
01/96 – 09/96	**State Project No. 038-03-0022: US 425 (Bastrop – Log Cabin), Morehouse Parish.** Mr. Spillers performed hydraulic studies for multiple slab span bridge sites, performed drainage design of cross drains, and assisting with preliminary plan preparation as part of expanded line and grade study for 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 – Jct. LA 142), Morehouse Parish.** Mr. Spillers performed a hydraulic study for twin girder bridges, performed drainage design for cross drains, and assisted with preparation of preliminary plans as part of expanded line and grade study for widening a 5.2-mile segment of US 425 to four lanes.
01/97 – 10/99	**State Project No. 026-05-0017: LA 15 (Sicily Island – Jct. La 913), Catahoula Parish.** Mr. Spillers performed a hydraulic study for twin slab span bridges, performed drainage design for cross drains, and assisted with the preparation of preliminary and final roadway and bridge plans for widening a 4.5-mile segment of LA 15 to four lanes as part of TIMED program.
04/99 – 07/00	**State Project No. 038-04-0008: Route LA 142 (Junction US 425 – North of DeButte Creek), Morehouse Parish.** Mr. Spillers performed a hydraulic study, and prepared preliminary roadway and bridge plans for reconstruction of a 3.5-mile segment of a rural two-lane roadway. Project included a slab span bridge and an RCB.
01/01 – 09/04	**State Project No. 002-01-0041: DeSiard Street (Monroe) (Louisville Avenue – Gilbert Street), Ouachita Parish.** Mr. Spillers performed a hydraulic study for subsurface drainage, and prepared preliminary and final roadway plans for widening a 1.2-mile urban segment of US 80 to five lanes.
07/05 – 01/08	**State Project No. 015-08-0026: US 165 (LA 841 – Rilla), Ouachita Parish.** Mr. Spillers performed a hydraulic study and prepared preliminary and final roadway plans for widening a 6.5-mile segment of US 165 to four lanes as part of TIMED program.
05/07 – 05/10	**State Project No. 713-33-0110: Steve Ogden Road Bridge Over Bayou Macon, Madison Parish.** Mr. Spillers performed a bridge hydraulic study and prepared preliminary and final roadway plans for a girder bridge on new alignment. This project was successfully constructed with no change orders.
12/07 – 05/16	**State Project No. H.002622: Arkansas Road (LA 616), Ouachita Parish**. Mr. Spillers assisted with the hydraulic study of subsurface drainage systems and prepared preliminary and final roadway plans for widening a 3.2-mile urban segment of LA 616 to five lanes, including four multilane roundabouts. The project included one bridge site, where an existing timber bridge was replaced with a RCB.
02/11 – 05/17	**State Project No. H.003854: Bossier North-South Corridor from Route I-220/Swan Lake Road Interchange to Crouch Road, Bossier Parish.** Mr. Spillers performed hydraulic studies for two bridge sites, and prepared preliminary and final roadway plans on this project. The project consisted of the 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.

Firm Employed by: Lazenby & Associates, Inc.	
03/14 – 09/16	**State Project No. H.004608: Choudrant I-20 Service Road, Lincoln Parish.** Mr. Spillers performed a bridge hydraulic study and also performed design of a subsurface drainage system, and prepared preliminary and final roadway plans for a 1.1-mile two-lane service road on new alignment.
02/18 – Present	**State Project No. H.007300: Kansas Lane – Garrett Road Connector and I-20 Improvements, Ouachita Parish.** Mr. Spillers prepared preliminary roadway plans and is nearly complete with final roadway plans for the widening of a section of Garrett Road to a four-lane urban 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 for this project are currently 98% complete.
08/21 – 11/21	**North Frontage Road – Phase 2, Ouachita Parish.** Mr. Spillers was in responsible charge of the development of roadway plans for a 0.6-mile frontage road north of Interstate 20 in Monroe. The owner on this project is the I-20 Economic Development District. Mr. Spillers also served as the project engineer during construction, and was responsible for responding to contractor RFI's, processing pay estimates and change orders, and closing out the project after final inspection.
08/22 – Present	**US 165 Turn Lanes at Scott Drive, Ouachita Parish.** Mr. Spillers was responsible for preparing roadway plans and contract documents 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: APS Engineering and Testing, LLC			
Name:	Sergio Aviles, PE	**Years of relevant experience with this employer:**	12
Title:	President	**Years of relevant experience with other employer(s):**	10
Degree(s) / Years / Specialization:		BS / 2001 / Civil Engineering (Geotechnical)	
Active registration number / state / expiration date:		33571 / LA / 3/31/2024	
Year registered:	2007 **Discipline:**	Civil Engineering	
Contract role(s) / brief description of responsibilities:		Design Guidance / Field Crew and Lab Management. **Mr. Aviles meets MPR No. 7.**	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
11/19 – 06/22	**Project No. H.001352 and H.002273: Comite River Diversion Bridge at LA-67, LA-19 and LA-19 Railroad Bridge LA-67 and LA- 19** - A P S was selected with the winning team for the design of the diversion CMAR project. A P S will be the Geotechnical Designers for the project. Mr. Aviles is the Project Manager for the Project Design team.
09/19 – 05/23	**Project No. H.004100: I-10 Widening LA 415 to Essen LN** - A P S was tasked thru our DOTD Geotechnical retainer to drill and sample a total of 52 deep borings starting at the Washington Exit and ending at the LSU Lakes. A P S drilled a total of eight (8) over the waterborings and 44 land borings. Along with this drilling and sampling, A P S tested for strength and engineering characteristics of the soils with approximately 1000 Triaxial Compression, Unconsolidated Drained Or Undrained (UU) and Atterberg Limits. Mr. Aviles is the Project Manager to the Geotechnical Investigations.
11/19 – 3/20	**Project No. H.010155: US 90 Railroad Overpass SE of LA 85** - A P S was selected with the winning team for the Geotechnical Investigation and Design for the proposed new overpass. A total of six (6) deep borings were drilled and tested for Geotechnical recommendation. Mr. Aviles was the Project Manager for the Project Design team.
3/19 – 5/19	**Project No. H.001344: US 190 over Bogue Falaya River** - A P S was selected with the winning team for the Geotechnical Investigation and Design of the proposed new bridge. A total of 19 deep borings were drilled and tested for the foundation recommendation. Mr. Aviles was the Project Manager for the Project Design team.
8/16 – 10/19	**Project No. H.012422: I-110 Interchange Modification at Terrace Ave** - A P S was tasked thru our DOTD Geotechnical retainer to drill and sample a total of six (6) deep borings for the design of the Terrace Ave Exit. A P S tested for strength and engineering characteristics of the soils with approximately 100 Triaxial Compression, Unconsolidated Drained Or Undrained (UU) and Atterberg Limits performed by A P S Laboratory. Mr. Aviles was the Project Manager to the Geotechnical Investigations.
11/17 – 2/18	**Project No. H.013193: US 61 Thompson Creek Bridge Replacement** - A P S was tasked thru our DOTD Geotechnical retainer to drill and sample a total of eight (8) deep borings for the replacement bridge at US 61 over Thompson Creek. A P S tested for strength and engineering characteristics of the soils. Mr. Aviles was the Project Manager to the Geotechnical Investigations and Analysis assigned for roads and bridges.
07/14 – 08/14	**Project No. 700-51-0110: US 90 Elevated Portion for the Future I-49 Corridor** - A P S performed all the preliminary drilling, testing, and CPTs for US 90 and Highway 318 Intersection. A total of 46 borings and 11 CPTs along with all the testing required by LADOTD was completed. Mr. Aviles was the Project Manager to the Geotechnical Investigations and Analysis assigned for roads and bridges design.
03/01 – 05/05	The following list consists of projects that Mr. Aviles did the design or assisted on the design while at LADOTD. These projects include pile design, slope stability, settlement analysis, and construction services (PDA, CAPWAP, and WEAP). ONSYSTEM PROJECTS LIST: Mr. Aviles served as the staff geotechnical engineer while at the Pavement and Geotechnical Section for the following projects below. Projects include Embank Design, Pile Design, Drilled Shaft Design, MSE Wall Design, and Construction Supervision. Major project costs estimated over one million dollars: **015-04-0037 LA524-LA123 Route US165, 015-05-0035 LaSalle, 015-07-0044 (Route 165 Cadwell, 276-03-0016 Tangipahoa River Bridge, 3132**

Firm Employed by: APS Engineering and Testing, LLC	
	Innerloop 427-01-0029, 362-01-0009 Rat Bois, 452-01-0039 I-55 CrossOvers, 742-07- 0098 Susek Drive, Bayou Perrie and Sand Beach Bayou 103-01-0025, Broadway Ave.700-40-0127, Cameron Route La. 27 193-02-0042, Causeway Boulevard interchange Route I-10 450-15-0098,Clayton-Greenville 026-03-0025, Crescent City Connection 283-08-0143(46), Cross Bayou Bridge 090-01-0020, Flannery at Florida 742-17-0008.

Firm Employed by: APS Engineering and Testing, LLC			
Name:	Sairam Eddanapudi, M.E., PE	**Years of relevant experience with this employer:**	12
Title:	Chief Engineer	**Years of relevant experience with other employer(s):**	10
Degree(s) / Years / Specialization:		BE / 1999 / Civil Engineering ME / 2002 / Civil Engineering	
Active registration number / state / expiration date:		35129 / LA / 3/31/2024	
Year registered:	2008 **Discipline:**	Civil Engineering	
Contract role(s) / brief description of responsibilities:		Laboratory QA Manager / Design Engineer	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
11/19 – 06/22	**Project No. H.001352 and H.002273: Comite River Diversion Bridge at LA-67, LA-19 and LA-19 Railroad Bridge LA-67 and LA- 19** - A P S was selected with the winning team for the design of the diversion CMAR project. A P S will be the Geotechnical designers for the project. Mr. Sai is the Senior Design Engineer for the Project Design team.
09/19 – 05/23	**Project No. H.004100: I-10 Widening LA 415 to Essen LN** - A P S was tasked thru our DOTD Geotechnical retainer to drill and sample a total of 52 deep borings starting at the Washington Exit and ending at the LSU Lakes. A P S drilled a total of eight (8) over the waterborings and 44 land borings. Along with this drilling and sampling, A P S tested for strength and engineering characteristics of the soils with approximately 1000 Triaxial Compression, Unconsolidated Drained Or Undrained (UU) and Atterberg Limits. Mr. Sai is the project QA to the Geotechnical Investigations.
03/19 – 05/19	**Project No. H.001344: US 190 over Bogue Falaya River** - A P S was selected with the winning team for the Geotechnical Investigation and Design of the proposed new bridge. A total of 19 deep borings were drilled and tested for the foundation recommendation. Mr. Sai was the Senior Design Engineer for the Project Design team.
08/16 – 10/19	**Project No. H.012422: I-110 Interchange Modification at Terrace Ave** - A P S was tasked thru our DOTD Geotechnical retainer to drill and sample a total of six (6) deep borings for the design of the Terrace Ave Exit. A P S tested for strength and engineering characteristics of the soils with approximately 100 Triaxial Compression, Unconsolidated Drained Or Undrained (UU) and Atterberg Limits performed by A P S Laboratory. Mr. Sai was QA to the Geotechnical Investigations.
11/17 – 2/18	**Project No. H.013193: US 61 Thompson Creek Bridge Replacement** - A P S was tasked thru our DOTD Geotechnical retainer to drill and sample a total of eight (8) deep borings for the replacement bridge at US 61 over Thompson Creek. A P S tested for strength and engineering characteristics of the soils. Mr. Sai was QA to the Geotechnical Investigations.

Firm Employed by: APS Engineering and Testing, LLC			
Name:	Surendra Pathak, PE	**Years of relevant experience with this employer:**	10
Title:	Staff Engineer	**Years of relevant experience with other employer(s):**	11
Degree(s) / Years / Specialization:		BE / MSCE/ 2013 / Civil Engineering BE / 2007 / Civil Engineering	
Active registration number / state / expiration date:		43487 / LA / 9/30/2025	
Year registered:	2018	**Discipline:**	Civil Engineering
Contract role(s) / brief description of responsibilities:		Design Engineer	

Experience dates (mm/yy–mm/yy)	Experience and qualifications relevant to the proposed contract; *i.e.*, "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).
11/19 – 06/22	**Project No. H.001352 and H.002273: Comite River Diversion Bridge at LA-67, LA-19 and LA-19 Railroad Bridge LA-67 and LA- 19** - A P S was selected with the winning team for the design of the diversion CMAR project. A P S will be the Geotechnical designers for the project. Mr. Surendra was a Design Engineer for the Project Design team.
09/19 – 05/23	**Project No. H.004100: I-10 Widening LA 415 to Essen LN** - A P S was tasked thru our DOTD Geotechnical retainer to drill and sample a total of 52 deep borings starting at the Washington Exit and ending at the LSU Lakes. A P S drilled a total of eight (8) over the waterborings and 44 land borings. Along with this drilling and sampling, A P S tested for strength and engineering characteristics of the soils with approximately 1000 Triaxial Compression, Unconsolidated Drained Or Undrained (UU) and Atterberg Limits. Mr. Surendra was a staff engineer to the Geotechnical Investigations.
03/19 – 05/19	**Project No. H.001344: US 190 over Bogue Falaya River** - A P S was selected with the winning team for the Geotechnical Investigation and Design of the proposed new bridge. A total of 19 deep borings were drilled and tested for the foundation recommendation. Mr. Surendra was a Design Engineer for the Project Design team.
08/16 – 10/19	**Project No. H.012422: I-110 Interchange Modification at Terrace Ave** - A P S was tasked thru our DOTD Geotechnical retainer to drill and sample a total of six (6) deep borings for the design of the Terrace Ave Exit. A P S tested for strength and engineering characteristics of the soils with approximately 100 Triaxial Compression, Unconsolidated Drained or Undrained (UU)and Atterberg Limits performed by A P S Laboratory. Mr. Surendra was a staff engineer to the Geotechnical Investigations.
11/17 – 2/18	**Project No. H.013193: US 61 Thompson Creek Bridge Replacement** - A P S was tasked thru our DOTD Geotechnicalretainer to drill and sample a total of eight (8) deep borings for the replacement bridge at US 61 over Thompson Creek. A P S tested for strength and engineering characteristics of the soils. Mr. Surendra was a staff engineer to the Geotechnical Investigations.

Firm Employed by: Terracon Consultants, Inc.			
Name:	Lynne Roussel, PE	**Years of relevant experience with this employer:**	18
Title:	Principal; Senior Geotechnical Engineer	**Years of relevant experience with other employer(s):**	0
Degree(s) / Years / Specialization:		BS / 2003 / Civil Engineering MS / 2005 / Geotechnical Engineering	
Active registration number / state / expiration date:		35152 / LA / 3/31/2024	
Year registered:	2009	**Discipline:**	Civil Engineering
Contract role(s) / brief description of responsibilities:		Geotechnical Senior Reviewer. **Ms. Roussel meets MPR No. 7.**	

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).
12/1/20 – Ongoing	**IDIQ Contracts for Professional Geotechnical Services Statewide Contract No. 4400019014, Statewide, LA. DOTD** Contract Manager and Project Reviewer. Managed the retainer contract for services to perform geotechnical exploration and engineering. The contract value is $2.5 Million.
07/21 – 12/21	**H.003931: I-10 Lake Charles, Lake Charles, LA. DOTD** Project Reviewer. Performed quality reviews on engineering analyses and reporting.
06/19 – 3/20	**H.004100: I-10 Widening, Baton Rouge, LA. DOTD** Senior Engineer. Supervised the subsurface evaluation and lab testing. All testing was performed in accordance with LADOTD sampling and guidelines. The team worked safely around traffic and lane closures on the interstate near College Drive.
04/19 – 09/20	**Sarasota Drive Bridge, Baton Rouge, LA. GEC** Project Manager. Managed the geotechnical exploration project, which included the advancement of two test borings to approximately 100 feet below existing site grades. Pile capacities were developed for the bridge bents.
10/18 – 01/19	**H.000133: US 80 Overpass at KCS RR. Simsboro, LA. DOTD** Project Manager. Managed the subsurface evaluation and lab testing. All testing was performed in accordance with LADOTD sampling and guidelines.
05/18 – 02/22	**H.011235.5: I-49 South @ Verot School Road US 90, Lafayette, LA. DOTD** Project Manager. Oversaw the design of the substructure of two bridges and global stability and settlement for several MSE walls to be constructed as part of this design-build project. Terracon developed nominal capacity and resistance factors for pile foundations for the bridge substructures and developed driving criteria using WEAP analysis for the proposed pile driving equipment.
05/18 – 11/20	**H.005967: Nelson Road Extension and Bridge, Lake Charles, LA. DOTD** Project Manager. Managed the subsurface evaluation and geotechnical engineering design for the Nelson Road Extension and Bridge Project. Terracon completed the subsurface exploration, including water borings in Contraband Bayou, and provided 90% design of the substructure for the bridge over Contraband Bayou. Terracon performed a settlement analysis for the planned embankment approaches. The scope also included design support for impact dolphins to be constructed in front of the bridge in the Bayou to protect the bridge superstructure from the impact of possible runaway ocean-going ships from the nearby Port of Lake Charles facility.
07/18 – 12/18	**H.009481: LA 20 Bayou Chevreuil Bridge, St. James Parish, LA. DOTD** Project Manager in the subsurface evaluation and lab testing.
07/16 – 07/21	**Louisiana Department of Transportation Geotechnical Retainer Contract No. 4400006191, LA. DOTD** Contract Manager and Project Reviewer. Managed the retainer contract for services to perform geotechnical exploration and engineering. The contract value is $4 Million.
10/16 – 01/18	**H.002238: Robinson Canal Bridge, Terrebonne Parish, LA. DOTD** Project Manager. Provided geotechnical engineering services for the project, including field exploration, laboratory testing, and geotechnical engineering for the bridge. Pile capacities were developed for the bridge bents.
01/12 – 01/13	**H.009187.5: 23rd Street Bridge over Canal No. 17, Jefferson Parish, LA. DOTD** Project Engineer. Provided geotechnical engineering for the subsurface evaluation and engineering design of this DOTD Off-System Bridge project. The bridge at 23rd Street over Canal No. 17 was replaced. DOTD boring logs and LRFD Pile Calculations were provided to the design engineer.
01/10 – 03/12	**H.0051.21: LA-1 to I-10 Connector, Port Allen, LA. DOTD** Project Manager. Managed the design of a new connector between LA 1 and I-10 near the Intracoastal Canal in West Baton Rouge Parish, Louisiana. The project consisted of a bridge over the Intracoastal Canal, a flyover connector to LA 1, and associated roadway. Soil borings and Cone Penetrometer Test (CPT) probes associated with the bridges and roadway were completed. All calculations were consistent with DOTD pavement design standards. Settlement analysis was performed for the approach embankments. Pile capacities were also provided for the elevated structure.

Firm Employed by: Terracon Consultants, Inc.	
2011	**713-64-0108/H.006372: Carter Crossing over Dugdemona River, Winn Parish, LA. DOTD** Project Manager. Performed the subsurface evaluation and engineering design of this DOTD Off-System Bridge project. The bridge at Carter Crossing over Dugdemona River was replaced. DOTD boring logs and LRFD Pile Calculations were provided to the design engineer.
09/08 – 11/08	**Interstate 12 Widening, East Baton Rouge and Livingston Parishes, LA. DOTD** Project Manager. Managed the interstate highway improvement. Terracon performed drilling and laboratory activities for the project. The project consisted of widening Interstate 12 to six lanes from O'Neal Lane eastward in both East Baton Rouge and Livingston Parishes. The project needed to be performed under a compressed time schedule of 30 days for DOTD to release a Design-Build procurement package. She oversaw the Terracon team to ensure the schedule was met by using multiple drill rigs to complete the fieldwork. The work completed by Terracon received high marks from the design-build team.
12/05 – 07/12	**Louisiana DOTD Off-System Bridge Program, Statewide in LA. DOTD** Project Manager. Managed multiple off-system bridge projects. Terracon provided geotechnical drilling, laboratory testing, and engineering support for several bridges designated for replacement under the Louisiana Department of Transportation and Development Off-System Bridge Program. For each bridge, Terracon served as a sub-consultant for a civil engineering firm selected by Louisiana DOTD to design the new bridge. In each case, the project civil engineer provided all additional engineering and land surveying required to perform topographic surveys and hydraulic studies and prepared the preliminary and final roadway and bridge plans. Terracon completed geotechnical investigations for bridges throughout Louisiana and in various geologic settings.

Firm Employed by: Terracon Consultants, Inc.			
Name:	Steve Greaber, PE	**Years of relevant experience with this employer:**	22
Title:	Senior Geotechnical Engineer	**Years of relevant experience with other employer(s):**	11
Degree(s) / Years / Specialization:		BS / 1989 / Civil Engineering	
Active registration number / state / expiration date:		26107 / LA / 9/30/2025	
Year registered:	1995	**Discipline:**	Civil Engineering
Contract role(s) / brief description of responsibilities:		Senior Geotechnical Engineer	

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).
07/18 – 10/21	**H.011235.5: I-49 South @ Verot School Road US 90, Lafayette, LA. DOTD** Lead Design Engineer for the subsurface evaluation and geotechnical engineering design for the US 90 (I-49 South) Design Build Project. Terracon provided the design of the substructure of two bridges and global stability and settlement for several MSE walls to be constructed as part of this design-build project. Terracon developed nominal capacity and resistance factors for pile foundations for the bridge substructures and developed driving criteria using WEAP analysis for the proposed pile driving equipment. Dynamic Pile Testing was performed during construction to verify pile capacities. Terracon reviewed the CAPWAP results and provided recommendations for adjustment of the resistance factors to accommodate slight variations in nominal capacity obtained at each bent.
05/18 – 01/21	**H.005967: Nelson Road Extension and Bridge, Lake Charles, LA. DOTD** Senior Geotechnical Engineer. Reviewed the subsurface evaluation and geotechnical engineering design for the Nelson Road Extension and Bridge Project. Terracon completed the subsurface exploration that included water borings in Contraband Bayou and has provided 90% design of the substructure for the bridge over Contraband Bayou and performed settlement analysis for the planned embankment approaches. The scope also included design support for impact dolphins to be constructed in front of the bridge in the Bayou to protect the bridge superstructure from impact of possible runaway ocean-going ships from the nearby Port of Lake Charles facility.
06/17 – 10/18	**H.010006: Bayou Petit Caillou Bridge Improvements, Chauvin, LA. DOTD** Senior Geotechnical Engineer. Provided senior review the subsurface evaluation and substructure design for upgrades to the existing bridge. The services were performed for Huval and Associates through their Bridge Preservation Contract and included providing pile recommendations for support of a new bridge lift operators building and supports for traffic barriers and fender replacements.
01/15 – 02/16	**H.010719: US 90 Ramp Improvement, Orleans Parish, LA. DOTD** Senior Geotechnical Engineer. Provided senior review of the subsurface evaluation and substructure design of this new bridge and ramp improvement project at US 90 and South Claiborne Ave. The entrance ramp to US 90 was elevated to improve traffic flow. DOTD boring logs and LRFD Pile Resistance Calculations were provided to the design engineer.
02/14 – 02/17	**H.010620: US 90 (I-49 South) Design Build, Lafayette Parish, LA. C.H. Fenstermaker** Senior Geotechnical Engineer. Provided senior review for the subsurface evaluation and geotechnical engineering design for the US 90 (I-49 South) Design Build Project. Terracon provided the design of the substructure of two bridges and global stability and settlement for several MSE walls to be constructed as part of this design build project. Terracon developed nominal capacity and resistance factors for pile foundations for the bridge substructures and developed driving criteria using WEAP analysis for the proposed pile driving equipment. Dynamic Pile Testing was performed during construction to verify pile capacities. Terracon reviewed the CAPWAP results and provided recommendations for adjustment of the resistance factors to accommodate slight variations in nominal capacity obtained at each bent.
2012 – 2013	**SP No. 450-10-0108: Interstate 10 Widening, I-12 to Siegen Lane - Baton Rouge, LA. DOTD** Project Manager. Managed the widening of I-10 from three lanes in each direction to four lanes in each direction, starting at Siegen Lane and ending at the I-12 interchange. A bridge and overpass sections were replaced.
2010 – 2013	**SP No. 450-10-0159: Interstate 10 Widening, Siegen to Highland - Baton Rouge, LA. DOTD** Project Manager. Managed the widening of I-10 from two lanes in each direction to three lanes in each direction. Dual existing bridges over Wards Creek Diversion will be widened, and the existing 850-foot-long dual bridges over the Kansas City Railroad and La Crete Drive were completely replaced with new three-lane bridges with 12-foot shoulders and increased clearances to allow the railroad to add a parallel track in the future.
11/10 – 08/12	**LA-1 to I-10 Connector 30% Design - Port Allen, LA. Volkert/DOTD** Supervising Geotechnical Engineer. Supervised 30% design plans for a proposed new connector between I-10 and LA-1 in West Baton Rouge Parish. The extension included two bridges and two miles of new roadway. Bridges over an existing railroad and the Intracoastal Canal were included. An evaluation of a possible retained earth embankment was included.

Firm Employed by: Terracon Consultants, Inc.	
09/08 – 11/08	**Interstate 12 Widening - East Baton Rouge and Livingston Parishes, LA. DOTD** Senior Engineer. Provided senior oversite for this major Interstate highway improvement. Terracon performed drilling and laboratory activities for the project. The project consisted of widening Interstate 12 to six lanes from O'Neal Lane eastward in both East Baton Rouge and Livingston Parishes. The project needed to be performed under a compressed time schedule of 30 days for DOTD to release a Design-Build procurement package. He worked with the Terracon team to ensure the schedule was met by using multiple drill rigs to complete the fieldwork. The work completed by Terracon received high marks from the design-build team.
12/07 – 07/12	**Louisiana DOTD Off-System Bridge Program - Statewide in LA. DOTD** Engineering Support. Provided engineering support for multiple off-system bridge projects. Terracon provided geotechnical drilling, laboratory testing, and engineering support for several bridges designated for replacement under the Louisiana Department of Transportation and Development Off-System Bridge Program. Terracon served as a sub-consultant for a civil engineering firm selected by Louisiana DOTD to design the new bridge for each bridge. In each case, the project civil engineer provided all additional engineering and land surveying required to perform topographic surveys and hydraulic studies and prepared the preliminary and final roadway and bridge plans. Terracon completed geotechnical investigations for bridges throughout Louisiana and in various geologic settings.

Firm Employed by: Terracon Consultants, Inc.			
Name:	Ryan Poindexter, PE	**Years of relevant experience with this employer:**	7
Title:	Geotechnical Engineer	**Years of relevant experience with other employer(s):**	0
Degree(s) / Years / Specialization:		BS / 2013 / Civil Engineering	
Active registration number / state / expiration date:		46285 / LA / 3/31/2024	
Year registered:	2021	**Discipline:**	Civil Engineering
Contract role(s) / brief description of responsibilities:		Geotechnical Project Manager	

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).
12/1/20 – Ongoing	**IDIQ Contracts for Professional Geotechnical Services Statewide Contract No. 4400019014, Statewide, LA. DOTD** Project Manager. Manages projects associated with the retainer contract for services to perform geotechnical exploration and engineering.
07/21 – 12/21	**H.003931: I-10 Lake Charles, Lake Charles, LA. DOTD** Project Manager. Coordinated fieldwork and access, including private landowners and government agencies. Coordinated lab testing and QC-checked data. Prepared project deliverables and coordinated engineering review prior to final submittal.
05/20 – 01/21	**H.005121: LA-1 and LA-415 Connector, Port Allen, LA. DOTD** Project Manager. Coordinated fieldwork, access, and initial lab testing prior to the project being suspended.
06/19 – 04/20	**H.004100: I-10- Widening East Baton Rouge Parish, Baton Rouge, LA. DOTD** Project Manager. The project consisted of providing a site characterization report for future improvements to the existing roadway. The geotechnical field exploration consisted of soil borings adjacent to the existing roadway. Field exploration was completed safely over the course of multiple weeks with up to four land drill crews on site at once. Laboratory testing included consolidation testing, compressive strength testing, and testing for classifying of soil samples collected in accordance with LADOTD standards.
07/18 – 10/21	**H.011235.5: I-49 South @ Verot School Road US 90, Lafayette, LA. DOTD** Staff Engineer. Reviewed field logs, samples, and data. Assisted in coordinating lab testing.
06/18 – 06/21	**H.005967.5: Nelson Rd. Extension and Bridges, Calcasieu Parish, LA. DOTD** Assistant to Project Manager. The project consisted of providing a site characterization report for the new road and bridge, pile design, and pavement design recommendation. The geotechnical field exploration consisted of soil borings adjacent to the existing roadway, borings in undeveloped land adjacent to the Port of Lake Charles, and borings in Bayou Contraband. Field exploration was completed safely over the course of multiple weeks with up to four land and water drill crews on site at once. Laboratory testing included consolidation testing, compressive strength testing, and testing for classifying of soil samples collected in accordance with LADOTD standards. Terracon provided recommendations for precast concrete piles, pavement design, and site preparation.
10/18 – 01/19	**H.000133: US 80 Overpass at KCS RR, Simsboro, LA. DOTD** Engineering Intern. Assisted with subsurface evaluation and lab testing. All testing was performed in accordance with LADOTD sampling and guidelines. He worked on boring logs and reporting.
07/18 – 12/18	**H.009481: LA 20 Bayou Chevreuil Bridge - St. James Parish, LA. DOTD** Assistant to Project Manager. Coordinated field activities and lab testing for this geotechnical characterization for a replacement bridge. The project consisted of soil borings and CPT soundings along the proposed alignment of the replacement. The geotechnical field exploration required extensive use of water boring equipment. Before field operations began, site visits were conducted to determine the safest and most efficient access for drilling equipment around and along. Field exploration was completed safely over the course of multiple days utilizing land, pontoon, and barge-mounted drilling equipment. Laboratory testing included compressive strength testing and testing for classifying soil samples collected in accordance with LADOTD standards.

Firm Employed by: Terracon Consultants, Inc.			
Name:	Brian Alexander	**Years of relevant experience with this employer:**	17
Title:	Drilling Operations Manager	**Years of relevant experience with other employer(s):**	0
Degree(s) / Years / Specialization:		BS / 1994 / Biological Science MS / 1999 / Physical Therapy	
Active registration number / state / expiration date:		N/A	
Year registered:	N/A	**Discipline:**	N/A
Contract role(s) / brief description of responsibilities:		Drilling Operations Manager	

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).
12/1/20 – Ongoing	**IDIQ Contracts for Professional Geotechnical Services Statewide Contract No. 4400019014, Statewide, LA. DOTD** Supervising drilling operations for projects under this contract.
01/22 – 01/22	**H.012033: Cross Bayou and Caney Bayou Bridges, Ouachita Parish, LA. DOTD** Supervised drill crews for this project.
01/22 – 01/22	**H. 002794.5: LA 308, Canal Bridges Near Larose, Larose, LA. DOTD** Supervised drill crews for this project.
07/21 – 10/21	**H.003931: I-10 Lake Charles, Lake Charles, LA. DOTD** Supervised drill crews during field exploration.
05/20 – 01/21	**H.005121: LA-1 and LA-415 Connector, Port Allen, LA. DOTD** Supervised drill crews for this project.
10/18 – 07/19	**H.010620: US 90 (I-49 South) Design Build, Lafayette Parish, LA. C.H. Fenstermaker** Supervised drill crews and worked in the field as a logger on several of these projects.
06/19 – 11/19	**H.004100: I-10- Widening East Baton Rouge Parish, LA. DOTD** Supervised drill crews and worked in the field as a logger.
07/18 – 10/18	**H.011235.5: I-49 South @ Verot School Road US 90, Lafayette, LA. DOTD** Supervised drill crews.
05/18 – 06/18	**H.005967.5: Nelson Rd. Extension and Bridges, Calcasieu Parish, LA. DOTD** Supervised drill crews and worked in field as a logger for water borings.
05/17 – 08/17	**H.002980.5: I-10 Overpass US 165 & MPRR, Project; Iowa, LA. DOTD** Served as field supervisor for this project.
09/14 – 08/15	**Highway 167 Widening, LA DOTD** Supervised drill crews and worked in the field as a logger on several of these projects.
11/04 – 07/12	**Off-System Bridges throughout LA, DOTD** Supervised drill crews and worked in the field as a logger on several of these projects.
11/10 – 11/11	**LA 1/Interstate 10 Connector, Port Allen, LA, DOTD** Supervised drill crews.
05/08 – 03/09	**I-12 Widening – East Baton Rouge and Livingston Parishes, LA, DOTD** Served as field supervisor for this contract.

Firm Employed by: Terracon Consultants, Inc.			
Name:	Matt Minton	**Years of relevant experience with this employer:**	21
Title:	Geotechnical Laboratory Manager	**Years of relevant experience with other employer(s):**	0
Degree(s) / Years / Specialization:		BS / 2001 / Industrial Technology	
Active registration number / state / expiration date:		N/A	
Year registered:	N/A	**Discipline:**	N/A
Contract role(s) / brief description of responsibilities:		Geotechnical Laboratory Manager	

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).
12/1/20 – Ongoing	**IDIQ Contracts for Professional Geotechnical Services Statewide Contract No. 4400019014, Statewide, LA. DOTD** Lab Manager. Serves as lab manager for projects under this contract.
07/21 – 12/21	**H.003931: I-10 Lake Charles, Lake Charles, LA. DOTD** Lab Manager. Served as lab manager on this project.
06/20 – 01/21	**H.005121: LA-1 and LA-415 Connector, Port Allen, LA. DOTD** Lab Manager. Served as lab manager on this project.
06/19 – 01/20	**H.004100: I-10- Widening East Baton Rouge Parish, LA. DOTD** Lab Manager. Served as lab manager on this project.
07/18 – 11/18	**H.011235.5: I-49 South @ Verot School Road US 90 - Lafayette, LA. DOTD** Lab Manager. Served as lab manager on this project.
06/18 – 08/18	**H.005967.5: Nelson Rd. Extension and Bridges - Calcasieu Parish, LA. DOTD** Lab Manager. Served as lab manager on this project.
06/17 – 02/18	**H.002980.5: I-10 Overpass US 165 & MPRR, Project - Iowa, LA. DOTD** Lab Manager. Served as lab manager on this project.
09/17 – 11/17	**US 165/I-10 Project; Iowa, LA. DOTD** Lab Manager. Served as lab manager on this project.
03/17 – 04/17	**H.001140: LA 124: Hooter Creek Bridge - Jena, LA. DOTD** Lab Manager. Served as lab manager on this project.
01/17 – 03/17	**H009233: Bayou Flagon Bridges - Ball, LA. DOTD** Lab Manager. Served as lab manager on this project.
09/14 – 08/15	**Highway 167 Widening. DOTD** Lab Manager. Served as lab manager on this project.
11/10 – 11/11	**LA 1/Interstate 10 Connector – 30% Design, Port Allen, LA. Volkert/DOTD** Lab Manager. Served as lab manager on this project.
05/08 – 03/09	**I-12 Widening – East Baton Rouge and Livingston Parishes, LA. DOTD** Lab Manager. Served as lab manager on this project.
11/04 – 07/12	**Off-System Bridges throughout LA. DOTD** Lab Manager. Served as lab manager on this project.

Firm Employed by: Terracon Consultants, Inc.			
Name:	Albert Ayenu-Prah, Jr., PhD, P.E.	**Years of relevant experience with this employer:**	<1
Title:	Senior Engineer	**Years of relevant experience with other employer(s):**	15
Degree(s) / Years / Specialization:		BS / 2001 / Civil Engineering MS / 2004 / Civil Engineering PhD / 2007 / Civil Engineering	
Active registration number / state / expiration date:		37402 / LA / 3/31/2025	
Year registered:	2012	**Discipline:**	Civil Engineering
Contract role(s) / brief description of responsibilities:		Senior Engineer	

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 – 07/23 **Performed with previous employer**	**H.004100.5: I-10: LA 415 to Essen Lane on I-10 and I-12 (CMAR), Baton Rouge Parish, LA. Huval and Associates** Project Engineer. Led technical reviews pertaining to the selection of design reaches, geotechnical design of deep foundations earth retaining structures, slope stability, soil-structure interaction with existing structures, and load testing recommendations. A Construction Management At Risk (CMAR) project, this project spanned approximately 2.5 miles and involved the widening of the east and west-bound lanes, elevated structures, interchanges, and ramps along I-10 from LA 415 in West Baton Rouge Parish to Essen Lane on I-10 and I-12 in East Baton Rouge Parish.
04/21 – 07/23 **Performed with previous employer**	**700-29-0112, 700-29-0130, H.012565, H.012891, H.014251, H.014252, H.014253, H.014254, H.014256, H.014257: Rural Bridge Initiative Phase II: West Feliciana, East Feliciana, Livingston, St. Bernard Parishes, LA. Sigma Consulting Group** Project Manager. Led technical reviews pertaining to selection of design reaches, geotechnical design of pile foundations, drivability, slope stability, settlement analyses, and construction testing program recommendations. This project consisted of the replacement of multiple small two-lane rural bridges traversing small rivers and creeks, throughout Southeast Louisiana generally ranging in length from 100 to 400 feet.
12/20 – 07/23 **Performed with previous employer**	**H.013897: College Drive Flyover Ramp I-10/I-12 West: East Baton Rouge Parish, LA. DOTD** Project Manager. Led technical reviews for the Owner Verification (OV) of geotechnical design for various structures, as well as pavement design along the project alignment. A Design-Build project, the scope included modifying the I-10 West/College Drive exit into separate I-12 West and I-10 West exits.
06/18 – 07/23 **Performed with previous employer**	**H.004791: LA 23 Belle Chasse Bridge and Tunnel: Plaquemine Parish, LA. DOTD** Project Manager. Led reviews of geotechnical and pavement engineering design for Owner Verification (OV) during design and construction phases. This P3 Project consisted of replacing the Belle Chasse bridge and tunnel.
05/19 – 07/23 **Performed with previous employer**	**H.003370: I-220/I-20 Interchange Improvement and Barksdale Access Road: Bossier Parish, LA. DOTD** Project Engineer. Provided pavement design for all roadways. The Design-Build project involved the construction of an interchange and direct access road to I-20 from the Barksdale Air Force Base just outside of Bossier City. Also included were twin overpass bridges and access ramps.
05/15 – 07/23 **Performed with previous employer**	**Pecue Lane: I-10 Interchange: East Baton Rouge Parish, LA. Shread-Kuyrkendall and Associates** Project Engineer. Performed geotechnical engineering analyses, including embankment settlement and slope stability of earth retaining structures and deep foundations, and was later involved with construction phase services, including review of the pile driving system and high-strain dynamic testing. The project comprised the construction of an interchange with multiple through and turn lanes, entrance and exit ramps in a congested area, and replacement of two existing overpass bridges, as well as roadway widening and extension.

Firm Employed by: Terracon Consultants, Inc.	
01/15 – 07/23 **Performed with previous employer**	**H.004273.5: I-49 Connector (Lafayette Regional Airport): Lafayette Parish, LA. Stantec** Project Engineer. Provided geotechnical design and technical review for various structures along the project alignment. The project included frontage roads, elevated mainline viaduct structure, interchanges with associated ramps, and bridges over a total length of five miles. Assisted with characterizing all of the soil borings and CPT soundings into various design reaches using a= proprietary database across the 5-mile alignment, and oversaw the pile foundation design, earth-retained structures, slope stability, and embankment settlement. He also assisted with developing the preliminary geotechnical report.
11/15 – 07/23 **Performed with previous employer**	**H.011309: McArthur Interchange Completion Phase II, US 90Z: Jefferson Parish, LA. DOTD** Project Engineer. Provided geotechnical analyses and recommendations pertaining to elevated ramps and associated at-grade approaches. Performed design recommendations including deep foundations, pile group analyses, embankment settlement, and pile-supported approach slab design for the construction of ramps entering and exiting Westbank Expressway. The project consisted of horizontal and vertical design for widening the south frontage road from Peters Road and east bound Harvey Tunnel to Manhattan Boulevard, including four eastbound on and off ramps of the Westbank Expressway.
09/17 – 06/18 **Performed with previous employer**	**Roddy Road Safety Widening: Ascension Parish, LA. T. Baker Smith** Project Manager. Provided pavement and deep foundation design for the safety widening along Roddy Road from LA 935 to LA 621. The project consisted of providing two 12-foot lanes, 4-foot shoulders, and a defined side ditch for roadside drainage, as well as the design of various turn lanes at the intersection locations.

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	
Active registration number / state / expiration date:		25383 / LA / 9/30/2025	
Year registered:	1993 **Discipline:**	Civil Engineering	
Contract role(s) / brief description of responsibilities:		Traffic Control Design, Traffic Signal Analysis and Design, TMPs, Peer Reviews. **Ms. Ferlito meets MPR No. 8**.	

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 - Present	**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 – Present	**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 – Present	**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

Firm Employed by: Vectura Consulting Services, LLC	
	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.
09/13 – 04/14	**S.P. 700-99-0477 Jefferson Hwy. Signal Design (Baton Rouge, LA)** Ms. Ferlito designed traffic signal plans for 11 intersections along Jefferson Highway between College Drive and the I-12 On Ramp in Baton Rouge. Design included traffic data collection, traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout. Design also included traffic signal synchronization signal timing and pedestrian signal timing. She prepared estimated quantities, preliminary and final signal construction plans, and specifications.
03/05 – 11/05	**Airline Hwy Widening SPN 700-99-0332 (Baton Rouge, LA)** Brin designed 8 traffic signals as part of the Airline Hwy. widening project in Baton Rouge. Her design included traffic data collection, traffic signal equipment, signal synchronization timing, fiber communication, storage length calculations based on queues analyses, special provision specifications, quantities, and cost estimate. This project included fiber design to be the first Baton Rouge project to connect video surveillance images and traffic controller information to the ATM / EOC.
02/03 – 01/04	**EBR Traffic Signal Systems Phases IV and V SPN 700-17-0172 (Baton Rouge, LA)** Brin was the project engineer for the design of 66 signalized intersections on eight arterials in Baton Rouge which included traffic data collection, traffic signal equipment, pedestrian crosswalk equipment, emergency vehicle and railroad preemption equipment, fiber interconnect equipment as well as traffic signal synchronization. Brin prepared traffic signal construction plans, estimated quantities, and specifications.

Firm Employed by: Vectura Consulting Services, LLC			
Name:	Laurence 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 / Civil Engineering MBA / 2010	
Active registration number / state / expiration date:		29901 / LA / 3/31/2024	
Year registered:	2001	**Discipline:**	Civil Engineering
Contract role(s) / brief description of responsibilities:		Traffic Control Design, Traffic Signal Analysis and Design, TMPs, Peer Reviews. **Mr. Lambert meets MPR No. 8**.	

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 – Present	**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 – Present	**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.
10/17 – 10/18	**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.

Firm Employed by: Vectura Consulting Services, LLC	
09/16 – 04/17	**H.004957.5 I-12 To Bush - LA 3241 (I-12 – LA 36) Corridor Study (St. Tammany Parish, LA**) Laurence was the lead traffic engineer for a DOTD traffic study for the new LA 3241 alignment 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. Laurence worked closely with the NORPC and District 62 to develop design year volumes using data from the travel demand model. The traffic study examined concepts that improved the safety and efficiency of the roadway consistent with the latest DOTD policies related to access management that included the I-12 interchange ramps. Laurence collected 7-day, 24-hour counts w/ classification on mainlines, turning movement counts for morning and evening peak periods and speed data for mainlines. Laurence also developed a VISSIM traffic simulation model of the preferred alternative.
07/14 – 01/17	**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).
11/09 – 08/10	**I-12 at Millerville Road Interchange Modification Request (Baton Rouge, LA)** The scope of this project consisted of preparing and obtaining environmental clearance for the proposed future roadway and signal improvements at the I-12 / Millerville Road Interchange. Laurence prepared documents and obtained environmental clearance for all on-site work and held public meetings. Laurence developed all HCS analyses and a micro-simulation model. Laurence also participated in several public meetings to satisfy the environmental clearance requirements.
09/06 – 09/07	**EBR 06-CS-HC-00012 Downtown Baton Rouge Signal Project (Baton Rouge)** Laurence was the Project Manager to develop construction plans to upgrade 29 signals in downtown Baton Rouge as part of the EBR Green Light Plan. Laurence developed a design study that included traffic data collection, handicap ramp recommendations, countdown pedestrian signals and internally illuminated street name signs.
04/04 – 09/06	**Stage 0 I-10 at Pecue Lane Interchange Justification Study (Baton Rouge, LA)** Laurence was the lead traffic engineer for a Stage 0 traffic study analyzing the proposed interchange at I-10 and Pecue Lane. Laurence developed current and future traffic volumes based on the CRPC TransCAD model growth rates. Using HCS, Laurence analyzed signalized and unsignalized intersections, basic freeway segments, freeway merge / diverge segments and freeway weaving segments. Laurence also developed a micro-simulation model in both VISSIM and TSIS.

Firm Employed by: Vectura Consulting Services, LLC			
Name:	Reece Rodrigue, PE, PTOE, RSP1	**Years of relevant experience with this employer:**	3
Title:	Project Traffic Engineer	**Years of relevant experience with other employer(s):**	7
Degree(s) / Years / Specialization:		BS / 2013 / Civil Engineering	
Active registration number / state / expiration date:		42074 / LA / 3/31/2024	
Year registered:	2017	**Discipline:**	Civil Engineering
Contract role(s) / brief description of responsibilities:		Project Engineer for 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).
04/21 – Present	**MOVEBR Direct Select for Traffic Signal Design, Baton Rouge, LA** Reece is a project engineer for the design of traffic signal upgrades at 10 intersections. This project included a traffic design report, preliminary and final plans for traffic signals that included traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout. The design also included traffic signal synchronization signal timing and pedestrian signal timing.
07/21 – Present	**H.007160 - EBR Computerized Traffic Signal, Phase VB (Baton Rouge)** Reece is part of the team responsible for Construction Engineering and Inspection. Reece has reviewed the signal mast arm shop drawings to assist the City-Parish of Baton Rouge in accepting the manufactured poles. Reece, with the DOTD, City-Parish and the Contractor conducted field visits to confirm pole foundation locations.
01/21 – 05/21	**H.013256 - I-10 ITS Scott to Lake Charles (Lafayette, Acadia, and Jefferson Davis Parishes)** Reece was a member of the subconsultant team who was tasked with reviewing the ITS plans for 15 sites along I-10 where CCTV cameras were being installed. Reece was responsible for measuring anticipated construction quantities and producing a cost estimate for said quantities by using DOTD's Bid Tabulation and Cost Estimating Tool.
09/20 – 12/21	**H.011909.5-4 Roundabout: US 171 at Boone St. (Vernon Parish)** Reece was a project engineer, who participated in the production of the temporary signal design associated with the sequence of construction for the roundabout at US 171 at Boone St. He conducted a thorough analysis of the US 171 corridor's existing allowable movements and identified the movements that would be restricted during the proposed construction process and how it would impact the typical traffic patterns.
09/20 – 12/21	**H.010960.5 LA 30 Roundabouts at Tanger I-10 (Ascension Parish)** Reece was a project engineer, who assisted in the production of the temporary signal design associated with the sequence of construction for the roundabouts on LA 30 in Gonzales, LA. This project consists of eight proposed construction phases. He assisted in calculating the temporary pole heights, determining the placement location for the temporary poles for each phase, measuring and calculating clearance intervals. Reece conducted a thorough analysis of the LA 30 corridor's existing allowable movements and identified the movements that would be restricted during the proposed construction process and how it would impact the typical traffic patterns.
04/20 – Present	**H.004791 DOTD Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project (Belle Chasse)** Reece is the project engineer who designed the temporary traffic signal for the intersection of LA 23 at Engineers Rd. The design of the temporary signals is set for eight phases of construction per the anticipated sequence of construction. Temporary pole location and heights were recommended for placement for use for all construction phases. Vehicle clearance interval calculations were conducted for each phase in accordance with DOTD and ITE guidance. Reece is responsible for producing the traffic impact analysis portion of the Traffic Management Plan, which was also used in planning for the permanent and temporary signal timing plans. Reece also produced permanent signal plans for the LA 23 intersections at Engineers Road and at Burmaster Street. He evaluated STOP bar locations, calculated vehicle, and pedestrian clearance intervals, designed the railroad preemption sequence for both at-grade crossings, designed the wiring layout, and developed the interconnect plan. Reece maintains correspondence with the fellow design engineering team for product consistency. In addition, Reece reviewed and approved shop drawings that were submitted by the contractor.
04/21 – Present	**MOVEBR Direct Select for Traffic Signal Design, Baton Rouge, LA** Reece is a project engineer for the design of traffic signal upgrades at 10 intersections. This project included a traffic design report, preliminary and final plans for traffic signals that included traffic signal layout, fiber interconnect

Firm Employed by: Vectura Consulting Services, LLC	
	layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout. The design also included traffic signal synchronization signal timing and pedestrian signal timing.
02/20 – 09/21	**College Drive Corridor Enhancement from Perkins Road to I-10 (Baton Rouge, LA)** Reece was the task leader for organizing and formatting the data collection of the College Drive project limits. Tasks included in data collection were 7-day tube counts, intersection turning movement counts, approach tube counts, unmet demand observations, driveway counts, travel time runs, pedestrian / bicycle counts, and weaving counts.
07/19 – 12/19	**Burgess Avenue at Duff Road Traffic Signal Design, Walker, LA** Reece was responsible for the design of a fully actuated signalized intersection in the city of Walker, LA. The traffic signal was determined to meet signal warrants upon completion of the Foxglove subdivision in Livingston Parish, LA. Plans included road widening, signal face indication schedule, signal sequence chart, sign schedule, detector schedule, controller timing, wiring diagram, and free operation phasing diagram. Reece met with city officials to discuss the feasibility of constructing a traffic signal as opposed to other alternative measures for improving the intersection.
02/16 – 12/16	**H.005733.5 US 190 Superstreet Task Order (St. Tammany Parish)** Reece was a team member responsible for the layouts for the US 190 Superstreet signal designs. He created the preliminary plans using CAD software program MicroStation V8i. He aided in the technical design of each intersection. He conducted field inspections to verify locations of existing equipment as well as observing the area for feasible proposed utility locations. He attended project team meetings to discuss the project details as well as the plan-in-hand walk-through.
01/16 – 11/17	**Ochsner Main Campus Traffic Signals (Jefferson Parish)** Reece served as a design engineer for the traffic signal plans for the two Ochsner Main Campus access traffic signals with US 90 (Jefferson Hwy). The goal of the design was to implement updated pedestrian timings as well as optimize progression through the US 90 corridor. He reviewed traffic data and assigned time of day coordination timing parameters for the two intersections so that they may be included in the coordinated system west of the intersections. He used TruTraffic to determine the appropriate offset parameters so that vehicles may progress efficiently through the coordinated system. Plans for the two intersections were drafted in the form of DOTD's latest version of the TSI format. He was responsible for estimating construction quantities using DOTD's 2016 Spec Item list.
10/16 – 05/17	**Loyola Interchange Modification Request, Kenner, LA** Reece was a team member in the production of an Interchange Modification Report (IMR) for the I-10 at Loyola Dr. Interchange. He was an active member in collecting vehicle travel time data and processing the data. He also aided in collecting vehicle queues at the study intersections. He also assisted in the Vissim model calibration.
02/15 – 12/15	**H.011646 Retainer Contract for DOTD District 02 Traffic Signal Inventories - Nola 3** Reece served as the lead engineer in the production of the traffic study for the District 02 Traffic Signal Inventories. The objective was to effectively correct the progression of traffic through the US 90 (Broad St) corridor. He reviewed vehicle crash data at all intersections in the study scope. He conducted travel time runs. He created a model with existing traffic signal timing information using Synchro 8 Software. He recommended traffic signal pedestrian clearance times and yellow and red clearance times for each intersection. He used MicroStation V8i when designing traffic signal plans in DOTD's TSI format.

Firm Employed by: Vectura Consulting Services, LLC			
Name:	Kristen Gahagan Farrington, PE, PTOE, RSP1	**Years of relevant experience with this employer:**	2
Title:	Project Traffic Engineer	**Years of relevant experience with other employer(s):**	7
Degree(s) / Years / Specialization:		BS / 2013 / Civil Engineering	
Active registration number / state / expiration date:		42785 / LA / 3/31/2025	
Year registered:	2016	**Discipline:**	Civil Engineering
Contract role(s) / brief description of responsibilities:		Project Engineer for 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 – Present	**H.012030.5 US 371 KCS RR Overpasses HBI (Webster Parish, LA)** Kristen was the project engineer to design permanent pavement marking and signing sheets for the construction plans in MicroStation. She will also participate in the QC of the sequence of construction and detour route.
04/21 – Present	**CP No. 16 CI-US-0032 Bus Rapid Transit (BRT) Improvement Project (Baton Rouge, LA)** Kristen a project engineer for a traffic design study and traffic signal design of 19 signals along three corridors: Plank Road, 22nd Street and US 190 (Florida Street). Kristen assisted the prime consultant with the safety analysis as well.
08/21 – 04/22	**H.013267 Downtown to Scotlandville Parkway Trail Safety Enhancement Study (Baton Rouge, LA)** Kristen was a project engineer for a design study to evaluate the recommended street crossing treatments of the trail at eight locations. The project consisted of collecting vehicular speed and volume data at the proposed trail crossings. Geometric field checks were also performed to determine if any hazards to pedestrians or cyclists existed. Once the field data was collected and analyzed, appropriate crossing treatments utilizing the *FHWA STEP Guide for Improving Pedestrian Safety at Unsignalized Locations* were developed that included Rectangular Rapid-Flashing Beacons (RRFB) and Pedestrian Hybrid Beacons (PHB's). Currently, Vectura is developing plans for the PHB's at four locations which will be the first implementation of PHB's in the Baton Rouge area.
02/20 – 09/21	**MOVEBR College Drive Enhancement Project (Baton Rouge, LA)** Kristen assisted with the data collection task of the College Drive project limits. Tasks included in data collection were 7-day tube counts, intersection turning movement counts, approach tube counts, unmet demand observations, driveway counts, travel time runs, pedestrian / bicycle counts, and weaving counts.
6/19 – 2/21	**H.013459 US 167 Improvements Stage 0 Elsie Street to Gilbert Street (St. Landry Parish, LA)** Kristen served as project manager for a Stage 0 study to evaluate the addition of a third lane to US 167 from Elsie Street south to a point past Gilbert Drive. Environmental impacts and cost estimates were prepared, as well as a benefit-cost analysis of all improvements considered. Civil Engineer responsible for safety analysis including crash rate number method, over-representation, CATScan quality assurance, HSM existing safety analysis, and No-Build Analysis. Designed high-level concept exhibits and comparison matrix to determine best preliminary alternatives moving forward to meet the purpose and need of the project. Compiled meeting agenda materials and minutes.
6/19 – 2/21	**H.013460 US 167 Improvements Stage 0 Enola Street to Ross Road (Evangeline Parish, LA)** Kristen served as project manager for a Stage 0 study of a two-lane road to remove a curvilinear section of US 167 from Enola Street near LA 748, southeast for approximately 1.2 miles. The study compared connecting existing property owners to a new roadway with driveways or intersection of old roadway. Environmental impacts and cost estimates were prepared. Civil Engineer responsible for safety analysis including crash rate number method, over-representation, CATScan quality assurance, HSM existing safety analysis, and No-Build Analysis, as well as a benefit-cost analysis. Designed high-level concept exhibits and a comparison matrix to determine best preliminary alternatives moving forward to meet the purpose and need of the project. Compiled meeting agenda materials and minutes.
04/19 – 6/21	**H.013817.1 LA 117 Improvements Stage 0 (Vernon and Natchitoches Parishes, LA)** Kristen served as project engineer responsible for a Stage 0 study for 18 miles of two-lane LA 117 from LA 8 to LA 118. The study evaluated the impacts of correcting deficient vertical and horizontal geometry along the corridor, widening for the addition of shoulders, and adding passing lanes and turn lanes at strategic locations along the corridor. Kristen was responsible for performing the safety analysis including crash rate number method, over-representation, CAT Scan quality assurance, HSM existing safety analysis, and No-Build Analysis. Kristen designed high-level concept exhibits, evaluated environmental impacts, and prepared high level cost estimates and

Firm Employed by: Vectura Consulting Services, LLC	
	comparison matrices to determine which preliminary alternatives best meet the purpose and need of the project. Kristen compiled all findings in the Stage 0 report and coordinated with stakeholders and local agencies to ensure the purpose and need of project is met.
03/19 – 11/19	**H.012311 LA 429 Connector Stage 0 (Ascension Parish, LA)** Kristen was the task leader for the preparation of a Stage 0 study to evaluate alignments for a limited-access corridor (LA 429) near I-10, between LA 30, LA 73, and US 61. Two alternatives for the widening and reconstruction of LA 429 were evaluated. The scope consisted of stakeholder and public meetings, site visits and data collection, phasing of alternative development for the corridor, scope and budget checklists, and an opinion of probable cost to prepare the Stage 0 Report. Kristen served as the civil engineer responsible for designing high level concept exhibits and comparison matrix to determine best preliminary alternatives moving forward to meet the purpose and need of the project. Compiled meeting agenda materials and minutes, coordinated with interchange study consultants for a cohesive project, and wrote report.
11/18 – 3/21	**H.013322 LA 3040 Feasibility / Safety Study Stage 0 (Houma, LA)** Kristen served as project engineer for a study to identify safety and operational issues along 2.5 miles of Martin Luther King Boulevard (LA 3040) in Houma, LA to evaluate reasonable alternatives to address any deficiencies discovered. Kristen was responsible for compiling a data collection plan for submittal to DOTD, including count locations, determined peak periods, and peak hours. Kristen performed peak period observations in the field and geometric field checks, as well as unmet demand observations and calculations. Kristen prepared TMC figures, as well as performed existing analysis in Vistro. Compiled all data collected into Appendices A and B per the DOTD Traffic Process and Report and wrote Chapter 1 of report. Kristen represented the project at stakeholder meetings to discuss project status.
04/18 – 04/19	**H.011243.1 I-49 at US 190 and LA 31 Interchange Improvements Stage 0 (St. Landry Parish, LA)** Kristen was the project engineer responsible for crash and safety analysis, report writing, planning, and designing for this Stage 0 Study to evaluate alternatives to improve traffic operations and safety at the I-49 interchanges with US 190 and LA 31. Crash and safety analysis was performed using the LADOTD CAT Scan tool and IHSDM, and line and grade was prepared to DOTD Design Standards for various corridors, including arterial collectors and freeway ramps. Close coordination with traffic engineer ensured maximum improvement of safety and operations given limited right-of-way and utility conflicts along the corridors.
09/17 – 09/18	**H.011160 LA 73 Corridor Study Stage 0 LA 74 to LA 621 (Ascension Parish, LA)** Kristen was the designer responsible for concept development, report writing, and impact analysis for a Stage 0 study. The purpose of the study was to evaluate conceptual alternatives to improve capacity and operations along the LA 73 corridor and its connecting transportation network. The scope included the evaluation of three interchange configurations for the interchange of I-10 at LA 73 in conjunction with two corridor alternatives for LA 73, resulting in six different alternatives for which line and grade, impacts, and high-level cost estimates were prepared.
11/16 – 07/17	**H.001271 Cane River Bridge Church Street Route LA 1-X Environmental Assessment** Kristen was the project engineer responsible for assisting with the site visits, data organization, analysis of permanent alternatives and traffic control alternatives, and traffic report to aid in the delivery of an environmental assessment for the Cane River Bridge Replacement

Firm Employed by: Vectura Consulting Services, LLC			
Name:	Bridget Robicheaux, PE, PTOE (part-time)	**Years of relevant experience with this employer:**	6
Title:	Project Traffic Engineer	**Years of relevant experience with other employer(s):**	9
Degree(s) / Years / Specialization:		BS / 2007 / Civil Engineering MS / 2014 / Civil Engineering	
Active registration number / state / expiration date:		41272 / LA / 3/31/2025	
Year registered:	2016 **Discipline:**	Civil Engineering	
Contract role(s) / brief description of responsibilities:		Project Engineer for 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 – Present	**H.007160 EBR Computerized Traffic Signal, Phase VB (Baton Rouge)** Bridget has reviewed the signal mast arm shop drawings to assist the City-Parish of Baton Rouge in accepting the manufactured poles. Bridget also reviewed the traffic signal supports and documented all of her comments in a quality control tracker spreadsheet.
06/21 – 06/21	**CP No. 16 CI-US-0032 Bus Rapid Transit (BRT) Improvement Project (Baton Rouge, LA)** Bridget assisted with the traffic signal design of 19 signals along three corridors: Plank Road, 22nd Street and US 190 (Florida Street).
03/21 – 07/22	**H.007160 - EBR Computerized Traffic Signal, Phase VB (Baton Rouge, LA)** Bridget is part of the team responsible for Construction Engineering and Inspection. Bridget has reviewed the signal mast arm shop drawings (checking pole quantities and markups) to assist the City-Parish of Baton Rouge in accepting the manufactured poles.
04/20 – 07/20	**H.004791 DOTD Belle Chasse Bridge & Tunnel Replacement Public-Private Partnership Project (Belle Chasse, LA)** Bridget assisted the project engineer who designed the temporary traffic signal for the intersection of LA 23 at Engineers Rd by pulling crash data along LA 23, reviewing and summarizing crash reports, and performing CATScan analysis.
04/19 – 01/20	**Traffic Studies for Broussard Middle School and Billeaud Elementary School (Lafayette Parish, LA)** Bridget was the project engineer for developing a Traffic Study for two school entrances in Broussard, LA. Her project tasks included traffic data collection, forecast traffic volume development, existing traffic analyses and future traffic analyses using HCM software. She performed turn lane warrants based on NCHRP Report Number 457 as well as storage lengths based on queues and DOTD requirements.
07/19 – Present	**MOVEBR New Capacity Projects Program Management (Baton Rouge, LA)** Bridget assists Brin on a daily basis for the entire New Capacity Projects program management team. Bridget has performed multiple reviews of traffic studies and traffic signal designs. This includes reviewing raw data, unmet demand, volume maps, existing and build analyses, and safety analyses for accuracy and consistency throughout the report. She provides comments in a spreadsheet known as the Comment Tracker. All comments are posted in the Comment Tracker so that all parties are aware. Many of these projects are located on state routes and require approval by the Traffic Engineering staff of DOTD and EBR Traffic Engineering Department. She understands the current requirements for all aspects of traffic engineering projects. Using methods outlined in NCHRP 765, Bridget helped to develop design year volumes for the Jones Creek (Airline to Jefferson) MOVEBR project. She has developed Turn Lane tech memos for the MOVEBR Old Hammond Highway Segments 1A and two projects and for the MOVEBR Highland at Siegen project.
07/18 – 04/19	**LA 1 Pedestrian Crosswalk Study and Traffic / Pedestrian Signal Design West Baton Rouge Parish, Addis, LA** Bridget assisted Brin with the crosswalk study by pulling and formatting the crash data. She also assisted Brin with the crash analysis and formatting the findings.
10/17 – 07/18	**Travel Demand Model Update: Southeast Louisiana Travel Model (New Orleans, LA)** Bridget developed base year traffic volumes to calibrate and test of the regional travel demand as part of updating the New Orleans Regional Planning Commission Travel Demand Model in TransCAD. Specifically, Bridget obtained and reviewed the over 4,000 traffic counts (cars / trucks) that were used in the validation of the SELATRAM model to check for consistency, reasonableness, and completeness. She tabulated her results in a spreadsheet that was included in a technical memorandum.

Firm Employed by: Vectura Consulting Services, LLC	
09/17 – 11/17	**US 11 (Front St.) at US 190 Bus. (Fremaux Ave.) Traffic Study (St. Tammany Parish, LA)** Bridget participated in the development of a Crosswalk Traffic Engineering Study for the City of Slidell as part of improvements to the intersection of US 11 (Front St.) at US 190 Bus. (Fremaux Ave.). Bridget processed raw traffic videos and developed AM and PM peak period turning movement vehicle count figures. She also assisted Brin with a PTV Vistro model for the AM and PM Peaks for the five intersections for capacity analyses as well as progression analyses. She also developed portions of the report.
02/17 – 10/17	**Judge Tanner Boulevard at N. Causeway Roundabout Study (St. Tammany Parish, LA)** Bridget participated in the development of a Stage 0 Feasibility Study for roundabouts at four intersections in St. Tammany Parish. The scope was developed based on EDSMs VI.1.1.1 / VI.1.1.5 and DOTD Traffic Engineering Manual Section 20.2. Bridget developed traffic turning movement counts for morning and evening peak periods including peak hour factor and heavy vehicle percentages. Growth rates for design year volumes were also developed based on information provided from the TransCAD model. She performed portions of the Sidra unsignalized, signalized and roundabout analyses for implementation and design years and report development.
06/16 – 09/17	**H.004490 Stage 0 Roundabout Studies, (Lafayette Parish, LA)** Bridget assisted with developing a Stage 0 Feasibility Study for roundabouts at seven 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. Bridget developed traffic turning movement counts diagrams for peak periods including peak hour factor and heavy vehicle percentages. She developed the speed data analyses as well as assisted with performing Sidra unsignalized, signalized and roundabout analyses for implementation and design years. Bridget also developed several figures that were included in the report.

Firm Employed by: Vectura Consulting Services, LLC			
Name:	Clara Foshee, PE (part-time)	**Years of relevant experience with this employer:**	2
Title:	Project Traffic Engineer	**Years of relevant experience with other employer(s):**	5
Degree(s) / Years / Specialization:		BS / 2015 / Civil Engineering	
Active registration number / state / expiration date:		44568 / LA / 3/31/2025	
Year registered:	2020	**Discipline:**	Civil Engineering
Contract role(s) / brief description of responsibilities:		Project Engineer for 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).
11/22 – Present	**H.014746.1 Stage 0 LA 383 (Iowa, LA)** Clara is performing the safety analysis for this corridor study. She will develop Appendix C and the corresponding sections in Chapter 2 to comply with the DOTD TEPR process.
05/22 – Present	**H.012370 Morrison Road Traffic Study: Mayo Boulevard to Bullard Avenue (New Orleans, LA)** Clara was the project engineer for a corridor study that evaluated reducing travel lanes to incorporate bike lanes. The study included peak hour determination, turning movement counts with unmet demand, safety analysis, and intersection analyses using HCS 2023. The study followed the DOTD TEPR process since the project received federal aid and will be reviewed by DOTD.
02/22 – 06/22	**MOVEBR Direct Select for Traffic Signal Design (Baton Rouge, LA)** Clara provided quality control for several components of this project. She reviewed the traffic volume and safety sections of several intersection design studies. She also verified the estimated quantities for several traffic signal design plans.
08/21 – 07/22	**H.005168 NORG - Avondale PEL Study (Avondale, LA)** Clara provided quality control for Appendix C (Safety) and Chapter 2 (Existing Conditions), as well as assisted with the completion of Appendix D (Existing and No Build Analysis). The study followed the DOTD TEPR process and was reviewed by DOTD.
07/21 – Present	**MOVEBR New Capacity Projects Program Management (Baton Rouge, LA)** Clara has verified turn lane length calculations, vertical tree clearances, safety analyses, pedestrian countermeasures, and other quality control reviews to assist the City of Baton Rouge with their reviews.
10/18 – 12/18	**Traffic Engineering Process and Report Flowchart (Hammond, LA)** Lead engineer in the design and production of a flowchart depicting the assembly of the new Traffic Engineering Process and Report Flowchart. While working as a staff member in DOTD District 62, she took the initiative to create a document clearly showing how the new Traffic Engineering Process and Report should be assembled via flowchart. This flowchart was intended to be used internally throughout District 62 but was seen and admired by DOTD Headquarters and spread throughout the state to serve as a supplemental guide for the creation of the new Traffic Engineering Process and Report.
1/19 – 3/19	**Unserviced Demand Data Collection and Peak-Hour Determination Spreadsheets (Hammond, LA)** Clara was a traffic engineering team member in the design and production of a set of spreadsheets intended to standardize how unserviced demand is collected and how peak-hours are determined from peak-periods. Working closely with fellow traffic engineers at District 62, she co-created a document containing multiple spreadsheets designed to allow the input of unserviced demand data collected in the field for various intersection types and configurations. This document would then output reliable and accurate unserviced demand data to be used in studies and reports throughout District 62. While creating this unserviced demand document, she concurrently co-created a document containing multiple spreadsheets designed to determine the most appropriate and accurate peak-hour from a given set of volumes over a peak-period. Both documents took weeks to create and were continuously reviewed and edited to ensure they were as accurate as possible.

Firm Employed by: Vectura Consulting Services, LLC				
Name:	Cade Nelson, EI	**Years of relevant experience with this employer:**	<1	VECTURA CONSULTING SERVICES, LLC
Title:	Traffic Engineer Intern	**Years of relevant experience with other employer(s):**	2	
Degree(s) / Years / Specialization:		BS / 2020 / Civil Engineering		
Active registration number / state / expiration date:		EI 34583 / LA / 9/30/2024		
Year registered:	2020	**Discipline:**	Civil Engineering	
Contract role(s) / brief description of responsibilities:		Project Engineer Intern		

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).
8/23 – Present	**H.014746.1 Stage 0 LA 383 (Iowa, LA)** Cade assisted in pulling crash data from DOTD crash 1 and performed field observations as part of traffic data collection
05/23 – Present	**H.012030.5 US 371 KCS RR Overpasses HBI (Webster Parish, LA)** Cade assisted the project engineer with the design of permanent pavement marking and signing sheets for the construction plans in MicroStation. She will also participate in the QC of the sequence of construction and detour route.
06/23 – 08/23	**MOVEBR Direct Select for Traffic Signal Design (Baton Rouge, LA)** Cade assisted with the development of some of the signal construction plan sheets in MicroStation.
09/23 – Present	**H.011507.1 Monroe Phase 3 SEA (Ouachita Parish, LA)** Cade performed a field review of 35 signalized intersections that included controllers, detection, and communication. The field data will be used to develop a constraints analysis for upgrading to fiber optic communication and adaptive signalization.
05/23 – Present	**MOVEBR New Capacity Projects Program Management (Baton Rouge, LA)** Cade assisted with quality control reviews to assist the City of Baton Rouge with their reviews.
09/23 – Present	**H.972462.1 Stage 0 Feasibility Study – US 190B / Fremaux Avenue Sidewalk Study (Slidell, LA)** Cade assisted in the deployment of the traffic data collection devices, collected spot speed data, and performed intersection observations.
07/23 – 09/23	**H.015504.5 CCC Decorative Lighting (New Orleans, LA)** Cade assisted with the sortation and review of crash data, assisted project manager with the lane closure analysis, and assisted with develop figures in CAD for the report.

Section 17

I-12 to Bush
(Greenfield - Team Staff Experience)

17. Firm Experience

Firm Name	**Stanley Consultants, Inc.**	Past Performance Evaluation Discipline(s)*	Road, Traffic, Bridge, Geotech
Project Name	**I-12 Widening: LA 21 to US 190 and LA 1077 to LA 21**	Firm Responsibility (Prime Or Sub?)	Prime
Project Number	H.013866	Owner's Name	Louisiana Department of Transportation and Development (LADOTD)
Project Location	St. Tammany Parish, LA	Owner's Project Manager	Jacob Fusilier, PE, PMP
Owner's Address, Phone, Email	1201 Capitol Access Road, Baton Rouge, LA 70802, 225.379.1185, jacob.fusilier@la.gov		
Services Commenced By This Firm (MM/YY)	09/16	Total consultant contract cost ($1,000's)	$2,756
Services Completed By This Firm (MM/YY)	09/21	Cost of consultant services provided by this firm ($1,000's)	$2,003

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

Firm's Role: Stanley Consultants provided all engineering services required for preliminary and final roadway design plans. Stanley Consultants also prepared complete bridge design plans, geotechnical services, Independent Cost Estimation, and Critical Path Modeling.

Project Description: LA 21 to US 190 incorporated approximately 3.7 miles of improvements. LA 1077 to LA 21 incorporated approximately 3.4 miles of improvements. The corridor model and PGL elevations were developed to accommodate cross-slope corrections and a slotted median barrier. A significant amount of communication and coordination effort was mandatory with District 62 and Headquarters to successfully complete a Level 4 TMP and the development of the sequence of construction maintaining two lanes of traffic in both directions over the Tchefuncte River. The Stanley Consultants Team was responsible for all engineering services required for preliminary and final roadway design plans, all permanent signage, preliminary and final bridge design plans, geotechnical services, Independent Contractor Estimate (ICE) and Critical Path Modeling (CPM).

PROJECT SUCCESS

The Stanley Consultants Team used its diverse and talented team to complete this project for DOTD under a very accelerated design schedule. We also successfully coordinated these two design projects with the simultaneous adjacent I-12 design project led by Dennis Hymel, PE and Paul Olivier, PE. This required coordination specific to MOT, Construction Staging, Drainage and additional activities.

Team Members:
J Tisdale, PE
B Roussel, PE, PMP
A Fields, PE
J Blohowiak, PE
K Lafitteau, EI
L Santana, PE
D Shiosaka, PE
H Newhard, PE

Firm Name	**Stanley Consultants, Inc.**	Past Performance Evaluation Discipline(s)*	Road, Traffic, Geotech
Project Name	**I-20: Widening/Ovrly (Vancil Rd-LA 34)**	Firm Responsibility (Prime Or Sub?)	Prime
Project Number	H.015052	Owner's Name	Louisiana Department of Transportation and Development (LADOTD)
Project Location	Ouachita Parish, Louisiana	Owner's Project Manager	Toby Picard, PE
Owner's Address, Phone, Email	1201 Capitol Access Rd, Baton Rouge, LA, 225.379.1302, toby.picard@la.gov		
Services Commenced By This Firm (MM/YY)	01/23	Total consultant contract cost ($1,000's)	$2,180
Services Completed By This Firm (MM/YY)	Ongoing	Cost of consultant services provided by this firm ($1,000's)	$1,355

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

Firm's Role: Stanley Consultants is providing engineering services required to complete Preliminary and Final Roadway Design Plans alongside project team efforts to deliver a Traffic Study concurrent with design development. Stanley Consultants is also providing an Independent Cost Estimate, lighting and signing plans, and a Traffic Study.

Project Description: The project scope includes the inside widening of I-20 from Well Road to LA 34 in Ouachita Parish, Louisiana. Design highlights include reconstruction of sections of the interstate under three separate overpasses, development of single and double median barriers for the length of the project, providing lighting for the corridor, and drainage, signage and pavement marking improvements.

PROJECT SIMILARITIES: This project is similar to the I-69 Frontage Road Connector in that it utilizes the "LADOTD Minimum Design Guidelines" and AASHTO "Green Book" to develop a design consistent with high-speed facilities. Portions of the project will utilize concepts in widening existing roadways or corridors while the remainder of the project will require drainage analysis, new signing and travel information for the traveling public across new terrain and right-of-way.

Team Members:
B Roussel, PE, PMP
J Tisdale, PE
A Fields, PE
J Blohowiak, PE
A Carter, PE
T Barr, PE
K Lafitteau, EI
L Santana, PE

PROJECT SUCCESS

A typical project will complete a traffic study prior to commencing design activities. Stanley Consultants has maintained the I-20 Widening project schedule milestone dates while being flexible enough to adjust design elements based on the results of a simultaneously ongoing traffic study. Conducting the traffic study concurrently with design was necessary to meet an accelerated schedule required by funding deadlines.

Firm Name	**Stanley Consultants, Inc.**	Past Performance Evaluation Discipline(s)*	Road, Traffic
Project Name	**LA 30 Roundabouts at Tanger Mall and I-10**	Firm Responsibility (Prime Or Sub?)	Prime
Project Number	H.010960.5	Owner's Name	Louisiana Department of Transportation and Development (LADOTD)
Project Location	Ascension Parish, LA	Owner's Project Manager	Joshua Harrouch, PE, PTOE
Owner's Address, Phone, Email	1201 Capitol Access Rd, Baton Rouge, LA; 225.242.4640; joshua.harrouch@la.gov		
Services Commenced By This Firm (MM/YY)	03/17	Total consultant contract cost ($1,000's)	$645
Services Completed By This Firm (MM/YY)	07/22	Cost of consultant services provided by this firm ($1,000's)	$475

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

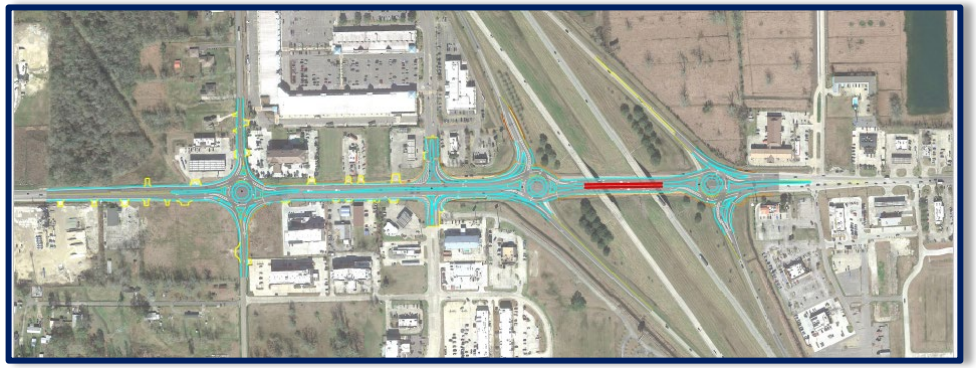
Firm's Role: Stanley Consultants provided engineering and related services to develop construction plans for roundabouts at the intersection of LA 30 and Tanger Blvd, and at the Eastbound and Westbound ramp termini at the LA 30 and I-10 Interchange in Gonzales, LA.

Project Description: Stanley Consultants provided engineering and related services to develop construction plans for roundabouts at the intersection of LA 30 and Tanger Blvd, and at the Eastbound and Westbound ramp termini at the LA 30 and I-10 Interchange in Gonzales, LA. Early and often coordination with DOTD's Traffic and Road Design Sections resolved concerns related to constructability issues and roundabout operations. Design decisions, criteria, and geometry were developed to accommodate the large retail center's average daily traffic and heavy trucking presence. Complicating things were multiple interim improvements along LA 30 which were under construction while this design was underway. Our team had to be nimble to keep up with and accommodate the many changes and evolving conditions, including a new development directly adjacent to one of the roundabouts.

Team Members:
J Tisdale, PE
A Fields, PE
J Blohowiak, PE
K Lafitteau, EI
H Newhard, PE

PROJECT SUCCESS

The addition of multiple roundabouts in this corridor greatly diminished the availability of ROW needed to incorporate a complete streets section. Stanley Consultants worked closely with DOTD and local stakeholders to develop a plan that provided for the desired multimodal movements.



"The consultant has been a pleasure to work with from the beginning of the project through the final plan submittal. The lead designer, Jesse Tisdale has been a true partner in delivering the best project for the department."

~Project Evaluation Narrative, DOTD PM

Firm Name	**Stanley Consultants, Inc.**	Past Performance Evaluation Discipline(s)*	Road
Project Name	**Stone Rd to Powell Dr Extension**	Firm Responsibility (Prime Or Sub?)	Prime
Project Number	19-058	Owner's Name	St. Tammany Parish Government
Project Location	St. Tammany Parish, LA	Owner's Project Manager	Truman "Trip" Sharp
Owner's Address, Phone, Email	21545 Koop Drive, Mandeville, LA 70471, 985.898.2552, tdsharp@stpgov.org		
Services Commenced By This Firm (MM/YY)	10/19	Total consultant contract cost ($1,000's)	$424
Services Completed By This Firm (MM/YY)	Ongoing	Cost of consultant services provided by this firm ($1,000's)	$245

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

Firm's Role: Stanley Consultants was contracted by the Parish to provide engineering services for the Stone Rd to Powell Dr. Extension project in Slidell, LA, which is a greenfield roadway project to extend the existing Stone Road northward to Powell Drive, and improvements to an existing portion of Powell Drive.

Project Description: Stone Road is an urban collector south of I-12 in St. Tammany Parish. It provides access to a collection of warehouses and is a large truck route. This extension project improves Powell Drive and provides an alternate route for large trucks to avoid the Ben Thomas community. This project includes significant right of way and environmental impact coordination as the extension of Stone Road will cross through Bayou Vincent and into the existing Powell Drive community. Design elements for this project include design of drainage facilities, signing and pavement markings, and erosion control. Due to the complicated nature of property ownership inheritance in St. Tammany, significant effort was made during the design phase to avoid right of way impacts to the properties south of Powell Drive. This is a greenfield project along new alignment.

PROJECT SUCCESS

We are currently at the 98% Final Plans stage for this greenfield roadway design project along new alignment. Stanley Consultants successfully coordinated the design to avoid having to make any residential property takings during the right-of-way acquisition process.

Team Members:
B Roussel, PE, PMP
J Tisdale, PE
A Fields, PE
A Carter, PE
J Blohowiak, PE
T Barr, PE
K Lafitteau, EI

Firm Name	**Stanley Consultants, Inc.**	Past Performance Evaluation Discipline(s)*	Road, Traffic, Bridge
Project Name	**SR 24, Ellsworth Road to Ironwood Road, Final Design**	Firm Responsibility (Prime Or Sub?)	Prime
Project Number	ADOT TRACS No. H73801D Federal Aid No. 017-A (248)	Owner's Name	Arizona Department of Transportation
Project Location	Mesa, AZ	Owner's Project Manager	Derek B. Boland, PE
Owner's Address, Phone, Email	205 S. 17th Ave., #295, MD 614E, Phoenix, AZ 85007, 602.712.6660, dboland@azdot.gov		
Services Commenced By This Firm (MM/YY)	01/2020	Total consultant contract cost ($1,000's)	$6,814
Services Completed By This Firm (MM/YY)	05/2021	Cost of consultant services provided by this firm ($1,000's)	$4,121

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

Firm's Role: As the prime consultant, Stanley Consultants was the prime engineer, responsible for multi-discipline final design and construction documents for 5 miles of new interim urban freeway from Ellsworth Road to Ironwood Drive.

Project Description: SR 24 is a controlled access urban principal freeway providing a vital link between the southeastern Maricopa and Pinal County communities to the Phoenix metropolitan area. The five-mile interim expansion reduces local street traffic congestion in the surrounding communities, supports existing and predicted traffic demands, and promotes economic development. The ultimate freeway was designed from the outside-in to establish right-of-way with three general purpose lanes, one auxiliary lane, and one HOV lane in each direction. Then the design was purposefully scaled back to the interim design with two lanes in each direction with the future ultimate build-out planned towards the median. The project includes utility, R/W, and environmental clearances and coordination with multiple agency stakeholders and utilities. Design elements include 4 new crossroad service traffic interchanges (TI), 2 new precast concrete girder overpass bridges, retaining walls, onsite and offsite drainage facilities, roadway lighting, traffic signals, FMS/ITS, signing and pavement marking, erosion control, utility relocations, and MOT.

Due to the open desert location of SR 24, erosion and sediment transport was a major scope item. We wrote in the Specifications specific mitigation requirements for erosion control. Through discussions with ADOT Maintenance, our design provided easy access to facilities for maintenance while serving engineering design and functionality of the pavement and drainage on SR 24.

PROJECT SIMILARITIES

- Urban Freeway on New Alignment (5 Miles)
- Bridge Design
- Traffic Signing & Marking
- Maintenance of Traffic
- Construction Phasing

Team Members:
D Shiosaka, PE
G Melita, PE
H Newhard, PE

Firm Name	**Crescent Engineering & Mapping, LLC**	Past Performance Evaluation Discipline(s)*	Road, Survey
Project Name	**LA 3127 Widening (LA 20 to LA 3213)**	Firm Responsibility (Prime Or Sub?)	Prime
Project Number	TBD	Owner's Name	St. James Parish Government
Project Location	Vacherie, LA	Owner's Project Manager	Ryan Larousse
Owner's Address, Phone, Email	5800 LA Hwy 44, Convent, LA 70723, 225.206.1379, ryan.larousse@stjamesparishla.gov		
Services Commenced By This Firm (MM/YY)	04/22	Total consultant contract cost ($1,000's)	$1,525
Services Completed By This Firm (MM/YY)	Ongoing	Cost of consultant services provided by this firm ($1,000's)	$1,180

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

Firm's Role / Project Description: The LA 3127 Widening project involves widening 3.5 miles of existing 2-lane roadway to a 4-lane divided section with a 64' wide, depressed median, directional U-turns, Restricted Crossing U-turns (R-CUT's) and multi-lane roundabouts at LA 3213 and LA 20. The project includes traffic studies, feasibility, planning/environmental, topographic surveys, roadway design, geotechnical, and contract management. The traffic study was prepared in accordance with LADOTD TEPR guidelines and all project scoping including survey and roadway design is in accordance with LADOTD design guidelines and requirements for plan production due to current state funding and anticipated federal funding.

Crescent Engineering & Mapping, LLC is the prime consultant for the project and is responsible for all topographic surveying, hydraulic analysis and roadside drainage, Level 3 TMP, roadway design, utility coordination, permit drawings and agency coordination, subconsultant coordination, and plan production for Preliminary and Final plans. The topographic survey included a 350' wide DTM, nearly 5 miles in length, and was completed in accordance with LADOTD requirements and processed in Microstation / Inroads, certified by CADConform. The project's design and drawings are also being developed per LADOTD design guidelines and plan requirements using Microstation/Inroads. Construction cost is estimated at over $12 million. Crescent has completed all surveying and the traffic study is near complete along with the initial line & grade and roundabout layouts. The 60% Preliminary Plans are due in December 2023.

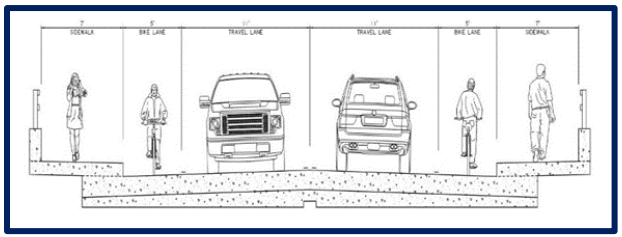
Team Members:
D Hymel, Jr, PE
A Falcon, PE
M Ledet, PLS
K Jones
L Bourg
J Ledet, PE
P Olivier, PE
K Holley
W Cupit

Firm Name	**Crescent Engineering & Mapping, LLC**	Past Performance Evaluation Discipline(s)*	Road, Bridge, Survey
Project Name	**McHugh Road over Brushy Bayou**	Firm Responsibility (Prime Or Sub?)	Prime
Project Number	H.014992	Owner's Name	Louisiana Department of Transportation and Development (LADOTD)
Project Location	Baker, LA	Owner's Project Manager	Barbara Ostuno, PE
Owner's Address, Phone, Email	1201 Capitol Access Rd., Baton Rouge, LA 70802, 225.379.1047, barbara.ostuno@la.gov		
Services Commenced By This Firm (MM/YY)	12/22	Total consultant contract cost ($1,000's)	$147
Services Completed By This Firm (MM/YY)	Ongoing	Cost of consultant services provided by this firm ($1,000's)	$135

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

Firm's Role / Project Description: The McHugh Road over Brushy Bayou project involves the replacement of an existing 24' x 57', 3-span concrete bridge and adjacent shared use pedestrian/bicycle path in East Baton Rouge Parish near Baker, LA. Included in this urban project are associated roadway and sidewalk/pedestrian facilities. The replacement structure will include 7' wide cantilever sidewalks and 5' bike lanes on both sides of the bridge structure. The project includes topographic surveys, bridge design, roadway design, and environmental. The bridge structure is 32' clear, skewed 23' RC slab spans in order to mitigate major utility conflicts. The bridge is being designed using OpenBridge Designer, STAAD, and LRFR using AASHTOWare BrR.

Team Members:
D Hymel, Jr., PE
A Falcon, PE
P Olivier, PE
M Ledet, PLS
K Jones
L Bourg
J Ledet, PE
K Holley
W Cupit



Crescent Engineering & Mapping, LLC is the prime consultant for the project and is responsible for the topographic surveys, hydraulic analysis, roadway design, special bridge design, sidewalk/bike path design, and roadway/bridge plan production. Hydraulic analysis was performed using HEC-RAS as well as LADOTD HYDRWIN programs for storm drainage networks. All LADOTD design criteria, Complete Streets policies and plan production requirements including Bentley Microstation/Inroads and CadConform are being followed per LADOTD contract requirements. Crescent has completed survey, hydraulics, roadway/bridge design and Preliminary Plans. Final Plans will begin after NEPA clearance is obtained.

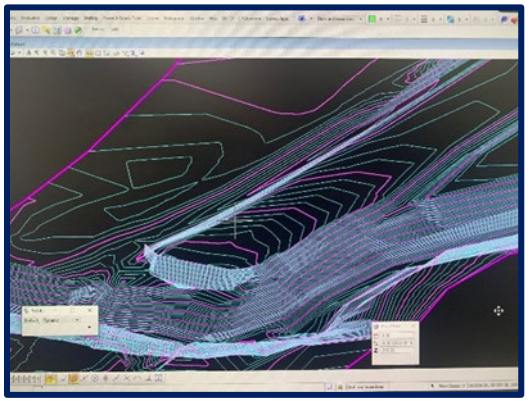
Firm Name	**Crescent Engineering & Mapping, LLC**	Past Performance Evaluation Discipline(s)*	Road, Survey, Bridge
Project Name	**Tangipahoa IIJA Bridge Replacements**	Firm Responsibility (Prime Or Sub?)	Prime
Project Number	H.015404, H.015407, H.015333	Owner's Name	Tangipahoa Parish, LADOTD
Project Location	Tangipahoa Parish, LA	Owner's Project Manager	Misty Evans, PE / Ryan Rodney
Owner's Address, Phone, Email	206 E. Mulberry St., Amite, LA 70422, 985.244.6880, mevans@tangipahoa.org		
Services Commenced By This Firm (MM/YY)	04/22	Total consultant contract cost ($1,000's)	$677
Services Completed By This Firm (MM/YY)	Ongoing	Cost of consultant services provided by this firm ($1,000's)	$447

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

Firm's Role / Project Description:

The Tangipahoa Parish IIJA Bridges is part of the District 62 IIJA (BIL) bridge replacement project and involves the replacement of 4 bridge structures on E. Lewiston, Easley and Old Gennessee roads in Tangipahoa Parish. Grouped into three (3) state projects, each project includes topographic surveys, hydraulics analysis, scour, bridge design, roadway design, geotechnical, environmental and contract management.

Crescent Engineering & Mapping, LLC is the prime consultant for the project and is responsible for the topographic surveys, hydraulic analyses and modeling, scour, bridge design, roadway design, LRFR, utility surveys and roadway/bridge plan production. The project's topographic survey included nearly 1.5 miles of 140-160' wide. DTM surveys within the existing, heavily wooded R/W. Hydraulic analysis was performed using GEOHEC-RAS and HEC-HMS as well as LADOTD's HYDRWIN for roadside drainage. Structures and RCB's are being rating using AASHTOWare BrR.



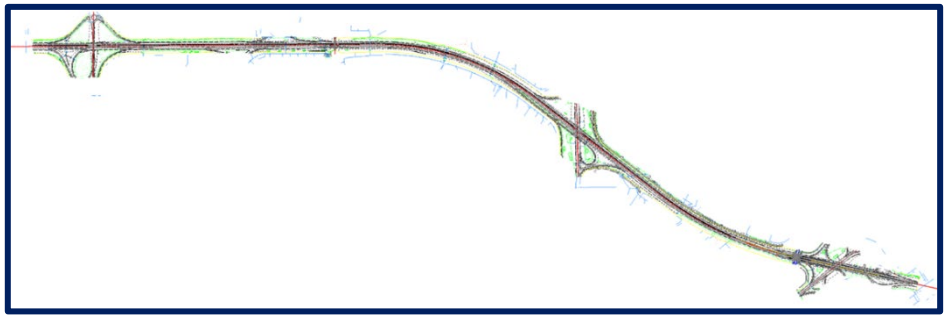
Crescent has completed the topographic surveys, hydraulic analysis, road design, bridge design and Preliminary Plans. Environmental in pending CE approval and geotechnical investigations are complete.

Team Members:
D Hymel, Jr., PE
M Ledet, PLS
A Falcon, PE
K Jones
L Bourg
P Olivier, PE
J Ledet, PE
W Cupit

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	Louisiana Department of Transportation and Development (LADOTD)
Project Location	Ouachita Parish, LA	Owner's Project Manager	Steve LeBlanc, PLS
Owner's Address, Phone, Email	1201 Capital Access Rd., Baton Rouge, LA70802; 225.379.1292; steve.leblanc2@la.gov		
Services Commenced By This Firm (MM/YY)	05/22	Total consultant contract cost ($1,000's)	$394
Services Completed By This Firm (MM/YY)	01/23	Cost of consultant services provided by this firm ($1,000's)	$394

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

Firm's Role / Project Description: 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:
R Riggin, PE, PLS
R Hammons, PE
J Ellingburg, PE
N Sampognaro, PE

Firm Name	**Lazenby & Associates, Inc.**	Past Performance Evaluation Discipline(s)*	Road, Survey
Project Name	**Arkansas Road (West Monroe) LA 616**	Firm Responsibility (Prime Or Sub?)	Prime
Project Number	H.002622	Owner's Name	Louisiana Department of Transportation and Development (LADOTD)
Project Location	Ouachita Parish, LA	Owner's Project Manager	Fred Borne, PE (retired)
Owner's Address, Phone, Email	1201 Capital Access Rd, Baton Rouge, LA 70802, 225-379-1388, fred.borne@la.gov		
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.)

Firm's Role / Project Description: 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.

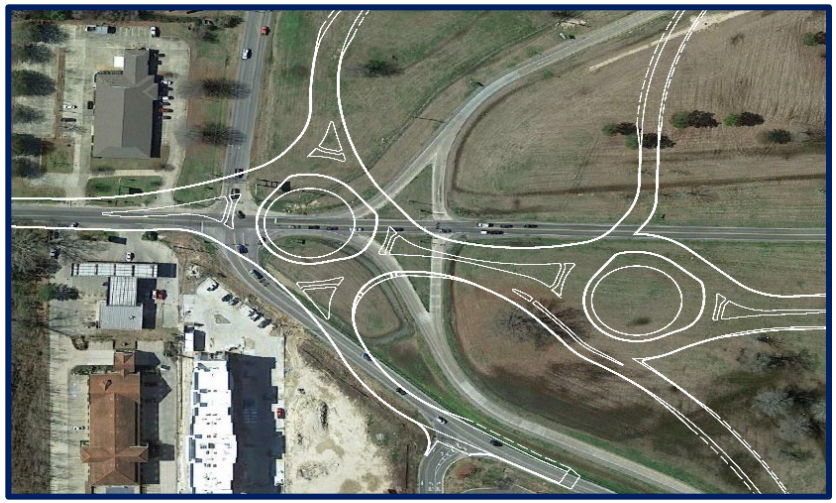
Lazenby & Associates, Inc., performed topographic surveys and property surveys, and prepared preliminary plans, final plans, and right-of-way maps. Major design components were road design, hydraulic analysis and design, geometric design, signing and striping, and sequence of construction. Challenges 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.

Team Members:
J. Lazenby, PE, PLS
P Fryer, PE, PLS
R Riggin, PE, PLS
J Spillers, PE
J Ellingburg, PE
R Hammons, PE

Firm Name	**Lazenby & Associates, Inc.**	Past Performance Evaluation Discipline(s)*	Road, 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	Louisiana Department of Transportation and Development (LADOTD)
Project Location	Ouachita Parish, LA	Owner's Project Manager	Catherine Mastin, PE
Owner's Address, Phone, Email	1201 Capital 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
Services Completed By This Firm (MM/YY)	Ongoing	Cost of consultant services provided by this firm ($1,000's)	$1,436

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

Firm's Role / Project Description: 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., 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. Lazenby & Associates also assisted in the environmental clearance process, preparing exhibits for and assisting with the public meetings and preparing permit drawings.

Team Members:
J Lazenby, PE, PLS
P Fryer, PE, PLS
R Riggin, PE, PLS
J Spillers, PE
J Ellingburg, PE
R Hammons, PE
H Lawrence, PE
N Sampognaro, EI

Firm Name	**APS Engineering and Testing, LLC**	Past Performance Evaluation Discipline(s)*	Geotech
Project Name	**I-10 Widening LA 415 to Essen LN**	Firm Responsibility (Prime Or Sub?)	Sub
Project Number	H.004100	Owner's Name	Louisiana Department of Transportation and Development (LADOTD)
Project Location	Baton Rouge, LA	Owner's Project Manager	Kristy Smith, PE
Owner's Address, Phone, Email	1201 Capital Access Rd, Baton Rouge, LA 70802, 225-379-1016, kristy.smith2@la.gov		
Services Commenced By This Firm (MM/YY)	09/19	Total consultant contract cost ($1,000's)	Unknown
Services Completed By This Firm (MM/YY)	05/23	Cost of consultant services provided by this firm ($1,000's)	$400

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

Firm's Role / Project Description: This project involved geotechnical investigation to provide the client with necessary information for planning and design of City Park Lake bridge and retaining walls as part of the I-10 widening project. APS was tasked through our DOTD geotechnical retainer to drill and sample a total of 52 deep borings (80-140ft) starting at the Washington exit and ending at the LSU Lakes. Along with this drilling and sampling, APS tested for strength and engineering characteristics of the soils. A total of eight (8) over the water borings and 44 land borings with approximately 1000 triaxial compression, unconsolidated drained or undrained (uu) and atterberg limits performed.

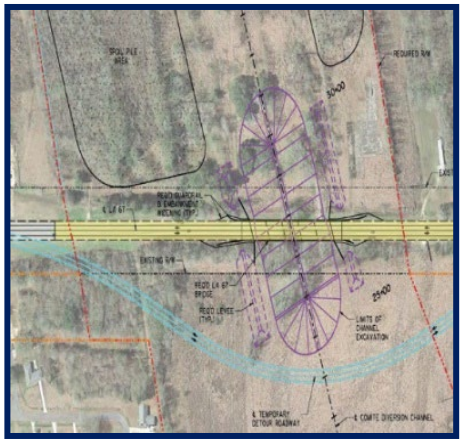
Team Members:
S Aviles, PE
S Eddanapudi, ME, PE
S Pathak, MS, PE

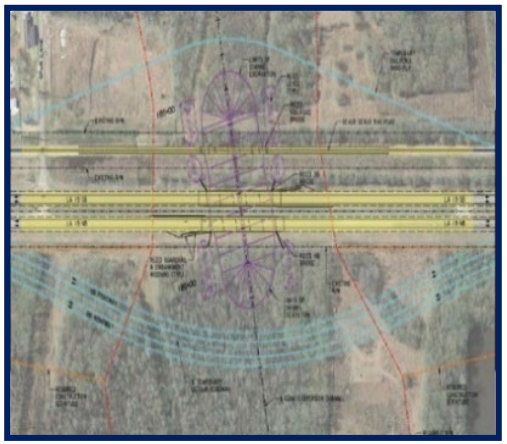
Firm Name	**APS Engineering and Testing, LLC**	Past Performance Evaluation Discipline(s)*	Geotech
Project Name	**Comite River Diversion Bridge at LA-67, LA-19 and LA-19 Railroad**	Firm Responsibility (Prime Or Sub?)	Sub
Project Number	H.001352 and H.002273	Owner's Name	Huval & Associates, Inc.
Project Location	East Baton Rouge Parish, LA	Owner's Project Manager	Thomas Gattles, III, PE
Owner's Address, Phone, Email	922 West Pont des Mouton Rd, Lafayette, LA 70507, 337.234.3798, tgattle@huvalassoc.com		
Services Commenced By This Firm (MM/YY)	05/20	Total consultant contract cost ($1,000's)	Unknown
Services Completed By This Firm (MM/YY)	06/23	Cost of consultant services provided by this firm ($1,000's)	$150

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

Firm's Role / Project Description: This project involved geotechnical engineering to provide the client with necessary information for planning and building of LA-19 railroad bridge - slope stability (embankment), LA-19 railroad bridge – embankment / MSE wall settlement / retaining wall, LA-19 twin bridges - PPC piles, LA-67 bridge - drilled shafts. All the necessary design will be performed by APS. APS drilled and sampled a total of 19 borings ranging between 50ft. and 110ft in depth. Testing of collected soil samples was performed in house by APS laboratory. The testing schedule included visual classification as well as standard methods for determining moisture content, liquid limit, plastic limit and plasticity, unconsolidated-undrained triaxial compression, and one-dimensional consolidation.

Team Members:
S Aviles, PE
S Eddanapudi, ME, PE
S Pathak, MS, PE



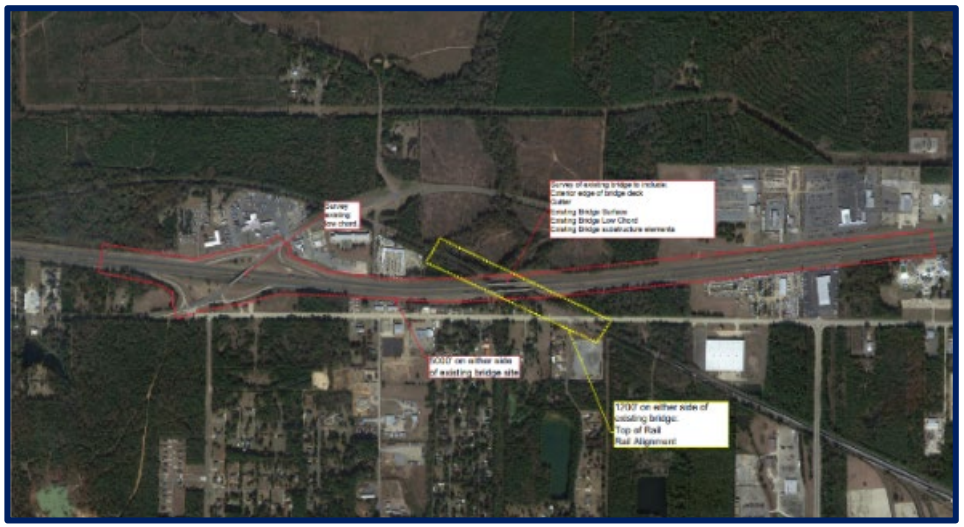


Firm Name	**APS Engineering & Testing, LLC**	Past Performance Evaluation Discipline(s)*	Geotech
Project Name	**I-20: Missouri Pacific RR Overpass**	Firm Responsibility (Prime Or Sub?)	Sub
Project Number	H.012027	Owner's Name	Huval & Associates, Inc.
Project Location	Caddo Parish, LA	Owner's Project Manager	Reid Romero, PE
Owner's Address, Phone, Email	922 West Pont des Mouton Rd, Lafayette, LA 70507, 337.234.3798, rromero@huvalassoc.com		
Services Commenced By This Firm (MM/YY)	05/23	Total consultant contract cost ($1,000's)	Unknown
Services Completed By This Firm (MM/YY)	Ongoing	Cost of consultant services provided by this firm ($1,000's)	$122

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

Firm's Role / Project Description: This Project involves geotechnical investigation and design in preparation for the replacement of an I-20 bridge crossing the Missouri Pacific Railroad. APS drilled and sampled four (4) deep borings and tested the soils for strength and engineering characteristics. All laboratory testing was performed in house. APS will provide the client with settlement analysis, slope stability analysis, pile embedment and sheet pile wall recommendations as well as design and general construction recommendations in the final geotechnical report.

Team Members:
S Aviles, PE
S Eddanapudi, ME, PE
S Pathak, MS, PE



Firm Name	**Terracon Consultants, Inc.**	Past Performance Evaluation Discipline(s)*	Geotech
Project Name	**I-49 South at Verot School Road**	Firm Responsibility (Prime Or Sub?)	Sub
Project Number	H.011235	Owner's Name	Louisiana Department of Transportation and Development (LADOTD)
Project Location	Lafayette, LA	Owner's Project Manager	Corey Landry, PE
Owner's Address, Phone, Email	1201 Capital Access Rd, Baton Rouge, LA 70802, 225-379-1387, corey.landry@la.gov		
Services Commenced By This Firm (MM/YY)	06/18	Total consultant contract cost ($1,000's)	Unknown
Services Completed By This Firm (MM/YY)	02/22	Cost of consultant services provided by this firm ($1,000's)	$442

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

Firm's Role / Project Description: Terracon was the geotechnical subconsultant to Huval and Associates. Terracon performed 30 deep borings, 67 shallow borings, including 33 located within the existing roadways, 15 CPT soundings, lab testing, installed and monitored piezometer, and prepared soil surveys and boring logs for planned new bridges, roadway widening, and retaining wall structures.

Prior to mobilizing exploration equipment, Terracon's drilling manager and drilling personnel conducted extensive site visits to mark boring locations, meet with private landowners and utility locators, and verify boring access and site conditions. Terracon coordinated field activities with DOTD district personnel, including the required traffic control. Traffic control, including shoulder and both daytime and overnight lane closures, was required to complete several borings. Terracon mobilized multiple pieces of exploration equipment to complete all fieldwork in a timely and provided regular updates to team members about the project.

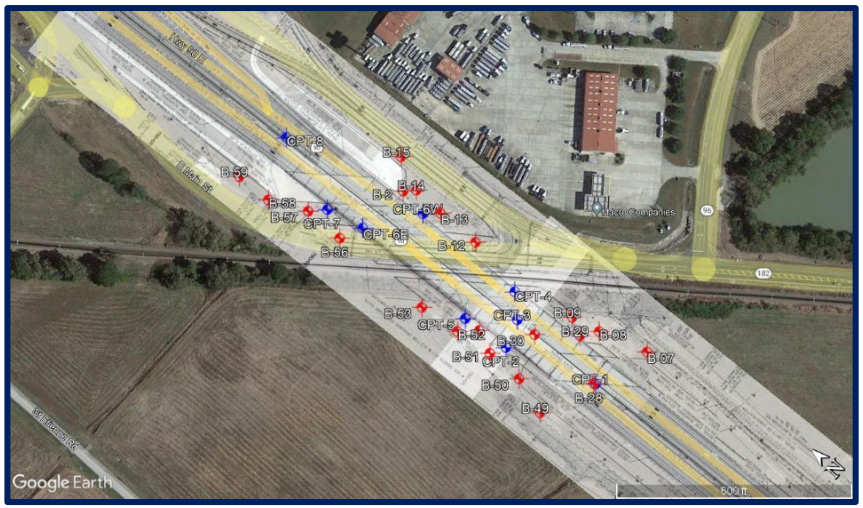
After completing the field exploration and lab testing programs, Terracon prepared pile nominal resistance calculations for the planned bridge substructures in accordance with DOTD standards. Terracon additionally performed stability and settlement analyses for the MSE Walls. Terracon communicated with the design team and updated the analyses and recommendations throughout the design process, as necessitated by changes in the design.

Team Members:
S Greaber, PE
L Roussel, PE
R Poindexter, PE
M Minton
B Alexander

Firm Name	**Terracon Consultants, Inc.**	Past Performance Evaluation Discipline(s)*	Environmental
Project Name	**US 90 (I-49 South) Albertsons Parkway Design Build**	Firm Responsibility (Prime Or Sub?)	Sub
Project Number	H.010620	Owner's Name	Louisiana Department of Transportation and Development (LADOTD)
Project Location	Broussard, LA	Owner's Project Manager	Peggy Jo Paine, PE
Owner's Address, Phone, Email	1201 Capital Access Rd, Baton Rouge, LA 70802, 337.475.4287, peggy.paine@la.gov		
Services Commenced By This Firm (MM/YY)	02/15	Total consultant contract cost ($1,000's)	Unknown
Services Completed By This Firm (MM/YY)	12/18	Cost of consultant services provided by this firm ($1,000's)	$350

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

Firm's Role / Project Description: Terracon provided the geotechnical design of the substructure of two bridges and global stability and settlement analysis for several MSE walls to be constructed as part of this design-build project. Terracon developed nominal capacity and resistance factors for pile foundations for the bridge substructures and developed driving criteria using WEAP analysis for the proposed pile driving equipment. Dynamic Pile Testing was performed during construction to verify pile capacities. Terracon reviewed the CAPWAP results and provided recommendations for adjustment of the resistance factors or pile order lengths to accommodate slight variations in nominal capacity obtained at each bent. Terracon also provided construction phase support to the design-build contractor in evaluating settlement monitoring data for the MSE walls for compliance with the contract requirements, pile bent acceptance, resolving NCRs, and supporting the evaluation of RFIs.



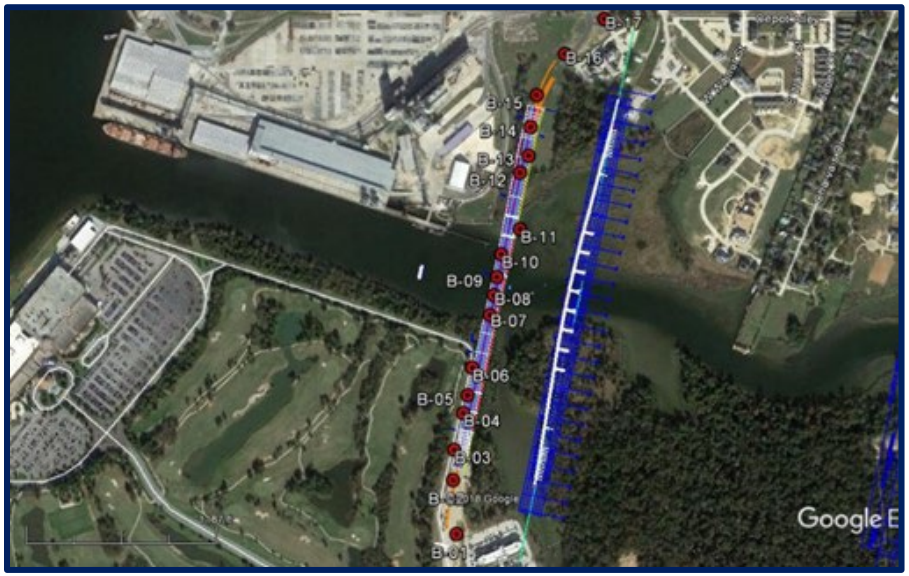
Team Members:
S Greaber, PE
L Roussel, PE
R Poindexter, PE
M Minton
B Alexander

Firm Name	**Terracon Consultants, Inc.**	Past Performance Evaluation Discipline(s)*	Geotech
Project Name	**Nelson Road Extension and Bridge**	Firm Responsibility (Prime Or Sub?)	Prime
Project Number	H.009481	Owner's Name	Louisiana Department of Transportation and Development (LADOTD)
Project Location	Lake Charles, LA	Owner's Project Manager	Kristy Smith, PE
Owner's Address, Phone, Email	1201 Capital Access Rd, Baton Rouge, LA 70802, 225-379-1016, kristy.smith2@la.gov		
Services Commenced By This Firm (MM/YY)	07/18	Total consultant contract cost ($1,000's)	$364
Services Completed By This Firm (MM/YY)	12/18	Cost of consultant services provided by this firm ($1,000's)	$364

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

Firm's Role / Project Description: Terracon provided soil borings, lab testing, boring logs, and engineering for a planned roadway extension and bridge. Provided pile nominal capacity calculations and recommendations for resistance factors for design. Provided design support for impact dolphins to be placed in front of the bridge to protect the superstructure from impact by large ships from the adjacent Port of Lake Charles.

Team Members:
S Greaber, PE
L Roussel, PE
R Poindexter, PE
M Minton
B Alexander



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	Louisiana Department of Transportation and Development (LADOTD)
Project Location	Lacombe, LA	Owner's Project Manager	Joachim Umeozulu, PE
Owner's Address, Phone, Email	1201 Capital Access Rd, 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.)

Firm's Role / 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.

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:

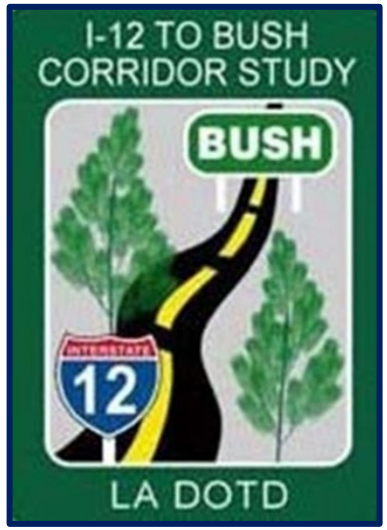
- Performed Vistro and Sidra analyses for existing conditions
- Performed Vistro and Sidra analyses for Implementation and Design Years.
- Intersection alternatives included restricted median openings, signalized and unsignalized intersections,
- median U-turns at existing signal locations, restricted 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

- Developed 3-year crash analyses report as per DOTD standards

Team Members:

B Ferlito, PE, PTOE
B Robicheaux PE, PTOE
L Lambert, PE, PTOE



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	CP 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.)

Firm's Role / Project Description: As part of the East Baton Rouge Parish MOVEBR ($912 Million Dollar) Program, Vectura currently 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:

Scope
- Purpose and need, contract scopes, manhours and fees

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
- Defined problems

Tier 1
- Preliminary high-level list of alternatives based on defined problems and established comparison criteria.

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

Design
- Confirmed design plans matched recommendations in the Traffic and Design Studies
- Reviewed construction plans including geometric layout, striping, signs, roundabout and traffic signal design
- Plan in Hand, coordinated with EBR TED, DOTD, utilities, consultant team

Team Members:
B Ferlito, PE, PTOE; L Lambert, PE, PTOE; B Robicheaux, PE, PTOE; R Rodrigue, PE, PTOE; K Farrington, PE, PTOE; C Foshee, PE

Firm Name	**Vectura Consulting Services, LLC**	Past Performance Evaluation Discipline(s)*	Traffic
Project Name	**LA 1 at LA 990 Crosswalk Study and Traffic Signal Design**	Firm Responsibility (Prime Or Sub?)	Prime
Project Number	H.011558	Owner's Name	West Baton Rouge 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)	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.)

Firm's Role / Project Description: 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.

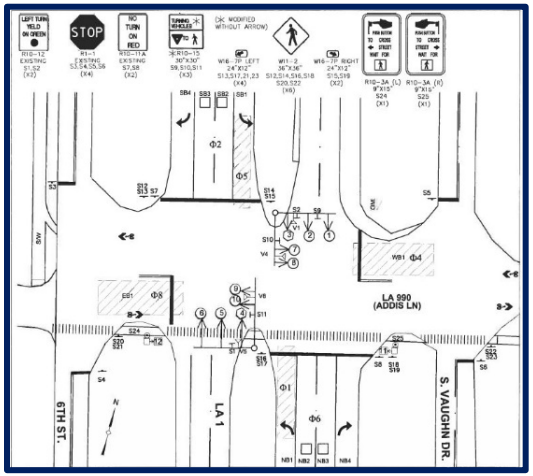
A Crosswalk Traffic Engineering Study was performed based on the Traffic Engineering Manual (TEM) Section 3B.2.9, Section 20.2 & EDSM VI.3.1.6 Section 5 and included the following elements:

- 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

Traffic Signal Construction Plans was performed 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.

Vectura also assisted with the DOTD Permit Request for Intersection Control Devices on a State Right of Way.

Team Members:
B Ferlito, PE, PTOE
R Rodrigue, PE
B Robicheaux PE, PTOE
L Lambert, PE, PTOE



Section 18

I-69 Frontage Roads:
Existing Conditions Map

18. Approach and Methodology

INTRODUCTION

The future I-69 project consists of a new interstate that would run from the Mexico-USA border in southern Texas across 8 states to the USA-Canada border in the Port Huron area of Michigan. The alignment would potentially pass through De Soto, Caddo, Bossier, Webster, and Claiborne Parishes as it traverses through Louisiana. This subject contract includes the construction of a frontage road for this future I-69 project. Three separate segments, each with their own state project number, will be assigned to this contract.

The I-69 Frontage Road project represents an immense opportunity for stimulating economic development within the Northwest Louisiana Council of Government (NLCOG) region. This infrastructure improvement project will bring greatly enhanced connectivity to this Future I-69 Corridor, creating opportunities for new businesses to flourish and existing businesses to grow and expand. The importance of this opportunity is demonstrated by the joint efforts of stakeholders such as the Port of Caddo-Bossier (the Port), Caddo, Desoto, and Bossier Parish Governments, the Coordinating and Development Corporation (CDC), and the Louisiana Department of Transportation and Development (DOTD) among others to move this project forward. The Port of Caddo-Bossier has a particularly high level of interest in seeing this contract successfully executed as it will provide a direct connection from I-49 to the Port.

Based on site visits, discussions with the DOTD Project Manager, and discussions with the Port's Director of Operations, the Stanley Consultants Team has a clear vision of project requirements. This 24-102 will illustrate that our team best exhibits a combination of similar firm project experience, similar staff project experience, appropriate firm size to handle a large transportation design project, excellent past performance narratives from DOTD, the availability necessary to deliver an accelerated project schedule, and an understanding of the approach and methodology required to ensure a smooth project kickoff and eventual project success.

Our team is able to show the following types of projects in our firm and staff resumes. These types of projects contain elements that are similar in nature to the I-69 Frontage Roads project:

- ✓ Roadway Design Along New Alignment (Greenfield)
- ✓ Concurrent design of three adjacent projects of similar total project length (approx. 10 miles) under accelerated schedules requiring cross-consultant collaboration.
- ✓ Large Scale Urban Freeway Road Design Experience

TEAMWORK

We have strategically assembled and organized a team that provides similar firm and staff experience, a presence in North Louisiana, workload availability, and redundancy in staff and capabilities. Stanley Consultants and many of our critical teaming members have ample experience in the design of roadways in a green field environment. Some of the most notable projects our team members have worked on include the design of the Stone Road Extension project in St. Tammany Parish, Dijon Drive Extension and Harveston Way in Baton Rouge, and a segment of I-12 to Bush for LADOTD. These projects had similar obstacles to those that will be experienced during the design of the I-69 Frontage Road project, and our team members are prepared to bring those lessons learned while working on this project.

Continuing our highlight of similar project experience of our team members, we have direct previous experience working on three adjacent large projects along the same corridor. Stanley Consultants worked on two segments of I-12 widening directly adjacent to another segment that was being designed by Dennis Hymel and Paul Olivier. All three projects operated as independent construction plan sets, and all had their own unique and separate accelerated schedules. All three project schedules were met successfully, and all three projects have been brought from concept into construction. Two of the three have been constructed and the third is under construction now.

This experience provided great insight into the frequency and type of coordination that needs to be considered for each project depending on the letting schedule. If the projects are scheduled to be let together, at a single time or to a single contractor vs. letting at separate times to multiple contractors will have an impact on what design decisions need to be made. It will impact things like drainage design and structure placement, suggested sequencing of construction, sign requirements, sign placement, and the amount of construction coordination that will be required during construction.

Considering our experiences working with another consultant on three adjacent large projects concurrently, Stanley Consultants has taken a unique approach to the organization chart for this contract. We have decided to create an overall contract manager role with each unique State Project Number receiving an individual deputy project manager (DPM) that will report up to the contract manager. This organization structure will allow each individual project to receive a dedicated DPM with the necessary availability to focus on that specific project while also providing someone to ensure that all three individual projects are being coordinated with each other. The Contract Manager will remain as the single point of contact to the DOTD PM. Our DPMs will perform all of the internal project management tasks required to maintain project progress.

Our Team has assigned Jesse Tisdale, PE to the Contract Manager role in addition to serving as DPM on one of the three individual projects. Jesse will rely on his experience coordinating the two Stanley Consultants I-12 projects with the I-12 project that was led by Dennis Hymel, PE and Paul Olivier, PE. As the Contract Manager, Jesse will ensure overall scope, schedule, and budget compliance throughout the duration of this contract.

Jesse has recently led projects fitting each of the three aforementioned criteria for similar project experience:

✓ Roadway Design Along New Alignment = Stone Road Extension, Dijon Road Extension, and Harveston Way
✓ Concurrent design of two of three adjacent projects of similar total project length (approx. 10 miles) under accelerated schedules requiring cross-consultant collaboration. = I-12 (LA 1077 to LA 21) & I-12 (LA 21 to US 190)
✓ Large Scale Urban Freeway Roadway Design = I-20 Widening

In addition to Jesse, Blake S. Roussel, PE, PMP, and Adam Fields, PE will also serve as deputy project managers. Ed Wedge will serve as Client Service Manager assisting the team with stakeholder coordination.

PROJECT UNDERSTANDING

GENERAL CRITICAL ISSUES

RIGHT-OF-WAY (ROW). All three projects include significant roadway design. There are portions of new alignment and portions of roadway widening. Considering this, one consistent

issue to note across all three projects is Right-Of-Way (ROW). It will be imperative to consider ROW impacts as proposed alignments and typical sections are finalized.

I-69: CRITICAL ISSUES MAP

H.005184 (STONEWALL FRIERSON RD TO ELLERBE RD) is the middle project of the I-69 Frontage Roads contract and will provide a connection between the existing Stonewall-Frierson Rd to the beginning of H.014054. Per the advertisement, it will consist of two 12-foot travel lanes with 10-foot outside shoulders, utilizing open ditch drainage. This is a greenfield project through heavily forested land along completely new alignment for a distance of approximately 2.6 miles. In addition to providing connectivity, this project between Ellerbe Road in Caddo Parish and Stonewall Frierson Road in DeSoto Parish will maintain access to properties along Old Church Road and improve area access for police, fire protection, and emergency medical services.

CRITICAL ISSUES

NEW BRIDGE CROSSING. A variety of challenges will need to be addressed to design a bridge structure downstream of the Wallace Lake dam as well as extensive coordination required with its operators. In addition, this area was flooded extensively in March 2016, reaching a record high of 160.4', near 20' above natural ground.

POTENTIAL RESIDENTIAL TAKINGS NEAR ELLERBE ROAD. There are several residences that will potentially need to be taken in order to secure ROW for the approved alignment. Opportunities to tweak the alignment will be looked at during the preliminary design process.

Potential Residential Takings

VERTICAL ELEVATION CHANGES. This project will require significant elevation changes along the new alignment. Based on conceptual level data, there could be up to 100' of elevation change. Earthwork balancing will be critical in order to reduce embankment costs.

UTILITY AND PIPELINE COORDINATION. There is an existing power utility corridor within the limits of this project that will be crossed by this new alignment. This will require coordination with the power utility in question.


Utility Corridor Crossing

This project's alignment must avoid several existing well sites.


Existing Well Site

CLEARING AND GRUBBING. Significant clearing and grubbing will be required along this project. Much of the proposed alignment runs through a heavily forested area. This will result in increased labor costs for surveying activities. **An advanced clearing and grubbing construction package should be discussed during project scoping phase.**

H.014054 (ELLERBE RD TO LA 1) is the eastern most project connecting the project end of H.005184 to the end of the I-69 Frontage Roads route at the intersection of Doug Attaway Blvd and LA 1. Per the advertisement, it will consist of two 12-foot travel lanes with 10-foot outside shoulders utilizing open ditch drainage. Portions of this route are new alignment and portions of this route encompass Robson Road, which will require upgrading via widening.

Critical Issues

Structures. This project will include three structures. It is expected that the two existing bridges along Robson Road, Chico Bayou Relief bridge, and the Bayou Pierre bridge will require widening to accommodate the proposed typical section, and one new bridge will be designed and constructed over Chico Bayou.

Our team has already **conducted a site visit to the two existing bridge structures** to identify the conditions which must be evaluated prior to designing the bridge widenings. Both structures consist of AASHTO Type III prestressed girders founded on PCC piles and both are generally in fair to good condition.

Utility and Pipeline Coordination. The north side of existing Robson Road is lined with utility poles. If a widening to the north is the selected solution, these poles will need to be relocated. There are also numerous above ground piping systems located along both sides of the existing roadway that will need to be considered during design.

Railroad Coordination. This project will require the closure of the existing at-grade Union Pacific railroad crossing at Hart's Island Rd near its intersection with LA 1, and the construction of a new crossing to align with Doug Attaway Blvd. This will require significant railroad coordination. Stanley Consultants has coordinated with railroad companies on H.011781 LA 675 & LA 87 Imp. In New Iberia to jack and bore pipe beneath railroad tracks. We have also coordinated with railroad companies on projects for local entities.

Existing UPRR Crossing to be Closed

Right-Of-Way. The Port of Caddo-Bossier owns much of the ROW required to complete H.014054. This should ease the ROW acquisition process. The state will be able to work directly with the Port during the acquisition process.

H.014056 (Stonewall Frierson) is the western most project providing access to I-49. This project's eastern terminus is located at the beginning of H.005184 near the intersection of Old Church Rd and Good Times Ln. Per the advertisement, the alignment will utilize existing Stonewall Frierson Rd for a distance of 3.1 miles, then follow along Bloxom Rd, then extend the roadway in an easterly direction along new alignment for a distance of approximately 1.1 miles. Existing Stonewall Frierson Rd and Bloxom Ln will require widening in order to construct two 12-foot travel lanes with 10-foot outside shoulders. It will utilize open ditch drainage.

Critical Issues

I-49 at Frierson Rd Traffic Movements. It is important that proper transportation planning not be overlooked during design of H.014056. The advertisement mentions that the scope of work does not consider any improvements at the I-49/Stonewall Frierson Rd interchange. It should be noted that the I-49 NB off-ramp currently experiences AM peak delays due to the high volume of left-turn movements from eastbound Frierson Rd turning onto the I-49 NB entrance ramp. A traffic study was performed, and the recommendation was to add an unsignalized restricted U-turn crossing (RCUT) at this location. This should be further discussed during the project scoping phase to determine whether this should be included into this project.

Existing Pavement Condition. It was noticed during the team's site visit that the existing pavement contains significant cracking. Considering the expected increase in truck percentage due to the improved connectivity to the Port of Caddo-Bossier, full pavement reconstruction should be discussed relative to pavement rehabilitation during the project scoping phase. Full reconstruction would also help achieve a new alignment that could help mitigate required right-of-way impacts.

PROJECT DELIVERY APPROACH AND METHODOLOGY

PROJECT MANAGEMENT

Stanley Consultants created its project management process to align with project management processes established by the Project Management Book of Knowledge (PMBOK). Our Principal-In-Charge and a DPM for one of the three individual projects, Blake Roussel, PE, PMP, has achieved his Project Management Professional (PMP) certification based on PMBOK processes.

Project Scoping. Effective communication is paramount during the scoping phase to gain a comprehensive understanding of DOTD's needs and goals for this contract. Our dedicated Team is fully prepared to actively engage and provide valuable assistance during the scoping phase. **We will come to the scoping meeting prepared with a project schedule that has received input from DOTD, anticipated design costs, and concept-level construction costs.** Our proactive approach minimizes risks and facilitates effective budget and schedule management throughout the project lifecycle.

Our Contract Manager, Jesse Tisdale, will develop our Project Management Plan (PMP) for the overall contract. Our PMP includes a detailed scope of work for the contract; detailed schedules for each project, including the number of anticipated milestone submittals, plan review meetings, and project coordination meetings; design criteria; a quality control plan; the project risk register; a stakeholder management plan, identification of any special coordination or utility needs, (i.e., railroad crossing, duct banks, transmission lines, etc.); and a communications plan.

This plan allows us to gather all the project information efficiently to review and coordinate with the DOTD PM at the kickoff meeting. **We help to guide a smooth design process!** The PMP is maintained through the life of the project, documenting all of the information developed and critical risks or concerns.

Meaningful Identification and Connection With Stakeholders. Early identification and connections with affected stakeholders, permitting agencies, landowners, utilities, and railroads will set the course for effective coordination throughout the life of the project. Stakeholder engagement will be tracked via the stakeholder management plan and will be imperative for this contract considering the numerous powerful and interested stakeholders involved in assisting with funding this contract. We understand that the Port of Caddo-Bossier (the Port), NLCOG, Caddo, Desoto, and Bossier Parish Governments, and the Louisiana Department of Transportation and Development (DOTD) are all providing funding and therefore have the power to influence the direction of the project and are very interested in seeing project success.

FACILITATING EFFECTIVE COMMUNICATION. We prioritize excellent communication as a cornerstone of successful project delivery. To foster a collaborative environment and minimize the risk of misunderstandings that can lead to cost or scheduling setbacks, we are committed to establishing regular meetings with the DOTD project Team. These regular meetings serve as a platform for open and transparent communication, enabling us to proactively address any potential issues or challenges that may arise during the project lifecycle.

SAFEGUARDING THE BUDGET. We understand the critical importance of maintaining the budget throughout the entire life cycle of a project. To mitigate the risks of change orders and cost overruns, we place great emphasis on effective and early coordination to address any factors that may impact engineering or construction budgets. A change control log will be kept by each project manager to help control design budgets.

UPHOLDING UNCOMPROMISED QUALITY. The highest standards in quality will be maintained throughout the life of each project – from pre-design activities through final project close out. Our unwavering commitment to maintaining exceptional quality is a top priority, and we employ various strategies to achieve this goal.

SURVEY

The first step in the design process will be to perform a topographic survey of the corridor, conducted by Lazenby & Associates (Lead Survey Firm) and Crescent Engineering (Support). Providing two survey firms for this contract will allow us to greatly accelerate the schedule for this task. See the project schedule included herein. We will coordinate internally to distribute the work in a manner that reduces potential sources of error. For instance, one firm will be responsible for setting all control and producing the control sketch.

GEOTECH

Similar to the surveying phase of this project, our team will also be providing two geotechnical firms to help accelerate the geotechnical investigation phase of this contract. Both APS and Terracon have significant DOTD experience. Work assignments will be divided up in a manner that reduces, and possibly eliminates, the need for coordination between firms. For example, we will avoid having one firm perform borings for one segment and the other firm performing the analysis on that same segment. We will attempt to achieve as close to a 50% / 50% split between the two firms as possible by potentially assigning the project requiring the most work effort to one firm and the other two projects under this contract to the other firm. This will be further detailed out during the scope and fee development process.

PLANNING AND ENVIRONMENTAL

There is no required environmental scope of services discussed in this advertisement. However, Stanley Consultants has national environmental resources available should it be determined that significant planning / environmental tasks are required. Required permit drawings will be prepared by Stanley Consultants.

TRAFFIC ENGINEERING

Vectura Consulting Services will be providing the required traffic services for this. Anticipated traffic scope of work includes a Level 2 TMP according to EDSM VI.1.1.8., traffic signal inventories (TSIs) and traffic signal timings, and traffic signal plans. Based on the advertisement and previously performed traffic study, a full access signalized intersection is to be provided at the LA 1 and Doug Attaway Blvd intersection. All other intersections are to include varying forms of stop-control.

As previously mentioned under critical issues, the advertisement mentions that the scope of work for this contract does not consider any improvements at the I-49 / Stonewall Frierson Rd interchange; however, Stanley Consultants is prepared to design the proposed RCUT if directed by DOTD.

BRIDGE DESIGN

Prior to beginning the bridge design task, our project team will visit the bridge sites, meet with DOTD's bridge design task manager to review overall goals of the project, and discuss design criteria and particular elements involving the project's bridge structures.

Our team has vast experience designing bridge replacements, RCBs, and bridge widenings for DOTD involving RC Slab spans, LG-25, LG-36, and LG-54 girders including complex widenings involving varying skewed, bobtail spans with AASHTO PCC girders, as well as curved and superelevated LG girder structures.

Should any Reinforced Concrete Box Culvert (RCB) structures be required for other smaller crossings, they will be evaluated hydraulically in accordance with the Hydraulics Manual and As-Designed LRFR's will be provided per DOTD requirements. Our team is experienced designing special headwall and wingwall sections for RCBs, should these become necessary for the project.

H.014054 – BRIDGE DESIGN APPROACH. Our team has already conducted a site visit to the two existing bridge structures contained within this project to identify the conditions which must be evaluated as this project moves forward into design. Both structures consist of AASHTO Type III prestressed girders founded on PCC piles and both are generally in fair to good condition.

The Bayou Pierre structure, built in 1989, has a total length of 300' consisting of six (6) 50' spans and a clear width of 28 ft. (10' lanes and 4' shoulders). A minimum clear width of 44' is required to facilitate 12' lanes and 10' shoulders proposed by DOTD for the I-69 Frontage Road section. This structure will need to be evaluated to determine if it should be widened or replaced, along with input from DOTD, being that the structure is 30+ years old. Additionally, our team's bridge design and roadway design personnel will **work together closely as the final alignment of this project segment is established** as the proposed curvature north of this bridge site may require superelevation. The superelevation runout will need to be considered and the alignment possibly modified if the bridge is to be widened and not replaced. Otherwise, a design exception will be required. There exists some localized erosion near the abutments, minor cracking in the deck and post-construction damages to the PCC piles – all of which will need to be addressed if the structure is widened.

Bayou Pierre Bridge

The Chico Bayou Relief structure, built in 1997, has a total length of 150' consisting of three (3) 50' spans and a clear width of 28 ft. (10' lanes and 4' shoulders). Similar to Bayou Pierre, this structure is a possible candidate for widening to accommodate the I-69 Frontage Road section and will undergo a similar review.

Chico Bayou Relief Structure

The existing load rating reports for both structures will be reviewed to determine if a rehabilitated and widened structure will result in a satisfactory LRFR in accordance with AASHTO criteria and DOTD's Bridge Design and Evaluation Manual (BDEM). The capacity of the existing exterior girders will be checked to verify their ability to serve as interior beams within a widened structure. A bridge evaluation report will be prepared by our team, outlining the elements involved in widening the existing structures versus replacement, citing construction costs, long-term maintenance cost, constructability, and design parameters for both structures and providing a recommendation forward. If the structures are widened, several design waivers and / or exceptions may be required including the use of AASHTO PPC girders in lieu of LG girders. Hydraulic analyses will be reviewed for any potential hydraulic issues affecting low chord elevations such as overtopping, scour, debris, or insufficient existing low chord elevations. Multiple utilities including industrial pipeline facilities, overhead power and underground telephone exist within the area of the existing structures. This will need to be evaluated and considered for both widening and replacement options. Maintenance of traffic, conflicts with existing piles, and phased bridge construction will need to be considered if replacement is chosen. If these structures are replaced, the steps forward will be similar to that of the new structure required at Chico Bayou.

The required new structure at Chico Bayou is located along this project segment's new alignment, approximately 0.6 miles from Ellerbe Rd. and just downstream of the confluence with Kelly Bayou. An initial site visit concludes that this structure will likely consist of either RC Slab spans or LG-25 girder spans, and may involve superelevation or transitions, depending upon the final alignment. Again, our bridge designers and roadway staff will work closely together to optimize the structure for this site and minimize complications.

H.005184 – Bridge Design Approach. The initial steps of the bridge design tasks for the H.005184 (Stonewall Frierson to Ellerbe Rd) project segment involves establishing the TS&L for a new bridge structure for the I-69 Frontage Road on new alignment across Wallace Bayou. The crossing location is approximately 700 feet south of the Wallace Lake Dam, which was completed in 1946 and is managed by the US Army Corps of Engineers and local levee district. A variety of challenges will need to be addressed to design a bridge structure downstream of this dam as well as extensive coordination required with its operators. In addition, this area was flooded extensively in March 2016, reaching a record high of 160.4', near 20' above natural ground. During the initial TS&L and hydraulic analysis, multiple sources of data must be obtained and reviewed including record events, normal operational flows, and existing hydraulic models of the dam and its basin in order to begin to prepare a hydraulic analysis for this structure. Establishing the bridge's low cord elevation and hydraulic design criteria requires critical input from these stakeholders, DOTD, and within our project design team in relation to roadway design. Once the bridge TS&L and hydraulic analysis is completed, a comprehensive scour analysis in accordance with HEC-18 will be conducted to determine the effect of the dam's discharge on the bridge's foundation. Multiple bridge span length and substructure alternatives may require evaluation in order optimize this structure's TS&L. Our team has already reviewed the Record of Decision (ROD) for the I-69 SIU 15, conducted a site visit to this bridge location and is well-positioned to address the challenges of this bridge site.

Wallace Bayou Bridge Crossing

The remainder of the alignment for H.005184 traverses through rolling virgin terrain and may require additional large drainage structures, which may include RCBs or other drainage alternatives. In addition, alignment modifications may be necessary to minimize major utility impacts within this area populated with pipelines. Our bridge design team, working closely with road designers, will identify these structures and ensure they are developed and designed according to the applicable DOTD requirements.

ROADWAY DESIGN AND PLAN DEVELOPMENT

Plan Development. We have extensive experience using DOTD's Road Design Manual for construction plan development and project delivery, and we have a strong understanding of the standard DOTD Plan Delivery process and milestone schedule. **We support the possible elimination of the 30% preliminary submittal to expedite the project schedule and beginning the submittal stages at 60% Preliminary.**

If design guidance is needed that is not available via DOTD documentation for a particular issue, we depend on our knowledge of the AASHTO "Green Book" for geometrics, the AASHTO Roadside Design Guide for roadside safety issues, the AASHTO Guidelines for Geometric Design of Low-Volume Roads, and the MUTCD for Signing and striping as needed.

We are proficient in using DOTD's current preferred software, including InRoads SelectSeries II, CADConform, and HYDRWin. With the knowledge that Bentley is sunsetting InRoads SelectSeries II, we are ahead of the curve

with its transition to Bentley's OpenRoads platform. Our staff has delivered numerous project submittals for other entities using this software and are fully equipped to facilitate a seamless and efficient transition to Open Roads Designer, providing us with a distinctive advantage.

During project scoping, we will propose the use of design workshops scheduled immediately following a submittal stage. The design workshop takes the place of what can sometimes be a lengthy plan review and comment development process. Our team has successfully employed this process on previous projects with greatly accelerated schedules.

CONSTRUCTION SERVICES

Stanley Consultants is prepared to assist with any construction support required during the construction of these projects. We have provided this support on several other contracts, including our aforementioned I-12 projects, and will bring that experience to these projects.

QUALITY CONTROL (QC)

QC is a continual effort. A Bridge Design QA/QC Plan prepared by our Team is attached here in Section 21. Stanley Consultants will also adhere to this QA/QC Plan while providing bridge design support. Our overall QA/QC activities will be managed by Jesse Tisdale. Jesse will be responsible for verifying completeness of the QA/QC Plan and auditing compliance with that program. QC, constructability, and design reviews will occur prior to all submittals.

THE STANLEY CONSULTANTS DIFFERENCE

The Stanley Consultants Team is the right team for this contract.

FRESH PERSPECTIVE. A fresh perspective can be helpful because it brings new ideas, insights, and approaches that might not have been considered otherwise. It can lead to innovative solutions, especially when facing challenges or seeking creative solutions. The Stanley Consultants Team has done our homework and is prepared to bring fresh ideas to the scope, schedule, and budget challenges that this project presents.

ORG STRUCTURE. Our proposed organizational structure utilizing an overall contract manager and three deputy project managers will allow us to address the challenges of potentially designing three adjacent projects simultaneously. It will assign the overall coordination of the three projects to one person while allowing each project the focused attention necessary by three separate project managers. We feel that one person managing all three projects and providing overall contract coordination would prove challenging.

SIMILAR EXPERIENCE. Our Team's firm and staff experience includes multiple projects along new alignment, large scale roadway design projects that include bridge designs, and an experience of delivering the I-12 corridor design requiring coordination between three adjacent projects across consultants.

EFFECTIVE STRATEGIES FOR ENHANCING PROJECT DELIVERY. At Stanley Consultants, we firmly believe in going above and beyond compliance with minimum DOTD project delivery requirements. If awarded this contract, we pledge to undertake specific actions that will propel our DOTD PMs to new heights of success.

Unlike the standard practice of providing project invoices alone, we are **committed to delivering weekly project status reports.** By increasing the frequency of reports, we aim to provide our DOTD PMs with timely and relevant information that will accelerate the resolution of project challenges.

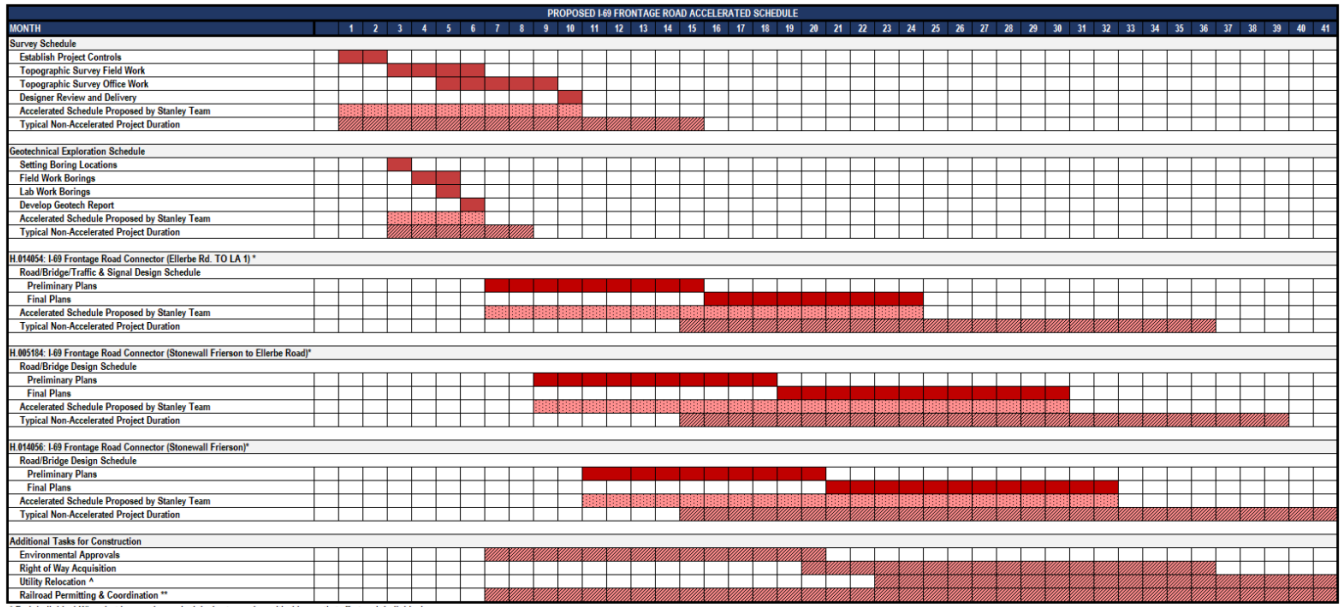
We also commit to maintaining a project risk register. The risk register will help our Team identify and track challenges that have the potential to impact the project, including scope, schedule, or budget.

DBE

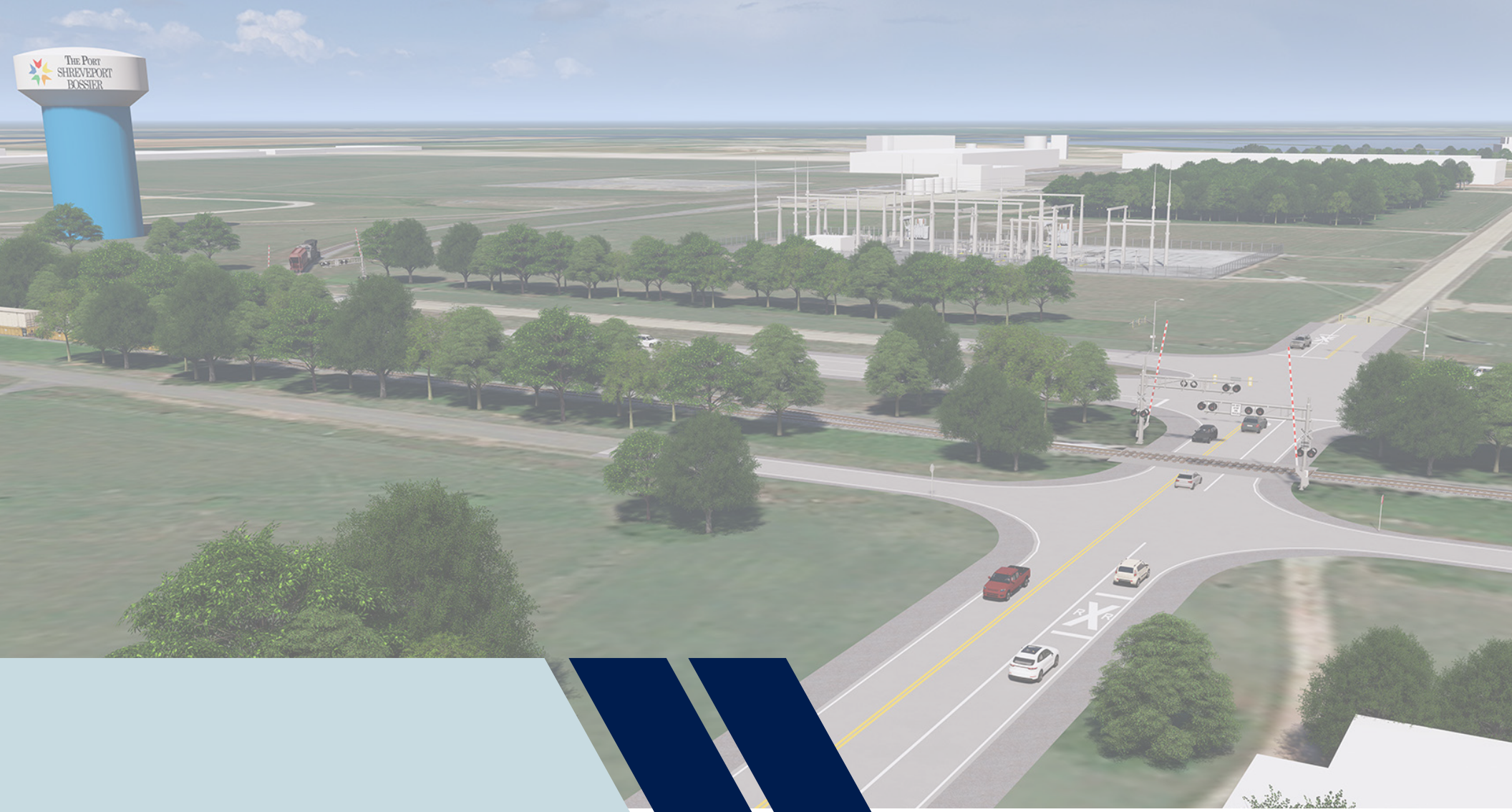
We acknowledge this contract's DBE goal of 5% and have assembled our team with consideration of this in mind. We are committed to a minimum DBE percentage of 5.5%. The significant geotechnical scope of work allows APS to obtain approximately 4.5% of this contract. Vectura's diverse skillsets enable them to be able to take on many different traffic related assignments enabling them to obtain a minimum of 1% of this contract.

SCHEDULE

We have carefully developed individual project schedules to represent our thoughts on achievable accelerated milestones.



* Each individual HE project has a unique schedule due to varying critical issues that affect each individual
** Railroad Coordination and Permitting will begin immediately upon beginning design. This task duration is dependant on the individual Railroad being permitted and can take a substantial amount of time and effort
^ Utility relocation coordination can begin in the final plans phases and will help to hasten the ultimate relocation



Sections 19-23

I-69: Project Visualization

19. Workload

Firm(s)	Past Performance Evaluation Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Stanley Consultants, Inc.	Road	H.011781.5	LA 675 & LA 87 Improvements in New Iberia	$28,417
Stanley Consultants, Inc.	Bridge	H.011137	I-12 (LA 21 to US 190) Widening Design	$2,687
Stanley Consultants, Inc.	Road	H.01137 & H.013866	I-12 Widening Construction Support	$75,934
Stanley Consultants, Inc.	Bridge	H.01137 & H.013866	I-12 Widening Construction Support	$20,977
Stanley Consultants, Inc.	CE&I / OV	H.001344	US 190: LA 437 to US 190 BUS (Ph.1)	$9,165
Stanley Consultants, Inc.	Road	H.014886	US 90: Tulane Ave to Danzinger Bridge	$91,549
Stanley Consultants, Inc.	Road	H.005734	LA 447 Corridor: I-12 to Joe May Rd	$158,460
Stanley Consultants, Inc.	Road	H.013941	LA 724: Roundabout at Landry Rd	$329,929
Stanley Consultants, Inc.	Road	H.015052	I-20 Widening/Ovrly (Vancil Rd-LA 34)	$889,752
Crescent Engineering & Mapping, LLC	Road	H.014980	Chinaberry Drive Over Unnamed Coulee	$1,644
Crescent Engineering & Mapping, LLC	Bridge	H.014980	Chinaberry Drive Over Unnamed Coulee	$885
Crescent Engineering & Mapping, LLC	Road	H.014984	Libuse Cutoff Road Over Flagon Bayou	$7,081
Crescent Engineering & Mapping, LLC	Bridge	H.014984	Libuse Cutoff Road Over Flagon Bayou	$3,213
Crescent Engineering & Mapping, LLC	Road	H.014992	McHugh Road Over Brushy Bayou	$7,089
Crescent Engineering & Mapping, LLC	Bridge	H.014992	McHugh Road Over Brushy Bayou	$3,817
Crescent Engineering & Mapping, LLC	Road	H.014993	Lemon Road Over Drainage Bayou	$1,217
Crescent Engineering & Mapping, LLC	Bridge	H.014993	Lemon Road Over Drainage Bayou	$656
Crescent Engineering & Mapping, LLC	Road	H.015025	McLin Road Over Darling Creek	$13,146
Crescent Engineering & Mapping, LLC	Bridge	H.015025	McLin Road Over Darling Creek	$7,079

Firm(s)	Past Performance Evaluation Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Lazenby & Associates, Inc.	Bridge	4400025025	Infrastructure Investing & Jobs Act (IIJA) Off-System Bridge Program - District 05	$1,245,537
Lazenby & Associates, Inc.	Road	H.004774.5	Kansas Lane – Garrett Road Connector & I-20 Improvements, Ouachita Parish	$64,158
Lazenby & Associates, Inc.	Survey	4400019714	T.O. #2 – Hydrographic Surveying Services – Statewide (Districts 04, 05, 08 & 58)	$13,325
APS Engineering and Testing, LLC	Geotech	H.013127	Retainer Contract for Geotechnical Services	$288,547
APS Engineering and Testing, LLC	Geotech	H.012027	I-20: Missouri Pacific RR Overpass	$71,338
Terracon Consultants, Inc.	Geotech	H.003931.5-2	I-10: Calcasieu River Bridge Additional Borings	$77,591
Terracon Consultants, Inc.	Geotech	H.002868	I-49 Frontage Road Bridges PDA Testing	$135,647
Terracon Consultants, Inc.	Geotech	H.012033	Cross Bayou and Caney Bayou	$20,362
Terracon Consultants, Inc.	Geotech	H.012569.5	Little Sugar Creek Bridge	$5,419
Terracon Consultants, Inc.	Geotech	H.000385.5	US190: LA415 & RR Overpass	$213,763
Terracon Consultants, Inc.	Geotech	H.005121.5	LA-1 and LA-415 Connector	$227,266
Terracon Consultants, Inc.	Environmental	H.004273.5	Lafayette Urban Section (I-49 Lafayette Connector) Phase II ESA, Lafayette Parish	$18,843
Terracon Consultants, Inc.	Geotech	H.005967	Nelson Road Extension and Bridge	$52,534
Terracon Consultants, Inc.	Geotech	H.011670.6	Loyola Interchange Design-Build	$423,523
Terracon Consultants, Inc.	Geotech	H.011094.5	Hearne Ave. – Cross Bayou Bridge Replacement	$139,096
Terracon Consultants, Inc.	Geotech	H.012048.5	Castor Creek and Relief Bridges	$248,823
Terracon Consultants, Inc.	Geotech	H.012537.5	LA154, LA157 - Red Chute BYU & Flat RVR BRS	$77,709
Terracon Consultants, Inc.	Geotech	H.005967.5	Nelson Road Ext and Bridge	$200,883
Terracon Consultants, Inc.	Geotech	H.015338	Off-System Bridge Replacement	$180,000

Firm(s)	Past Performance Evaluation Discipline(s) *	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance**
Terracon Consultants, Inc.	Geotech	H.011235	I-49 South at Verot School Road	$15,561
Vectura Consulting Services, LLC	Traffic	H.010616	I-20: LA 544 Overpass Replacement	$74,429
Vectura Consulting Services, LLC	Traffic	H.005168.2	New Orleans Rail Gateway Jefferson Highway EA	$14,200
Vectura Consulting Services, LLC	Traffic	H.005168.2	New Orleans Rail Gateway Avondale EA	$123,988
Vectura Consulting Services, LLC	CE&I	H.007160	EBR Computerized Traffic Signal, Ph VB	$36,576
Vectura Consulting Services, LLC	Traffic	H.004791	Belle Chasse Bridge & Tunnel Replacement PPP	$14,740
Vectura Consulting Services, LLC	Traffic	H.012030.5	KCS RR Overpasses HBI	$2,001
Vectura Consulting Services, LLC	ITS	H.011504.5	Alexandria ITS Phase 2	$14,305
Vectura Consulting Services, LLC	ITS	H.012845.1	Connected & Autonomous Vehicles (C/AV) Team and Working Group Support	$16,932
Vectura Consulting Services, LLC	Traffic	H.015504	CCC Decorative Lighting	$9,110
Vectura Consulting Services, LLC	ITS	H.011507.1	Monroe Phase 3 SEA	$37,461

20. Certifications/Licenses
STANLEY CONSULTANTS, INC.

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Adam Fields
has attended
Traffic Control Technician-LA State Specific
Training Course

6/29/2021 to 6/29/2025
Training Valid Through

Baton Rouge, LA
Location

Director of Training

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Adam Fields
has attended
Traffic Control Supervisor-LA State Specific
Training Course

7/1/2021 to 7/2/2025
Training Valid Through

Baton Rouge, LA
Location

Director of Training

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

Certificate of Completion

presented to

Jesse Tisdale

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: January 29, 2020
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Jesse Tisdale

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: January 29, 2020
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Jesse Tisdale

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: January 30, 2020
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Jesse Tisdale
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

4/7/2023 to 4/7/2027
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.

ATSSA American Traffic Safety Services Association ATSSA.com

ATSSA American Traffic Safety Services Association
SAFER ROADS SAVE LIVES

This is to affirm that

Jared Blohowiak

has satisfied the requirements to be designated as a
CERTIFIED FLAGGER

Issue Date 4/2/2023 — ATSSA *Instructor Name*
Exp. Date 4/1/2027 — Donna M. Clark *Instructor Signature*
State Issued LA
A1000124539 — Verify at Flagger.com

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Jared Blohowiak
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

2/10/2023 to 2/10/2027
Training Valid Through

Baton Rouge, LA
Location

Donna M. Clark
Vice President of Education and Technical Services

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Kayla Lafitteau
has attended
Traffic Control Technician-LA State Specific
Training Course

8/4/2020 to 8/4/2020
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

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Kayla Lafitteau
has attended
Traffic Control Supervisor-LA State Specific
Training Course

8/5/2020 to 8/6/2020
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

Certificate of Training

this certifies that

Kayla Lafitteau

has successfully completed the training program requirements for

ATSSA Online Flagger Certification Training

Awarded on this **28th** *day of* **August 2020**

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

William Travis Barr
has attended
Traffic Control Technician-LA State Specific
Training Course

11/9/2021 to 11/9/2025
Training Valid Through

Baton Rouge, LA
Location

Director of Training

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

William Travis Barr
has attended
Traffic Control Supervisor-LA State Specific
Training Course

11/10/2021 to 11/11/2025
Training Valid Through

Baton Rouge, LA
Location

Director of Training

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

ATSSA American Traffic Safety Services Association
SAFER ROADS SAVE LIVES

This is to affirm that

Aidan Carter

has satisfied the requirements to be designated as a
CERTIFIED FLAGGER

Issue Date 9/11/2023
Exp. Date 9/10/2027
State Issued LA

ATSSA
Instructor Name

Instructor Signature

A1000130680

Verify at Flagger.com

CRESCENT ENGINEERING & MAPPING, LLC

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Matt Ledet
has attended
Louisiana Traffic Control Supervisor Refresher
Training Course

5/10/2021 to 5/10/2025
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.

ATSSA American Traffic Safety Services Association ATSSA.com

American Traffic Safety Services Association

ATSSA

This is to affirm that
Dakotah Holley
Has satisfied the requirements to be designated as a
Registered Flagger

Expiration Date: 5/5/2025 *State Issued In:* LA

Instructor Signature

A1000020731

Verification Copy Only. Verification available by calling 1-877-6424637 or at http://www.flagger.com

LAZENBY & ASSOCIATES, INC.

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Hagan Lawrence
has attended
Traffic Control Supervisor-LA State Specific
Training Course

7/1/2020 to 7/2/2020
Date

Vice President of Member 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

ATSSA TRAINED

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.

ATSSA American Traffic Safety Services Association ATSSA.com

ATSSA TRAINED

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

ATSSA TRAINED

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.

ATSSA American Traffic Safety Services Association ATSSA.com

ATSSA TRAINED

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

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

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

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

9/14/2022 to 9/14/2026
Training Valid Through

Director of Training

Monroe, LA
Location

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

Certificate of Completion

presented to

James Ellingburg

for completing the

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

Date: August 11 – 12, 2021
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 8.50

Authorized Instructor

Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Ryan Spillers

for completing the

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

Date: August 11 – 12, 2021
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 8.50

Authorized Instructor

Authorized Instructor

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

APS ENGINEERING AND TESTING, LLC

RTA

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

LOUISIANA UNIFIED CERTIFICATION PROGRAM

Disadvantaged Business Enterprise Program (DBE)

Small Business Element (SBE)

This is to certify that under Title 49, Part 26 of the Code of Federal Regulations
& under the State of Louisiana United Certification Program (LAUCP)

APS Engineering & Testing, LLC

Is a Certified Disadvantaged Business Enterprise (DBE) & Small Business Element (SBE) in the following specialties:

NC221310, NC221320, NC541330, NC541370, NC541380, NC541620, NC541690

NOTE: There may be other approved NAICS Codes. The online DBE Directory includes a complete list of approved codes.

Certificate Eligibility: October 2022 to October 2023

This certificate is valid through the above date provided. This firm meets the on-going programmatic standard and fulfills the annual update requirement to remain in good standing as a DBE. This certification is subject to annual verification and suspension or revocation based upon reasonable cause to believe that the firm is ineligible.

Rhonda Wallace

Rhonda Wallace, DBE/SBE Programs Manager

Louisiana Department of Transportation & Development

VECTURA CONSULTING SERVICES, LLC

RTA

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

LOUISIANA UNIFIED CERTIFICATION PROGRAM

Disadvantaged Business Enterprise Program (DBE)

Small Business Element (SBE)

This is to certify that under Title 49, Part 26 of the Code of Federal Regulations
& under the State of Louisiana United Certification Program (LAUCP)

Vectura Consulting Services, LLC

Is a Certified Disadvantaged Business Enterprise (DBE) & Small Business Element (SBE) in the following specialties:

NC488490, NC541330, NC541340

NOTE: There may be other approved NAICS Codes. The online DBE Directory includes a complete list of approved codes.

Certificate Eligibility: June 2023 to June 2024

This certificate is valid through the above date provided. This firm meets the on-going programmatic standard and fulfills the annual update requirement to remain in good standing as a DBE. This certification is subject to annual verification and suspension or revocation based upon reasonable cause to believe that the firm is ineligible.

Rhonda Wallace

Rhonda Wallace, DBE/SBE Programs Manager

Louisiana Department of Transportation & Development

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

Certificate of Completion

presented to

Reece Rodrigue

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: November 5, 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

Reece Rodrigue

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: November 26, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Reece Rodrigue

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: December 3, 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

Kristen Gahagan

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: July 30, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Kristen Gahagan

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: August 6, 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

Kristen Gahagan

for completing the

Traffic Engineering Analysis Process & Report
Module 3

Date: October 29, 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

Bridget Robicheaux

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: July 30, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Bridget Robicheaux

for completing the

Traffic Engineering Analysis Process & Report
Module 2

Date: August 6, 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

Bridget Robicheaux

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 DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Clara Foshee

for completing the

Traffic Engineering Analysis Process & Report
Module 1

Date: October 1, 2018
Location: Baton Rouge, Louisiana

Professional Development Hours (PDHs) Awarded: 2.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Clara Foshee

for completing the

Traffic Engineering Analysis Process & Report
Module 2

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

Professional Development Hours (PDHs) Awarded: 3.5

Authorized Instructor *Authorized Instructor* *Authorized instructor*

DOTD
LOUISIANA DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

Certificate of Completion

presented to

Clara Foshee

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 DEPARTMENT OF TRANSPORTATION & DEVELOPMENT

ATSSA TRAINED

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.

ATSSA American Traffic Safety Services Association ATSSA.com

ATSSA TRAINED

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

ATSSA provides training and certification but neither constitutes employment by ATSSA.
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ATSSA American Traffic Safety Services Association ATSSA.com

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Reece Rodrigue
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

3/10/2023 to 3/10/2027
Training Valid Through

Vice President of Education and Technical Services

New Orleans, LA
Location

President, CEO

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

ATSSA American Traffic Safety Services Association ATSSA.com

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Kristen Farrington
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

4/5/2021 to 4/5/2025
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

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

Bridget Robicheaux
has attended
Traffic Control Supervisor-LA State Specific
Training Course

6/22/2022 to 6/22/2026
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

ATSSA TRAINED

PROOF OF TRAINING

THIS CERTIFICATE HEREBY RECOGNIZES THAT

David Watkins
has attended
Traffic Control Supervisor Refresher-LA State Specific
Training Course

12/4/2020 to 12/4/2020
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

ATSSA American Traffic Safety Services Association

This is to affirm that

Sheelagh Ferlito

has satisfied the requirements to be designated as a
CERTIFIED FLAGGER

Issue Date 5/9/2023 — ATSSA
Exp. Date 5/8/2027 — Instructor Name
State Issued LA — Instructor Signature

A1000126216 — Verify at Flagger.com

ATSSA American Traffic Safety Services Association

This is to affirm that

Laurence Lambert

has satisfied the requirements to be designated as a
CERTIFIED FLAGGER

Issue Date 5/9/2023 — ATSSA
Exp. Date 5/8/2027 — Instructor Name
State Issued LA — Instructor Signature

A1000126196 — Verify at Flagger.com

ATSSA AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION

This is to affirm that

Kristen Farrington

has satisfied the requirements to be designated as a
CERTIFIED FLAGGER

Expiration Date 7/5/2025 — State Issued LA
Instructor Signature
Verification available by calling 1-877-642-4637 or at http://www.flagger.com

ATSSA AMERICAN TRAFFIC SAFETY SERVICES ASSOCIATION

This is to affirm that

David Watkins

has satisfied the requirements to be designated as a
CERTIFIED FLAGGER

Expiration Date 11/31/2024 — State Issued in LA
Instructor Signature
Verification available by calling 1-877-642-4637 or at http://www.flagger.com

ATSSA American Traffic Safety Services Association

This is to affirm that

Bridget Robicheaux

has satisfied the requirements to be designated as a
CERTIFIED FLAGGER ATSSA

Issue Date 5/6/2022
Exp. Date 5/5/2026
State Issued LA — Instructor Signature

A1000560707 — Verify at Flagger.com

21. QA/QC Plan

Please see attached QA/QC Plan behind this sheet.

CRESCENT
ENGINEERING & MAPPING LLC

LADOTD CONTRACT No. 44-27735

S.P. No. H.005184
F.A.P. No. H005184
I-69 Frontage Road (Stonewall Frierson to Ellerbe Road)
Route: Future State Hwy.
Parish – Caddo and Desoto

S.P. No. H.014054
F.A.P. No. H014054
I-69 Frtg Rd. Conn. (Ellerbe Rd. to LA 1)
Route: Future State Hwy.
Parish – Caddo

S.P. No. H.014056
F.A.P. No. H014056
I-69 Frontage Road Connector (Stonewall Frierson)
Route: Future State Hwy.
Parish – Desoto

BRIDGE DESIGN QC/QA PLAN

October, 2023

Table of Contents

Introduction

Crescent Engineering & Mapping, LLC (Crescent) understands that proper QC/QA is vital to the success of any bridge project. When a clearly outlined, known and repeatable process is followed by a team of bridge designers and technicians, design errors are eliminated, and plan accuracy is greatly enhanced. These QA/QC procedures and guidelines have been developed to ensure that bridge design team develops and accurately confirms that the project's design and resulting drawings meet LADOTD and AASHTO criteria and are in accordance with the requirements of the Contract. LADOTD's Bridge Design and Evaluation Manual requires that the Department's Policy for Quality Control and Quality Assurance is followed for all LADOTD projects. This QC/QA plan establishes the basis for Crescent to continue to be ***Committed to Excellence and Focused on Delivery***.

This QC/QA plan has been developed consistent with LADOTD and Crescent policies specially for:

LADOTD CONTRACT No. 44-27735

S.P. No. H.005184
F.A.P. No. H005184
I-69 Frontage Road (Stonewall Frierson to Ellerbe Road)
Route: Future State Hwy.
Parish – Caddo and Desoto

S.P. No. H.014054
F.A.P. No. H014054
I-69 Frtg Rd. Conn. (Ellerbe Rd. to LA 1)
Route: Future State Hwy.
Parish – Caddo

S.P. No. H.014056
F.A.P. No. H014056
I-69 Frontage Road Connector (Stonewall Frierson)
Route: Future State Hwy.
Parish – Desoto

Crescent will manager design and design quality control/quality assurance program throughout the development of bridge design and production of bridge plans and specifications for this project. Our designated QC/QA manager for this project will be responsible for overseeing the overall quality program, performing independent Quality Assurance reviews as well as the preparation and implementation of the QC/QA plan. Crescent fully understands that it is the LADOTD's expectation that it's consulting engineers take full responsibility for their design and bridge plan submittals throughout the design process. We further understand that review and comments by LADOTD does not relieve Crescent of this responsibility.

This QA/QC plan has been prepared in accordance with the requirements set forth in "Guidance on QC/QA in Bridge Design in Response to NTSB Recommendation (H-08-17)," FHWA, AASHTO, August 2011. Additionally, requirements of BDTM.37 and "Policy on Quality Control

and Quality Assurance," Louisiana Department of Transportation and Development, Bridge Design Section, October 2012, as amended and the requirements of the LADOTD's Bridge Design and Evaluation Manual will be followed throughout the project.

Crescent has committed to this process and has dedicated resources to deliver bridge design projects for LADOTD. We strive for continuous improvement to our processes to the benefit of our team members, the clients we serve and the public as a whole. We are committed to partnering with our clients by properly planning our work efforts to achieve a repeatable, consistent and a seamless delivery of our bridge projects. Crescent is committed to continuing education, offering our employees ample opportunities to remain on the leading edge of technology, bridge modeling and design methodology improvements, changes and innovation.

Definitions

Quality Control (QC): This process involves the procedures of checking the accuracy of the calculations and consistency of the drawings, detecting and correction design omission and errors before the design plans are finalized, and verifying that bridge components are adequately designed for the requirements of the AASHTO LRFD Bridge Design Specifications, LADOTD Bridge Design and Evaluation Manual and other technical memoranda.

Quality Assurance (QA): This process involves the procedures of reviewing the work to ensure the quality control procedures and processes are in place and effective in preventing mistakes, and consistency in the development of bridge design plans.

Designer: An individual directly responsible for the development of design calculations, drawings, specifications, and contract documents and, potentially, in the review of shop drawings related to a specific bridge design with a level of technical skills and experience commensurate with the complexity of the subject structure or structures being designed. A designer shall be either a Professional Engineer licensed in the State of Louisiana or certified as an Engineer Intern under the direct supervision of a licensed Professional Engineer. The designer's experience should be commensurate with the complexity of the structure being designed.

Design Checker: An individual responsible for performing full technical review of the structural calculations, drawings, specifications and contract documents. A Design Checker shall be a Professional Engineer licensed in the State of Louisiana or certified as an Engineer Intern under the direct supervision of a licensed Professional Engineer. If the Designer is an Engineer Intern, the Design Checker should be a Professional Engineer. The checker's experience should be commensurate with the complexity of the structure being designed/checked.

Detailer: An individual responsible for the necessary Microstation/CAD duties of producing bridge design plans which reflect the designer's intentions and calculations. The Detailer shall be competent in operating Microstation/CAD software, able to read design sketches and drawings and shall communicate with the designer throughout the development of bridge design plans.

Reviewer: An individual responsible for performing QA procedures for assuring that QA/QC procedures have been performed.

Engineer of Record: A Licensed Professional Engineer responsible for all bridge structural aspects of the design of the structure including the design of all the bridge's systems and components. This individual is responsible for sealing and signing the final project plans.

QC/QA Roles and Responsibilities

The following tables outline the team members who have been selected to perform the individual QC/QA assignments for this project's bridge elements. These assignments are subject to change with comparable personnel depending upon contract execution and timeline.

Crescent Engineering & Mapping			
Bridge Structural Design*		**Construction Support & Shop Drawings**	
Designer:	Dennis M. Hymel, Jr., P.E.	Drawing Review:	Dennis M. Hymel, PE.
Design Checker:	Paul I. Olivier, P.E.	Review Checker:	Paul I. Olivier, P.E.
Detailer:	Luke Bourg	QA Review:	James P. Ledet, P.E.
Detail Checker:	Abbey F. Falcon, P.E.		
QA Review:	James P. Ledet, P.E.		

Hydraulics Design & Scour Analysis		**Bridge Geometric Design**	
Designer:	Abbey F. Falcon, P.E.	Designer:	Dennis M. Hymel, PE.
Design Checker:	Dennis M. Hymel, Jr., P.E.	Design Checker:	Abbey F. Falcon, P.E.
Detailer:	Luke Bourg	Detailer:	Luke Bourg
Detail Checker:	Abbey F. Falcon, P.E.	Detail Checker:	Abbey F. Falcon, P.E.
QA Review:	James P. Ledet, P.E.	QA Review:	James P. Ledet, P.E.

*For Non-Standard Structure Elements

Bridge Engineer of Record: Dennis M. Hymel, Jr., P.E.
QC/QA Manager: James P. Ledet, P.E.

Stanley Consultants, Inc.			
Bridge Structural Design*		**Construction Support & Shop Drawings**	
Designer:	Luis Santana., P.E.	Drawing Review:	Luis Santana., P.E.
Design Checker:	Eric Huskey, P.E.	Review Checker:	Eric Huskey, P.E.
Detailer:	TBD&	QA Review:	Dan Shiosaka#
Detail Checker:	Luis Santana., P.E.		
QA Review:	Dan Shiosaka#		

Hydraulics Design & Scour Analysis		Bridge Geometric Design	
Designer:	Luis Santana., P.E.	Designer:	Luis Santana., P.E.
Design Checker:	Eric Huskey, P.E.	Design Checker:	Eric Huskey, P.E.
Detailer:	TBD[&]	Detailer:	TBD[&]
Detail Checker:	Luis Santana., P.E.	Detail Checker:	Luis Santana., P.E.
QA Review:	Dan Shiosaka#	QA Review:	Dan Shiosaka#

[*]For Non-Standard Structure Elements
[#]Arizona PE with Louisiana Experience and expired PE license. Will renew LA PE license upon award of project.
[&]A detailer with bridge design detailing experience will be assigned based on workload.

Bridge Engineer of Record: Luis Santana, P.E.
QC/QA Manager: Dan Shiosaka#

QC/QA Procedures

1. CALCULATIONS

INTRODUCTION

Calculations are to be done on calculation tablet sheets for each design organization. Calculation tablets shall bear the name and address of the firm preparing the design. Calculations shall include sketches which are legible to detailers which may augment or clarify the calculations, list all assumptions, references, units, and conclusions. The calculations shall reference the specific component for which they apply and shall cite specific AASHTO codes being used for specific calculations being made.

RESPONSIBILITIES

Engineer of Record – Ensures that staff assigned to the project are capable of performing the analysis and calculations and that their experience is commensurate with the complexity of the structure or component being tasked. Responsible for direct oversight and supervision of the design of the bridge components and structure. Assembles or assigns personnel to assemble and maintain original calculations and calculation checks for the project.

Designers – Prepare all calculations in a neat and logical manner which is conducive to checking. Provide the calculations to the Checker in a timely fashion with time to properly and adequately check calculations prior to detailing.

Checkers – Thoroughly check the design calculations starting with assumptions, mandated parameters, references, given values and formulas, AASHTO codes, omissions, and correctness of arithmetic. The Checker is responsible for asking questions of the Designer in areas that are not clear or seeking technical advice if warranted for a particular element of the calculation.

QC/QA Manager – Performs independent review of the checked calculations and random audits to ensure that QC procedures are being followed for checking of calculations.

PROCEDURES

1. Identify each sheet of calculations with designer's initials, date, project name, and sheet number. Indicate portion of project being designed in the upper right corner of each sheet below the title block. For example: Bent 5 Design, Intermediate Bent Design, Span 3 Design, etc. A component of a project shall be checked promptly upon completion of calculations. Normally, design and quantity calculations are not combined.

2. The Designer shall make a copy (checking copy) of the calculation set and give to the checker. The originals shall then be placed in a designated binder or folder, in a convenient location, which can be accessed by the entire design team.

3. The checker shall fill in the checking copy headings with initials and date in red. All errors and disagreements shall be marked in red. Yellow shall be used to indicate information that has been checked is correct.

4. The checker shall promptly return the checking copy to the Designer for review. If the Designer agrees with the checker's markup then the Designer shall put a green check on red marks. When the Designer and Checker disagree, then the Engineer of Record shall resolve the dispute.

5. The Designer shall change the originals and return the originals and the checking copy to the checker for the checker's initials and date to be placed on the original.

6. The originals shall immediately be placed back into the calculation folder or binder. The checking copy shall be kept as required.

2. DRAWINGS

INTRODUCTION

Timely checking of drawings is important for efficient performance of plan producing and to minimize errors and prevent compounded error. A drawing used as a base file by several disciplines (road, bridge, hydraulics) should be checked and corrected before further additions are made; this will eliminate the need to check and correct the same items on subsequent drawings.

RESPONSIBILITIES

The **Engineer of Record**, with the help of the QC/QA Manager, will ensure that this procedure is implemented on all project drawings and that the check prints are assembled and available for audit for each submittal milestone during project delivery.

The **Designer** of the structure or the bridge element on the drawing has the primary responsibility for accuracy and adequacy. It is not intended that the Designer rely upon the checking system to complete the drawing.

The Designer of each drawing or set of drawings is responsible for making the Check Print, stamping and dating it, following that Check Print through the process, and obtaining the required sign-offs.

Checkers are responsible for checking the drawings, independent of the Designer, for accuracy and adequacy of all the information shown, including geometrics, reinforcing and quantities.

QA/QC Manager performs particular QA reviews and audits to ensure that procedures are being followed in regard to the checking of drawings.

PROCEDURES

1. As each drawing individually is completed and deemed ready for checking, the Designer signs or initials the title block of drawings, makes a Check Print copy, and affixes, numbers, and dates the Check Print stamp on the print of each drawing. This is to be done on each drawing print separately, not on the set of prints as a whole, even if the same information is put on the check print stamp.

2. The Checker checks the Check Print of the drawing for technical adequacy and conformance to any applicable standards and format, and performs specific accuracy checks required for that type of drawing. Checking activity is recorded directly on the Check Print. The Checker is responsible for ascertaining that the drawing is consistent with the corresponding calculations, and signing off that those calculations have been properly checked. In order to document the checking process, the Checker highlights in yellow on the Check Print each part checked that is found to be correct and marks in red on the Check Print corrections, additions, or deletions.

Use of Colors

Instrument	Use For	User
Yellow Highlight	Checker confirmation	Checker
Red Pen	Correction to be made	Checker
Blue Pen	Discussion Item, Design Issue	Checker

Green Pen	Concur or Alternate Resolution	Designer
Orange Highlight	Confirmation of Correction	Detailer
Pink Highlight	Verification of Corrections Made	Designer/EOR

The Checker signs and dates the Check Print stamp upon completion of the checking. The Checker completes the Design Review Form concurrently with the checking of the Check Prints in order to augment suggested corrections, provide additional information or suggestions.

In the case where no corrections, additions or deletions are found, there is no need for backchecking or further signatures on the Check Print stamp. The Check Print and original drawing, signed in the appropriate checked block, should be returned to the Designer for placement in the projects file.

3. The Designer (or designee, as Backchecker) reviews the Checker's marks on the Check Print as well as the Design Review Form with the Checker to ensure that comments are conveyed accurately and to discuss suggestions or other issues. The Designer then personally makes or supervises the update of the Drawing Original.

   To document the backchecking process, the Designer:

   - Check-marks in green each of the Checker's red-marked changes if in agreement that the Original should be changed and adds in green, with the concurrence of the Checker, any additional changes not picked up by the Checker.

   - Crosses out in green each of the Checker's red-marked changes that both the Designer and the Checker agree should not be changed. The Backchecker should not obliterate the Checker's marks.

   NOTE: The Backchecker and Checker should resolve differences encountered during the checking process so they are not repeated. If resolution cannot be achieved by the two individuals, the appropriate Design Unit Engineer or Design Manager should be requested to resolve the differences.

   - Signs and dates the Check Print stamp.

4. Correction of the Drawing Original should be supervised by (or drafted by) either the Designer or Checker, since both are familiar with the changes to be made.

   When making the Check Print corrections to the Drawing Original, the engineer, draftsperson, or CADD operator highlights in orange each correction as incorporated.

The person correcting the drawing signs and dates the Check Prints stamp upon completion of the corrections.

5. When corrections are made by a third party (not the Designer or checker), the Check Print should be verified by the Checker or Designer to assure that the agreed-to corrections have been incorporated without error. If the corrections are not made or are erroneous, the Check Print with penciled instructions is returned to the corrector. The Verifier puts a pink check mark next to or pink highlight over the item after reviewing its incorporation on the Original Drawing.

   The Verifier signs and dates the Check Print stamp, as applicable.

   After the corrections have been verified the Checker initials the "checked by" block on the title block of the Drawing Original.

6. The completed original (or CADD file) is put under the control of the Engineer of Record or a designee in order to prevent further changes in the drawing that could invalidate the checking which has been done. The Engineer of Record or a designee releases the checked drawing to other disciplines to use as a baseline for their input, or to the client.

   NOTE: When there is a change to a checked drawing, a new Check Print must be made to check the area that has been changed. The Check Print is stamped and labeled Check Print 2, 3, 4, etc. as applicable and attached to the previous check print(s). The checking follows the same procedure as that of the original Check Print, except that only the portions that changed are marked up as having been checked.

7. If changes mandated by the client at the final review are simple in nature, the Engineer of Record or a designee may abbreviate the checking process by noting the changes in red on a new Check Print (which should be sequentially numbered) and signing the Check Print as the Backchecker, indicating that the changes do not materially affect the design. Then the normal correcting and verifying processes should be utilized.

Exceptions to the procedural documentation of the Check Prints can be given only by the QC/QA Manager based upon the size, character and complexity of the project.

Description of Appendices:

The following review forms, checklists and certifications within the Appendices will be used during the project's QC/QA process as required by LADOTD's Bridge Design Section BDTM.37. The checklists and certification forms are included in the Appendices for reference.

Appendix A

- LADOTD Design Criteria Worksheet
- LADOTD Project Activity Log Sheet
- LADOTD Consultant Project Bridge Design Kick-Off Meeting Agenda Checklist
- LADOTD Consultant Submittal Review Checklist
- Final Calculation Book Index Checklist

Appendix B

- Crescent Design Comment Review Forms

Appendix C

- LADOTD QA Information Package Checklist
- LADOTD QC/QA Certification
- LADOTD Consultant Submittal QC/QA Certification

The Consultant Submittal QC-QA Certification will accompany all submittals as required by the Bridge Design Section QC-QA Policy. Additional checklist(s) may be added by the QC/QA Manager based upon the scope, character and complexity of the project, should this change throughout the course of design.

Design Criteria Checklist

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

__ **Cover Sheet**

The following information must be included on the cover sheet:

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

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

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

__ **Design Assumptions and Design Exceptions**

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

__ **General Information**

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

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

__ **Hydraulic Design Criteria**

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

__ **Design Factors**

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

__ **Design Loads**

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

__ **Limit States**

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

__ **Bridge Barrier Railing**
The design criteria, types, and test levels for bridge barrier railing shall be listed in this section. Standard plans should be listed if they are utilized.

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

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

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

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

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

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

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

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

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

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

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

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

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

APPENDIX J—PROJECT ACTIVITY LOG SHEET

Project No.:

Project Name:

Bridge Task Manager:

Date	Project Activity	Comments

APPENDIX H—CONSULTANT PROJECT BRIDGE DESIGN KICK-OFF MEETING AGENDA CHECKLIST

A kick-off meeting with the Consultant's bridge design team shall be initiated by the LADOTD Bridge Design Task Manager once the project is awarded. The meeting agenda shall include, but not be limited to, the following items:

__ Introduce LADOTD Bridge Task Manager and the Consultant's Key Team Members (The Supervisor or Team Leader and Key Designers/Design Checkers/Reviewers)

__ Discuss Consultant's Staffing Plan and Implementation of QC/QA Plan Document
(The staffing plan should include names and responsibilities of the designers, detailers, checkers, reviewers, and the EOR.)

__ Determine Schedules for Project Submittals
(Design Criteria, TS & L, 30%, 60%, 90%, 100% of Preliminary Plans and Final Plans, Final Calculations, etc.)

__ Share Expectations and Consultant Rating Criteria
(Consultant rating will be performed for all project submittals shown on the project submittal schedule.)

__ Discuss Design Criteria

__ Discuss Budget, Supplemental Requests, Invoices, and Importance of Avoiding Claims (Staff shown on invoices will be reviewed in accordance with the staffing plan.)

APPENDIX K—CONSULTANT SUBMITTAL REVIEW CHECKLIST

Items	Submittals												
	Design Criteria	TS&L	30% PP	60% PP	90% PP	100% PP	30% FP	60% FP	90% FP	100% FP	Final Calculation Book	Plan Revisions	Change Orders
Consultant Submittal QC/QA Certification			R	R	R	R	R	R	R	R	R	R	R
Design Criteria	C												
TS&L		C											
Bridge Index			D	D	D	D	D	D	C	S			
General Notes			D	D	D	D	D	D	C	S			
Summary of Estimated Quantities			D	D	C	C	D	D	C	S			
General Plans			D	D	C	C	C	C	C	S			
Typical Sections			D	D	C	C							
Superelevation Diagram				D	D	C	C	C	C	S			
Construction Phasing Details				D	D	C	C	C	C	S			
Traffic Controls Details				D	D	C	C	C	C	S			
Foundation/Pile Layout				D	D	C	C	C	C	S			
Pile Loads/Details					D	D	D	C	C	S			
Pile Data Tables							D	D	C	S			
Bent Details							D	D	C	S			
Fender Details							D	D	C	S			
Girder Details							D	D	C	S			
Span Details							D	D	C	S			
Joint Details								D	C	S			
Bearing Details								D	C	S			
Approach Slab								D	C	S			
Guardrail Details								D	C	S			
Bridge Barrier/Railing Details								D	C	S			
Bridge Drainage Details								D	C	S			
Detour Bridge Details								D	C	S			
Revetment Details								D	C	S			
Signing/Lighting Details								D	C	S			
Year Plate								D	C	S			
Rebar Support								D	C	S			
Misc. Details								D	C	S			
Project Specific Standard Plans								D	C	S			
Electrical/Lighting Details								D	C	S			
Mechanical Details								D	C	S			
As-Built Plans								D	C	C			
Special Provisions/NS-Items							D	D	C	C			
Cost Estimate					D	D	D	D	C	C			
Final Calculations											S		
Revised Plans/Calculations												S	S

Legends:
"R" = The item is required and shall be included in the submittal.
"C" = The item shall be complete and shall be included in the submittal.
"D" = The item shall be in development and shall be included in the submittal.
"S" = The item is stamped by the EOR and shall be included in the submittal.

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 and include the following information:

__ **A PDF File of the Calculation Book**
__ **All Electronic Design Files**
__ **A PDF File of the As-Designed Rating Report Only**

QC/QA REVIEW COMMENT SUMMARY AND RESOLUTION SHEET			RESPONSE CODE
Project Name: XXX	CRESCENT ENGINEERING & MAPPING LLC	Date: XXXXX	1. Concur / Accept comment 2. Non-Concur / Disagree with comment 3. Conflicts with previous directive 4. For Information Only 5. Clarify or discussion required 6. Delete comment 7. Resolution of comment in next phase 8. See additional comment
Project Number: H.0XXXX	Engineer: Dennis Hymel, Jr., P.E.		
Submittal: 60% Preliminary	Reviewer: XXX	Page: 1 of 1	

- GENERAL USE (THIS SECTION)

Item No.	Date	(1)Source	Reviewer Comments	(2)Code	(2)Date	(3)Responses	(4)Final Resolution	
							Code	Date
1	8/31	2a	Revise typical section to include X.	1	9/10	Will Incorporate.	1	9/15

If no comment, write "NO COMMENT"	Signature of Reviewer	Agency/Company Sign-off

(1) Indicates the document / model , or use "G" for General Comment
(2) Design Firm/Agency response code & date to reviewer comment
(3) Design Firm/Agency response to reviewer comment
(4) To be filled out during back check / subsequent meeting/discussion

QA Information Package Checklist

Project No.:
Project Description:

_____ Calculation Book

_____ Plans

_____ Special Provisions

_____ Cost Estimate

_____ Other Documents _____

QC/QA Certification

Project No.:
Project Name:

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

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

Consultant Submittal QC/QA Certification

Project No.:
Project Name:

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

22. Sub-Consultant Information

Firm Name (Name must match as registered with Louisiana's Secretary of State)	Address	Point of Contact and Email Address	Phone Number
Crescent Engineering & Mapping, LLC	1815 Hwy 18 Vacherie, LA 70090	Dennis M. Hymel, Jr., PE Dennis.hymel@crescentengla.com	225-329-1742
Lazenby & Associates, Inc.	2000 N. Seventh Street West Monroe, LA 71291	Paul D. Fryer, PE, PLS pfryer@lazenbyengr.com	318-387-2710
APS Engineering and Testing, LLC	1645 Nicholson Drive Baton Rouge, LA 70802	Sergio Aviles, PE sergio@aps-testing.com	225-456-5714
Terracon Consultants, Inc.	2822 O'Neal Lane, Building B Baton Rouge, LA 70816	Lynne Roussel, PE Lynne.roussel@terracon.com	225-239-2632
Vectura Consulting Services, LLC	4467 Bluebonnet Blvd., STE A Baton Rouge, LA 70809	Sheelagh Brin Ferlito 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. Any information included in this section will be redacted if not required by the advertisement.