

**IDIQ Contract for Pavement Preservation  
Statewide with Majority of the Work in Districts 02,  
03, 07, 61, and 62**  
LADOTD Contract No. 4400030060





## Sections 1-11

I-10: Highland Road to LA 73 Design Build  
East Baton Rouge & Ascension Parishes  
H.009250

Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)  
Lead Design Firm

The James Construction Group (Primoris)/Waggoner (formerly Sigma) team was the only bidder after the other two teams declined to submit a bid.

Past Performance Disciplines performed by Waggoner:  
Road, Bridge, Traffic, Environmental, Other (Alternative Delivery), Other (SUE)

# DOTD FORM: 24-102

## PROPOSAL TO PROVIDE CONSULTANT SERVICES

Prime consultant shall complete the DOTD Form 24-102 without altering the Form's text; however, the instruction and/or guidance for Sections 12 through 23 can be removed but do not remove Section title and number.

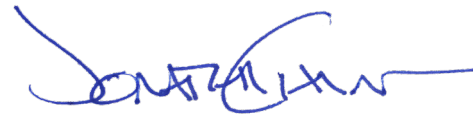
ANY CONSULTANT FAILING TO SUBMIT ANY OF THE INFORMATION REQUIRED ON THE DOTD FORM 24-102, OR PROVIDING INACCURATE INFORMATION ON THE DOTD FORM 24-102, MAY BE CONSIDERED NON-RESPONSIVE.

Contract No. 4400030060

<b>1. Contract Name</b> as shown in the advertisement	IDIQ Contract for Pavement Preservation Statewide with Majority of the Work in Districts 02, 03, 07, 61, and 62
<b>2. Contract Number(s)</b> as shown in advertisement	Contract No. 4400030060
<b>3. State Project Number(s)</b> , if shown in the advertisement	N/A
<b>4. Prime Consultant Name</b> (name must match as registered with the Louisiana Secretary of State where such registration is required by law)	<b>Waggoner Engineering, Inc.</b> (formerly Sigma Consulting Group, Inc.)
<b>5. Prime Consultant License Number</b> (as registered with the Louisiana Professional Engineering and Land Surveying Board (LAPELS) if registration is required under Louisiana law)	<b>EF.0002553</b> <b>VF.0000457</b>
<b>6. Prime Consultant Mailing Address</b>	10305 Airline Highway Baton Rouge, LA 70816
<b>7. Prime Consultant Physical Address</b> (existing or to be established, if location is used as an evaluation criteria)	10305 Airline Highway Baton Rouge, LA 70816
<b>8. Name, Title, Phone Number, and Email Address of Prime Consultant's Contract Point of Contact</b>	<b>Robert J. Lear, Jr., PE, LSI</b> Vice President robert.lear@waggonereng.com 225.298.0800
<b>9. Name, Title, Phone Number, and Email Address of the Official with Signing Authority for this Proposal</b>	<b>Jonathan Charbonnet</b> Vice President, Business Operations jonathan.charbonnet@waggonereng.com 225.448.3972



10. This is to certify that all information contained herein is accurate and true, and that the team presently has sufficient staff to perform these services within the designated time frame. By submitting this proposal, proposer certifies that it is not engaged in a boycott of Israel and it will, for the duration of its contract obligations, refrain from a boycott of Israel. Proposer also certifies and agrees that the following information is correct: In preparing its response, the proposer has considered all proposals submitted from qualified, potential subcontractors and suppliers, and has not, in the solicitation, selection, or commercial treatment of any subcontractor or supplier, refused to transact or terminated business activities, or taken other actions intended to limit commercial relations, with a person or entity that is engaging in commercial transactions in Israel or Israeli-controlled territories, with the specific intent to accomplish a boycott or divestment of Israel. The proposer also has not retaliated against any person or other entity for reporting such refusal, termination, or commercially limiting actions. DOTD reserves the right to reject the response of the bidder or proposer if this certification is subsequently determined to be false, and to terminate any contract awarded based on such a false response.

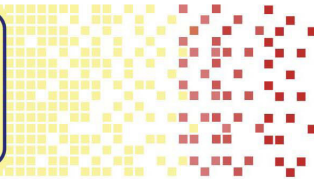


Signature above shall be the same person listed in Section 9

Date: September 3, 2024

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 Percent
Adaptive Management and Engineering, LLC	5%
Vectura Consulting Services, LLC	5%
Total DBE Participation	10%



**SIGMA IS NOW WAGGONER... GREATER CAPACITY TO TRANSFORM COMMUNITIES**







## Sections 12-15

I-10: E. Jct. I-49 to Atchafalaya Floodway Bridge  
Lafayette & St. Martin Parishes  
H.003003, H.010601, H.003014

Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)  
Lead Design Firm






**12. PAST PERFORMANCE EVALUATION DISCIPLINE TABLE:**


Past Performance Evaluation Discipline(s)	% of Overall Contract	Waggoner (formerly Sigma)	AME (DBE)	NTBA (DBE)	Vectura	Each Discipline must total to 100%
Road	75%	100%	-	-	-	100%
Traffic	5%	-	-	-	100%	100%
Geotech	5%	-	100%	-	-	100%
Survey	10%	50%	-	50%	-	100%
Right-of-Way	5%	50%	-	50%	-	100%
Identify the percentage of work for the <b>overall contract</b> to be performed by the prime consultant and each subconsultant.						
<b>Percent of Contract</b>	<b>100%</b>	<b>82%</b>	<b>5%</b>	<b>8%</b>	<b>5%</b>	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)
 <p><b>WAGGONER</b> FORMERLY SIGMA CONSULTING GROUP</p>	Principal	1	1
	Professional	1	2
	Supervisor - Engineer	7	8
	Engineer	6	6
	Engineer Intern	3	4
	Engineer - Other	2	2
	Environmental Manager	1	1
	CADD Technician	3	3
	CADD - Operator	5	5
	Supervisor - Other	2	3
	Senior Technician	1	1
	Technician	1	1
	GIS Analyst	0	6
	Instrument Man	1	1
	Surveyor	1	2
	Party Chief	3	3
	Clerical	1	4
 <p><b>ADAPTIVE</b> MANAGEMENT AND ENGINEERING</p>	Principal	1	1
	Engineer	2	2
	Engineer Intern	0	0
	Senior Technician	2	2
	Driller	1	1
	CADD Drafter	1	1
	Technician	3	3

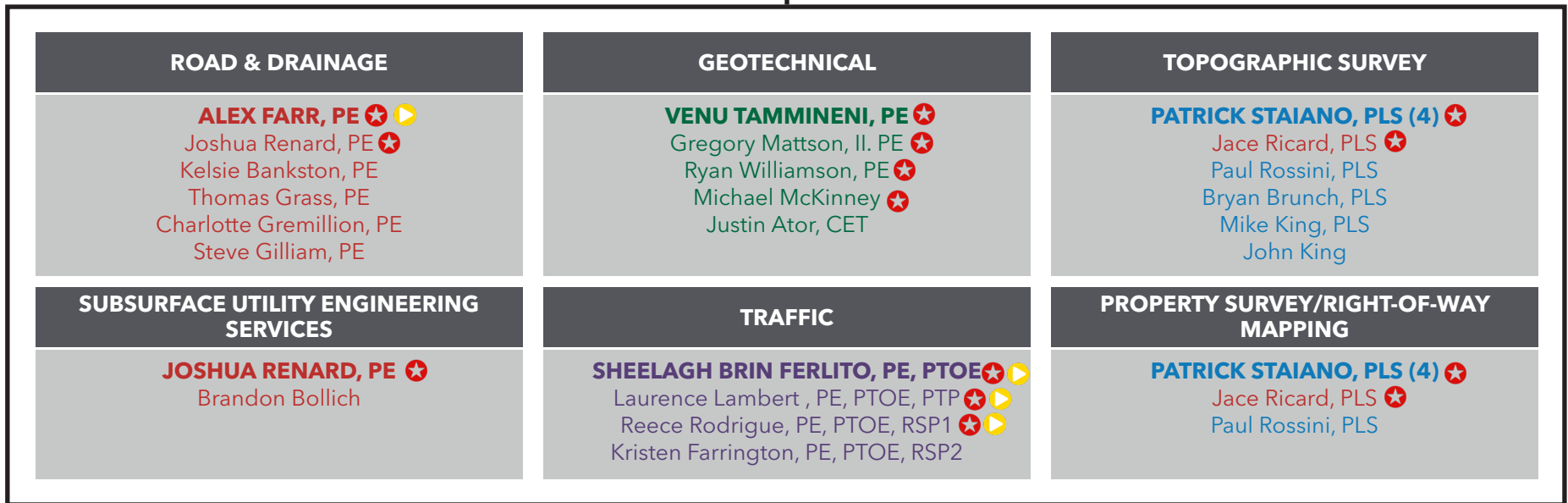
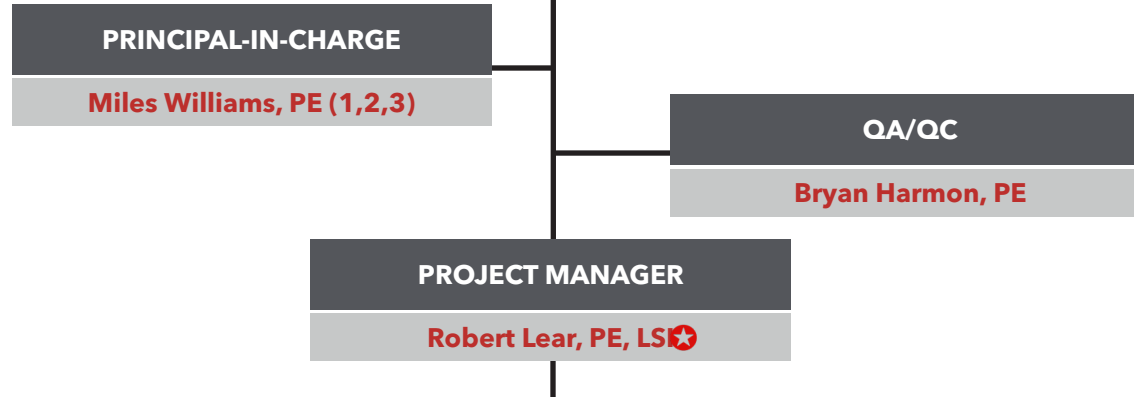
 <b>SURVEY. DESIGN. BUILD. SUCCEED.</b>	Principal	1	1
	Engineer	0	1
	Surveyor	4	7
	Supervisor - Other	1	3
	Senior Technician	0	1
	CADD Technician	1	6
	Technician	1	1
	CADD Drafter	2	6
	Party Chief	4	18
	Instrument Man	4	7
	Rodman	4	10

	Supervisor - Engineer	2	2
	Engineer	3	3
	Engineer Intern	0	2
	Inspector	0	1
	Senior Technician	0	1
	Technician	0	1
	Supervisor - Other	0	1
	Clerical	1	1



**14. ORGANIZATIONAL CHART:**

KEY
<b>Waggoner (formerly Sigma)</b>
<b>AME South</b>
<b>NTB Associates</b>
<b>Vectura</b>
(#) Meets MPR Criteria
★ Meets Work Zone Training Requirements
▶ Meets Traffic Engineering Process & Report Training Requirements
<b>DISCIPLINE LEAD</b> (CAPS & BOLD)



**15. MINIMUM PERSONNEL REQUIREMENTS:**

MPR # 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	Miles Williams, PE	Waggoner	PE#23094 - Civil	LA	3/31/2026
2	Miles Williams, PE	Waggoner	PE#23094 - Civil	LA	3/31/2026
3	Miles Williams, PE	Waggoner	PE#23094 - Civil	LA	3/31/2026
4	Patrick C. Staiano, PLS	NTB Associates	PLS#5130 - Surveying	LA	9/30/2025

\* The Waggoner team has multiple personnel assigned to this contract who have the qualifications necessary to meet each minimum personnel requirements. Individuals listed are the key personnel for each MPR. Additional names were not added to keep the response clear and concise.





## Section 16

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I-10: Highland Road to LA 73 Design Build  
East Baton Rouge & Ascension Parishes  
H.009250

Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)  
Lead Design Firm

The James Construction Group (Primoris)/Sigma (Waggoner) team was the only bidder after the other two teams declined to submit a bid.

Past Performance Disciplines performed by Waggoner:  
Road, Bridge, Traffic, Environmental, Other (Alternative Delivery), Other (SUE)

## 16. STAFF EXPERIENCE:

	Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)				
	Name	Robert J. Lear, Jr., PE, LSI		Years of Relevant Experience with this Employer	25
	Title	Vice President   Senior Project Manager		Years of Relevant Experience with Other(s) Employers	3
	Degree(s)/Years/Specialization		BS/1996/Civil Engineering		
	Active Registration Number/State/Expiration Date		PE#29394/LA/03-21-2025		
	Year Registered	2001	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities		Project Manager			
Robert will be responsible for the <b>day-to-day management</b> of the IDIQ Contract, ensuring that all <b>task orders</b> are executed according to the scope, schedule, and budget. He will oversee the preparation of preliminary and final plans, coordinating with all other team members to ensure all <b>designs comply with the LADOTD guidelines</b> and <b>incorporate all necessary environmental and constructability reviews</b> . With over 20 years of LADOTD project design and management experience, Robert will ensure projects meet LADOTD's goals and are completed on time.					
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).				
08/21 - 05/23 SECTION 17 PROJECT	<b>LA 73: US 61 (Airline Highway) - LA 426 (Essen Lane), E. Baton Rouge Parish, LA (H.010652)</b> Robert performed the roadway QA/QC for the entire project including typical sections, plan profiles, cross sections, pay items, quantities, and opinion of probable costs. Waggoner was contracted by LADOTD to engineer the reconstruction of LA 73, <b>covering full pavement replacement</b> , curbs, gutters, and sidewalks from Airline Highway to the I-12 on-ramp, and repairs from the I-12 on-ramp to Essen Lane. The project included a 2.3-mile roadway with quantity summaries, cost estimates, and plans to minimize traffic impacts.				
03/03 - Ongoing	<b>LA 1 Improvements: Fourchon-Golden Meadow, Lafourche Parish, LA (700-29-0112   H.008145   H.004526)</b> <b>Project Manager, Road Design Engineer, Permitting Manager.</b> Robert has served multiple roles for this multi-phase mega project to add 17 miles of tolled bridge on new alignment through coastal Louisiana. During Phase 1 (Fourchon-Leeville), he designed roadway, geometrics, permanent signing, permanent striping, roadway lighting, construction canal dredging plans, marsh creation mitigation plans, and provided <b>construction support</b> . He performed CE&I/OV services for the toll gantry, roadway lighting, electrical systems, wayfinding signage, permanent signing, and new toll building. He also prepared and secured all construction permits (USACE, DNR, USCG, DEQ) for Phases 1 and 2. He prepared demolition plans for the old Bayou Lafourche bridge substructure, as well as <b>coordinated SUE and utilities</b> for all pipeline in the active oil and gas field. <b>This project included both pavement preservation and capacity functional classifications.</b>				
10/12 - Ongoing SECTION 17 PROJECT	<b>Hooper Road Widening (LA 408) Blackwater-Joor, East Baton Rouge Parish, LA (H.002316)</b> <b>Project Manager.</b> Robert was the project manager during the Environmental Assessment phase of this 2.2-mile urban roadway capacity project. Hooper Road is being upgraded to a four-lane blvd with complete streets accommodations. He also managed the <b>topographic survey</b> and prepared <b>right-of-way (ROW) maps</b> . <b>This project included both pavement preservation and capacity functional classifications.</b>				
03/13 - 07/22	<b>I-10: East Jct. I-49 to LA 328, Lafayette and St. Martin Parishes, LA (H.003003)</b> <b>I-10: LA 328 to LA 347, St. Martin Parish (H.003014)</b> <b>I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish (H.003014)</b> <b>Project Manager and Lead Road Design Engineer Of Record.</b> Robert served as the project manager and lead road design engineer of record for <b>capacity and pavement preservation</b> improvements for I-10 in Lafayette. These three projects were designed concurrently under a <b>road design</b> retainer and constructed under three separate construction contracts. He designed roadway geometrics, drainage, graphical grades, ramp terminals, roundabout intersections, and construction sequencing. He also coordinated the multi-discipline plan set packaging, quantity computations, specs, special provisions, pay items, design reports, design waivers, design exceptions, and utility conflicts. He played an active role in construction support as well. <b>This project included both pavement preservation and capacity functional classifications.</b>				



## Robert Lear resume continued

01/13 - Ongoing	<b>I-49 South: US 90 and Ambassador Caffery Interchange, Lafayette Parish, (H.002868)</b> <b>Roadway Design Engineer.</b> Robert is a roadway design engineer for a new interchange on future I-49 at Ambassador Caffery Parkway in Lafayette, LA. Robert is responsible for the horizontal and vertical geometric design and <b>road plan production</b> of a four-tiered interchange, eight-lane mainline, two-lane one-way frontage roads, and u-turns.
2013 - 2015	<b>US 171: J-turns at North Perkins Ferry Road, Beauregard &amp; Calcasieu Parishes (H.010197)</b> <b>Survey Manager.</b> Robert was the survey manager for the design of J-turns and turn lanes at a three-leg intersection north of Lake Charles, LA. He was responsible reviewing all <b>survey and control data</b> . All work for this project was performed using Inroads Survey, CAD-Conform, and LADOTD electronic plan delivery requirements.
05/20 - Ongoing <b>SECTION 17 PROJECT</b>	<b>I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), East Baton Rouge Parish, LA (H.004100)</b> <b>Roadway Design Engineer.</b> Robert is a roadway design engineer for the widening of I-10, interchange improvements, and surface street improvements through Baton Rouge. His responsibilities include urban roadway, freeway, and interchange geometrics, profile design, typical sections, design reports, establishing required <b>ROW</b> , and plan preparation using Microstation and Inroads. He is part of the <b>roadway task force</b> which collaborates with the design team, DOTD, and the CMAR contractor.
04/02 - 04/12	<b>Jones Creek Road Improvements Tiger Bend Road - Coursey Blvd., East Baton Rouge Parish, LA (H.007137)</b> <b>Project Manager and Lead Road Design Engineer.</b> Robert was the project manager and lead road design engineer for the widening of a two-lane road to a five-lane urban section. He designed roadway geometrics, intersections, sidewalks, residential and commercial drives, pavement markings, and cross sections. He also managed the <b>topographic survey</b> and worked under PLS supervision for the <b>preparation of ROW maps</b> .
10/20 - Ongoing	<b>I-10 and I-12 College Drive Flyover Ramp Design-Build (CE&amp;I/OV), East Baton Rouge Parish, LA (H.013897)</b> <b>Lead Road Design Engineer.</b> Robert is serving as the lead design review engineer for the following design units: definitive design, clearing and grubbing, <b>roadway, drainage</b> , maintenance of traffic, pavement marking and signing, Stormwater Pollution Prevention Plan (SWPPP), and <b>TMP Level 4</b> . His responsibilities include technical reviews of calculations and drawings for conformance to the minimum guidelines, project technical performance specifications, and contract documents.
05/21 - 03/23	<b>LA 352 Drainage Improvement, St. Martin Parish, LA (H.014415)</b> <b>Project Manager and Design Engineer.</b> Robert was the project manager and design engineer of record for <b>drainage improvements</b> along LA 352 in Henderson, LA. The project includes removing several undersized side drains and side road cross drains with a 10x6 RCB to alleviate regional flooding problem near the I-10 Henderson exit. The design also incorporates a <b>drainage bypass system</b> to balance flows near the interchange. Robert is responsible for coordinating the project with the District 03 administrator, DTOE, area engineer, and utility coordinator, along with the <b>design of the drainage systems</b> , maintenance of traffic plans, and <b>construction plan development</b> .
08/18 - 10/22	<b>I-220/I-20 Interchange and BAFB Access Design-Build, Bossier Parish, LA (H.003370)</b> <b>Lead Road Design Engineer.</b> The project includes adding ramps to the existing I-20/I-220 Interchange and providing full access to the Barksdale Air Force Base via a new four-lane rural arterial roadway. Robert is the roadway design engineer for this LADOTD <b>design-build project</b> . He is responsible for preparing the geometric design criteria reports, design exceptions, horizontal and vertical geometrics for the interstate, diagonal and loop ramps, C-D road, and rural arterial; superelevation transitions, typical sections, plan profile sheets, geometric control, geometric layout, geometric details, cross sections, <b>drainage design</b> including cross drains, storm drains, side drains, roadside ditches, <b>existing and design drainage maps</b> , clearing and grubbing plans, and construction support. Robert also was responsible for QA/QC reviews and/or independent reviews of the SWPPP, Interchange Modification Report (IMR) re-evaluation, <b>traffic control plans</b> , signing and striping plans, and transportation management plan.
01/14 - 07/16	<b>LA 342: Roundabout at LA 724, Lafayette Parish, LA (H.002163)</b> <b>Project Manager and Lead Road Design Engineer.</b> Robert served as the project manager and road design engineer for a four-legged single-lane roundabout in Lafayette Parish. He was responsible for the horizontal and vertical <b>geometric design</b> , typical sections, suggested sequencing, permanent pavement markings, permanent signing, quantities and opinion of probable costs for this project. He also supervised all survey and SUE efforts. <b>Utility locates</b> included QL-D and QL-C locates. Robert coordinated with District 03 for <b>utility relocation</b> requirements and needs.

## 16. STAFF EXPERIENCE:



Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)			
Name	<b>Miles Williams, PE</b>		Years of Relevant Experience with this Employer
Title	Senior Vice President/Transportation Market Section Lead		Years of Relevant Experience with Other(s) Employers
Degree(s)/Years/Specialization	BS/1983/Civil Engineering		
Active Registration Number/State/Expiration Date	PE#23094/LA/03-31-26		
Year Registered	1988	Discipline	Civil Engineering
Contract Role(s)/Brief Description of Responsibilities		Principal-in-Charge   <b>Meets MPR 1,2,3</b>	

Miles will oversee the project, ensuring that all services are performed in compliance with the **IDIQ Contract** and the specific **task orders**. He will provide high-level direction and decision-making, ensuring that the team adheres to the **DOTD Location and Survey Manual** and other relevant standards. Miles will also be responsible for **final approval of all deliverables** and coordination with the DOTD's Chief Engineer to ensure quality and conformity with **DOTD's quality standards**. Miles has served as a design engineer and project manager on a wide range of traffic engineering and transportation-related projects. His tasks have included the design of individual signal installations and interconnected signal systems. Miles has supervised the multidisciplinary design of diverse control signal systems for a wide variety of both **governmental and private clients**. In addition, Miles has demonstrated extensive experience in the development of maintenance of traffic, construction phasing, and construction **signing plans** and specifications.


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).
08/21 - 05/23 <b>SECTION 17 PROJECT</b>	<b>LA 73: US 61 (Airline Highway) - LA 426 (Essen Lane), E. Baton Rouge Parish, LA (H.010652)</b> Miles was the road design engineer-of-record and was responsible for all <b>roadway design</b> and plan preparation tasks. Waggoner was contracted by LADOTD to engineer the reconstruction of LA 73, covering <b>full pavement replacement</b> , curbs, gutters, and sidewalks from Airline Highway to the I-12 on-ramp, and repairs from the I-12 on-ramp to Essen Lane. The project included a 2.3-mile roadway with quantity summaries, cost estimates, and plans to minimize traffic impacts.
03/03 - Ongoing	<b>LA 1 Improvements: Fourchon-Golden Meadow, Lafourche Parish, LA (700-29-0112   H.008145   H.004526)</b> <b>Project Manager, Lead Road Design Engineer, Principal-In-Charge.</b> Miles was the lead road design engineer for Phase 1 of this multi-segment mega project to add 17 miles of tolled bridge on new alignment through coastal Louisiana. During Phase 1 (Fourchon-Leeville), he designed both interim and ultimate interchange/intersection geometrics, <b>roadway plans</b> , permanent signing, permanent striping, and provided <b>construction support</b> . He is the principal-in-charge for environmental and permitting services, and construction support services for Phase 2 (Leeville-Golden Meadow). <b>This project included both pavement preservation and capacity functional classifications.</b>
10/12 - Ongoing <b>SECTION 17 PROJECT</b>	<b>Hooper Road Widening (LA 408) Blackwater-Joor, East Baton Rouge Parish, LA (H.002316)</b> <b>Principal-in-Charge.</b> Miles is the principal-in-charge for the NEPA EA and urban <b>road design</b> of this 2.2 mile capacity project. Hooper Road is being upgraded to a four-lane blvd with complete streets accommodations. <b>This project included both pavement preservation and capacity functional classifications.</b>
03/13 - 07/22	<b>I-10: East Jct. I-49 to LA 328, Lafayette and St. Martin Parishes, LA (H.003003)</b> <b>I-10: LA 328 to LA 347, St. Martin Parish, LA (H.003014)</b> <b>I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish, LA (H.003014)</b> <b>Principal-in-Charge, Road Design Engineer.</b> Miles served as the principal-in-charge and road design engineer for capacity and pavement preservation improvements for I-10 in Lafayette. These three projects were designed concurrently under a <b>road design</b> retainer and constructed under three separate construction contracts. He provided overall contract management, designed sequence of <b>construction plans</b> , and mentored the <b>roadway design</b> calculation and plan preparation process. He played a supportive role in construction support as well. <b>This project included both pavement preservation and capacity functional classifications.</b>

## Miles Williams resume continued

01/13 - Ongoing	<b>I-49 South: US 90 and Ambassador Caffery Interchange, Lafayette Parish, LA (H.002868)</b> <b>Road Design Engineer.</b> Miles is the road design engineer of record for a new interchange on future I-49 at Ambassador Caffery Parkway in Lafayette, LA. He is responsible for the horizontal and vertical <b>geometric design</b> , subsurface and open ditch <b>drainage design</b> , and road plan production of a four-tiered interchange, eight-lane mainline, two-lane one way frontage roads, and u-turns. He also is responsible for coordinating the frontage road extensions and interchange alternative design for future/interim condition implementation.
05/20 - Ongoing SECTION 17 PROJECT	<b>I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), East Baton Rouge Parish, LA (H.004100)</b> <b>Road Design Lead.</b> Miles is the road design lead professional for the replacement of I-10, interchange improvements, and surface street improvements through Metro Baton Rouge. His responsibilities include <b>road and drainage design</b> , complex interchange geometric design, maintenance of <b>traffic/sequencing plans</b> , coordinating with the CMAR contractor, design and constructability reviews, value engineering assessments, cost estimating, project phasing for GMP limit determination, proposed <b>right-of-way</b> and control-of-access limit determination, <b>utility coordination</b> , and public involvement.
04/02 - 04/12	<b>Jones Creek Road Improvements Tiger Bend Road - Coursey Blvd., East Baton Rouge Parish, LA (H.007137)</b> <b>Principal-in-Charge, Project Manager.</b> Miles was the principal-in-charge for the Jones Creek Road Improvements project for LADOTD. The project involves widening an existing two-lane roadway to a five-lane curb and gutter roadway with <b>subsurface drainage</b> . He was responsible for contracts, geometrics, <b>road design</b> , sequence of construction, signing, and coordination of <b>traffic signalization</b> . He was also the project manager during the <b>topographic and boundary survey and right-of-way map</b> preparation phases.
12/14 - 04/19	<b>South Acadian Thruway (Perkins Road - LA 73), East Baton Rouge Parish, LA (H.011261)</b> <b>Principal-in-Charge.</b> Miles was the principal-in-charge for the safety project designed to reduce the number of accidents along the stretch of Acadian Thruway. The project includes replacing the asphalt overlay and improving the intersection design at Claycut Road. Miles reviewed proposed safety and sidewalk improvements as they were implemented in the project. <b>This project included both pavement preservation and capacity functional classifications.</b>
04/18 - Ongoing	<b>Belle Chasse Bridge and Tunnel Replacement Public-Private Partnership Project, Plaquemines, and Jefferson Parish, LA (H.004791)</b> <b>Project Principal, Hydraulic Design Engineer.</b> Waggoner is a design subconsultant providing drainage design for this alternative delivery project. Miles is serving as project principal and hydraulic design engineer. His work entails liaison with the prime consultant, builder, concessionaire, and LADOTD. He is also assisting in the design of the <b>drainage system</b> for the roadways throughout the project including storm sewer design, <b>drainage plans preparation</b> , and generation of quantities.



**16. STAFF EXPERIENCE:**

	Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)				
	Name	<b>Bryan Harmon, PE</b>		Years of Relevant Experience with this Employer	8
	Title	Vice President   Special Projects Engineer		Years of Relevant Experience with Other(s) Employers	33
	Degree(s)/Years/Specialization		BS/1981/Agricultural Engineering   BS/1982/Civil Engineering		
	Active Registration Number/State/Expiration Date		PE#22595/LA/01-31-2025		
	Year Registered	1987	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities			QA/QC		
<p>Bryan will oversee the <b>quality assurance and quality control</b> processes throughout the project lifecycle and ensure that all project deliverables meet the established standards, specifications, and regulatory requirements through systematic review and auditing. At Waggoner, Bryan is responsible for overseeing all aspects of project management and development, including planning, <b>design</b>, plan preparation, construction documents, <b>bid and construction phase services</b>, and project oversight. With extensive engineering experience in the transportation sector, Bryan excels in delivering projects and programs from inception to completion. His expertise in quality control and collaboration with state, federal, and local officials ensures successful <b>project delivery and compliance</b> with all regulatory standards.</p>					
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
03/13 - 07/22	<p><b>I-10: East Jct. I-49 to LA 328, Lafayette &amp; St. Martin Parishes (H.003003)</b>  <b>I-10: LA 328 to LA 347, St. Martin Parish (H.003014)</b>  <b>I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish (H.003014)</b>  <b>QA/QC.</b> Bryan performed roadway and drainage design for these three segments of I-10. He also performed superelevation computations and graphical grades to provide positive <b>drainage</b> along relatively flat grades in the median of the interstate. He was also responsible for QA/ QC of the <b>roadway plans</b> and sequence of construction for the LA 347 roundabouts and <b>roadway improvements</b>. <b>This project included both pavement preservation and capacity functional classifications.</b></p>				
05/21 - 03/23	<p><b>LA 352 Drainage Improvement, St. Martin Parish, LA (H.014415)</b>  <b>Lead Hydraulic Engineer.</b> Bryan is the lead hydraulic engineer for <b>drainage improvements</b> along LA 352 in Henderson, LA. The project includes removing several undersized side drains and side road cross drains with a 10x6 RCB to alleviate regional flooding problems near the I-10 Henderson exit. The design also incorporates a <b>drainage bypass system</b> to balance flows near the interchange. Bryan is responsible for performing HEC-RAS modeling and HYDRO-WIN calculations on the main outfall channel, developing <b>drainage alternatives</b> and associated costs, and QA/QC on the <b>construction plans</b>.</p>				
08/18 - 10/22	<p><b>I-220/I-20 Interchange and BAFB Access Design-Build, Bossier Parish, LA (H.003370)</b>  Bryan was responsible for the evaluation and design of both the existing and proposed <b>drainage systems</b> for this new four-lane rural arterial and roadway. In addition to the standard <b>DOTD drainage evaluations</b> for storm <b>drain systems</b> (inlets, pipes, box culverts, and bridges) consideration of impacts to the surrounding floodplain storage basins and wetlands had to be considered. The floodplain area along the southern limits of the project is also bisected by the KCSRR and is subject to significant backwater and overbank flooding from Red Chute Bayou. Due to the <b>floodplain complexities</b> associated with this lateral overflow storage area, coordination with the Bossier Levee District was required which included utilizing elements of their 2-D Unsteady Flow Hec Ras Model for this region. Due to the <b>lateral overflows and interchange of flows</b>, consideration of bridge scour was evaluated for the KCSRR Overpass utilizing the HEC -RAS computer model.</p>				

## Bryan Harmon resume continued

10/20 - Ongoing	<b>I-10 and I-12 College Drive Flyover Ramp Design-Build (CE&amp;I/OV), E. Baton Rouge Parish, LA (H.013897)</b> <b>Road Design and Drainage Design Reviewer.</b> Bryan is serving as both a road design and drainage design reviewer, providing support services to DOTD for this project. This project consists of modifying the I-10 West/College Drive exit into separate I-12 West and I-10 West exits. Bryan's responsibilities include participation in the progress reviews of each Design Unit and Ready for Construction (RFC) Plan submittals. These reviews include roadway plans, construction sequencing, primary drainage systems, open channel design, with consideration being given to <b>DOTD Design Guidelines, Hydraulics Manual, standard details and specifications</b> , and to potential impacts to the Wards Creek drainage basin and adjoining infrastructure developments. Having served as the drainage engineer, chief engineer, and ultimately the Director of Public works for the East Baton Rouge City-Parish, Bryan brings significant institutional knowledge of the local <b>drainage and roadway systems</b> within the parish and how they may react to this project modification. He clearly understands the concerns that may be expressed by the local community and the need for proper public-private communication and partnership on a project of this magnitude.
05/20 - Ongoing SECTION 17 PROJECT	<b>I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), East Baton Rouge Parish, LA (H.004100)</b> <b>Supervising Drainage Engineer.</b> Bryan is serving as Waggoner's supervising drainage engineer for this major interstate improvement project from just east of the Mississippi River bridge crossing to just west of College Drive. Bryan is responsible for the final <b>drainage design</b> of the interstate collection systems, <b>local frontage roads, and drainage</b> outfalls including the bridge <b>hydraulic evaluation</b> of the Acadian Thruway Bridge over Dawson Creek.
08/21 - 05/23 SECTION 17 PROJECT	<b>LA 73: US 61 (Airline Highway) - LA 426 (Essen Lane), East Baton Rouge Parish, LA (H.010652)</b> <b>Project Manager.</b> Bryan was the project manager for the development of preliminary and final plans to fully reconstruct existing LA 73, including <b>complete pavement and base removal and replacement</b> , curbs and gutters, and sidewalks from Airline Highway to the I-12 on-ramp near Drusilla Lane, and for <b>concrete pavement patching and repair</b> of damaged curbs and sidewalks from the I-12 on-ramp to Essen Lane. This plan development consists of all engineering services including a summary of estimated quantities and cost.
10/20 - Ongoing	<b>Rural Bridge Replacement Initiative Phase II (South), LA (440001338)</b> <b>Supervising Hydraulic Design Engineer.</b> Bryan is serving as Waggoner's supervising hydraulic design engineer for the Phase II Rural Bridge Replacement Initiative. Hydrologic and hydraulic evaluations are being developed to provide a hydraulically suitable replacement for the existing bridge structures that have been designated for replacement under this program. All <b>bridge hydraulic reports</b> , data forms, and data tables are being prepared in accordance the current <b>DOTD Hydraulics Manual</b> and design directives.
2016 - Ongoing SECTION 17 PROJECT	<b>Hooper Road (LA 408), East Baton Rouge Parish, LA (H.002316/CP#12-CS-HC-0017)</b> <b>Hydraulic Design QA/QC.</b> The project consists of improving Hooper Road in Central, LA from Blackwater Road to Sullivan Road. Bryan performed all QA/QC and hydraulic design oversight for the project including existing and proposed <b>drainage computations, existing drainage areas</b> , pre- and post-development stormwater parameters, HEC-RAS models of the five existing major cross drains to evaluate existing and proposed conditions, design of reinforced box culverts for cross drains, open ditches, and/or <b>drainage structures</b> and piped systems for <b>storm drainage collection</b> . He was the plan checker for the <b>drainage plan and profile</b> , existing and proposed drainage, and the summary of drainage structure sheets. The design computations were performed using HYDRWIN, Global Mapper, HEC-RAS, Excel, and Civil3D.

**16. STAFF EXPERIENCE:**


Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)					
Name		Alex Farr, PE		Years of Relevant Experience with this Employer	9
Title		Project Manager		Years of Relevant Experience with Other(s) Employers	2
Degree(s)/Years/Specialization			BS/2011/Civil Engineering		
Active Registration Number/State/Expiration Date			PE#40426/LA/09-30-2024		
Year Registered	2016	Discipline	Civil Engineering		
Brief Description of Responsibilities		Discipline Lead - Road & Drainage			
As the road and drainage discipline lead, He will be responsible for overseeing the <b>detailed engineering and design</b> of the pavement transportation system management (TSM) projects. Alex will manage the <b>topographic surveys</b> , ensuring accurate stationing of the <b>project cross-sectioning of roadways and ditches</b> . He will coordinate with the project manager to ensure that all <b>drainage structures, utilities, and conditions</b> are properly documented and incorporated into the preliminary and final plans. Alex will also guide the team in adhering to the <b>Design Procedures</b> and <b>Louisiana Standard Specifications</b> , ensuring that all designs are completed to the highest standard.					
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).					
<b>I-10: East Jct. I-49 to LA 328, Lafayette and St. Martin Parishes, LA (H.003003)</b> <b>I-10: LA 328 to LA 347, St. Martin Parish, LA (H.003014)</b> <b>I-10: LA 347 to Atchafalaya Floodway Bridge, St. Martin Parish, LA (H.003014)</b> <b>Project Engineer.</b> Alex prepared <b>road design plans</b> for the interstate, ramps, and overpasses for all three segments of I-10. The <b>TMPs</b> pertained to alternate route analysis, public information, stakeholder involvement, traffic and safety data, temporary traffic control, and work zone impact management strategies. Alex was also responsible for the suggested <b>sequence of construction</b> , temporary signing, and quantity computations for each construction funding source and control section. Alex prepared <b>road design plans</b> for the interstate, ramps, and overpasses for all three segments of I-10. <b>This project included both pavement preservation and capacity functional classifications.</b>					
<b>Rural Bridge Replacement Initiative Phase II (South), LA (440001338)</b> <b>Project Manager.</b> Alex is responsible for the plan development of this project, which is for 16 state projects including 29 bridge replacement sites throughout south Louisiana. This includes preparing the <b>Project Design Report (PDR)</b> as well as the horizontal and vertical geometry. As some bridge sites are allowed to be closed for construction while others must remain open, Alex is also responsible for designing a detour route or diversion road, which includes a suggested <b>sequence of construction</b> . Alex is also responsible for the guardrail design at each bridge site. Along with <b>plan development</b> , Alex will be assisting the project manager in subconsultant coordination as well as invoicing and progress reporting to the LADOTD Project Manager.					
<b>I-220/I-20 Interchange and BAFB Access Design-Build, Bossier Parish, LA (H.003370)</b> <b>Project Engineer.</b> Alex was responsible for performing the <b>design of the ramp's profiles</b> , including the super elevation calculations as well as the graphical grades. Alex was also responsible for the permanent striping plans, clearing and grubbing plans, and the quantity estimate.					
<b>I-10 &amp; I-12 College Drive Flyover Ramp Design-Build (CE&amp;I/OV), E. Baton Rouge Parish, LA (H.013897)</b> <b>Road and Construction Sequencing Design Reviewer.</b> Alex is serving as a road and construction sequencing design reviewer, providing support services to DOTD for this project. This project consists of modifying the I-10 West/College Drive exit into separate I-12 West and I-10 West exits. Alex's responsibilities include reviews of <b>roadway plans</b> and <b>construction sequencing</b> with consideration being given to DOTD Design Guidelines and Standard Details and Specifications.					



## Alex Farr resume continued

05/20 - Ongoing <b>SECTION 17 PROJECT</b>	<b>I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), E. Baton Rouge Parish, LA (H.004100)</b> <b>Project Engineer.</b> Alex was responsible for developing the proposed vertical profiles along the entire mainline corridor as well as their respective <b>service roads</b> , surface streets, entrance, and exit ramps. This included determining existing vertical clearance along the corridor and adjusting the profile to meet the minimum vertical clearance per LADOTD minimum <b>design guidelines</b> . This was performed along this corridor by using as-builts pertaining to their respective locations. Alex was also responsible for calculating the <b>roadway and bridge</b> construction costs for the project opinion of probable costs.
01/17 - Ongoing	<b>I-49 South: US 90 &amp; Ambassador Caffery Interchange, Lafayette Parish, LA (H.002868)</b> <b>Project Engineer.</b> Alex was responsible for the storm sewer drainage design along the northbound and southbound service roads for this project. Alex was also responsible for preparing a <b>traffic signal plan</b> including a traffic signal warrant analysis as well as an operational analysis concerning the two new proposed signals at the NB and SB service roads and Ambassador Caffery. Alex also developed the <b>Transportation Management Plan (TMP)</b> for this project to minimize impacts to the traveling public throughout construction.
10/16 - 12/20	<b>I-10: Highland to LA 73 Design-Build Project, East Baton Rouge and Ascension Parish, LA</b> <b>Project Engineer.</b> Alex was responsible for performing the <b>TMP</b> as well as the safety analysis for this project to determine what safety concerns correlated to the construction of this segment. Alex was also responsible for the suggested <b>sequence of construction</b> , guardrail design, and the quantity estimate for the above mentioned project.
2019 - Ongoing	<b>Jones Creek Road Improvements Phases 1A &amp; 1B, East Baton Rouge Parish, LA</b> <b>Project Manager.</b> Waggoner was contracted by the East Baton Rouge Parish Department of Transportation and Drainage (EBR DOTD) through the MOVEBR Program to design the extension of Jones Creek Road from the existing Tiger Bend Road intersection to a new terminus point on Airline Highway. The project includes a two-mile four-lane boulevard on new alignment, green infrastructure drainage features, a roundabout at Jefferson Highway, a new residential subdivision access point for an existing subdivision, a new bridge over Claycut Bayou, <b>topographic and right-of-way mapping</b> , and stormwater detention ponds to control outfall channel levels. Alex designed the <b>roadway geometrics</b> , typical sections, geometric details, cross sections, MOT, quantities, and construction cost estimates.
2018 - 05/24	<b>Scotlandville Parkway to Downtown Baton Rouge Bike Trail (H.013267)</b> <b>Project Engineer.</b> Alex served as the project engineer and designed a bike trail from Memorial Stadium to BREC Scotlandville Parkway Park. The design included separated mixed use trails, road to trail conversions, and shared lanes. Alex also prepared the <b>striping and signing plans</b> for this route, quantities, and estimated construction cost.
12/14 - 04-19	<b>Acadian Thruway Safety Improvements (H.011261)</b> <b>Project Engineer.</b> Alex computed project quantities, sequence of construction, and the striping plan for this mill and overlay project. Alex also was responsible for <b>utility location</b> along this segment. He designed geometric alternates for the intersection at Claycut Road.

## 16. STAFF EXPERIENCE:


	Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)				
	Name		Joshua Renard, PE	Years of Relevant Experience with this Employer	17
	Title		Project Manager	Years of Relevant Experience with Other(s) Employers	1
	Degree(s)/Years/Specialization		BS/2006/Civil Engineering		
	Active Registration Number/State/Expiration Date		PE#36015/LA/03-31-20205		
	Year Registered	2011	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities		Road/Drainage   Discipline Lead - SUE Services			
Joshua will play a dual role on the <b>road and drainage team</b> as well as <b>SUE services</b> team. He will conduct <b>topographic surveys</b> , focusing on the <b>stationing and cross-sectioning of roadways</b> , and will contribute to the detailed <b>design of drainage systems</b> . Additionally, Joshua will be responsible for identifying and documenting <b>subsurface utilities</b> , ensuring accurate location and mapping of all utilities within the project limits. His work will be crucial in coordinating with utility companies and integrating utility adjustments into the <b>preliminary and final design plans</b> , adhering to <b>DOTD standards</b> . Joshua has extensive knowledge in HEC-RAS, HYDRWIN, and PondPack software packages.					
Experience Dates (mm/yy-mm/yy)		Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
10/16 - 12/20		<b>I-10: Highland to LA 73 Design-Build Project, East Baton Rouge and Ascension Parish, LA (H.009250) Utility Coordinator.</b> Joshua served as the utility coordinator for this interstate design-build project. He communicated with and gathered information from utility owners to ensure that the road was designed and the contractor could proceed without conflict. Joshua coordinated efforts to have telecommunications, water, and gas lines marked in the field and then led efforts to have Level A test holes performed to ensure a successful <b>no-conflict design</b> .			
01/22 - Ongoing SECTION 17 PROJECT		<b>LA 408: Hooper Road (Blackwater Bayou to Joor Road) East Baton Rouge Parish, LA (H.002316/CP#12-CS-HC-0017) Project Manager.</b> Joshua was the project manager for the four-lane road widening project in the city of Central. This two-mile rural road includes a new two-lane roundabout and accommodates pedestrians, bicyclists and vehicles. His responsibilities included <b>roadway and drainage design</b> , plan preparation, <b>utility coordination</b> , and <b>SUE services</b> including QL-B designations and QL-A locates.			
05/20 - Ongoing SECTION 17 PROJECT		<b>I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), E. Baton Rouge Parish, LA (H.004100) SUE Project Engineer.</b> Joshua designed the <b>utility duct bank plans</b> to relocate critical existing and new fiber optic and electrical power infrastructure. This immediate relocation served necessary for the fast upcoming I-10 widening project from LA 415 through Essen Lane.			
02/24 - Ongoing		<b>Saline Bayou Relief &amp; Mill Cr. Brs. Water Lines Locate &amp; Design - SUE, Winn Parish, LA - Utility Coordination, QL-A through D Locates, and Relocation Plans</b> <b>Project Manager.</b> Waggoner is locating existing water lines and preparing <b>relocation plans</b> for 3 bridge sites on LA 126 over Saline Bayou, Mill Creek and Cypress Creek in Winn Parish, LA. Josh obtained as-builts, and performed QL-B and QL-A <b>SUE services</b> at each site. He is the engineer of record for the utility relocation plans.			
2019 - Ongoing		<b>MOVEBR Program- Lead Utility Coordinator, EBR Parish, LA</b> Joshua serves as the main point of contact for all utility companies on 50+ Enhancement Projects on the MOVEBR transportation, road, and traffic program. He is leading the effort to create the <b>Utility Coordination Process and Design Guidelines</b> for Designers- Utility Section. He will serve in this role during both the <b>design and construction phase</b> for the program. He will also utilize <b>SUE services</b> where appropriate to gain pertinent location information for design efforts. He will also work to ensure that relocations are successful and will <b>resolve utility conflicts</b> encountered during construction.			



## Joshua Renard resume continued


2017 - 2018	<p><b>LA 675 and LA 87 Improvements - SUE Services, New Iberia, LA (H.011781)</b>  <b>Project Manager.</b> Joshua served as the project manager for this DOTD project, which included Level A through D underground <b>utility location work</b> as well as video inspection of sewer mainlines and laterals along a one-mile section of Hopkins Street in New Iberia, LA. Under his guidance, Waggoner (formerly Sigma) <b>located utilities through Quality Level A-D</b>. His responsibilities included coordination with utility companies and local government representatives to obtain as-built drawings, <b>meeting with DOTD representatives</b>, design engineers, surveyors, and subcontractors to coordinate the location work, providing valuable utility location information to the design team.</p>
2018 - 2019	<p><b>Subsurface Utility Engineering Causeway Blvd at Earhart, Jefferson Parish, LA</b>  Joshua managed this utility location project for DOTD. The primary goal of this project was to locate sewer, water, and fiber lines to provide DOTD's design team with sufficient information to adjust their design to miss the utilities or have the <b>utilities relocated</b>. Waggoner (formerly Sigma) located utilities through all Quality Levels. He coordinated with utility owners and Waggoner's locating crew to identify, locate, and mark the utilities, as well as coordinated with Waggoner's survey team to have the <b>lines surveyed</b>. Based on the location crew's fieldwork he helped develop a <b>final plan set</b> as well as a Utility Owner Contact List and a Utility Conflict Matrix for delivery to DOTD.</p>
2015 - 2017	<p><b>Jones Creek Road (Coursey to Tiger Bend), East Baton Rouge Parish, LA</b>  Joshua worked directly for the City of Baton Rouge resolving <b>construction and utility related</b> issues in a timely manner during the construction phase of this project. This included gravity and force main sewer installation, roadway drainage installation, concrete pours, traffic lane switching, and signage. He served as the main point of contact for all <b>utility coordination</b> efforts and successfully managed this charge through the completion of the project.</p>
2019	<p><b>Subsurface Utility Engineering I-220/I-20 Interchange &amp; BAFB Access Design-Build, Bossier Parish, LA (H.003370)</b>  Joshua coordinated with multiple utilities affected by this project. He was able to obtain detailed information on the size, type and location of the utilities in conflict or potential conflict with construction activities. These included abandoned pipelines, active fiber optic lines, buried cables with unknown ownership, and multiple utilities within KCS Railroad right of way. Joshua then <b>led the SUE team</b> in obtaining level A location information for these utilities.</p>
2019	<p><b>Subsurface Utility Engineering Leesville Roundabout, Vernon Parish, LA (H.011909)</b>  <b>Project Manager.</b> Joshua served as the project manager for this DOTD project, which included <b>Level A through D underground utility</b> location at the intersection of Boone Street and US 171 in Leesville, LA. His responsibilities included coordination with utility companies and local government representatives to obtain as-built drawings, meeting with DOTD representatives, design engineers, surveyors, and subcontractors to coordinate the location work, providing valuable <b>utility location</b> information to the <b>design team</b>. He was also responsible for traffic control plan development, Level A field investigations, <b>SUE plan development</b>, and utility conflict matrix preparation.</p>

## 16. STAFF EXPERIENCE:


	Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)				
	Name	Kelsie Bankston, PE		Years of Relevant Experience with this Employer	2
	Title	Project Engineer		Years of Relevant Experience with Other(s) Employers	3.5
	Degree(s)/Years/Specialization		BS/2018/Civil Engineering		
	Active Registration Number/State/Expiration Date		PE#47126/LA/03-31-2025		
	Year Registered	2022	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities			Road & Drainage		
<p>Kelsie will serve on the road and drainage team. She will focus on conducting <b>topographic surveys</b>, particularly in recording <b>drainage structures and cross-sections</b>. Kelsie will ensure that all measurements, such as <b>travel lanes, shoulder widths, and utility locations</b> are accurately documented. Her work will contribute to the <b>preliminary and final plan preparations</b>, ensuring the designs meet the required <b>DOTD guidelines</b>. Previously, she worked as an engineer intern at Forte &amp; Tablada, Inc., where she conducted site visits, assisted with bridge inspections, prepared reports, and designed bridge replacements. She also trained new engineers and coordinated project progress.</p>					
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
10/20 - Ongoing	<b>Rural Bridge Replacement Initiative, LA</b> <b>Project Engineer.</b> Kelsie is managing and designing four bridge replacement projects included in this contract. This work includes assessing site conditions, deciding the structure type and size based on the hydraulics of the channel, and designing the roadway approaches. She is responsible for project management, roadway and slab span bridge design, <b>construction plan preparation</b> , quantity computations, and developing an opinion of probable costs.				
2021 - 02/23 SECTION 17 PROJECT	<b>LA 73: US 61 (Airline)-Essen Lane, East Baton Rouge, LA (H.010652)</b> <b>Project Engineer.</b> This roadway transfer project involves replacement of the existing LA 73 roadway with a new asphalt pavement section. Kelsie assisted in setting up the base geometry using as-built drawings and <b>survey data</b> for the reconstruction of LA 73, including curb and gutter and sidewalks throughout the limits of the project. She was responsible for all quantity calculations, including compiling the quantity book, and the summary sheets. She also performed the QA/QC of the <b>geometric details</b> .				
10/21 - Ongoing SECTION 17 PROJECT	<b>I-10: LA 415 to Essen Lane on I-10/I-12 (CMAR), E. Baton Rouge Parish, LA (H.004100)</b> <b>Project Engineer.</b> Kelsie has assisted in the preparation of various submittals for this project. She has assisted in the <b>typical section design</b> , plan, and profile preparation, required <b>right-of-way and roadway geometrics</b> for various sections and stages of this project, and is responsible for the graphical grading and superelevation design of multiple ramps throughout the corridor. She is responsible for documenting and tracking information, documents, and comments received from LADOTD and other consultants on the design team. Kelsie has performed quantity calculations and prepared quantity tables for various submittal stages.				
05/21 - 03/23	<b>LA 352 Drainage Improvement, St. Martin Parish, LA (H.014415)</b> <b>Project Engineer.</b> This project involves channel improvements and adding subsurface drainage systems to an outfall channel adjacent to LA 352. Kelsie is responsible for the typical sections, plan profiles, developing a suggested <b>sequence of construction</b> , diversion <b>road design</b> for maintenance of traffic, quantity computations, pay item list, and documentation of comments and responses.				



## 16. STAFF EXPERIENCE:

	Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)				
	Name	Thomas Grass, PE		Years of Relevant Experience with this Employer	5
	Title	Senior Project Engineer		Years of Relevant Experience with Other(s) Employers	10
	Degree(s)/Years/Specialization		BS/2007/Civil Engineering		
	Active Registration Number/State/Expiration Date		PE#25464/MS/2024		
	Year Registered	2014	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities			Road & Drainage		
<p>Thomas will serve on the <b>road and drainage team</b> and will work closely on the <b>detailed topographic surveys</b>, focusing on <b>stationing and cross-sectioning of roadways</b>. He will be responsible for identifying and documenting <b>drainage structures</b> and any <b>utilities that need adjustments</b> during construction. Thomas' work will support the preparation of the <b>preliminary and final plans</b>, ensuring compliance with <b>DOTD's standards</b>. Thomas joined Waggoner in 2018, bringing ten years of experience in project management, 2D and 3D roadway design, traffic signal design, and bridge design. His expertise also includes commercial and passenger railroad design, traffic impact studies, roadway safety audits, and traffic planning and modeling. These projects have ranged from small projects with short deadlines to long-running, multi-disciplinary projects.</p>					
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).				
04/19 - Ongoing	<b>Old Highway 80 Bridge Replacement, Meridian, Lauderdale County, MS</b> <b>Transportation Discipline Manager.</b> Thomas served as the transportation discipline manager for this project. Built in 1926, the existing US 80 Bridge over Okatibbee Creek in Lauderdale County needed to be replaced. The old bridge was taken down and replaced with a new bridge that met Mississippi Office of State Aid Road Construction bridge standards. The project included environmental studies and permitting, surveying, hydraulic and hydrological analysis, bridge and <b>roadway design</b> , geotechnical engineering, <b>utility coordination, and construction phase support services</b> . Additional right-of-way and construction easements were acquired. The bridge's age and historical importance qualified it for nomination to the National Register of Historic Places, so Waggoner collaborated with the Mississippi Department of Archives and History to install a historical marker near the new bridge.				
01/19 - 12/23	<b>Highland Commerce Drive, Ridgeland, Madison County, MS</b> <b>Transportation Discipline Manager.</b> Thomas served as the transportation discipline manager for this project. Waggoner performed the professional engineering services required for the development of Phase A (Field Review plans) including <b>utility relocation</b> phase services, for the Highland Commerce Drive project. The project consists of upgrading 1.5 miles of existing road and an additional 1.5 miles of newly built <b>roadway designed</b> to handle large trucks and encourage development.				
2/20 - Ongoing	<b>Reunion Parkway Phase 2, Madison County, MS</b> <b>Roadway Design, Subconsultant Management.</b> Thomas's lead roles were roadway design and subconsultant management. This <b>Phase A (Field Review plans) and Phase B (Final Construction plans)</b> project crossed I-55 approximately two miles north of exit 108 and connects with Bozeman Road on the western side and Parkway East on the eastern side. The Reunion Parkway Phase 2 roadway will extend approximately 1.2 miles, including a bridge over I-55, and will include four travel lanes and a multi-use path (bikes and pedestrians). Services provided included design phases services, preparation of maps and deeds, and coordination of underground <b>utility relocation</b> .				
08/16 - 1/24	<b>Riverside Drive Rehabilitation, Jackson, Hinds County, MS</b> <b>Lead Designer.</b> Thomas served as the transportation discipline manager for this project. The project includes design and construction engineering services consisting of rehabilitation and improvements to Riverside Drive. Proposed improvements include <b>geometric modifications</b> to improve the typical section, pavement structure, and incorporate storm drainage improvements, <b>utility relocation</b> , pedestrian/bicyclist amenities, existing and proposed landscape related features, Americans with Disabilities Act (ADA) compliance, roadway signage, and public transportation nodes.				

## 16. STAFF EXPERIENCE:


	Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)				
	Name		Charlotte Gremillion, PE	Years of Relevant Experience with this Employer	3
	Title		Project Engineer	Years of Relevant Experience with Other(s) Employers	2
	Degree(s)/Years/Specialization		BS/2018/Civil Engineering		
	Active Registration Number/State/Expiration Date		PE#47930/LA/09-30-2025		
	Year Registered	2023	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities			Road & Drainage		
Charlotte will be part of the <b>road and drainage</b> team. She will conduct <b>topographic surveys</b> and will emphasize <b>cross-sectioning roadways and ditches</b> at various interval levels. Charlotte will be responsible for measuring <b>guard rails, striping, and utilities</b> , ensuring this information is meticulously recorded for use in the <b>final design</b> . Her role will be crucial in ensuring that the <b>existing conditions are fully understood</b> and reflected in the project plans. Charlotte is experienced with transportation and commercial projects, including road design, geometric design, and on-site work. She is trained and experienced in AutoCAD, Civil 3D, MicroStation, and GlobalMapper, which she uses for plan preparation and design.					
Experience Dates (mm/yy-mm/yy)		Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
09/22 - Ongoing		<b>LA 1088: Soult and Trinity Roundabouts, St. Tammany Parish, LA (H.010116)</b> <b>Project Engineer.</b> This project includes replacing two intersections and the connecting two-lane urban arterial with roundabouts and a four-lane boulevard section. Charlotte responsibilities include <b>roadway geometrics, design reports</b> , technical calculations, and plan development. She designed all typical sections through the addition of two new roundabouts. She identified and assessed the <b>roadway design</b> constraints in the area when deciding the location of the two roundabouts and roadway approaches. She connected the existing conditions to the new designs so that access would not be limited.			
05/20 - Ongoing <div>SECTION 17 PROJECT</div>		<b>I-10: LA 415 to Essen Lane on I-10 and I-12, Baton Rouge, LA (H.004100)</b> <b>Lead Design Engineer.</b> This project is to replace the urban interstate through downtown Baton Rouge under an alternative delivery process. Charlotte serves as a technical design engineer for urban freeways, grade separation interchanges, urban arterials, urban collectors, and local streets. She is the lead design engineer for roundabouts at the Dalrymple Drive Exit Ramp and Terrance Street at Braddock Street intersection. She prepares <b>roadway design</b> calculations, executes technical reviews, and prepares <b>construction plans</b> for several stages, phases, and segments of the project. She also performs quantity calculations and prepares quantity tables for various submittal stages. She is responsible for plan and profile preparation, cross sections, and roadway geometrics for various sections and stages of the project.			
2021 - Ongoing		<b>Rural Bridge Replacement Initiative, LA</b> <b>Project Engineer.</b> Charlotte is in charge of managing a bridge replacement project included in this contract. This work includes assessing site conditions, deciding the structure type, and size based on the hydraulics of the channel, and <b>designing the roadway approaches</b> . She will be responsible for preparing the submittals for each of these bridges as well as submitting monthly progress reports.			
10/20 - Ongoing		<b>I-10/I-12 College Flyover, East Baton Rouge Parish, LA (H.013897)</b> <b>Technical Review Engineer.</b> This project includes <b>design upgrades</b> to a grade separation fully directional interchange of two interstates in Baton Rouge, LA. Charlotte serves as a technical review engineer for the owner verification team on the following design units: definitive design, clearing, and grubbing, roadway (multiple units), drainage, maintenance of traffic (multiple units), pavement marking and signing, SWPPP, and <b>TMP Level 4</b> . Her responsibilities include technical reviews of calculations and drawings for conformance to the minimum guidelines, project technical performance specifications, and contract documents. She manages all technical comments originating from her firm and take part in <b>technical review meetings</b> with the design-builder and owner.			

## 16. STAFF EXPERIENCE:


	Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)					
	Name		Steve Gilliam, PE		Years of Relevant Experience with this Employer	<1
	Title		Project Engineer		Years of Relevant Experience with Other(s) Employers	7
	Degree(s)/Years/Specialization			BS/2015/Civil Engineering		
	Active Registration Number/State/Expiration Date			PE#46515/LA/09-30-2024		
	Year Registered	2022	Discipline	Civil Engineering		
Contract Role(s)/Brief Description of Responsibilities		Road & Drainage				
As part of the <b>road and drainage</b> team, Steven will focus on the <b>topographic surveys</b> , particularly on the <b>stationing of the project centerline and measuring cross-sections</b> of the roadway. He will ensure that <b>drainage structures</b> , utilities, and other key features are accurately recorded and integrated into the <b>final plans</b> . Steve's attention to detail will ensure that the project designs align with the <b>DOTD's requirements</b> and reflect the existing site conditions. Steven brings a solid understanding of roadway and site planning design principles, as well as experience with surface water and utility engineering. He has provided engineering design for commercial and residential developments.						
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).					
03/22 - Ongoing	<b>Nail Road Extension - Polk Lane to Center Hill Road, DeSoto County, MS</b> <b>Review Engineer.</b> This project encompasses <b>preliminary engineering design</b> and bid documents for two miles of a new two-lane rural roadway, three-lanes at Polk and Center Hill for turn lanes, and five-lane earthwork on Nail Road from Polk Lane to Center Hill road.					
02/23 - Ongoing	<b>Enterprise Boulevard Extension, Lake Charles, County, LA</b> <b>Design Engineer.</b> Waggoner was retained by the City of Lake Charles to perform engineering, <b>surveying</b> , bidding assistance, and <b>construction administration</b> . The project consists of extending the existing four-lane boulevard section of Enterprise Boulevard northward on a new alignment from its current intersection at Katherine Street to an intersection on N. Goos Boulevard near Woodring Street, widening N. Goos Boulevard northward to its intersection with Fitzenreiter Road, and widening Fitzenreiter Road eastward to its intersection with N. Simmons Street. The project also includes the addition of a bike path to the Riverside Park Complex consistent with the City of Lake Charles Bicycle and Pedestrian Master Plan.					
04/21 - 08/23	<b>MoveBR Sherwood Forest Extension, Baton Rouge, LA</b> <b>Lead Designer.</b> Steven's role included civil design, site grading, <b>drainage design, and utility coordination</b> . The project included a new two-lane highway, intersections, and wetland mitigation. (previous experience)					
01/19 - 02/20	<b>Eagle Bend Subdivision, Livingston Parish, LA</b> <b>Lead Designer.</b> For this 34-lot development, Steven's role included civil design, site grading, <b>drainage design, and utility coordination</b> for the subdivision. The project included a re-route of a minor drainage artery, required detention basin, and assuring streets and parking met Parish standards. (previous experience)					
01/21 - 12/21	<b>Live Oak High School Baseball/Softball Complex, Walker, LA</b> <b>Lead Designer.</b> Steven's role included civil design, site plan development, site grading, <b>drainage design, and utility coordination</b> for the new sports fields and support buildings for a new sports facility at the Live Oak High School campus. In coordination with architects Gasaway Gasaway & Bankston, the project included vehicular and pedestrian circulation improvements, with two new synthetic turf fields, bleacher seating, and a concession/restroom building. (previous experience)					
10/20 - 09/21	<b>Ascension Parish Courthouse, Gonzales, LA</b> <b>Lead Designer.</b> Steven's role included civil design, site plan development, site grading, <b>drainage design, and utility coordination</b> , as well as construction administration for the facility. In coordination with Grace Hebert Architects, the project included vehicular and pedestrian circulation improvements, re-routing of a major drainage artery, expansion of an existing detention basin, as well as new culverts under E. Worthy St., which provided drainage relief to upstream neighborhoods, solving a regional drainage problem. (previous experience)					




## 16. STAFF EXPERIENCE:

	Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)				
	Name	Brandon Bollich, EI		Years of Relevant Experience with this Employer	3
	Title	Engineer Intern		Years of Relevant Experience with Other(s) Employers	4
	Degree(s)/Years/Specialization		BS/2015/Civil Engineering		
	Active Registration Number/State/Expiration Date		EI#32749/LA/Civil Engineering		
	Year Registered	2015	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities			SUE Services		
<p>As part of the <b>SUE services</b> team, Brandon will be responsible for conducting <b>subsurface utility engineering (SUE) investigations</b> to accurately locate and document existing underground utilities. His role includes <b>geophysical methods</b> to identify the position and depths of utilities, and <b>collecting data</b> on utility types, materials, and conditions. Brandon will also collaborate closely with the design team to ensure that the SUE findings are integrated into project plans, helping prevent potential conflicts during construction and ensuring the project's adherence to <b>DOTD standards</b>. Additionally, he will assist in preparing detailed reports and <b>utility adjustment plans</b> as required. Brandon is a certified engineer intern focused on bridge and structural design. Brandon previously worked as an engineer intern at the LADOTD and was the task manager of several bridge replacement projects across the state. His duties as task manager for those projects included coordinating project meetings, tracking project statuses, generating divisional requests, projecting costs, performing alignment studies, conducting site visits, generating bridge plans, and designing bridge elements in accordance with design specifications. Brandon also worked as an engineer intern for Forte and Tablada, where he was involved in the inspection and load rating of complex and simple bridges.</p>					
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 - Ongoing <b>SECTION 17 PROJECT</b>	<b>Hooper Road Widening (LA 408), East Baton Rouge Parish, LA</b> <b>Engineer Intern.</b> Brandon provided bridge and structural design services for this project. This project was for the widening of an existing two-lane roadway to a four-lane boulevard to increase capacity. The project began with an Environmental Assessment (EA) and National Environmental Policy Act (NEPA) environmental documentation. Waggoner is facilitating the development of a <b>traffic study</b> with a subconsultant, following criteria established by LADOTD. Multiple roadway sections and intersection arrangements are being evaluated through a tiered approach. <b>This project included both pavement preservation and capacity functional classifications.</b>				
10/20 - Ongoing	<b>Rural Bridge Replacement Initiative Phase II, South LA</b> <b>Engineer Intern.</b> Brandon manages four of 16 state projects for this contract, including six bridge replacements throughout south Louisiana. This work involves <b>assessing site conditions</b> , evaluating structure types, and <b>designing the roadway</b> approaches. He will prepare the submittals for these projects and submit monthly reports as work progresses.				
02/16 - 09/19	<b>Pecue Lane/I-10 Interchange, East Baton Rouge Parish, LA</b> <b>Engineer Intern.</b> Brandon served as engineer intern for the project that included the replacement of two slab span bridges over Ward's Creek along Pecue Lane. Brandon was responsible for providing <b>quality control</b> by reviewing and verifying plan sheets, checking reinforcement quantities, and ensuring calculations were correctly incorporated into the plans.				
2016 - 2018	<b>Bridge Replacements, LADOTD, Statewide, LA</b> <b>Task Manager.</b> Brandon served as task manager of four state bridge replacement projects consisting of eight bridges at seven locations. His responsibilities included coordinating project meetings, tracking project statuses, generating divisional requests, and projecting costs. He performed several alignment studies for the bridge replacement projects and conducted site visits while analyzing relevant bridge and local conditions. Brandon created bridge plans (including general notes, general plans, superstructures, and substructures) in addition to designing bridge elements in accordance with <b>AASHTO LRFD specifications</b> and the LADOTD Bridge Design and Evaluation Manual.				

## 16. STAFF EXPERIENCE:


	Firm Employed By: Adaptive Management and Engineering, LLC				
	Name		Venu Tammineni, PE	Years of Relevant Experience with this Employer	5
	Title		President/Principal	Years of Relevant Experience with Other(s) Employers	14
	Degree(s)/Years/Specialization		MCE/2005/Geotechnical Engineering		
	Active Registration Number/State/Expiration Date		PE#36864/LA/9-30-2024		
	Year Registered	2012	Discipline	Civil Engineering/Geotechnical	
Contract Role(s)/Brief Description of Responsibilities		Discipline Lead - Geotechnical			
As the <b>geotechnical lead</b> , Venu will oversee all aspects of the geotechnical efforts for this project, ensuring that the work aligns with the <b>DOTD standards</b> and project requirements. He will lead the planning and execution of <b>subsurface investigations</b> , including <b>soil borings</b> and <b>in-situ testing</b> . His role will involve analyzing geotechnical data to assess site conditions, providing detailed recommendations for <b>foundation design, pavement structure, and earthwork</b> . Venu will also coordinate with other team members to integrate geotechnical findings into the overall project design, ensuring that all geotechnical aspects are addresses from concept through construction. Additionally, Venu will direct and provide technical guidance to geotechnical investigation, laboratory work, and geotechnical engineering design.					
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
1/20 - 12/21	<b>City of East Baton Rouge and Parish of East Baton Rouge, City-Parish Project#20-CP-HC-0004, Baton Rouge, LA</b> Venu provided pavement design recommendations for the proposed pavement expansion for the Highland Road at Siegen Lane/ Burbank Drive intersection. As a consultant to Fourrier & de Abreu Engineers, LLC (FDAE), Venu coordinated all aspects of the project including, but not limited preparation of the proposal for the project, discussion with the design team, obtaining DOTD permit, executing field exploration program, assigning laboratory tests, performing pavement analyses, and preparing the geotechnical report that has been reviewed and accepted by the design team.				
3/22 - 4/22	<b>City of Patterson, Patterson 2022 Street Improvements, St. Mary Parish, LA</b> Venu provided pavement design recommendations for the proposed <b>pavement improvements</b> for various streets throughout the City of Patterson. Venu coordinated all aspects of the project including, but not limited preparation of the proposal for the project, discussion with the design team, assigning laboratory tests, laboratory testing QA/QC, performing pavement analyses, and preparing the <b>geotechnical report</b> .				
1/18 - 2/18	<b>City of Youngsville, Chemin Metairie Parkway and Détente Road Roundabout, Youngsville, LA</b> The City of Youngsville planned to construct a roundabout at the existing intersection of Chemin-Metairie Parkway and Détente Road. The roundabout will have a larger footprint than the intersection and will require installation of additional fill to match grades. Planned and executed field exploration and provided recommendations for <b>rigid and flexible pavements</b> for the project. (Experience with previous employer)				
6/16 - 9/16	<b>Causeway Boulevard - Earhart Expressway Interchange, New Orleans, LA</b> Coordinated the drilling activities for limited <b>soil borings</b> for the project. Three-inch diameter <b>soil samples</b> were obtained using a thin-walled tube and piston sampler. Soil stratigraphy was highly variable and layered and required close monitoring of the drilling crews to obtain <b>quality soil</b> samples. (Experience with previous employer)				
11/14 - 2/15	<b>St. Landry Parish Smooth Ride Home - Phases II-A and II-B, St. Landry Parish, LA</b> Project included improving the condition of several roadways throughout the parish. Coordinated the field investigation and provided recommendations for the <b>roadway improvements</b> including soil-lime and soil-cement stabilization. (Experience with previous employer)				
04/11 - 06/11	<b>Phase II Apron Pavement Improvements, Lafayette Regional Airport, Lafayette, LA</b> Project involved replacing the existing <b>asphalt pavement</b> apron with a new asphalt or concrete pavement apron to accommodate airplanes. Recommendations for CBR and modulus of subgrade reaction for design were provided. (Experience with previous employer)				

## 16. STAFF EXPERIENCE:


	Firm Employed By: Adaptive Management and Engineering, LLC				
	Name	Gregory Mattson, II, PE		Years of Relevant Experience with this Employer	3
	Title	Project Lead Engineer		Years of Relevant Experience with Other(s) Employers	8
	Degree(s)/Years/Specialization		MS Civil & Environmental Engineering/2014/Geotechnical Engineering		
	Active Registration Number/State/Expiration Date		PE#42387/LA/9-30-2024   Traffic Control Technician/LA/9-8-2027   Flagger/LA/10-20-2027		
	Year Registered	2018	Discipline	Civil Engineering/Geotechnical	
Contract Role(s)/Brief Description of Responsibilities		Geotechnical			
As part of the geotechnical team, Gregory will conduct <b>geotechnical field investigations</b> , including overseeing the drilling of <b>soil borings</b> and collecting samples. He will preform <b>laboratory test</b> to determine soil properties, contributing to the analysis of subgrade conditions. His focus will be providing accurate data for the design of <b>pavement structures</b> and ensuring the stability of the projects infrastructure. Additionally, Gregory will provide field assistance as needed, provide laboratory data QA/QC, and conduct the engineering analyses and reporting.					
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).				
03/22 - 04/22 SECTION 17 PROJECT	<b>City of Patterson, Patterson 2022 Street Improvements, St. Mary Parish, LA</b> Gregory assisted with pavement design recommendations, provided laboratory testing QA/QC, and technical review for the <b>geotechnical report</b> .				
01/22 - 03/22	<b>1,4Group, Inc Proposed Warehouse and Plant Facility, Ascension Parish, LA</b> This project involved supporting pavement infrastructure for heavily loaded vehicles to access a proposed warehouse facility. Gregory was the on-site field engineer for the boring conducted as part of the field exploration. Additionally, provided QA/QC for laboratory testing and <b>boring logs</b> , generated project figures, assisted with rigid and flexible pavement analyses, and drafted the <b>geotechnical report</b> .				
01/20 - 02/20	<b>McKim and Creed, PWS Trinity Derby Brine Pipeline, Frio County, TX</b> McKim and Creed is moving forward designing a brine transportation pipeline that includes trenchless crossings of roads, rivers, and railroad tracks. This phase of the project includes two HDD crossings, one at the Frio River and the other at Interstate 35 and a railroad. The field exploration program included the <b>geotechnical</b> drilling and sampling of two 50-foot <b>soil borings</b> . Gregory coordinated with the client's project manager and developed the proposal; provided laboratory data QA/QC; assisted with HDD recommendations; and assembled the GDR. (Experience with previous employer)				
04/19 - 06/19	<b>Jack and Bore for Dredge Material Pipeline, Cameron Parish, LA</b> The project involved a proposed Jack and Bore location for a dredge material pipeline road crossing in Cameron, LA. Gregory provided laboratory QA/QC, conducted <b>geotechnical</b> analyses, and drafted the report. (Experience with previous employer)				




## 16. STAFF EXPERIENCE:

	Firm Employed By: Adaptive Management and Engineering, LLC				
	Name	Ryan Williamson, PE		Years of Relevant Experience with this Employer	3
	Title	Project Engineer/Field Engineer		Years of Relevant Experience with Other(s) Employers	3
	Degree(s)/Years/Specialization		BS Civil Engineering/2017/Geotechnical Engineering		
	Active Registration Number/State/Expiration Date		PE#48866/LA/9-30-2024   Traffic Control Supervisor/LA/9-8-2027   Flagger/LA/10-20-2027		
	Year Registered	2024	Discipline	Civil Engineering/Geotechnical	
Contract Role(s)/Brief Description of Responsibilities			Geotechnical		
<p>Ryan will serve on the geotechnical team and will focus on <b>site assessments</b> and <b>soil sampling</b>, ensuring that all geotechnical data is accurately recorded and analyzed. He will work closely with the laboratory team to perform <b>material testing</b> and evaluate soil characteristics. Ryan's contributions will be essential in developing <b>foundation recommendations</b> and assessing the impact of subsurface conditions on the project. Additionally, Ryan will coordinate, oversee, and log soil samples during field explorations. He will assist with boring logs, CPT logs, laboratory data QA/QC, drafting figures, analyses, and reporting.</p>					
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).			
03/22 - 04/22 SECTION 17 PROJECT		<b>City of Patterson, Patterson 2022 Street Improvements, St. Mary Parish, LA</b> <b>Field Engineer.</b> Ryan acted as the field engineer for the project, collecting and logging high quality soil samples while overseeing field exploration. He provided laboratory testing QA/QC, generated <b>boring logs</b> , report figures, ran pavement analyses, and prepared the <b>geotechnical report</b> .			
01/22 - 03/22		<b>1,4Group, Inc Proposed Warehouse and Plant Facility, Ascension Parish, LA</b> This project involved supporting pavement infrastructure for heavily loaded vehicles to access a proposed warehouse facility. Ryan assisted with the CPT portion of the field exploration, provided QA/QC for <b>laboratory testing and boring logs</b> , generated project figures, assisted with rigid and flexible pavement analyses, and drafted the <b>geotechnical report</b> .			
04/19 - 06/19		<b>Jack and Bore for Dredge Material Pipeline, Cameron Parish, LA</b> The project involved a proposed Jack and Bore location for a dredge material pipeline road crossing in Cameron, LA. Ryan assisted with laboratory testing and <b>boring log</b> QA/QC, geotechnical analyses, and report text and figures. (Experience with previous employer)			
01/18 - 02/18		<b>City of Youngsville, Chemin Metairie Parkway and Détente Road Roundabout, Youngsville, LA</b> The City of Youngsville planned to construct a roundabout at the existing intersection of Chemin-Metairie Parkway and Détente Road. The roundabout will have a larger footprint than the intersection and will require installation of additional fill to match grades. Ryan <b>collected and logged soil samples</b> while overseeing drilling. He assisted with analyses to provide recommendations for rigid and flexible pavements for the project. (Experience with previous employer)			

## 16. STAFF EXPERIENCE:


	Firm Employed By: Adaptive Management and Engineering, LLC					
	Name		Michael McKinney		Years of Relevant Experience with this Employer	4
	Title		Operations Manager/Driller		Years of Relevant Experience with Other(s) Employers	20
	Degree(s)/Years/Specialization			N/A		
	Active Registration Number/State/Expiration Date			Traffic Control Supervisor/LA/9-8-2027   Flagger/LA/10-20-2027		
	Year Registered	2012	Discipline	Geotechnical Field Services		
Contract Role(s)/Brief Description of Responsibilities		Geotechnical				
As part of the <b>geotechnical</b> team, Michael will be responsible for <b>conducting field explorations</b> and <b>laboratory testing</b> to evaluate the properties of the soil. His role will include interpreting test results and preparing detailed reports that support the design of <b>pavement systems</b> and other structural elements. His work will help ensure the project's geotechnical integrity. Michael is a Water Well Contractor who will drill, and/or coordinate all field exploration. He also serves as a safety manager and Traffic Control Supervisor.						
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).					
03/22 - 04/22 <div>SECTION 17 PROJECT</div>	<b>City of Patterson, Patterson 2022 Street Improvements, St. Mary Parish, LA</b> Michael coordinated drilling and all field exploration services for the project. He oversaw the completion of 8 roadway <b>soil borings</b> and assisted with lab testing for the project.					
01/20 - 12/21	<b>City of East Baton Rouge and Parish of East Baton Rouge, City-Parish Project NO. 20-CP-HC-0004, Baton Rouge, LA</b> Michael coordinated and oversaw the field exploration for the project. Temporary lane closures had to be made for the completion of <b>soil borings</b> in the roadway. All field exploration was completed per MoveBR standards.					
06/16 - 09/16	<b>Lake Charles, LA Pavement Improvement, Calcasieu Parish, LA</b> <b>Senior Driller.</b> Michael served as the senior driller for multiple parish highways and roads. He coordinated drill rig and other equipment mobilization, drilled, and sampled various highways and pavement types throughout Calcasieu Parish. Michael oversaw the coring and measurement of asphalt, concrete, and base material. After knowing the pavement and base course dimensions, he completed drilling and <b>soil sampling</b> those locations, patching the road back after completion as <b>per LADOTD requirements</b> . All field explorations were completed in accordance with LADOTD standards. (Experience with previous employer)					
11/16 - 12/16	<b>I-49 future Corridor Overpass Expansion Project DOTD, New Iberia Parish, LA</b> <b>Senior Driller.</b> Michael worked as senior driller for the geotechnical investigation for the I-49 expansion and overpass. Michael completed <b>geotechnical</b> sampling for deep foundations and overpass construction. All field explorations were completed in accordance with LADOTD standards. (Experience with previous employer)					
04/14 - 05/14	<b>Highway 10 Bridge for DOTD, St. Francisville, LA</b> <b>Senior Driller.</b> Michael served as senior driller for a bridge replacement site. Michael assisted with the mobilization, drilling, and soil sampling for four 100' <b>soil borings</b> . He oversaw the coring and measurement of asphalt, concrete, and base material. After pavement and base course dimensions were selected, he completed drilling and soil sampling those locations, patching the road back after completion as <b>per LADOTD requirements</b> . All field explorations were completed in accordance with LADOTD standards. (Experience with previous employer)					
08/12 - 11/12	<b>Gonzales, LA Pavement Improvement DOTD, Ascension Parish, LA</b> <b>Senior Driller.</b> Michael served as senior driller for multiple parish highways and roads. Michael assisted with the mobilization, drilling, and <b>soil sampling</b> for various highways and pavement types throughout Ascension Parish. He oversaw the coring and measurement of asphalt, concrete, and base material. After the pavement and base course dimensions were selected, he completed drilling and <b>soil sampling</b> those locations, patching the road back after completion as <b>per LADOTD requirements</b> . All field explorations were completed in accordance with LADOTD standards. (Experience with previous employer)					

## 16. STAFF EXPERIENCE:

	Firm Employed By: Adaptive Management and Engineering, LLC				
	Name	Justin Ator, CET		Years of Relevant Experience with this Employer	3
	Title	Geotechnical Laboratory Manager/Senior Technician		Years of Relevant Experience with Other(s) Employers	13
	Degree(s)/Years/Specialization		N/A		
	Active Registration Number/State/Expiration Date		CET 139594/LA/2-1-2027		
	Year Registered	2012	Discipline	Geotechnical Laboratory Testing	
Contract Role(s)/Brief Description of Responsibilities			Geotechnical		
<p>As part of the <b>geotechnical team</b>, Justin will engage in <b>laboratory geotechnical work</b>, focusing on the <b>characterization of subsurface materials</b>. He will be involved in <b>sampling, testing, and analyzing soil and rock properties</b>, with a particular emphasis on identifying potential geotechnical challenges. Justin's findings will play a vital role in shaping the project's design, specifically in areas where <b>soil stability</b> and <b>foundation support</b> are crucial. Justin will oversee all laboratory testing and will perform specialized laboratory testing. He will provide data entry for lab testing, produce boring logs, and will QA/QC all test results.</p>					
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).				
03/24 - Ongoing	<b>LA 561 Bridge Replacement over Boeuf River (H.001970)</b> Justin provided <b>geotechnical</b> laboratory testing and oversight for the project. He performed the consolidation testing and generated <b>boring logs</b> .				
08/23 - 09/23	<b>Savanne Road over Hanson Canal</b> Justin provided <b>geotechnical</b> laboratory testing and oversight for the project. He generated <b>boring logs</b> and performed QA/QC on all testing performed.				
09/23 - 10/23	<b>LA 1 Port Allen Canal</b> Justin provided <b>geotechnical</b> laboratory testing and oversight for the project. He generated <b>boring logs</b> and performed QA/QC on all testing performed.				
05/23 - 07/23	<b>LA 394 &amp; LA 110 Creek Bridges</b> Justin managed subconsultant laboratory testing of 72 <b>soil samples</b> for USCS classification, moisture content, density, Atterberg limits, and unconfined compressive strength.				
03/22 - 04/22	<b>City of Patterson, Patterson 2022 Street Improvements, St. Mary Parish, LA</b> Justin provided <b>geotechnical</b> laboratory testing and oversight for the project. He generated <b>boring logs</b> and performed QA/QC on all testing performed.				
SECTION 17 PROJECT					
01/22 - 03/22	<b>1,4Group, Inc Proposed Warehouse and Plant Facility, Ascension Parish, LA</b> Justin performed <b>geotechnical</b> laboratory testing and QA/QC for 8 soil borings and 15 CPTs. The project involved rigid and flexible pavement design for a proposed warehouse facility.				
6/18 - 8/18	<b>Bayou Long Pump Station, Atchafalaya Basin, LA</b> Justin performed field investigation, <b>transported soil samples</b> to the laboratory, completed extrusions and performed moisture content, density, Atterberg limits, fines content, hydrometer analysis, and unconsolidated-undrained triaxial shear strength on samples assigned by the project engineer.				




## 16. STAFF EXPERIENCE:

	Firm Employed By: NTB Associates, Inc.					
	Name		Patrick Staiano, PLS		Years of Relevant Experience with this Employer	4
	Title		Staff Surveyor		Years of Relevant Experience with Other(s) Employers	10
	Degree(s)/Years/Specialization			BS/2008/Construction Management		
	Active Registration Number/State/Expiration Date			PLS#5130/LA/09-30-2025		
	Year Registered	2015	Discipline	Surveying Services		
Contract Role(s)/Brief Description of Responsibilities			Discipline Lead - Topographic Survey   Discipline Lead - Property Survey/ROW Mapping   <b>Meets MPR 4</b>			
Patrick will serve as the <b>discipline lead</b> for both the <b>topographic survey</b> team and the <b>property survey/ROW mapping</b> team. He will direct all survey activities, ensuring that the work meets <b>DOTD standards</b> and project specifications. He will oversee the collection of <b>topographic data, stationing project centerlines, and performing property boundary surveys</b> . Patrick will also manage the preparation of <b>right-of-way (ROW) maps</b> and ensure that all survey data is accurately integrated into the project's <b>design plans</b> . He will coordinate with both the survey teams and other projects teams to ensure seamless integration of survey data into the overall project development. Patrick will serve as NTBA Project Manager for property surveying services, right-of-way mapping, and title takeoffs during this contract. He will manage field crews, data processing, drafting, review and certification of maps and surveys, and submittals.						
Experience Dates (mm/yy-mm/yy)		Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
01/22 - 06/24 <div>SECTION 17 PROJECT</div>		<b>LADOTD Jimmie Davis Bridge (LA 511) Design-Build, Bossier &amp; Caddo Parishes, LA (H.001779)</b> <b>Assistant Project Manager</b> assisting in the management of field crews and technicians for Static GPS control surveys, <b>topographic surveys, property surveys, title takeoffs, legal description preparation, and preliminary and final right-of-way mapping</b> for the design-build project to replace the Jimmy Davis Bridge across the Red River as a subconsultant to James Construction.				
07/23 - 06/24		<b>LADOTD IJJA Off-System Bridge Program, District 62 (4400025041)</b> <b>Project Manager</b> managing field crews and technicians for Static GPS control surveys, <b>topographic surveys, property surveys, title takeoffs, legal description preparation, and preliminary and final right-of-way mapping</b> in support of bridge replacements.				
09/22 - 06/24		<b>LADOTD Rural Bridge Replacement Initiative Phase II, Districts 05, 08, &amp; 58 (4400019337)</b> <b>Assistant Project Manager</b> assisting in the management of field crews and technicians for Static GPS control surveys, <b>topographic surveys, property surveys, surveys in support of QL C &amp; D subsurface utility services, title takeoffs, legal description preparations, and preliminary and final right-of-way mapping</b> for 34 bridge and culvert replacements including surveying all sub-surface drainage structures as a subconsultant to BKL.				
09/22 - 06/24		<b>LADOTD Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, &amp; 62 (4400019338)</b> <b>Assistant Project Manager</b> assisting in the management of field crews and technicians for Static GPS control surveys, <b>topographic surveys, property surveys, title takeoffs, legal description preparations, and preliminary and final right-of-way mapping</b> for 21 bridge and culvert replacements including surveying all sub-surface drainage structures as a subconsultant to Waggoner (formerly Sigma).				
09/22 - 06/24		<b>CenterPoint Surveying Services, Various Parishes, LA (Various Agency Proj. Nos.)</b> <b>Assistant Project Manager</b> assisting in the management of field crews and technicians for <b>topographic surveys, property surveying services, title research, title takeoffs, boundary and right-of-way calculations</b> , and reviews of CADD drawings and plats for maintenance and construction projects.				
09/22 - 06/24 03/18 - 02/21		<b>Apache Corporation, Infrastructure Improvements, Permian Basin, Reeves Counties, TX (Agency Proj. Nos. Unknown)</b> <b>Project Manager</b> managing <b>property surveying services and right-of-way acquisition mapping</b> for approximately 84 miles of infrastructure improvements. Patrick has prepared approximately 131 <b>property acquisition plats</b> for this project.				

## Patrick Staiano resume continued


09/22 - 06/24 03/18 - 02/21	<b>Targa Pipeline, Natural Gas Gathering System, Howard and Martin Counties, TX (Agency Proj. Nos. Unknown)</b> <b>Quality Control Surveyor</b> reviewing drafting and <b>property acquisition plats</b> as well as assisting with management of property surveying services. Patrick has prepared approximately 250 <b>property acquisition plats</b> for this project.
03/21 - 08/22	<b>MOVEBR Jefferson Highway at Bluebonnet Intersection Improvements, LA (City Parish No. 20-CP-HC-0046)</b> <b>Project Manager</b> managed field crews and technicians for <b>topographic surveys, property surveys, and right-of-way mapping</b> .
03/20 - 02/21	<b>UPRR Big Sandy Siding Survey, Upshur and Wood Counties, TX (29543/90502)</b> <b>Assistant Project Manager</b> performed <b>property surveying services</b> for 15 parcels along railroad consisting of approximately 3.24 miles of track to establish the existing railroad <b>right-of-way</b> . Prepared 8 ALTA Surveys along with the privately owned <b>parcels for acquisition</b> , 0.25 acre <b>acquisition parcel in the right-of-way</b> , and an overall <b>right-of-way strip map</b> .
09/19 - 02/20	<b>DCP Midstream, MaBee Ranch Line Locates, Martin and Andrews Counties, TX (19-056-001)</b> <b>Project Manager</b> managed <b>property surveying services</b> in support of <b>property acquisition services</b> for 32 individual pipelines totaling approximately 22 miles.
03/18 - 10/18	<b>Rogillio Resubdivision, East Baton Rouge &amp; East Feliciana Parishes, LA (Agency Proj. No. Unknown)</b> <b>Assistant Project Manager</b> performed <b>title takeoffs, boundary, and right-of-way calculations</b> , and reviewing CADD drawings and plats for resubdivision services for 93 acres.
04/17 - 03/18	<b>LADOTD LA 653 Bayou Dumar Bridge Replacement, Lafourche Parish, LA (H.008118)</b> Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick <b>performed property surveys, prepared title work info, and right-of-way maps</b> for a +/-0.5-mile project.
01/17 - 03/18	<b>LADOTD LA 450 Stoney Point Bridge Replacement, Washington Parish, LA (Proj. No. Unknown)</b> Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed <b>property surveys and prepared title work info and right-of-way maps</b> for a +/-0.25-mile project.
09/17 - 01/18	<b>LADOTD LA 1026: Roundabout at Buddy Ellis Rd., Livingston Parish, LA (H.011824)</b> Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed <b>property surveys, prepared title work info, and right-of-way maps</b> for a +/-0.3-mile project.
10/17 - 12/17	<b>LADOTD US 190B Jefferson Ave. Roundabout Covington, St. Tammany Parish, LA (H.011260)</b> Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed <b>property surveys, prepared title work info, and right-of-way maps</b> for a +/-0.1-mile project.
06/17 - 10/17	<b>LADOTD LA 22: Near I-10 Geometric Improvements, Ascension Parish, LA (H.011314)</b> Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick <b>property surveys, prepared title work info, and right-of-way maps</b> for a +/-0.75-mile project.
05/17 - 09/17	<b>LADOTD LA 59: Roundabout at Lonesome Rd., Tangipahoa Parish, LA (H.011030)</b> Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed <b>property surveys, prepared title work info, and right-of-way maps</b> for a +/-0.5-mile project.
03/16 - 08/17	<b>LADOTD LA 59: Curve Realign and Tunnel at Trace, St. Tammany Parish, LA (H.010184)</b> Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed <b>property surveys, prepared title work info, and right-of-way maps</b> for a +/-0.75-mile project.
03/17 - 07/17	<b>LADOTD LA 1042: Bridges Near Greensburg, St. Helena Parish, LA (H.008312)</b> Under the supervision of Robert H. Brooks, III, PLS and Max O. Usrey, III, PLS, Patrick performed <b>property surveys, prepared title work info, and right-of-way maps</b> for a +/- 2-mile project.

## 16. STAFF EXPERIENCE:

	Firm Employed By: Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)				
	Name		Jace Ricard, PLS	Years of Relevant Experience with this Employer	1
	Title		Land Surveyor	Years of Relevant Experience with Other(s) Employers	10
	Degree(s)/Years/Specialization		BS/2014/Geomatics		
	Active Registration Number/State/Expiration Date		PLS#5205/LA/Surveying		
	Year Registered	2019	Discipline	Surveying	
Contract Role(s)/Brief Description of Responsibilities			Topographic Survey   Property Survey/ROW Mapping		
Jace will be part of both the <b>topographic survey</b> and <b>property/ROW mapping</b> teams. He will <b>conduct field measurements, stationing project centerlines</b> , and gathering data on <b>drainage structures and roadway cross-sections</b> . He will support the preparation of right-of-way maps and help ensure that all data collected meets <b>DOTD's quality standards</b> . Additionally, he will collaborate with the design team to integrate survey findings into the project plans. Jace joined Waggoner in 2023 as Survey Department Manager. He has over 10 years of diverse surveying experience with Louisiana firms. Before joining Waggoner, Jace was Survey Project Manager at Forte and Tablada, Inc., overseeing stormwater management and road/highway development projects. Two of Ricard's recent large-scale data collection projects, the Louisiana Watershed Initiative and the East Baton Rouge Stormwater Master Plan, resulted in hundreds of miles of accurate hydraulic models.					
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 - Ongoing SECTION 17 PROJECT		<b>Hooper Road Widening (LA 408) Blackwater-Joor, East Baton Rouge Parish, LA</b> <b>Land Surveyor.</b> Jace served as the land surveyor of record for the property survey and right-of-way maps for this MOVEBR project, which included widening Hooper Road between Blackwater Road and Joor Road from an existing two-lane roadway to a four-lane boulevard with sidewalks. A total of 86 parcels were included in the right-of-way maps. Jace was responsible for performing the property survey and preparation of the property map, acquisition right-of-way maps, and recordation right-of-way maps in accordance with LADOTD standards. <b>This project included both pavement preservation and capacity functional classifications.</b>			
06/23 - Ongoing		<b>Jones Creek Road Improvements Phases 1A &amp; 1B, East Baton Rouge Parish, LA</b> <b>Land Surveyor.</b> Jace is the land surveyor of record for <b>topographic survey</b> updates and <b>right-of-way map</b> revisions for this MOVEBR project, which includes extending Jones Creek Road on a new alignment from Tiger Bend Road to Airline Highway. Jace prepared recordation and acquisition set <b>right-of-way map</b> revisions.			
02/24 - Ongoing		<b>BREC Scotlandville Parkway Bridge Replacements, East Baton Rouge Parish, LA</b> <b>Surveyor.</b> Jace is the surveyor of record for this project, which includes performing <b>topographic surveys</b> at five sites along the Scotlandville Parkway. These surveys serve as the basis for designing new pedestrian and small vehicle bridges and channel protections along the parkway.			
06/23 - Ongoing SECTION 17 PROJECT		<b>Carrol Avenue over Middle Colyell Creek, Livingston Parish, LA</b> <b>Surveyor.</b> Jace is the surveyor of record for the topographic and property surveys and right-of-way maps for this LADOTD bridge replacement project. He was responsible for establishing local horizontal and vertical control, collecting all roadway, bridge, drainage, utility, and miscellaneous features <b>topography, generating a survey map and digital terrain model</b> , and establishing the existing centerline. He is also responsible for preparing the existing property map and proposed <b>right-of-way maps</b> .			
02/24 - Ongoing		<b>Ardenwood-Lobdell Connector, East Baton Rouge Parish, LA</b> <b>Surveyor.</b> Jace is the surveyor of record for the property <b>survey and right-of-way maps</b> for this MOVEBR project. He is responsible for recovering existing property corners, establishing existing property locations, and preparing the <b>right-of-way</b> acquisition and recordation maps. All work is being performed in accordance with MOVEBR guidelines.			




## 16. STAFF EXPERIENCE:

	Firm Employed By: NTB Associates, Inc.					
	Name		Paul Rossini, PLS		Years of Relevant Experience with this Employer	37
	Title		CEO/Principal		Years of Relevant Experience with Other(s) Employers	7
	Degree(s)/Years/Specialization			High School Diploma, 1980		
	Active Registration Number/State/Expiration Date			PLS#4731/LA/09-30-2024		
	Year Registered	1994	Discipline	Professional Surveyor		
Contract Role(s)/Brief Description of Responsibilities			Topographic Survey   Property Survey/ROW Mapping			
Paul will assist in both the topographic and property surveys by conducting <b>field measurements, stationing project centerlines</b> , and gathering data on <b>drainage structures</b> and roadway cross-sections. They will support the preparation of <b>right-of-way maps</b> and help ensure that all data collected meets <b>DOTD's quality standards</b> . Additionally, he will collaborate with the design team to integrate survey findings into the project plans.						
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).					
01/22 - 06/24 SECTION 17 PROJECT	<b>LADOTD Jimmie Davis Bridge (LA 511) Design-Build, Bossier &amp; Caddo Parishes, LA (H.001779)</b> <b>Principal-in-Charge</b> of contract administration, fee negotiations, scope of work, staffing, coordination, and QA/QC for Static GPS Control surveys, <b>topographic surveys</b> , property surveys, title takeoffs, legal description preparation, preliminary and final <b>right-of-way mapping</b> , QL A, B, C, & D utility designating/locating, and <b>utility coordination</b> services for the design-build project to replace the Jimmy Davis Bridge across the Red River.					
09/20 - 06/24	<b>CenterPoint Surveying Services, Various Parishes, LA (Various Agency Proj. Nos.)</b> <b>Principal-in-Charge.</b> Paul served as the principal-in-charge of contract administration, fee negotiations, scope of work, staffing, coordination, and QA/QC for <b>topographic surveys, property surveys</b> , title takeoffs, boundary and <b>right-of-way</b> calculations, CADD drawings, and plats for maintenance and construction projects.					
05/15 - 06/24 SECTION 17 PROJECT	<b>City of Bossier, Walter O. Bigby Carriageway (N. Pkwy Ext.) Bossier Parish, LA (City Proj. No. 8-15)</b> <b>Principal-in-Charge</b> of contract administration, fee negotiations, scope of work, staffing, coordination, and QA/QC for Static GPS Control surveys, <b>topographic surveys, property surveys</b> , hydrographic surveying services, QL A, B, C, and D subsurface utility designation/locating for a parkway facility design featuring new roads, additional lanes, roundabouts, and a bridge. Currently, in the construction management support phase and addressing RFI's as needed.					
09/20 - 06/24	<b>LADOTD Rural Bridge Replacement Initiative Phase II, Districts 05, 08, &amp; 58 (4400019337)</b> <b>Principal-in-Charge</b> of contract administration, staffing, coordination, and QA/QC for Static GPS Control surveys, <b>topographic surveys, property surveys</b> , title takeoffs, legal description preparation, preliminary and final <b>right-of-way mapping</b> , and QL C & D subsurface utility services for 34 bridge and culvert replacements as a subconsultant to BKL.					
09/20 - 06/24	<b>LADOTD Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, &amp; 62 (4400019338)</b> <b>Principal-in-Charge</b> of contract administration, staffing, logistics, and QA/QC for Static GPS Control surveys, <b>topographic surveys, property surveys</b> , title takeoffs, legal description preparation, preliminary and final <b>right-of-way mapping</b> , and QL C & D subsurface utility services for 21 bridge and culvert replacements as a subconsultant to Waggoner (formerly Sigma).					
07/23 - 06/24	<b>LADOTD IJJA Off-System Bridge Program, District 62 (4400025041)</b> <b>Principal-in-Charge</b> of contract administration, staffing, logistics, and QA/QC for Static GPS control surveys, <b>topographic surveys, property surveys</b> , title takeoffs, legal description preparation, and preliminary and final <b>right-of-way mapping</b> in support of bridge replacements.					

## Paul Rossini resume continued

09/14 - 06/24	<b>USDA/NRCS Property Surveying Services, LA (AG-7217-C-14-0010, AG-2B46-S-16-0004, &amp; 12FPC319D0016)</b> <b>Principal-in-Charge</b> of contract administration, staffing, logistics, and QA/QC for <b>property surveying services</b> and map and plat preparation for over 9,000 acres.
11/15 - 05/17	<b>Bossier Parish Police Jury, Winfield Road Extension, East/West (LA 3 to Airline Highway) Bossier Parish, LA (DEC 15-11-03)</b> <b>Principal-in-Charge</b> of fee negotiations, scope of work, staffing, logistics, and QC/QA for control surveys, <b>topographic surveys, property surveys, right-of-way mapping</b> , QL D subsurface utility services, and drainage map preparation as a sub to Denmon (Volkert).
05/13 - 10/15	<b>Bossier Parish Police Jury, Kingston Road Improvements and Development, Bossier Parish, LA (Agency Proj. No. Unknown)</b> <b>Principal-in-Charge</b> of fee negotiations, scope of work, staffing, logistics, and QC/QA for <b>topographic surveys, property surveys, final right-of-way mapping</b> , and drainage map preparation for the use in engineering plan and specifications.
03/08 - 05/15	<b>Bossier Parish Police Jury, Hamilton Road Improvements (I-20 to Benton Road) Bossier Parish, LA (H.003849 &amp; 700-08-0123)</b> <b>Principal-in-Charge</b> of fee negotiations, scope of work, staffing, logistics, and QC/QA for <b>topographic surveys, property surveys, and final right-of-way mapping</b> for roadway rehabilitation.
01/11 - 08/12	<b>LADOTD Local Road Safety Program, Sight Distance Improvements for Grigsby Road at Ranger Road in Jackson Parish, LA (737-25-0003-A &amp; H.006511)</b> <b>Principal-in-Charge</b> of contract administration, fee negotiations, scope of work, staffing, logistics, and QA/QC for Static GPS Control surveys, <b>topographic surveys, property surveys</b> , title takeoffs, and <b>right-of-way mapping</b> .
07/09 - 08/12	<b>LADOTD Local Road Safety Program, Linear Street - Rough Edge Road in Lincoln Parish, LA (737-31-0003-A &amp; 700-99-0444)</b> <b>Principal-in-Charge</b> of contract administration, fee negotiations, scope of work, staffing, logistics, and QA/QC for <b>topographic and property surveys</b> , property base maps, and <b>final right-of-way maps</b> .
01/07 - 07/12	<b>Bossier Parish Police Jury, Bellevue Road Improvements (US 80 to Winfield Road) Bossier Parish, LA (BPPJ 2010-277)</b> <b>Principal-in-Charge</b> of contract administration, staffing, coordination, and QA/QC for <b>topographic surveys, property surveys, and right-of-way mapping</b> including preliminary/final plans for the widening and possible realignment of Bellevue Road.
07/08 - 09/11	<b>LADOTD Route LA 523, Caddo Parish, LA (103-01-0025)</b> <b>Surveyor-in-Charge</b> of staking and setting 131 <b>right-of-way</b> monuments with posts and producing final monumentation maps for filing as a sub consultant to Gilchrist Construction Company.
08/10 - 04/11	<b>Bossier Parish Police Jury, Poole Road Bridge Over Flat River, Bossier Parish, LA (Agency Proj. No. Unknown)</b> <b>Principal-in-Charge</b> of contract administration, staffing, coordination, and QA/QC for <b>topographic surveys, property mapping</b> , and engineering design for the spot replacement of a 15-span timber bridge over the Flat River in rural Bossier Parish.
03/08 - 11/10	<b>LADOTD MacArthur Avenue Interchange Completion (Phase I) Route US 90, Jefferson Parish, LA (701-65-0997 &amp; 283-09-0114)</b> <b>Principal-in-Charge</b> of contract administration, fee negotiations, scope of work, staffing, logistics, and QA/QC for <b>property surveying and right-of-way</b> acquisition map preparation on approx. 0.5-mile segment of a new construction project to add turning lane and subsurface drainage.
10/01 - 08/10	<b>LADOTD I-49 North (LA 1 to LA 173) Route I-49, Caddo Parish, LA (700-09-01380)</b> <b>Principal-in-Charge</b> of fee negotiations, scope of work, staffing, logistics, and QC/QA for <b>topographic surveys, property surveys</b> , and base and final <b>right-of-way maps</b> for a new route covering 7.21 miles and over 50 parcels.
03/04 - 12/06	<b>LADOTD Route US 425 Bastrop - Log Cabin, Morehouse Parish, LA (038-03-0022)</b> <b>Surveyor-in-Charge</b> directed <b>topographic surveys, property surveys</b> , and established a control network in preparation of final <b>right-of-way</b> plans for the upgrade of 6.6901 km (5.8 miles) of two-lane roadway to five-lane for both urban and rural section.

## 16. STAFF EXPERIENCE:


	Firm Employed By: NTB Associates, Inc.					
	Name		Bryan Bunch, PLS		Years of Relevant Experience with this Employer	15.5
	Title		Executive Vice President		Years of Relevant Experience with Other(s) Employers	15
	Degree(s)/Years/Specialization			BS/1988/Survey and Land Information Systems		
	Active Registration Number/State/Expiration Date			PLS#5014/LA/03-31-2026		
	Year Registered	2009	Discipline	Professional Surveyor		
Contract Role(s)/Brief Description of Responsibilities			Topographic Survey			
Bryan will serve on the topographic survey team and will conduct <b>field surveys</b> to capture <b>roadway cross-sections, drainage conditions,</b> and <b>utility locations</b> . He will assist in <b>stationing project centerlines</b> and documenting <b>existing site conditions</b> . His work will be crucial in ensuring that the survey data accurately informs the project's design and layout. Bryan will manage survey crews, processing, drafting, and submittals.						
Experience Dates (mm/yy-mm/yy)		Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
01/22 - 06/24 SECTION 17 PROJECT		<b>LADOTD Jimmie Davis Bridge (LA 511) Design-Build, Bossier &amp; Caddo Parishes, LA (H.001779)</b> <b>Survey Project Manager</b> directing field crews, file processing, drafting, and submittals for Static GPS Control surveys, <b>topographic surveys, property surveys, surveys in support of QL A, B, C, &amp; D utility designating/locating, title takeoffs, description preparations, and preliminary and final right-of-way mapping</b> for the design-build project to replace the Jimmy Davis Bridge across the Red River.				
09/20 - 06/24		<b>LADOTD Rural Bridge Replacement Initiative Phase II, Districts 05, 08, &amp; 58 (4400019337)</b> <b>Survey Project Manager</b> directing field crews, file processing, drafting, and submittals for Static GPS Control surveys, <b>topographic surveys, property surveys, surveys in support of QL C &amp; D subsurface utility services, title takeoffs, description preparations, and preliminary and final right-of-way mapping</b> for 34 bridge and culvert replacements as a subconsultant to BKL.				
09/20 - 06/24		<b>LADOTD Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, &amp; 62 (4400019338)</b> <b>Survey Project Manager</b> directing field crews, file processing, drafting, and submittals for Static GPS Control surveys, <b>topographic surveys, property surveys, surveys in support of QL C &amp; D subsurface utility services, title takeoffs, description preparations, preliminary and final right-of-way mapping</b> for 21 bridge and culvert replacements as a subconsultant to Waggoner (formerly Sigma).				
07/23 - 06/24		<b>LADOTD IJJA Off-System Bridge Program, District 62 (4400025041)</b> <b>Quality Control Surveyor</b> assisting in staffing, coordination, and QA/QC for Static GPS control surveys, <b>topographic surveys, property surveys, title takeoffs, legal description preparation, and preliminary and final right-of-way mapping</b> in support of bridge replacements.				
08/22 - 06/24		<b>CenterPoint Surveying Services, Various Parishes, LA (Various Agency Proj. Nos.)</b> <b>Quality Control Surveyor</b> assisting in staffing, coordination, and QA/QC for <b>topographic surveys, property surveys, title takeoffs, boundary and right-of-way calculations</b> , CADD drawings, and plats for maintenance and construction projects.				
04/22 - 04/23 SECTION 17 PROJECT		<b>LADOTD Monkhouse to I-49, Caddo Parish, LA (4400017713)</b> <b>Survey Project Manager</b> directing field crews, file processing, drafting, and submittals for Static GPS Control, <b>topographic surveys</b> utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, QL C & D subsurface utility services, drainage map preparation, and Mobile Laser Scanning for interstate rehabilitation.				
03/21 - 03/22		<b>City-Parish Ward Creek at Siegen Lane, East Baton Rouge Parish, LA (22-DR-US-0013)</b> <b>Survey Project Manager</b> managed field crews and technicians for control, <b>topographic, and property surveys</b> along with QL B, C, and D subsurface utility designating for approximately 1,500 feet of Ward Creek.				



## Bryan Bunch resume continued

01/20 - 03/21	<b>UPRR Big Sandy Siding Survey, Upshur and Wood Counties, TX (29543/90502)</b> <b>Assistant Project Manager</b> assisted in the management of field crews and technicians for <b>property surveying services</b> for 15 parcels along railroad consisting of approximately 3.24 miles of track to establish the existing railroad right-of-way. 8 ALTA Surveys were prepared along with the privately owned <b>parcels for acquisition, 0.25 acre acquisition parcel in the right-of-way, and an overall right-of-way strip map.</b>
05/15 - 12/20 <b>SECTION 17 PROJECT</b>	<b>City of Bossier, Walter O. Bigby Carriageway (N. Pkwy Ext.) Bossier Parish, LA (City Proj. No. 8-15)</b> <b>Quality Control Surveyor</b> supervised south LA field crews and technicians for Static GPS Control surveys, <b>topographic, property,</b> and hydrographic surveying services, and QL A, B, C, and D subsurface utility designation/locating.
11/15 - 05/17	<b>Bossier Parish Police Jury, Winfield Road Extension, East/West (LA 3 to Airline Highway) Bossier Parish, LA (DEC 15-11-03)</b> <b>Quality Control Surveyor</b> assisted in staffing, coordination, and QA/QC for control surveys, <b>topographic surveys, property surveys, right-of-way mapping,</b> QL D subsurface utility services, and drainage map preparation as a sub to Denmon (Volkert).
05/13 - 10/15	<b>Bossier Parish Police Jury, Kingston Road Improvements and Development, Bossier Parish, LA (Agency Proj. No. Unknown)</b> <b>Quality Control Surveyor</b> assisted in staffing, coordination, and QA/QC for <b>topographic surveys, property surveys, final right-of-way mapping,</b> and drainage map preparation for the use in engineering plan and specifications.
04/15 - 09/15	<b>LADOTD LA 3094: Hearne Ave. Bridge Rehab, Route LA 3094, Caddo Parish, LA (4400001798 &amp; H.011094.5)</b> <b>Quality Control Surveyor</b> assisted in staffing, coordination, and QA/QC for <b>topographic surveying services,</b> HDS 3D Terrestrial Laser Scanning, drainage map preparation, and QL B subsurface utility designating for bridge rehabilitation.
02/14 - 03/15	<b>LADOTD Earhart Expressway Extension to US 61, Route LA 3139, Jefferson Parish, LA (H.004367.5)</b> <b>Project Manager</b> directed survey crews, file processing, drafting, and submittals for <b>topographic surveying</b> services utilizing HDS 3D Terrestrial Laser Scanning methods of data collection for an overpass connection, relocation of existing lanes, and construction of additional lanes as a subconsultant to AECOM.
07/12 - 01/14	<b>LADOTD I-10 Loyola Ave. to Williams Blvd., Jefferson Parish, LA (H.003074.5 &amp; H.009087.5)</b> <b>Project Manager</b> directed survey crews, file processing, drafting, and submittals for <b>topographic surveying</b> services utilizing HDS 3D Terrestrial Laser Scanning methods of data collection for interstate rehabilitation as a subconsultant to GEC, Inc.
07/12 - 06/13	<b>LADOTD I-10 Williams Blvd. to Veterans Blvd., Jefferson Parish, LA (H.003074.5 &amp; H.009087.5)</b> <b>Project Manager</b> directed survey crews, file processing, drafting, and submittals for <b>topographic surveying</b> services utilizing HDS 3D Terrestrial Laser Scanning methods of data collection for interstate rehabilitation as a subconsultant to GEC, Inc.
07/10 - 10/12	<b>LADOTD LA 42 Widening and Improvements District 61, Ascension Parish, LA (700-03-0125 &amp; 701-65-1538)</b> <b>Project Surveyor</b> directed <b>topographic and property surveys</b> and title work to locate all existing structures within 50 feet of proposed right-of-way. Bryan also managed the preparation of right-of-way acquisition maps for 165 parcels.
01/12 - 04/12	<b>LADOTD I-12 Walker to Satsuma, Livingston Parish, LA (4400001798 &amp; H.009836.5)</b> <b>Project Surveyor</b> assisted in the supervision of survey crews, file processing, drafting, and submittals for <b>topographic surveying services</b> for interstate rehabilitation.
05/11 - 11/11	<b>LADOTD Goose Bayou Bridge Replacement, Route LA 45, Jefferson Parish, LA (4400000681 &amp; H.002230)</b> <b>Project Surveyor</b> directed <b>property surveys,</b> title research, and the preparation of base and final right-of-way mapping.
03/10 - 10/11	<b>US 61 Hemlock Drive Intersection - St. John the Baptist Parish, LA (Agency Proj. No. 76716-00)</b> <b>Project Surveyor</b> directed <b>topographic and property surveys and the preparation of right-of-way maps</b> for use as basis for engineering design for a new 4-lane divided state highway as a subconsultant to Buchart Horn.

## 16. STAFF EXPERIENCE:


	Firm Employed By: NTB Associates, Inc.					
	Name		Mike King, PLS		Years of Relevant Experience with this Employer	18
	Title		Vice President		Years of Relevant Experience with Other(s) Employers	2
	Degree(s)/Years/Specialization			BS/2012/Construction Management		
	Active Registration Number/State/Expiration Date			PLS#5127/LA/09-30-2025		
	Year Registered	2015	Discipline	Professional Surveying		
Contract Role(s)/Brief Description of Responsibilities			Topographic Survey			
As part of the topographic survey team, Mike will focus on <b>stationing project elements</b> , measuring <b>lane widths</b> , and documenting <b>drainage structures</b> . He will work closely with other team members to ensure comprehensive data collection and will support the development of <b>detailed topographic maps</b> that meet project requirements. Mike will serve as NTBA Assistant Project Manager for <b>topographic surveying services</b> during this contract. He will assist in the management of staff and ensure quality standards and specifications are met.						
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).					
01/22 - 06/24 SECTION 17 PROJECT	<b>LADOTD Jimmie Davis Bridge (LA 511) Design-Build, Bossier &amp; Caddo Parishes, LA (H.001779)</b> <b>Assistant Project Manager</b> assisting in the management of field crews and technicians for Static GPS Control surveys, <b>topographic surveys, property surveys, title takeoffs, description preparations, preliminary and final right-of-way mapping</b> , and surveys in support QL A, B, C, & D utility designating/locating for the design-build project to replace the Jimmy Davis Bridge across the Red River.					
08/21 - 06/24	<b>LADOTD Rural Bridge Replacement Initiative Phase II, Districts 05, 08, &amp; 58 (4400019337)</b> <b>Assistant Project Manager</b> assisting in the management of field crews and technicians for Static GPS Control surveys, <b>topographic surveys, property surveys, surveys in support of QL C &amp; D subsurface utility services, title takeoffs, description preparations, and preliminary and final right-of-way mapping</b> for 34 bridge and culvert replacements as a subconsultant to BKL.					
04/21 - 06/24	<b>LADOTD Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, &amp; 62 (4400019338)</b> <b>Assistant Project Manager</b> assisting in the management of field crews and technicians for Static GPS Control surveys, <b>topographic surveys, property surveys, surveys in support of QL C &amp; D subsurface utility services, title takeoffs, description preparations, and preliminary and final right-of-way mapping</b> for 21 bridge and culvert replacements as a subconsultant to Waggoner (formerly Sigma).					
08/22 - 08/24	<b>CenterPoint Surveying Services, Various Parishes, LA (Various Agency Proj. Nos.)</b> <b>Quality Control Surveyor</b> assisting in staffing, coordination, and QA/QC for <b>topographic surveys, property surveys, title takeoffs, boundary and right-of-way</b> calculations, CADD drawings, and plats for maintenance and construction projects.					
04/22 - 04/23 SECTION 17 PROJECT	<b>LADOTD Monkhouse to I-49, Caddo Parish, LA (4400017713)</b> <b>Assistant Project Manager</b> assisting in the management of field crews and technicians for Static GPS Control, <b>topographic surveys</b> utilizing HDS 3D Terrestrial Laser Scanning methods of data collection, QL C & D <b>subsurface utility services</b> , drainage map preparation, and Mobile Laser Scanning for interstate rehabilitation.					
07/23 - 05/24	<b>USM Bedford to Brown Pipeline, Red River Parish, LA (301884)</b> <b>Assistant Project Manager</b> assisting in the management of field crews and technicians for <b>property surveying services</b> for 11 parcels for a proposed pipeline alignment approximately 5.6 miles in length.					
03/21 - 03/22	<b>City-Parish Ward Creek at Siegen Lane, East Baton Rouge Parish, LA (22-DR-US-0013)</b> <b>Quality Control Surveyor</b> reviewed and processed data for control, <b>topographic, and property surveys</b> along with surveys in support of QL B, C, and D subsurface utility designating services.					

## Mike King resume continued

01/20 - 03/21	<b>UPRR Big Sandy Siding Survey, Upshur and Wood Counties, TX (29543/90502)</b> <b>Quality Control Surveyor</b> reviewed data for property surveying services for 15 parcels along railroad consisting of approximately 3.24 miles of track to establish the existing railroad right-of-way. 8 ALTA Surveys were prepared along with the privately owned parcels for acquisition, 0.25 acre <b>acquisition parcel in the right-of-way</b> , and an overall <b>right-of-way strip map</b> .
05/15 - 12/20 SECTION 17 PROJECT	<b>City of Bossier, Walter O. Bigby Carriageway (N. Pkwy Ext.) Bossier Parish, LA (City Proj. No. 8-15)</b> <b>Quality Control Surveyor</b> reviewed data and drafting for Static GPS Control surveys, <b>topographic, property, and hydrographic surveying services</b> , and QL A, B, C, and D subsurface utility designation/locating.
04/15 - 02/16	<b>LADOTD I-20 (Airline Drive to I-220) Bossier Parish, LA (4400005532 &amp; H.011319.5)</b> <b>Quality Control Surveyor</b> reviewed data and drafting for <b>topographic surveying services</b> for interstate rehabilitation.
10/15 - 12/15	<b>LADOTD Caddo Lake Bridge, Route LA 1 Caddo Parish, LA (H.01166.5)</b> <b>Quality Control Surveyor</b> reviewed data and drafting for <b>topographic surveys</b> performed along a portion of the existing route of LA Hwy. 1 for a proposed bridge replacement at the intersection of Caddo Lake and LA Hwy. 1 in Caddo Parish east of Mooringsport.
05/13 - 10/15	<b>Bossier Parish Police Jury, Kingston Road Improvements and Development, Bossier Parish, LA (Proj. No. Unknown)</b> <b>Senior Party Chief/Technician</b> ran a field crew and downloaded data for <b>topographic surveys, property surveys, final right-of-way mapping</b> , and drainage map preparation for the use in engineering plan and specifications.
04/15 - 09/15	<b>LADOTD LA 3094: Hearne Ave. Bridge Rehab, Route LA 3094, Caddo Parish, LA (4400001798 &amp; H.011094.5)</b> <b>Quality Control Surveyor</b> reviewed data and drafting for <b>topographic surveying</b> services utilizing HDS 3D Terrestrial Laser Scanning methods of data collection for bridge rehabilitation.
07/12 - 01/14	<b>LADOTD I-10 Loyola Ave. to Williams Blvd., Jefferson Parish, LA (H.003074.5 &amp; H.009087.5)</b> <b>Senior Survey Party Chief/Technician</b> managed a survey crew and processed data for <b>topographic surveying services</b> utilizing HDS 3D Terrestrial Laser Scanning methods of data collection for interstate rehabilitation as a subconsultant to GEC, Inc.
07/10 - 10/12	<b>LADOTD LA 42 Widening and Improvements, District 61, Ascension Parish, LA (700-03-0125 &amp; 701-65-1538)</b> <b>Survey Party Chief/Technician</b> ran a field crew and processed data for <b>topographic and property surveys</b> in support of base and final right-of-way mapping, and title work.
05/11 - 11/11	<b>LADOTD Goose Bayou Bridge Replacement, Route LA 45, Jefferson Parish, LA (4400000681 &amp; H.002230)</b> <b>Survey Party Chief/Technician</b> ran a field crew and processed data for <b>property surveys</b> in support of base and final <b>right-of-way map</b> preparation.
02/11 - 08/11	<b>LADOTD I-20 Rehabilitation Westerfield Avenue to Industrial Drive, District 04, Bossier Parish, LA (H.003860.5 &amp; 700-99-0525)</b> <b>Survey Party Chief/Technician</b> managed a survey crew and processed data for <b>topographic surveying services</b> for interstate rehabilitation.
01/09 - 11/10	<b>LADOTD MacArthur Avenue Interchange Completion (Phase I) Route US 90, Jefferson Parish, LA (701-65-0997 &amp; 283-09-0114)</b> <b>Survey Party Chief/Technician</b> ran a field crew and processed data for <b>property surveying services</b> in support of right-of-way acquisition map preparation.
09/09 - 03/10	<b>LADOTD Lawrence, Bogalusa, and Coburn Creek Bridges, Route LA 10, Washington Parish, LA (700-99-0484 &amp; 701-65-1347)</b> <b>Survey Party Chief/Technician</b> ran a field crew and processed data for <b>topographic and property surveys</b> in support of title work, title updates, title takeoffs, and right-of-way map preparation.
11/07 - 06/09	<b>LADOTD US 371 Desoto Line to LA 1/US 84/Route US 371, Red River Parish, LA (700-99-0328, 701-65-0879, &amp; 4400000666)</b> <b>Survey Crew Chief/Technician</b> ran a field crew and processed data for <b>property surveying services</b> in support of <b>right-of-way maps</b> and title takeoffs for 19 parcels for a new route 3.73 miles in length.




## 16. STAFF EXPERIENCE:

	Firm Employed By: NTB Associates, Inc.				
	Name	John King		Years of Relevant Experience with this Employer	18
	Title	Supervisor Other		Years of Relevant Experience with Other(s) Employers	17
	Degree(s)/Years/Specialization		Instrumentation Design Drafting, 1990/AutoCAD   1991/ Pipe Drafting   1992 Leica's LIDAR Scanning Courses   Cyclone Software Courses, 2013		
	Active Registration Number/State/Expiration Date		N/A		
	Year Registered	N/A	Discipline	N/A	
Contract Role(s)/Brief Description of Responsibilities			Topographic Survey		
<p>John will be part of the <b>topographic survey</b> team and will be involved in conducting <b>field measurements</b> of <b>roadway and ditch cross-sections, stationing centerline</b>, and <b>documenting existing utilities</b>. He will also assist in <b>stationing transitions</b> and ensuring that all survey data is accurately recorded and ready for integration into the project's design plans. John is chief operating officer in NTBA. He will serve as NTBA staff manager during this contract. He will oversee all staff and assist in scope, fee, scheduling, and management.</p>					
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).				
01/22 - 06/24 <b>SECTION 17 PROJECT</b>	<b>LADOTD Jimmie Davis Bridge (LA 511) Design-Build, Bossier &amp; Caddo Parishes, LA (H.001779)</b> <b>Staff Manager</b> for Static GPS Control surveys, topographic surveys, property surveys, title takeoffs, legal description preparation, preliminary and final right-of-way mapping, QL A, B, C, & D utility designating/locating, and utility coordination services for the design-build project to replace the Jimmy Davis Bridge across the Red River.				
09/20 - 06/24	<b>LADOTD Rural Bridge Replacement Initiative Phase II, Districts 05, 08, &amp; 58 (4400019337)</b> <b>Staff Manager</b> for Static GPS Control surveys, <b>topographic surveys</b> , property surveys, title takeoffs, legal description preparation, preliminary and final <b>right-of-way mapping</b> , and QL C & D <b>subsurface utility services</b> for 34 bridge and culvert replacements as a subconsultant to BKL.				
09/20 - 06/24	<b>LADOTD Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, &amp; 62 (4400019338)</b> <b>Staff Manager</b> for Static GPS Control surveys, <b>topographic surveys</b> , property surveys, title takeoffs, legal description preparation, preliminary and final <b>right-of-way mapping</b> , and QL C & D <b>subsurface utility services</b> for 21 bridge and culvert replacements as a subconsultant to Waggoner (formerly Sigma).				
07/23 - 06/24	<b>LADOTD IJJA Off-System Bridge Program, District 62 (4400025041)</b> <b>Staff Manager</b> for Static GPS control surveys, <b>topographic surveys</b> , property surveys, title takeoffs, legal description preparation, and preliminary and final <b>right-of-way mapping</b> in support of bridge replacements.				
08/22 - 07/24	<b>CenterPoint Surveying Services, Various Parishes, LA (Various Agency Proj. Nos.)</b> <b>Staff Manager</b> for <b>topographic surveys</b> , property surveys, title takeoffs, boundary, and <b>right-of-way</b> calculations, CADD drawings, and plats for maintenance and construction projects.				
05/15 - 12/20 <b>SECTION 17 PROJECT</b>	<b>City of Bossier, Walter O. Bigby Carriageway (N. Pkwy Ext.) Bossier Parish, LA (City Proj. No. 8-15)</b> <b>Staff Manager</b> for south LA field crews and technicians for Static GPS Control surveys, <b>topographic</b> , property, and hydrographic surveying services, and QL A, B, C, and D <b>subsurface utility designation/locating</b> .				
07/10 - 10/12	<b>LADOTD LA 42 Widening and Improvements District 61, Ascension Parish, LA (700-03-0125 &amp; 701-65-1538)</b> <b>Staff Manager</b> for <b>topographic and property surveys</b> , title work, and <b>right-of-way</b> mapping to locate all existing structures within 50 feet of proposed right-of-way for 165 parcels.				

## John King resume continued

09/09 – 03/10	<b>LADOTD Lawrence, Bogalusa, and Coburn Creek Bridges, Route LA 10, Washington Parish, LA (700-99-0484, 701-65-1347, &amp; 700-59-0006)</b> <b>Staff Manager</b> for <b>topographic and property surveys</b> , preparation of <b>right-of-way maps</b> , title work, title updates, and title takeoffs for three bridge construction sites.
01/09 – 03/10	<b>LADOTD Otter Creek and Drain Bridges near Arcadia, Route LA 9, Bienville Parish, LA (700-07-011, 700-07-0113, &amp; 4400000666)</b> <b>Staff Manager</b> for property <b>surveying services</b> , title work, and the preparation of base and <b>final right-of-way maps</b> at two bridge sites.
01/09 – 06/09	<b>LADOTD US 371 Desoto Line to LA 1/US 84/Route US 371, Red River Parish, LA (700-99-0328, 701-65-0879, &amp; 4400000666)</b> <b>Staff Manager</b> for property <b>surveying</b> services, base maps, <b>right-of-way maps</b> , and title takeoffs for 19 parcels for a new route 3.73 miles in length.

## 16. STAFF EXPERIENCE:


	Firm Employed By: Vectura Consulting Services, LLC				
	Name		Sheelagh Brin Ferlito, PE, PTOE	Years of Relevant Experience with this Employer	9
	Title		Supervisor - Eng	Years of Relevant Experience with Other(s) Employers	27
	Degree(s)/Years/Specialization		BS/1988/Civil Engineer		
	Active Registration Number/State/Expiration Date		PE#25383/LA/09-30-25		
	Year Registered	1993	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities			Discipline Lead - Traffic		
As the traffic lead, Brin will oversee all aspects of the <b>traffic engineering</b> components of the project. She will be responsible for conducting <b>traffic analyses</b> , including evaluating current traffic flow, identifying potential issues, and recommending improvements. Brin will coordinate with the design team to integrate traffic management solutions, ensuring <b>safety</b> and <b>efficiency</b> are prioritized in all phases of the project. She will also oversee the preparation of <b>traffic control plans</b> , ensure compliance with <b>DOTD standards</b> , and provide leadership and guidance to the traffic team throughout the project.					
Experience Dates (mm/yy-mm/yy)		Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).			
07/21 - Ongoing		<b>EBR Computerized Traffic Signal, Phase VB, Baton Rouge, L (H.007160)</b> <b>Task Leader.</b> Brin is the task leader for Vectura for the <b>Construction Engineering and Inspection of 24 traffic signals</b> . 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 - Ongoing		<b>MOVEBR New Capacity Projects Program Management, Baton Rouge, LA</b> <b>Lead Traffic Engineer.</b> Brin is the lead traffic engineer for entire the New Capacity Projects program management team. <b>All traffic engineering scope of services, traffic/speed data collection, traffic design studies, safety studies, and traffic signal design plans are reviewed by Brin.</b> 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 - Ongoing		<b>DOTD Belle Chasse Bridge &amp; Tunnel Replacement PPP, Belle Chasse, LA (H.004791)</b> <b>Project Manager.</b> Brin is the project manager for the <b>temporary and permanent traffic signal plans</b> for the intersections of LA 23 at Burmaster Street and at Engineers Road. She based her traffic signal plans on <b>design year volumes</b> 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 DOTD.			
09/20 - 12/21		<b>LA 30 Roundabouts at Tanger I-10, Ascension Parish, LA (H.010960.5)</b> <b>Project Manager.</b> Brin is the project manager for the design of <b>temporary traffic signal plans</b> that will be implemented during the roundabout construction along LA 30 in Gonzales, LA. The project involves replacing three existing signalized intersections with multi-lane roundabouts along LA 30 at I-10 Interchange ramps and at Tanger Boulevard. Vectura also developed <b>signal timing plans</b> for each phase of the construction to maintain progression along LA 30.			
07/18 - 04/19		<b>LA 1 Pedestrian Crosswalk Study and Traffic/Pedestrian Signal Design, West Baton Rouge Parish, Addis, LA</b> Brin developed a Pedestrian Crosswalk Study and <b>Traffic Signal Construction Plans</b> 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 <b>traffic and pedestrian traffic data collection, a speed study, crash analyses, intersection analyses, and progression analyses</b> . 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.			



## Sheelagh Brin Ferlito resume continued

09/17 - 04/18	<b>US 11 at US 190 Bus. (Fremaux Ave.) Pedestrian Crosswalk Study and Traffic/Pedestrian Signal Equipment Design, Slidell, LA</b> Brin developed a formal traffic study for a proposed crosswalk with pedestrian <b>traffic signal equipment and pedestrian clearance timings</b> based on DOTD requirements. Brin assisted with <b>vehicle and pedestrian data collection, spot speed study, analyzed 3-year intersection crash data, and developed signal timing for pedestrians to cross the street.</b> From the design study, a set of Traffic Signal Modification Plans were developed to implement the recommended alternative.
08/15 - 05/17	<b>Enhancing Guidance for Evacuation Time Estimate Studies (Nuclear Regulatory Commission, Rockville, MD)</b> Brin conducted an applied research study of U.S. Nuclear Regulatory Commission guidance for developing evacuation time estimate studies and produced a technical basis for revision of NUREG/CR-7002 "Criteria for Development of Evacuation Time Estimate Studies" in support of the 2020 update of ETEs. Specifically, Brin was the lead VISSIM modeler for the "large" population models, which consisted of a 20-mile radius model. The VISSIM model input included traffic volumes distributed over eight hours, highway and intersection lane geometry using links and connectors, conflict areas, traffic signal, and stop control and speed. Brin also developed Dynamic Traffic Assignment code to simulate that fastest route out of the evacuated zone.
04/14 - 12/14	<b>Signal Design for N. Sherwood Forest Drive Widening Project, Baton Rouge, LA (H.002301)</b> <b>Project Manager.</b> As the project engineer, Brin was in responsible charge for <b>data collection and design for three signalized intersections</b> 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	<b>EBR 03-TS-CI-0026 CE&amp;I/OV for EBR Traffic Signal Systems Jefferson Highway Construction, Baton Rouge, LA</b> <b>Project Resident Engineer.</b> Brin was the Project Resident Engineer on behalf of EBR for performing <b>CE&amp;I/OV services for the construction of 11 traffic signals.</b> 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, and 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	<b>SPN 013-05-0043 CE&amp;I/OV for EBR Traffic Signal Systems Phase IV Construction, Baton Rouge, LA</b> <b>Project Resident Engineer.</b> Brin was the Project Resident Engineer for DOTD and EBR to perform <b>CE&amp;I/OV services for the construction of 21 traffic signals.</b> 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, and 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.
09/13 - 04/14	<b>S.P. 700-99-0477 Jefferson Highway Signal Design, Baton Rouge, LA</b> Brin designed traffic signal plans for 11 intersections along Jefferson Highway between College Drive and the I-12 On Ramp in Baton Rouge. Design included <b>traffic data collection, traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout.</b> Design also included <b>traffic signal synchronization signal timing</b> and pedestrian signal timing. She prepared estimated quantities, preliminary and final signal construction plans, and specifications.
03/05 - 11/05	<b>Airline Highway Widening SPN 700-99-0332 (Baton Rouge, LA)</b> Brin designed eight traffic signals as part of the Airline Highway widening project in Baton Rouge. Her design included <b>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.</b> 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.

## 16. STAFF EXPERIENCE:


	Firm Employed By: Vectura Consulting Services, LLC				
	Name	Laurence Lucius Lambert II, PE, PTOE, PTP		Years of Relevant Experience with this Employer	9
	Title	Supervisor - Eng		Years of Relevant Experience with Other(s) Employers	18
	Degree(s)/Years/Specialization		BS/1997/Civil Engineer   MS/2006/Civil Engineer (Transportation focus)   MBA/2010		
	Active Registration Number/State/Expiration Date		PE#29901/LA/3-31-2026		
	Year Registered	2002	Discipline	Civil Engineering	
	Contract Role(s)/Brief Description of Responsibilities		Traffic		
As part of the traffic team, Laurence will focus on conducting <b>traffic studies</b> and analyzing data related to vehicle flow, signal timing, and intersection performance. He will assist in developing <b>traffic control plans</b> and provide input on <b>signage</b> and <b>pavement markings</b> to optimize road safety and efficiency. Collaborating closely with the traffic lead, he will ensure that all recommendations are aligned with <b>project goals</b> and <b>DOTD regulations</b> .					
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).				
07/19 - Ongoing	<b>MOVEBR New Capacity Projects Program Management, Baton Rouge, LA</b> At the beginning of the program, Laurence worked with the Capital Region Planning Commission to produce measures of effectiveness from the <b>travel demand model</b> 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 <b>peer review</b> for the traffic studies for Ben Hur Road and Lee Drive.				
07/23 - 11/23	<b>CCC Decorative Lighting Level 4 TMP, New Orleans, LA (H.015504.5)</b> <b>Project Manager.</b> Laurence was the project manager for a <b>Level 4 Traffic Management Plan (TMP)</b> for the Crescent City Connection (CCC). Laurence oversaw the lane closure analysis based on queuing. A safety analysis of the construction zone was also performed to identify any "hot spots". The results were summarized in a report that was reviewed by DOTD.				
04/23 - 10/23	<b>I-12: US 61 Bridges Girder Repairs, Baton Rouge, LA (H.014591.5)</b> <b>Project Manager.</b> Laurence was the project manager for a <b>Level 2 TMP</b> for the interchange of I-12 at US 61. Laurence performed QA/QC for a lane closure analysis based on queuing. A safety analysis of the construction zone was also performed to identify any "hot spots" where Laurence also performed QA/PC. The results were summarized in a report that was reviewed by DOTD.				
04/18 - 12/21	<b>LA 30 Roundabouts at Tanger &amp; I-10 Gonzales, Ascension, LA (H.010960.5)</b> Laurence provided a Quality Control review of the <b>temporary construction and sequence of construction plans</b> . Vectura also provided Quality Control review of <b>signing and striping plans</b> at 30% and 60% plan sets to ensure the <b>roundabouts</b> conformed to the Pavement Markings Details Sheet PM-09 and the MUTCD details on roundabouts.				
04/18 - 12/21	<b>Roundabout: US 171 at Boone St., Vernon Parish, LA (H.011909.5-4)</b> <b>Quality Control Review.</b> Laurence provided a Quality Control review of the <b>temporary construction and sequence of construction plans</b> . Vectura also provided Quality Control review of <b>signing and striping plans</b> at 30% and 60% plan sets to ensure the <b>roundabouts</b> conformed to the Pavement Markings Details Sheet PM-09 and the Manual on Uniform Traffic Control Devices (MUTCD) details on roundabouts.				
02/20 - 09/21	<b>College Drive Corridor Enhancement from Perkins Road to I-10, Baton Rouge, LA</b> <b>Project Manager.</b> Laurence was the project manager to develop <b>Chapter 1 (Data Collection), Appendix A (Initial Data Collection), and Appendix B (Final Data Collection)</b> for proposed improvements College Drive. Since the I-10 interchange was included in the study, <b>approval from DOTD was required</b> . 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.				

## Laurence Lambert resume continued

01/23 - 02/24	<b>Alexandria ITS Phase 2 (H.011504)</b> <b>Project Manager.</b> Laurence was the project manager for a System Engineering Analysis Report, Engineering Opinion of Probably Construction Cost and <b>Level 2 Transportation Management Plan</b> for the Alexandria area.
10/21-03/22 <b>SECTION 17 PROJECT</b>	<b>I-10 ITS Scott to Lake Charles (H.013256.5)</b> <b>Lead Traffic Engineer.</b> Laurence was the lead traffic engineer for a <b>Level 2 Traffic Management Plan (TMP)</b> for the construction of ITS equipment along I-10. The plan included a safety strategy that included a CATScan, LOS determination utilizing Citrix data, lane closure recommendations based on a queue analysis and public information strategies.
09/18 - 02/19	<b>I-110 ITS Deployment Systems Engineering Analysis (H.013261.1)</b> <b>Project Manager.</b> As a subconsultant, Laurence was the task leader for the <b>constraints &amp; alternatives analysis as well as the Projects &amp; Procurement Strategy portion</b> of the project. The goal of the project was to deploy Close Circuit Television (CCTV) cameras and one Dynamic Message Sign (DMS) along the I-110 corridor from US 190 to US 61. To communicate with the field devices from the Traffic Management Centers (TMCs), installing fiber optics along the I-110 corridor was recommended. The fiber optics also allow communication to the <b>traffic signals</b> at the interchange ramps along I-110 to the TMC.
06/12 - 12/12	<b>Ramp Metering Study of I-10 Segment, East Baton Rouge and Ascension Parishes, LA</b> <b>Project Manager.</b> Laurence conducted a feasibility study to deploy ramp meters along the I-10 corridor in Baton Rouge between Dalrymple Drive and LA 73. The study consisted of <b>analyzing 17 on-ramps under differing design conditions</b> , which include the following: 2010 Existing, 2012 Without Ramp Meter, 2012 Ramp Meter, and 2012 Ramp Meter with Recommendations. Laurence's role in this project as project manager was to oversee all QA/QC measures and interpret the results from the model. Laurence <b>coordinated with the local agencies</b> to obtain all current proposed projects in the area, which included DOTD I-10 Widening Project Phases 1 and 2, the Green Light Plan (GLP) Essen Lane Widening Project, and the GLP Highland Road Widening Project.
09/16 - 04/17	<b>H.004957.5 I-12 To Bush - LA 3241 (I-12 - LA 36) Corridor Study, St. Tammany Parish, LA</b> <b>Lead Traffic Engineer.</b> Laurence was the lead traffic engineer for a <b>DOTD traffic study</b> 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 TransCAD 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. Laurence, along with Brin, <b>collected 7-day, 24-hour counts</b> with classification on mainlines, turning movement counts for morning and evening peak periods, and speed data for mainlines. Laurence also developed a VISSIM <b>traffic simulation model</b> of the preferred alternative.
07/16 - 01/17	<b>FHWA Intersection &amp; Interchange Geometrics: Innovative Design Considerations for All Users, Norfolk, VA</b> At the request of the Federal Highway Administration (FHWA) division office for Virginia, Laurence was asked to peer review a set of design plans for a Displaced Left Turn (DLT) in Norfolk, VA. The plans were part of a design-build project that included <b>widening a corridor, modifications to an interchange and the implementation of a DLT</b> . Vectura specifically reviewed and commented on the <b>intersection geometry, pavement markings, and signage</b> . The findings were summarized in a technical memorandum as well as "red line" comments were scanned and submitted to the FHWA Virginia Division office for their use.
04/04 - 09/06	<b>Stage 0 I-10 at Pecue Lane Interchange Justification Study, Baton Rouge, LA</b> <b>Lead Traffic Engineer.</b> Laurence was the lead traffic engineer for a <b>Stage 0 traffic study</b> 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.




## 16. STAFF EXPERIENCE:

	Firm Employed By: Vectura Consulting Services, LLC				
	Name		Reece Rodriguez, PE, PTOE, RSP1	Years of Relevant Experience with this Employer	4
	Title		Engineer	Years of Relevant Experience with Other(s) Employers	7
	Degree(s)/Years/Specialization		BS/2013/Civil Engineer		
	Active Registration Number/State/Expiration Date		PE#42074/LA/3-31-2026		
	Year Registered	2017	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities			Traffic		
As part of the <b>traffic</b> team, Reece will be responsible for gathering and evaluating <b>traffic data</b> , including traffic counts and speed studies, to support the development of <b>traffic management strategies</b> . He will work on the design of <b>traffic signals</b> and <b>control systems</b> , ensuring their implementation meets <b>safety standards</b> and addresses potential traffic issues. He will assist in <b>reviewing plans</b> and providing technical support during the project's execution.					
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 - Ongoing	<b>MOVEBR Direct Select for Traffic Signal Design, Baton Rouge, LA Project Engineer.</b> Reece is a project engineer for the design of <b>traffic signal upgrades</b> at 10 intersections. This project included a traffic design report, preliminary and final plans for traffic signals that included <b>traffic signal layout, fiber interconnect layout, fiber splicing diagrams, pedestrian crosswalk layout, and sign layout</b> . The design also included traffic signal synchronization signal timing and pedestrian signal timing.				
06/23 - Ongoing	<b>Connected &amp; Autonomous Vehicles (C/AV) Team and Working Group Support (H.012845.1)</b> Reece is a member of the team to develop new policies and legislation related to C/AV.				
06/23 - Ongoing	<b>Monroe Phase 3 SEA (H.011507.1)</b> Reece visited the project site to document the controller type and detection needs at each signalized intersection within the right-of-way.				
07/21 - Ongoing	<b>EBR Computerized Traffic Signal, Phase VB, Baton Rouge, LA (H.007160)</b> Reece is part of the team responsible for <b>Construction Engineering and Inspection</b> . 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.				
01/23 - 02/24	<b>Alexandria ITS Phase 2 (H.011504)</b> <b>Project Engineer.</b> Reece was the project engineer for a site visit, System Engineering Analysis Report, Engineering Opinion of Probably Construction Cost, and <b>Level 2 Transportation Management Plan</b> .				
04/20 - Ongoing	<b>DOTD Belle Chasse Bridge &amp; Tunnel Replacement Public-Private Partnership Project, Belle Chasse, LA (H.004791)</b> Reece is responsible for designing the temporary traffic signal for the intersection of LA 23 at Engineers Road 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 <b>DOTD</b> and ITE guidance. Reece is responsible for producing the traffic impact analysis portion of the <b>Traffic Management Plan</b> that was also used in planning for the <b>permanent and temporary signal timing plans</b> . Reece was also responsible for producing the 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. In addition, Reece was responsible for reviewing and approving shop drawings that were submitted by the contractor for use in construction.				

## Reece Rodrigue resume continued

01/21 - 05/21 <b>SECTION 17 PROJECT</b>	<b>I-10 ITS Scott to Lake Charles, Lafayette, Acadia, and Jefferson Davis Parishes, LA (H.013256)</b> 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 <b>measuring anticipated construction quantities and producing a cost estimate</b> for said quantities by using DOTD's Bid Tabulation and Cost Estimating Tool.
09/20 - 12/21	<b>Roundabout: US 171 at Boone St., Vernon Parish, LA (H.011909.5-4)</b> <b>Design Engineer.</b> Reece is an essential design engineer, who is assisting in the production of the temporary <b>signal design</b> associated with the <b>sequence of construction</b> for the roundabout at US 171 at Boone Street. 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 <b>traffic patterns</b> .
09/20 - 12/21	<b>LA 30 Roundabouts at Tanger I-10, Ascension Parish, LA (H.010960.5)</b> <b>Design Engineer.</b> Reece is a design engineer, who is assisting in the production of the temporary <b>signal design</b> associated with the <b>sequence of construction</b> 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.
11/21 - 12/21	<b>Emergency Street Light and Traffic Sign Assessment, New Orleans, LA</b> In response to the damage caused by Hurricane Ida, Reece <b>inspected streetlights</b> and <b>street signs</b> to report damage using the City's ArcGIS Online Organization and ArcGIS Field Maps app. The assessment area was approximately 2.5 miles by 2 miles area.
02/20 - 09/21	<b>College Drive Corridor Enhancement from Perkins Road to I-10, Baton Rouge, LA</b> <b>Task Leader.</b> 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, <b>travel time runs</b> , <b>pedestrian/bicycle counts</b> , and weaving counts.
07/19 - 12/19	<b>Burgess Avenue at Duff Road Traffic Signal Design, Walker, LA</b> Reece was responsible for the design of a fully actuated signalized intersection in the city of Walker, LA. The <b>traffic signal</b> was determined to meet signal warrants upon completion of the Foxglove subdivision in Livingston Parish, LA. Plans included road widening, <b>signal face</b> indication schedule, <b>signal sequence chart</b> , sign schedule, detector schedule, controller timing, wiring diagram, and free operation phasing diagram. Reece met with city officials to discuss the feasibility of <b>constructing a traffic signal</b> as opposed to other alternative measures for improving the intersection.
02/16 - 12/16	<b>US 190 Superstreet Task Order, St. Tammany Parish, LA (H.005733.5)</b> Reece was a team member responsible for the layouts for the US 190 Superstreet signal designs. He created the <b>preliminary plans using CADD software</b> 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.

## 16. STAFF EXPERIENCE:

	Firm Employed By: Vectura Consulting Services, LLC				
	Name	Kristen Farrington, PE, PTOE, RSP1		Years of Relevant Experience with this Employer	2
	Title	Engineer		Years of Relevant Experience with Other(s) Employers	7
	Degree(s)/Years/Specialization		BS/2013/Civil Engineer		
	Active Registration Number/State/Expiration Date		PE#42074/LA/3-31-2025		
	Year Registered	2018	Discipline	Civil Engineering	
Contract Role(s)/Brief Description of Responsibilities		Traffic			
Kristen will play a key role on the traffic team addressing the <b>impacts of construction</b> on existing traffic patterns and developing strategies to minimize <b>disruptions</b> . She will focus on the <b>layout of traffic control devices</b> and the design of <b>temporary traffic routes</b> . Additionally, Kristen will collaborate with the broader team to ensure that all traffic related designs are compliant with <b>DOTD guidelines</b> and contribute to the overall <b>safety</b> and <b>efficiency</b> of the project.					
Experience Dates (mm/yy-mm/yy)	Experience and qualifications relevant to the proposed contract; i.e., "designed drainage", "designed girders", "designed intersection", etc. Experience dates should cover the years of experience specified in the applicable MPR(s).				
04/21 - Ongoing	<b>CP#16 CI-US-0032 Bus Rapid Transit (BRT) Improvement Project, Baton Rouge, LA</b> <b>Project Engineer.</b> Kristen is project engineer for a <b>traffic design study</b> and <b>traffic signal design</b> of 19 signals along three corridors: Plank Road, 22nd Street, and US 190 (Florida Street). Kristen is assisting the prime consultant with the safety analysis as well.				
07/23 - 01/24	<b>CCC Decorative Lighting Level 4 TMP, New Orleans, LA (H.015504.5)</b> <b>Lead Traffic Engineer.</b> Kristen was the lead traffic engineer for a <b>Level 4 Traffic Management Plan (TMP)</b> for the Crescent City Connection (CCC). Kristen performed a lane closure analysis based on queuing. A safety analysis of the construction zone was also performed to identify any "hot spots". The results were summarized in a report that was reviewed by DOTD.				
04/23 - 10/23	<b>I-12: US 61 Bridges Girder Repairs, Baton Rouge, LA (H.014591.5)</b> <b>Lead Traffic Engineer.</b> Kristen was the lead traffic engineer for a <b>Level 2 TMP</b> for the interchange of I-12 at US 61. Kristen performed a lane closure analysis based on queuing. A safety analysis of the construction zone was also performed to identify any "hot spots". The results were summarized in a report that was reviewed by DOTD.				
08/21 - 04/22	<b>Downtown to Scotlandville Parkway Trail Safety Enhancement Study, Baton Rouge, LA (H.013267)</b> <b>Project Engineer.</b> 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 <b>vehicular speed and volume data</b> 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	<b>MOVEBR College Drive Enhancement Project, Baton Rouge, LA</b> 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, <b>driveway counts, travel time runs</b> , pedestrian/bicycle counts, and weaving counts.				
6/19 - 2/21	<b>US 167 Improvements Stage 0 Elsie Street to Gilbert Street, St. Landry Parish, LA (H.013459)</b> <b>Project Manager.</b> 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. She was the civil engineer responsible for safety analysis including crash rate number method, over-representation, CATScan quality assurance, HSM existing safety analysis, and No-Build Analysis. She 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.				

## Kristen Farrington resume continued

6/19 - 2/21	<p><b>US 167 Improvements Stage 0 Enola Street to Ross Road, Evangeline Parish, LA (H.013460)</b>  <b>Project Manager.</b> Kristen served as project manager for a <b>Stage 0</b> 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. Kristen was the 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. She 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.</p>
04/19 - 6/21	<p><b>LA 117 Improvements Stage 0 (Vernon and Natchitoches Parishes, LA (H.013817.1))</b>  <b>Project Engineer.</b> Kristen served as project engineer responsible for a <b>Stage 0</b> 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, CATScan quality assurance, HSM existing safety analysis, and No-Build Analysis. Kristen designed high-level concept exhibits, <b>evaluated environmental impacts</b>, and prepared high level cost estimates and 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.</p>
03/19 - 11/19	<p><b>LA 429 Connector Stage 0, Ascension Parish, LA (H.012311)</b>  <b>Task Leader.</b> 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 <b>Stage 0 Report</b>. Kristen served as the civil engineer responsible for designing high level concept exhibits and comparison matrix to determine the best preliminary alternatives moving forward to meet the purpose and need of the project. She compiled meeting agenda materials and minutes, coordinated with <b>interchange study</b> consultants for a cohesive project, and wrote report.</p>
11/18 - 3/21	<p><b>LA 3040 Feasibility/Safety Study Stage 0, Houma, LA (H.013322)</b>  <b>Project Engineer.</b> 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 <b>compiling a data collection plan</b> for submittal to <b>DOTD</b>, including count locations, determined peak periods, and peak hours. Kristen performed peak period observations in the field and geometric field checks, as well as <b>unmet demand observations and calculations</b>. Kristen prepared TMC figures, as well as performed existing analysis in Vistro. She 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.</p>
04/18 - 04/19	<p><b>I-49 at US 190 and LA 31 Interchange Improvements Stage 0, St. Landry Parish, LA (H.011243.1)</b>  <b>Project Engineer.</b> Kristen was the project engineer responsible for <b>crash and safety analysis</b>, report writing, planning, and designing for this <b>Stage 0 Study</b> 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 CATScan 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 <b>safety and operations</b> given limited <b>right-of-way and utility conflicts</b> along the corridors.</p>





## Section 17

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I-220/I-20 Interchange Improvements & BAFB Access Design Build  
Bossier Parish  
H.003370

Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)  
Lead Road Design Firm

Past Performance Disciplines performed by Waggoner:  
Road, Traffic, Environmental, Other(Alternative Delivery), Other(SUE)

## 17. FIRM EXPERIENCE:

Firm Name	Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)		
Project Name	LA 73: US 61 (Airline Highway) - LA 426 (Essen Lane)	Past Performance Evaluation Category(ies)*	Road, Traffic
		Firm Responsibility	Prime
Project Number	H.010652	Owner's Name	LADOTD
Project Location	East Baton Rouge Parish, LA	Owners Project Manager	Ryan Felder, PE
Owners Address, Phone, Email	PO Box 94245, Baton Rouge, LA 70804   225.379.1366   ryan.felder@la.gov		
Services Commenced by this Firm (mm/yy)	08/21	Total Consultant Contract Cost (\$1,000's)	\$485.1
Services Completed by this Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by this Firm (\$1,000's)	\$383.2

### Project Description:

Waggoner (formerly Sigma) was contracted by LADOTD to provide the engineering for the development of preliminary and final plans to fully reconstruct existing LA 73, including complete pavement and base removal and replacement, curbs and gutters, and sidewalks from Airline Highway to the I-12 on-ramp near Drusilla Lane, and for **concrete pavement patching and repair of damaged curbs and sidewalks** from the I-12 on-ramp to Essen Lane. This plan development consists of all engineering services including a summary of estimated quantities and cost estimates for the approximate 2.3-mile roadway.

Waggoner completed the final construction plans with **emphasis on the suggested sequence of construction** to minimize impacts to the motoring public on the major arterial.

### Plan Development

- Road design
- Drainage evaluation
- Utility coordination
- MOT construction sequence
- Signing and striping



### Project Relevance:

- ✓ Project Management
- ✓ Road Design
- ✓ Drainage Evaluation
- ✓ Utility Coordination
- ✓ Comment & Response Logs
- ✓ Electronic Plan Development
- ✓ Preliminary & Final Road Plans
- ✓ Traffic Management Plan
- ✓ Construction Support



### Team Members Involved:

Robert Lear, Miles Williams, Bryan Harmon, Joshua Renard





## 17. FIRM EXPERIENCE:

Firm Name	Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)				
Project Name	US 171: J-turns at North Perkins Ferry	Past Performance Evaluation Category(ies)*		Road, Survey, Right-of-Way	
		Firm Responsibility	Prime		
Project Number	H.01097	Owner's Name	LADOTD		
Project Location	Calcasieu Parish, LA	Owners Project Manager	Trey Jesclard, PE		
Owners Address, Phone, Email		PO Box 94245, Baton Rouge, LA 70806   225.379.1445   trey.jesclard@la.gov			
Services Commenced by this Firm (mm/yy)	09/13	Total Consultant Contract Cost (\$1,000's)		\$145.4	
Services Completed by this Firm (mm/yy)	10/15	Cost of Consultant Services Provided by this Firm (\$1,000's)		\$145.4	

### Project Description:

This project is a safety project issued as a **task order** under our Safety Retainer contract with LADOTD. The project included full **topographic surveying and road design** to install new J-turns and associated turn lanes at the intersection of North Perkins Ferry Road and US Highway 171 north of Lake Charles, LA. This project was part of a multi-bridge replacement contract covering **District 62** created under the Infrastructure & Jobs Act of 2021.

The project included the following features:

- Addition of a right-turn lane on North Perkins Ferry Road eastbound to US 171
- Modifications to the existing median opening to only allow left-turn movements from US 171 northbound onto North Perkins Ferry Road westbound
- Addition of a left-turn lane on US 171 southbound and median opening 1450 feet south of the intersection for the J-turn, and shoulder improvements to US 171 northbound to accommodate the U-turn turning movement
- Addition of a turn-lane on US 171 southbound 1500 feet north of the intersection and a single-lane ramp to tie back into North Perkins Ferry Road westbound

Waggoner (formerly Sigma) coordinated with the **DOTD District 07** Utility Coordinator and utility owners to ensure proper depiction of existing utilities.

### Topographic Survey/Property Survey and ROW Maps

- GPS control sketch
- **Utility coordination:** QL-D and QL-C
- Topo mapping with INROADS survey
- **Property survey**
- Title research reports
- **ROW maps**

### Road Design (Preliminary and Final Plans)

- Horizontal and vertical geometry
- Typical sections
- Geometric details
- Plan/profiles
- Drainage design
- Cross sections
- Permanent pavement markings
- Construction sequencing
- DOTD electronic plans deliverables and CADconform

### Project Relevance:

- ✓ Project Management
- ✓ Road Design
- ✓ Drainage Evaluation
- ✓ Utility Coordination
- ✓ Comment & Response Logs
- ✓ Electronic Plan Development
- ✓ Preliminary & Final Road Plans
- ✓ Traffic Management Plan
- ✓ Topographic Survey
- ✓ Property Survey
- ✓ Right-of-Way Map
- ✓ Construction Support



### Team Members Involved:

Robert Lear, Miles Williams



## 17. FIRM EXPERIENCE:

Firm Name	Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)		
Project Name	I-10: LA 415 to Essen Lane on I-10 and I-12 CMAR	Past Performance Evaluation Category(ies)*	Road, Traffic
		Firm Responsibility	Subconsultant
Project Number	H.004100	Owner's Name	LADOTD
Project Location	East Baton Rouge & West Baton Rouge Parishes	Owners Project Manager	Nick Olivier, PE
Owners Address, Phone, Email	PO Box 94245, Baton Rouge, LA 70806   225.379.1133   Nicholas.Olivier@la.gov		
Services Commenced by this Firm (mm/yy)	10/20	Total Consultant Contract Cost (\$1,000's)	\$29,583
Services Completed by this Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by this Firm (\$1,000's)	\$4,170

### Project Description:

Waggoner (formerly Sigma) is the lead **roadway design** team member for this transformational transportation improvement for the Capital Region. It is being delivered in an accelerated time frame by an alternative delivery CMAR process. Our primary responsibility includes geometrics and **road design** for the frontage roads, ramps, and local roadway upgrades. We are also responsible for the **drainage design** for the entire project, which includes subsurface and open ditch systems.

The road design components include typical sections, plan profiles, drainage plan profiles, geometric layouts, geometric details, graphical grades, cross sections, complete streets pedestrian and bicycle facilities, **pay item and quantity computations**, and non-standard special provisions. Waggoner prepared all **design reports** for the project which included interstate, ramp, urban arterial, urban collector, local roads, and roundabout classifications. All associated **design waivers** and **design exception documentation** was also prepared by Waggoner. All plan development is being performed in accordance with DOTD **electronic delivery standards**.

**Traffic engineering** responsibilities include providing geometrics and alternatives for the IMR, complex urban and freeway geometrics, construction phasing, and **suggested sequence of construction/MOT**.

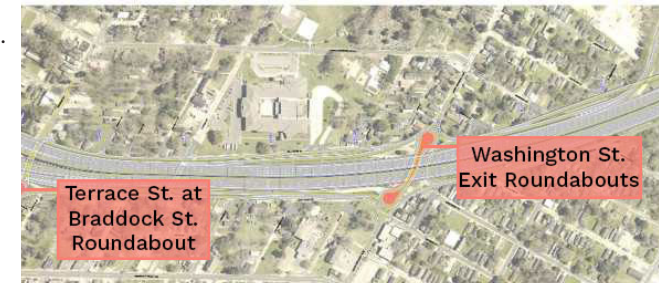
Waggoner also served as a subconsultant for the Environmental Assessment NEPA process. Waggoner was responsible for the line and grade study geometrics, interchange alternatives, community connections meetings, public meetings and workshops, researching and compiling as-built plans, constructability reviews, opinion of probable costs, and ROW limits.

Waggoner also prepared SUE and **utility relocation plans** to consolidate utilities into a major duct bank. The duct bank minimizes the need for multiple relocations during project phasing and is a significant cost savings. We participated in utility coordination with DOTD, **East Baton Rouge Parish**, and several utility companies.

**Construction support** includes shop drawings reviews, review and responses to RFIs, and review of contractor proposals made throughout the CMAR process.

### Project Relevance:

- ✓ Project Management
- ✓ Road Design
- ✓ Drainage Evaluation
- ✓ Utility Coordination
- ✓ Comment & Response Logs
- ✓ Electronic Plan Development
- ✓ Preliminary & Final Road Plans
- ✓ Right-of-Way Map
- ✓ Construction Support



### Team Members Involved:

Robert Lear, Miles Williams, Bryan Harmon, Alex Farr, Joshua Renard, Kelsie Bankston, Charlotte Gremillion, Jace Ricard





## 17. FIRM EXPERIENCE:

Firm Name	Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)		
Project Name	Hooper Road Widening (LA 408) Blackwater - Joor	Past Performance Evaluation Category(ies)*	Road, Traffic, Survey, Right-of-Way
		Firm Responsibility	
Project Number	H.002316	Owner's Name	East Baton Rouge Department of Transportation and Drainage
Project Location	East Baton Rouge Parish, LA	Owners Project Manager	Tom Stephens, PE
Owners Address, Phone, Email	222 Saint Louis Street, 8th Floor, Baton Rouge, LA 70802   225.389.3186   tstephens@brla.gov		
Services Commenced by this Firm (mm/yy)	10/12	Total Consultant Contract Cost (\$1,000's)	\$1,818
Services Completed by this Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by this Firm (\$1,000's)	\$1,111

### Project Description:

Waggoner was contracted by **East Baton Rouge Parish** Department of Transportation and Drainage, in cooperation with the FHWA and LADOTD, to provide NEPA environmental documentation, planning, **topographic and property surveying, ROW mapping, and preliminary and final plans** for this MOVEBR program project. Hooper Road is an existing two-lane rural roadway with steep open ditch drainage from Blackwater Road to Sullivan Road in suburban Central, LA. MoveBR is proposing capacity and **safety upgrades** to the corridor using a four-lane boulevard with **subsurface drainage, sidewalks, bike paths, and intersection improvements**.

A formal Environmental Assessment was prepared by Waggoner and a FONSI was granted by FHWA. Waggoner prepared preliminary and final roadway and drainage plans for this 2.2-mile-long corridor. The four-lane boulevard features a 16-foot-wide raised median, 11-foot lanes, a dedicated five-foot bike lane in both east-bound and west-bound directions, five foot sidewalks, and a new two-lane roundabout at the intersection of Hooper Road and Lovett Road. The sidewalks and pedestrian accommodations are **ADA compliant** and consistent with PROWAG guidelines. Turn lanes and R-CUT bulb outs were added to safely accommodate U-turn movements throughout the boulevard section.



The construction plans include the following:

- Typical sections
- Pay item quantities
- Roadway plan and profiles
- Drainage plan and profiles w/subsurface drainage systems
- Existing and design drainage maps
- Geometric layouts and details
- Pcc pavement joint layouts and graphical grades
- Suggested sequence of construction
- Pedestrian signal plans
- Permanent striping and signing layout
- Roadway lighting plans
- Utility relocation space allocation layouts
- Cross sections

The topographic and property surveys and ROW maps were prepared in accordance to DOTD location and survey standards and deliverables. The ROW maps were reviewed by location and survey since this is a state highway.

Waggoner also performed QL-D, QL-C, QL-B, and QL-A SUE services for the project. Test holes were performed at critical conflict points. A utility conflict matrix was prepared and updated throughout the design process.

As the prime consultant, Waggoner managed the project schedule, held and documented design meetings and status meetings with the client, and participated in cost risk assessments.

### Team Members Involved:

Robert Lear, Miles Williams, Alex Farr, Bryan Harmon, Joshua Renard, Kelsie Bankston, Jace Ricard

### Project Relevance:

- ✓ Project Management
- ✓ Road Design
- ✓ Drainage Evaluation
- ✓ Utility Coordination
- ✓ Comment & Response Logs
- ✓ Electronic Plan Development
- ✓ Preliminary & Final Road Plans
- ✓ Traffic Management Plan
- ✓ Topographic Survey
- ✓ Property Survey
- ✓ Right-of-Way Map
- ✓ Construction Support

## 17. FIRM EXPERIENCE:

Firm Name	Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)		
Project Name	Carroll Avenue over Middle Colyell Creek	Past Performance Evaluation Category(ies)*	Road, Survey, Right-of-Way
		Firm Responsibility	Prime
Project Number	H.015429	Owner's Name	LADOTD
Project Location	Livingston Parish, LA	Owners Project Manager	Ryan Rodney
Owners Address, Phone, Email	PO Box 94245, Baton Rouge, LA 70806   225.379.1308   ryan.rodney@la.gov		
Services Commenced by this Firm (mm/yy)	05/23	Total Consultant Contract Cost (\$1,000's)	\$200
Services Completed by this Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by this Firm (\$1,000's)	\$136

### Project Description:

Waggoner was contracted by DOTD to perform **topographic and property surveys, ROW maps, and preliminary and final plans** to replace an existing rail car bridge with a new slab span bridge.

### Part 1(a) TOPOGRAPHIC SURVEY

- **Control Survey**
  - Static GPS OPUS for two control points
  - RTK control traverse for 23 intersection locations
  - Digital levels
  - GPS control sketch
- **Topographic Survey**
  - Detailed topography of existing roadway, bridge, drives, utilities, and drainage features
  - QL-C utility locates for above ground visible features and paint markings from LA One Call Tickets
  - Total station conventional topography using DOTD location and survey code list and attributes
  - Microstation & Inroads Survey deliverables including 2D, 3D dgn files and dtm, fwd, and alg files
- **Property Survey/ROW Maps**
  - Locate property corners
  - Set existing ROW and property lines
  - Prepare ROW maps in accordance with DOTD Location and Survey requirements, including legal descriptions of required ROW

### PRELIMINARY & FINAL PLANS

- **Road & Drainage Design**
  - Prepare design reports, design waivers, and exceptions
  - Establish horizontal and vertical geometry
  - Calculate hydraulic impact of bridge replacement
  - Guardrail and embankment widening design
  - Typical sections
  - Plan profiles
  - Geometric details
  - Suggested sequence of construction
  - Cross sections
  - Quantities and opinion of probable construction costs
- **Bridge Design**
  - 4-Span slab span bridge
  - 16" prestressed concrete pile substructure design
  - Text boxchannel revetment
- **Quality Assurance/Quality Control**

### Project Relevance:

- ✓ Project Management
- ✓ Road Design
- ✓ Drainage Evaluation
- ✓ Utility Coordination
- ✓ Comment & Response Logs
- ✓ Electronic Plan Development
- ✓ Preliminary & Final Road Plans
- ✓ Topographic Survey
- ✓ Property Survey
- ✓ Right-of-Way Map

### Team Members Involved:

Jace Ricard (Survey Lead), Alex Farr, Robert Lear



## 17. FIRM EXPERIENCE:

Firm Name	Adaptive Management and Engineering, LLC		
Project Name	Proposed Pavement Expansion for the Highland Road at Siegen Lane/Burbank Drive Intersection	Past Performance Evaluation Category(ies)*	Geotech
		Firm Responsibility	Subconsultant
Project Number	20-CP-HC-0004	Owner's Name	City of Baton Rouge and Parish of East Baton Rouge
Project Location	Baton Rouge, LA	Owners Project Manager	Seneca Toussant, PE
Owners Address, Phone, Email	343 Third Street, Suite 511B   225-960-1160   stoussant@laterre-eng.com (Design Team Contact)		
Services Commenced by this Firm (mm/yy)	01/20	Total Consultant Contract Cost (\$1,000's)	N/A
Services Completed by this Firm (mm/yy)	03/22	Cost of Consultant Services Provided by this Firm (\$1,000's)	\$25

### Project Description:

The project consists of several options to increase turn lanes, increase storage lengths, and provide additional capacity through the Highland Road and Siegen Lane/Burbank Drive intersection. Michael McKinney coordinated and oversaw the field exploration for the project, which included eight soil borings and a hand auger. **Field exploration** was completed on the **existing pavement** by Michael, which required traffic control. Venu Tammineni provided pavement design recommendations for the proposed pavement expansions. Venu coordinated all aspects of the project including, but not limited to, preparation of the proposal for the project, discussion/coordination with the design team, obtaining a DOTD permit, executing a field exploration program, assigning **laboratory tests**, performing **pavement analyses**, and preparing the geotechnical report that has been reviewed and accepted by the design team.

### Project Relevance:

- ✓ Field Exploration
- ✓ Soil Sampling
- ✓ Laboratory Testing

### Team Members Involved:

Venu Tammineni, Michael McKinney



**17. FIRM EXPERIENCE:**

Firm Name	Adaptive Management and Engineering, LLC		
Project Name	Patterson 2022 Street Improvements	Past Performance Evaluation Category(ies)*	Geotech
		Firm Responsibility	Subconsultant
Project Number	N/A	Owner's Name	City of Patterson
Project Location	St. Mary Parish, LA	Owners Project Manager	Gary Leonards, PE
Owners Address, Phone, Email	1297 St. Charles Street, Suite H, Houma, LA 70360   985-876-6380   GaryLeonards@ProvidenceEng.com		
Services Commenced by this Firm (mm/yy)	03/22	Total Consultant Contract Cost (\$1,000's)	N/A
Services Completed by this Firm (mm/yy)	04/22	Cost of Consultant Services Provided by this Firm (\$1,000's)	\$8

**Project Description:**

The City of Patterson is conducting roadway improvements for selected roads throughout the city. The roadway surfaces are currently asphalt or crushed limestone wearing surface, with an aggregate and sand base layer present in some locations. The asphalt surface layer has degraded in multiple locations, exposing the crushed limestone base. AME performed eight **soil borings** on the **existing roadways** in support of a new pavement design. The **field explorations** were coordinated and overseen by Ryan Williamson and Michael McKinney. A full suite of laboratory testing was performed on the **thin-walled tube samples**. Justin Ator oversaw and performed QA/QC on all laboratory testing, and **generated soil boring logs** for the project. Engineering design and reporting was overseen by Venu Tammineni and Gregory Mattson.

**Project Relevance:**

- ✓ Field Exploration
- ✓ Soil Sampling
- ✓ Laboratory Testing

**Team Members Involved:**

Venu Tammineni, Gregory Mattson, Ryan Williamson, Michael McKinney





**17. FIRM EXPERIENCE:**

Firm Name	Adaptive Management and Engineering, LLC			
Project Name	Various Projects as Sub on LADOTD IDIQ for Geotechnical Services	Past Performance Evaluation Category(ies)*		Geotech
		Firm Responsibility	Subconsultant	
Project Number	N/A	Owner's Name	LADOTD	
Project Location	Various	Owners Project Manager	Jessee Rauser, PE	
Owners Address, Phone, Email		PO Box 94245, Baton Rouge, LA 70806   225.379.1312   jesse.rauser@la.gov		
Services Commenced by this Firm (mm/yy)	Various	Total Consultant Contract Cost (\$1,000's)		N/A
Services Completed by this Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by this Firm (\$1,000's)		\$48

**Project Description:**

AME is a subconsultant to ECS, GeoEngineers, and Eustis on their five-year **Geotechnical Statewide IDIQ** contract with the State of Louisiana. AME has received **testing** or has assisted with proposals on the following projects listed below:

- LA 394 and LA 110 Creek Bridges (Completed - \$4,358)
- LA 1 Port Allen Canal (Completed - \$12,270)
- Savanne Road over Hanson Canal (Completed - \$6,616)
- H.014416-LA 3125 @ LA 3274 Roundabout (Proposed)
- H.014981-Hosston Road Over Kelly Bayou (Proposed)
- H.014989- Neff Lane Over Wind Creek (Proposed)
- H.001970-LA 561 Bridge Replacement over Boeuf River (Completed - \$25,000)

**Project Relevance:**

- ✓ Field Exploration
- ✓ Soil Sampling
- ✓ Laboratory Testing

Geotechnical Laboratory Testing

- **Sample extrusions and storage**
- **Standard Classification of Soils in general accordance with ASTM International (ASTM) D2488**
- Gradation of soils (ASTM D422)
- Moisture content determination (ASTM D2216)
- Atterberg limits determination (ASTM D4318)
- Compressive strength determination (ASTM D2166/D2850)
- Consolidation test with rebound (ASTM D2435)
- Specific gravity (ASTM D792)
- QA/QC of laboratory data - Performed by Justin Ator
- Laboratory summary of results - Checked by Venu Tammineni, Gregory Mattson, and Ryan Williamson

**Team Members Involved:**

Venu Tammineni, Gregory Mattson, Ryan Williamson, Justin Ator



## 17. FIRM EXPERIENCE:

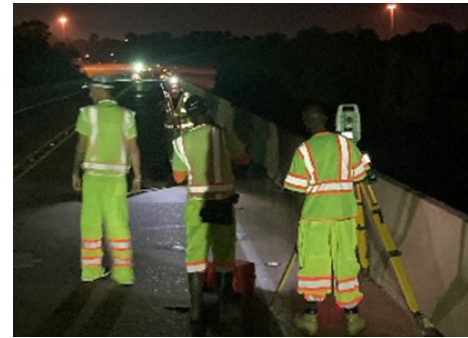
Firm Name	NTB Associates, Inc.			
Project Name	Jimmie Davis Bridge (LA 511) Design-Build	Past Performance Evaluation Category(ies)*		Survey, Right-of-Way
		Firm Responsibility	Subconsultant	
Project Number	H.001779	Owner's Name	James Construction/ Huval & Associates, Inc.	
Project Location	Bossier & Caddo Parishes, LA	Owners Project Manager	Aaron Dupont	
Owners Address, Phone, Email		18484 E. Petroleum Drive, Baton Rouge, LA 70809   225.442.6362   adupont@prim.com		
Services Commenced by this Firm (mm/yy)	01/22	Total Consultant Contract Cost (\$1,000's)		\$1,140
Services Completed by this Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by this Firm (\$1,000's)		\$1,140

### Project Description:

NTBA is performing static **GPS control, topographic and property surveying services, traffic control, utility coordination services**, QL A, B, C, & D utility designating/locating, as well as preparing **title takeoffs, 60% ROW maps, final ROW maps**, and legal descriptions for the design-build project to replace the Jimmy Davis Bridge across the Red River. The scope of this project consists of constructing a new four-lane structure carrying LA 511 across the Red River, converting LA 511 (Jimmie Davis Highway) into a four-lane, median-divided highway on the east side of bridge; as well as providing full access interchanges between LA 511 and Clyde Fant Memorial Parkway and Arthur Ray Teague Parkway. NTBA designed and implemented a traffic control plan for a bridge closure to verify the **horizontal and vertical control** set by LADOTD during the original survey and verified the vertical control for both sides by running digital levels across the bridge, which was not performed in the original survey. All of this was completed during night shifts to ensure the safety of employees and the public as well as to avoid traffic disruptions.

NTBA performed **property surveys** and **title takeoffs** for approximately 50 properties adjacent to the route and a property survey submittal prepared with apparent ROW shown. **Final Mylar ROW maps** have been submitted for 21 parcels requiring ROW taking. The set included 21 plans sheets and one title sheet.

NTBA performed **SUE services** to designate all utilities within the project limits. A **conflict matrix** was created showing the utilities in conflict with the construction. NTBA is coordinating with the utility owners to relocate utilities that conflict with the construction and will monitor the relocation to ensure compliance with relocation plans. NTBA is **utilizing the Louisiana Department of Transportation Survey and Design Manual Addendum A** as well as CI/ASCE Standard 38-02.



### Project Relevance:

- ✓ Topographic Survey
- ✓ Title Takeoffs
- ✓ Property Survey
- ✓ Right-of-Way Maps
- ✓ SUE Services
- ✓ SUE & Utility Relocation



### Team Members Involved:

Paul Rossini, Mike King, Grant Gilleon, Bryan Bunch, Patrick Staiano, John King

## 17. FIRM EXPERIENCE:

Firm Name	NTB Associates, Inc.		
Project Name	I-20: Monkhouse to I-49, Route I-20	Past Performance Evaluation Category(ies)*	Survey
		Firm Responsibility	
Project Number	4400017713/ H.010468.5	Owner's Name	LADOTD Baton Rouge
Project Location	Caddo Parish, LA	Owners Project Manager	Mr. Barrett Smith, PLS
Owners Address, Phone, Email	1201 Capitol Access Road, Baton Rouge, LA 70802 (225) 379-1133 barrett.smith@la.gov		
Services Commenced by this Firm (mm/yy)	04/22	Total Consultant Contract Cost (\$1,000's)	\$1,355
Services Completed by this Firm (mm/yy)	04/23	Cost of Consultant Services Provided by this Firm (\$1,000's)	\$1,355

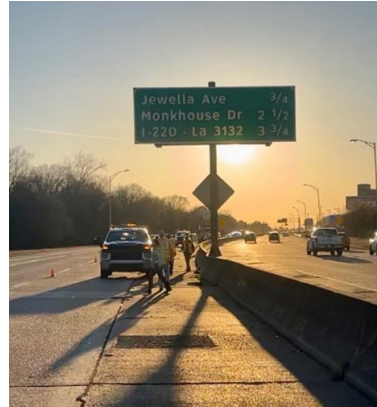
### Project Description:

NTBA performed **static GPS control, topographic surveying services** utilizing RTK and conventional surveying and HDS 3D Terrestrial Laser Scanning, traffic control, and QL-C and QL-D **subsurface utility investigation for interstate rehabilitation**. NTBA also prepared a drainage map. This project was one of the largest topographic surveys NTBA has ever been a part of. It consisted of 4.89 miles of interstate, 2.35 miles of side streets, and a drainage area of approximately 990 acres. Surveys and **utility investigations** were performed along I-20 beginning approximately 4,200 feet southwest of the intersection of Monkhouse Drive and I-20 and proceed in a northeasterly direction along I-20 ending at the westerly end of the I-20/I-49 interchange. Areas included Monkhouse Drive, Jewella Avenue, Hearne Avenue, Greenwood Road, Texas Avenue, and Lakeshore Drive.

NTBA managed our subconsultant, E.S.P. Associates, P.A., for Mobile Laser Scanning Services of hard surfaces along the route. NTBA performed **data extraction** of mobile scan data for incorporation into Inroads and for Point Cloud delivery. LADOTD's project schedule had an allowable duration of 365 days, but NTBA completed in 359 days with one minor comment. This effort took 3,999 field crew hours, 3,448 CADD hours, and 2,250 PLS hours. There were over 70,000 points for the topographic survey and over 1,500 drainage structures surveyed for the drainage map. The areas included major thoroughfares, surface streets, **railroad rights-of-way**, and drainage canals. MicroStation files were the deliverable for the project. All services completed in accordance with the **Location and Survey Manual** and all currently accepted Location and Survey Automated procedures.

### Project Relevance:

- ✓ Topographic Survey
- ✓ Utility Investigations



### Team Members Involved:

Bryan Bunch, Grant Gilleon, Mike King, Patrick Staiano



## 17. FIRM EXPERIENCE:

Firm Name	NTB Associates, Inc.				
Project Name	Walter O. Bigby Carriageway (N. Parkway Ext.)	Past Performance Evaluation Category(ies)*		Survey, Right-of-Way	
		Firm Responsibility	Prime		
Project Number	City Proj. No. 8-15	Owner's Name	City of Bossier City		
Project Location	Bossier Parish, LA	Owners Project Manager	Mark B. Hudson, PE		
Owners Address, Phone, Email		PO Box 5337, Bossier City, LA 71171   318.465.5801  engineering@bossiercity.org			
Services Commenced by this Firm (mm/yy)	05/15	Total Consultant Contract Cost (\$1,000's)		\$4,900.6	
Services Completed by this Firm (mm/yy)	Ongoing	Cost of Consultant Services Provided by this Firm (\$1,000's)		\$1,313.3	

### Project Description:

NTBA provided **control, topographic, property**, and bathymetric surveying services, QL A, B, C, and D subsurface utility designation/locating, as well as **surveys in support of subsurface utility engineering (SUE), ROW acquisition plats/maps**, and legal description preparation for approximately two miles of roadway ROW for a parkway facility design featuring new roads, additional lanes, roundabouts, and a bridge in Bossier City, LA. Bathymetric surveying services were performed to accurately determine the river bottom and channel location in association with the design of a new storm water outfall into the river and separate bathymetric surveying services in support of a levee seepage analysis required by the United States Army Corps of Engineers (USACE). NTBA is also responsible for the environmental assessment, public hearings, and conceptual design as well as currently performing construction management support services. This project is being completed in accordance with the Louisiana Location and Survey Manual, CI/ASCE Standard 38-02, and City of Bossier standards.

The project contains two multi-lane traffic circles with an estimated construction cost of \$42.3 million. The area included a major thoroughfare, local streets, riverbanks, levee crossings, and railroad ROWs. This project consists of the design of the Walter O. Bigby Carriageway from north of Eatman Street to Benton Road, Walter O. Bigby follows an **existing roadway** for a portion of the alignment, then continues northward on new alignment between the Red River Levee and Union Pacific Railroad, crosses existing Union Pacific Railroad tracks with a bridge structure and connects to Benton Road at a new signalized intersection. Total project length includes approximately 5,300 feet of **reconstructed city streets** and 3,600 feet of new four-lane streets, which includes a 1,470-foot bridge structure.

### Project Relevance:

- ✓ Topographic Survey
- ✓ Title Takeoffs
- ✓ Property Survey
- ✓ Right-of-Way Maps
- ✓ SUE Services



### Team Members Involved:

Bryan Bunch, Grant Gilleon, Mike King



## 17. FIRM EXPERIENCE:

Firm Name	Vectura Consulting Services, LLC				
Project Name	I-10 ITS Scott to Lake Charles	Past Performance Evaluation Category(ies)*		Traffic	
		Firm Responsibility	Subconsultant		
Project Number	H.013256.5	Owner's Name	LADOTD		
Project Location	I-10 (District 07)	Owners Project Manager	Roy Esteven, PE		
Owners Address, Phone, Email		1201 Capitol Access Road, Baton Rouge, LA 70802   225.379.2527   Roy.Esteven@LA.gov			
Services Commenced by this Firm (mm/yy)	01/21	Total Consultant Contract Cost (\$1,000's)		Unknown	
Services Completed by this Firm (mm/yy)	03/21	Cost of Consultant Services Provided by this Firm (\$1,000's)		\$20.162	

### Project Description:

Vectura performed a **Level 2 Traffic Management Plan (TMP)** for the construction of ITS equipment along I-10. The plan included the following activities:

- Safety strategy that included a CATScan
- LOS determination utilizing Citrix data
- **Lane closure recommendations based on a queue analysis**
- Cost estimate
- Public information strategies

### Project Relevance:

- ✓ Transportation Management Plan (TMP)
- ✓ Traffic Systems Management (TSM)

Applicable for this project (Required (✓))	Level 2 TMP Components	Stage 0	Stage 1	Stage 3		Workflow Notes
				Preliminary	Final	
				60% Submittal	90% Submittal	
	<b>Analysis</b>			<b>Percent Complete</b>		
	• Detour Analysis	100%				①
	• Queue Analysis according to EDSMVI.1.1.4	100%				①
	<b>Documentation</b>			<b>Percent Complete</b>		
✓	• TTC Details			50%	100%	②
	• TTC Plan (based on type and location of construction)			50%	100%	②
	• Mitigation (if the current roadway is LOS F)	60%	100%			④
	• Mitigation (if the roadway is on the Abnormal Crash Location list)	60%	100%			④
	• Evacuation Strategy (if used as an evacuation route)	100%				④
	• Work Restrictions	20%	50%	70%	100%	④
✓	• Basic Public Information release at the District level			60%	100%	⑧

### Team Members Involved:

Laurence Lambert, Brin Ferlito, Reece Rodrigue, Kristen Farrington (100% performed in Louisiana)

## 17. FIRM EXPERIENCE:

Firm Name	Vectura			
Project Name	Belle Chasse Bridge and Tunnel Replacement PPP	Past Performance Evaluation Category(ies)*		Traffic
		Firm Responsibility	Subconsultant	
Project Number	H.004791	Owner's Name	LADOTD	
Project Location	Belle Chasse, LA	Owners Project Manager	Nicholas Olivier, PE	
Owners Address, Phone, Email		1201 Capitol Access Road, Baton Rouge, LA 70802   225.379.1133   Nicholas.olivier@la.gov		
Services Commenced by this Firm (mm/yy)	04/19	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)		\$211.89

### Project Description:

Vectura is providing the **traffic engineering services** for the Belle Chasse Bridge and Tunnel Replacement Project for improvements along LA 23. Vectura is responsible for the following tasks:

- Preliminary and final traffic studies
- **Temporary and final traffic signal plans**
- **Assist the Prime with Traffic Management Plan (TMP)**
- Response to request for information (RFI's)
- As-built plans for the traffic signals

### Project Relevance:

- ✓ Transportation Management Plan (TMP)
- ✓ Traffic Systems Management (TSM)



### Team Members Involved:

Brin Ferlito, Laurence Lambert, Reece Rodrigue (100% performed in Louisiana)

## 17. FIRM EXPERIENCE:

Firm Name	Vectura			
Project Name	I-20: LA 544 Overpass Replacement	Past Performance Evaluation Category(ies)*		Traffic
		Firm Responsibility	Subconsultant	
Project Number	H.010616	Owner's Name	LADOTD	
Project Location	Baton Rouge, LA	Owners Project Manager	Jacob Fusilier	
Owners 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)	04/23	Total Consultant Contract Cost (\$1,000's)	Unknown	
Services Completed by this Firm (mm/yy)	10/23	Cost of Consultant Services Provided by this Firm (\$1,000's)	\$131.973	

### Project Description:

Vectura performed a **Level 2 Traffic Management Plan (TMP)** that included the following activities:

- Preliminary and final traffic studies
- Temporary and final **traffic signal plans**
- Traffic Management Plan (TMP)
  - Safety strategy that included a CATScan
  - LOS determination utilizing Citrix data
  - **Lane closure recommendations based on a queue analysis**
  - Cost estimate
  - Public information strategies

### Project Relevance:

- ✓ Transportation Management Plan (TMP)
- ✓ Traffic Systems Management (TSM)



### Team Members Involved:

Laurence Lambert, Brin Ferlito, Reece Rodrigue, Kristen Farrington (100% performed in Louisiana)





## Section 18

LA 73: US 61 (Airline Highway) - LA 426 (Essen Lane)  
H.010652

Waggoner Engineering, Inc. (formerly Sigma Consulting Group, Inc.)  
Lead Road Design Firm

Past Performance Disciplines performed by Waggoner:  
Road, Traffic

**(Section 17 Featured Project)**



## 18. APPROACH AND METHODOLOGY:

### THE WAGGONER TEAM

Having a trusted consultant with DOTD experience readily accessible can make all the difference for your project's success. Waggoner has partnered with Adaptive Management Engineering, LLC (AME), Vectura Consulting Services, LLC (Vectura), and NTB Associates, Inc. (NTBA) to form a team with a proven track record of successful project delivery. The Waggoner team members have a history of working together and are fully committed to delivering quality services needed for this project. Both AME and Vectura are disadvantaged business enterprise (DBE) firms with relevant project experience.

Our project manager, Robert Lear, PE, LSI, will leverage his expertise to guarantee that each task order aligns with DOTD's goals. He will do this by maintaining consistent and effective communication with the entire team throughout the project's duration.

Quality control is crucial for project success. Waggoner employs a rigorous quality control process that will be implemented throughout the contract duration. Every submittal will be reviewed for both technical accuracy and relevant content. A copy of our quality control procedures will be submitted to DOTD upon selection.

### IDIQ BACKGROUND AND UNDERSTANDING

The Waggoner team understands the value of the IDIQ Contract, enabling early engagement and design services for time-sensitive projects. We are familiar with the types of projects that may be assigned, such as drainage, turn lanes, pavement rehab, guardrails, intersections, and signalization.

**The Waggoner team successfully delivered projects to DOTD, covering all services listed in Attachment A of the advertisement.** Additionally, Waggoner (formerly Sigma) held multiple IDIQ/retainer contracts for various DOTD programs including Roadway Projects (44-2747), Roadway Design Services (44-19010), Highway Safety (44-2710), SUE Services (44-19183 and 44-25512), and Bridge Preservation (44-0634). **Notably, we have successfully worked on numerous DOTD projects in Districts 02, 03, 07, 61, and 62, including a 16-project Rural Bridge Replacement contract within these same districts. Our prior work with District personnel on roadway and pavement projects has provided our team with valuable insight and a clear understanding of the preferences and specific considerations that will be expected for task orders under this contract.**

Waggoner understands the contracting elements in the advertisement, including the secondary selection process as outlined in Attachment C. Our goal is to provide DOTD with an experienced engineering team capable of delivering all services under this IDIQ, including:

- Topographic Surveys
- Property Surveys, ROW Maps, and Title Takeoffs
- Geotechnical Exploration and Testing
- Traffic Systems Management (Traffic Control and Traffic Signal Design)

- Roadway Design and Highway Safety Analysis/Design
- Hydraulic Analysis and Design
- Plan Preparation and Construction Cost Estimates

### APPROACH AND KEYS TO SUCCESS

Waggoner's approach to this IDIQ contract comes from experience with DOTD projects and emphasizes strong communication and collaboration. We believe the following elements are key to successfully delivering these projects:

**Assemble A Highly Qualified and Experienced Design Team:** The Waggoner team members have a long-standing history of successfully delivering DOTD projects. In addition, we have a history of successful collaboration.

**Swift Execution of Task Orders:** Our team will coordinate closely with the DOTD project manager to identify opportunities for early coordination, minimizing response times and ensuring all task orders are completed on or ahead of schedule. The goal is to complete all task orders on or ahead of schedule.

**Define Expectations Early:** Effective communication is essential for success. We will actively engage with all stakeholders, including the DOTD District, permitting agencies, utilities, and railroads, to understand and address their expectations. The Waggoner team is committed to meeting or exceeding these expectations during task order negotiations, scoping, and schedule development. We will document these discussions and apply them consistently throughout the contract.

**Establish Communication Protocols and Documentation:** As part of our Project Management Plan (PMP), we will establish a communication matrix identifying key team members, assignments, and responsibilities. All major meetings and discussions will be documented. All submittal reviews, comments, and decisions will be documented. Waggoner has adopted DOTD's Form DR as our standard for documenting all submittal review comments and responses. This form originated in the design-build process and has a proven track record for effectively addressing and resolving comments.

**Diligent Project Management:** The Waggoner team's project manager, Robbie Lear, will actively work the project schedule, monitor the budget, and forwardly orchestrate the design team to meet the project goals for each task order.

**Site Visits:** There is no substitute for seeing existing conditions firsthand to grasp the full scope and details needed for a successful design project. For each TO, all key personnel will visit the site to gain a firsthand understanding of the landscape, constraints, and existing conditions of the project corridor.

**Quality Control:** Waggoner has a rigorous quality control process that will be incorporated throughout the contract. Every submittal will be reviewed for both technical accuracy and relevant content. A copy of our quality control procedures will be submitted to DOTD upon selection.



## METHODOLOGY

The DOTD project delivery manual (PDM) will serve as the backbone for our methodology. The Waggoner team will implement the systematic plan and principles identified in the PDM and will supplement these methodologies with procedures and directives outlined in the LADOTD Road Design Manual along with the **Pavement Preservation Manual and EDSM I.1.1.11. Minimum design will be annotated using the relevant guidelines established in Guidance for PRR Projects, 3R Minimum Design Guidelines, Pavement PRR Minimum Design Guidelines, and Minimum Design Guidelines, applicable to the issued task order.**

The following outline of services highlights the project development process Waggoner will follow for a typical task order issued under this IDIQ contract, altered as appropriate for tasks that deviate from this standard.

### TASK ORDER INITIATION

**Scope and Task Development:** Immediately after task order assignment, Waggoner will work with the DOTD project manager (PM) to develop the scope and items necessary to deliver the project. This includes defining the project purpose and need. We will work with the project manager to develop the blank manhour spreadsheet, sheet count, and conceptual delivery schedule. Any NEPA or Stage 0 requirements will be discussed, and a Stage 0 preliminary scope and budget checklist completed. This early coordination ensures that DOTD and Waggoner are on the same page regarding project goals, deliverables, and expectations. Once these items are established, independent manhour estimates will be completed for negotiated fee determination.

**Kick-Off Meeting and Work Planning:** Once a Notice to Proceed is issued, Waggoner and DOTD will hold a project kickoff meeting, preferably in person. The appropriate DOTD and Waggoner team members will walk through the task order/project scope, determine the dates for milestone deliverables, and estimate DOTD review periods at each milestone. The project design criteria, Stage 0 environmental constraints, and safety concerns will also be discussed and documented. Any DOTD provided services will be requested at this meeting. All project points of contact with contact information will be collected and minutes of the meeting will be distributed to all pertinent personnel.

**Field Visit:** Waggoner will conduct field visits within the project limits to better understand the site and identify potential issues that could impact construction or design. Key areas of interest typically include utility conflicts, existing drainage structures, visible drainage problems, geometric concerns, pavement condition, and details of existing pedestrian facilities.

### SURVEYING SERVICES

Patrick Staiano, PLS (NTBA) and Jace Ricard, PLS (Waggoner) lead our surveying team. They understand the processes and delivery requirements as outlined in the DOTD Location & Survey Manual (Oct. 2023) and Addendum A (March 2024). **All work and deliverables will adhere to the procedures outlined in EDSM I.1.1.11, with all required roadway, bridge, drainage structures, guardrails, utilities, and traffic information detailed as such.**

**Topographic Surveys:** All surveys begin with control surveys. Horizontal and vertical precisions and control standards will meet or exceed DOTD requirements and the appropriate datums, projections, and geoids will be defined. Control sketches will be approved by DOTD prior to commencement of surveys. Data collection will utilize RTK, robotic total stations, or 3D LiDAR terrestrial scanning methods depending on terrain, to ensure proper accuracy. Digital levels are used to establish vertical control at temporary benchmarks (TBMs). The DOTD Feature Code Guide Book will be used to code all data and attributes. As part of the standard topographic survey, all drainage structures within the design limits will be surveyed for their location, type, size, and inverts. Additionally, existing roadside features like driveways, mailboxes, and above-ground utilities will be identified and inventoried.

**Utility Conflict Matrices:** Waggoner prepares utility conflict matrices to guide the utility coordination process. These matrices help identify conflict points, recommend appropriate locate methods, and determine the final resolution of conflicts.

**Right-of-Way Maps and Title Work:** Once the final alignments are established, we will begin to obtain title reports, (if not provided by DOTD), for the affected properties for inclusion in the ROW maps. We will begin the base ROW maps according to DOTD standards, with final ROW maps produced within 45 days of authorization to proceed, typically after the joint plan review (JPR) meeting. All ROW mapping, title takeoffs, title reports, and property surveying will comply with DOTD standards.

### GEOTECHNICAL SERVICES

AME, a DBE geotechnical firm based in Baton Rouge, will handle all geotechnical investigations and testing for this contract.

**Geotechnical Field Investigations & Analysis:** The team will perform a desktop study to obtain the data available in the region through various available resources and evaluate the boring locations and depths with the PM. At a minimum, sampling locations and reporting shall be in accordance with **EDSM I.1.1.11**. Location plans shall be approved by the PM and district laboratory engineer and the team will initiate obtaining permits. AME has extensive experience obtaining CUPs, Levee Board permits, and letters of no objection (LONOs) from United States Army Corps of Engineers (USACE), Louisiana Department of Environmental and Natural Resources (LADENR), Coastal Protection and Restoration Authority (CPRA), and other local, parish, state, and federal agencies.

After receiving the necessary permits, the team will prepare a geotechnical investigation plan, traffic control plan, make a site reconnaissance visit, mark the boring locations in the field and perform a Louisiana One-Call to obtain clear known utilities. The drilling crews will mobilize to the site after all soil boring locations have been cleared and access routes checked. AME will have a field representative logging the field explorations, observing in-situ testing, and developing a daily field report, field boring logs, and site photos for submittal. Soil samples will be obtained using a thin-walled tube sampler or a standard penetration test (SPT) sampler. The soil borings will be transported

(ASTM D4220 standards) to **AME's AASHTO accredited laboratories**. The thickness of the existing pavement will be noted in places where soil borings will be completed and in additional locations mentioned by the engineer.

**Laboratory Services:** A field representative will complete a chain-of-custody form before delivering the samples to the geotechnical laboratory. Laboratory supervisor will maintain the field logs and extrude any soil samples that are left in the tubes. At a minimum, the locations shall be in accordance with EDSM II.2.1.6. The PMs will be kept up to date with the project status on a regular basis. AME's Baton Rouge lab is **accredited by the Louisiana Environmental Laboratory Accreditation Program (LELAP) through the Louisiana Department of Environment Quality (LDEQ)**.

### ROADWAY DESIGN & HYDRAULIC ENGINEERING SERVICES

Alex Farr, PE (Waggoner) will lead our roadway design and hydraulic engineering team and will be involved in projects requiring these services.

**Hydraulic Analysis and Design:** DOTD's HydroWin software and DOTD's Hydraulics Manual will be the primary tools for hydraulic design on typical preservation projects. Waggoner will perform any necessary analysis to provide sufficient design drainage along the roadway and adjacent areas to ensure proper management of stormwater.

**Project Design Criteria:** The guidance for preservation/rehabilitation/replacement (PRR) projects will serve as the basis for all anticipated pavement projects. Waggoner will prepare the applicable PRR Report Form to document proposed features along with supporting discussions for identified design waivers or design exceptions. The draft report will be submitted with the 60% Preliminary Plans submittal to engage stakeholders and reviewers early in the project timeline. It is anticipated that design waivers and exceptions will often be needed on projects where work is contained within existing right-of-way.

**Roadway Design:** **Waggoner has extensive experience in developing design waivers and exceptions for DOTD projects.** We utilize MicroStation, InRoads/ OpenRoads, and CAD Conform to design and create roadway plans and calculations. We know DOTD's preliminary and final plan delivery requirements and milestones as shown in the Road Design Manual. The DOTD Road Design Manual, AASHTO Green Book 2018, Roadside Design Guide, DOTD Hydraulics Manual and accepted DOTD reference material will be used to guide the road design process. The following section further outlines the typical plan development forecast for the typical task order under this contract. We will also adapt to whatever delivery process is needed by DOTD to most effectively deliver the scope of the project, including letter sized plans, when appropriate.

Our team will develop any sketches or exhibits necessary to assist in obtaining required permits(s). Our team has experience preparing storm water pollution prevention plans (SWPPP) adhering to the guidelines of the National Pollution Discharge Elimination System (NPDES) general permit.

### PLAN DEVELOPMENT & LETTING SUPPORT SERVICES

The preliminary and final plan development process will typically follow the road design tasks for completion milestones chart shown as Figure 1-03 in the DOTD Road Design Manual. Milestone submittals will be made at the 30%, 60%, 90% and 100% preliminary plan (PP) stages and at the 60%, 95% and stamped/signed 98% Final Plan stages. We will request removing the 30% Preliminary Plan milestone and combining with the 60% PP milestone to save time on the project delivery. All submittals will include plans and associated calculations.

All required documentation such as review comments and responses, QA/QC certifications, constructability review forms, opinions of probable construction cost (OPCC), and calculations will be submitted with each appropriate delivery milestone. A final OPCC will accompany the final plan submittal, including all required special provisions and non-standard item specification write-ups.

#### Key Milestones:

- ✓ **Predesign Tasks** – Conduct project team site visits, initiate Stage 0 environmental checklist or NEPA requirements, begin control and topographic survey, initiate data collection for traffic (if needed); and initiate geotechnical field investigation
- ✓ **30% Preliminary Plans (PP)** – Prepare geometric design reports; establish typical sections and pavement design; and begin utility conflict matrix
- ✓ **60% PP** – Address comments from 30% PP submittal; establish horizontal and vertical geometry; design drainage and construction sequencing; prepare cross sections; initiate property survey; and establish apparent ROW
- ✓ **95% PP (Plan-In-Hand)** – Address all comments from previous submittals; review for constructability; finalize required ROW, and complete preliminary QA/QC checklist
- ✓ **100% PP** – Address comments from the plan-in-hand meeting; finalize property survey and base ROW maps; and create permit sketches

**NOTE:** We will not proceed to final plans until Environmental Clearance has been obtained.

- ✓ **60% Final Plans (FP)** – Finalize typical section, drainage design, and include quantities summary tables in the plans
- ✓ **Joint Plan Review** – Meet with location survey, finalize ROW maps
- ✓ **95% FP (Advance Check Prints)** – Address comments from the 60% FP review and JPR meeting; attend final plan review meeting with the project team; conduct final QA/QC checks; and complete final pavement preservation constructability/biddability review documents
- ✓ **98% FP** – Address comments from the final plan review meeting; prepare full-sized sealed plans, final calculations, files, special provisions, and final construction cost estimate for submission to DOTD
- ✓ **100% FP** – Complete all final plans, specifications, and estimates; transmit plans to general files; and set the letting date



**Letting Support Services:** Once the project has been advertised for bids, our team will be on hand to provide responses to contractor questions submitted via the Falcon/WebSuite online site. If any questions result in the need for plan revisions, we will update the affected sheet(s) in accordance with EDSM No. I.1.1.28 - Procedures for final plan transmittal and final plan modifications, including plan revisions and/or plan changes resulting from change orders. Waggoner understands the time-sensitivity of these responses and will strive to provide quick, yet thorough replies once we are made aware of any new inquiry.

### OPINION OF PROBABLE CONSTRUCTION COSTS, PAY ITEMS, AND QUANTITIES

The preparation of opinions of probable construction costs (OPCC) will be prepared under each task order for each project, beginning at the 90% PP and updates with every subsequent submittal. The Waggoner team's design professionals have extensive experience in the DOTD Purple Book, pay item list, special provisions, and developing specifications for non-standard items. The team also has experience with and understand the requirements for breaking down quantities by construction funding sources and control sections when project limits extend across control sections and/or parish lines.

### CONSTRUCTION RELATED ENGINEERING SERVICES

Our team will remain involved with the project into the construction stage. This includes working with the DOTD PM, District personnel, and the CE&I consultants to address RFI's, assisting with solutions to unforeseen field conditions, reviewing project submittals from the contractor, and preparing plan changes when necessary. We will review each of these submittals to ensure conformity with the contract plans and specifications.

### TYPICAL PROJECT SCHEDULE

Waggoner has worked on numerous DOTD projects and understands the delivery and production processes for this type of project. This allows our team to "hit the ground running" and accelerates the project initiation phase, which is a large part of the work effort. We have prepared a sample project schedule representing a typical TO under this contract, highlighting the major milestones and deliverables. (see sample to the right)

### ADDITIONAL SERVICES

### TRAFFIC ENGINEERING AND DESIGN SERVICES

**While it is not anticipated that robust traffic engineering services will be required under this contract, Vectura can offer the following services, should the need become necessary for Transportation Systems Management (TSM) implementations.**

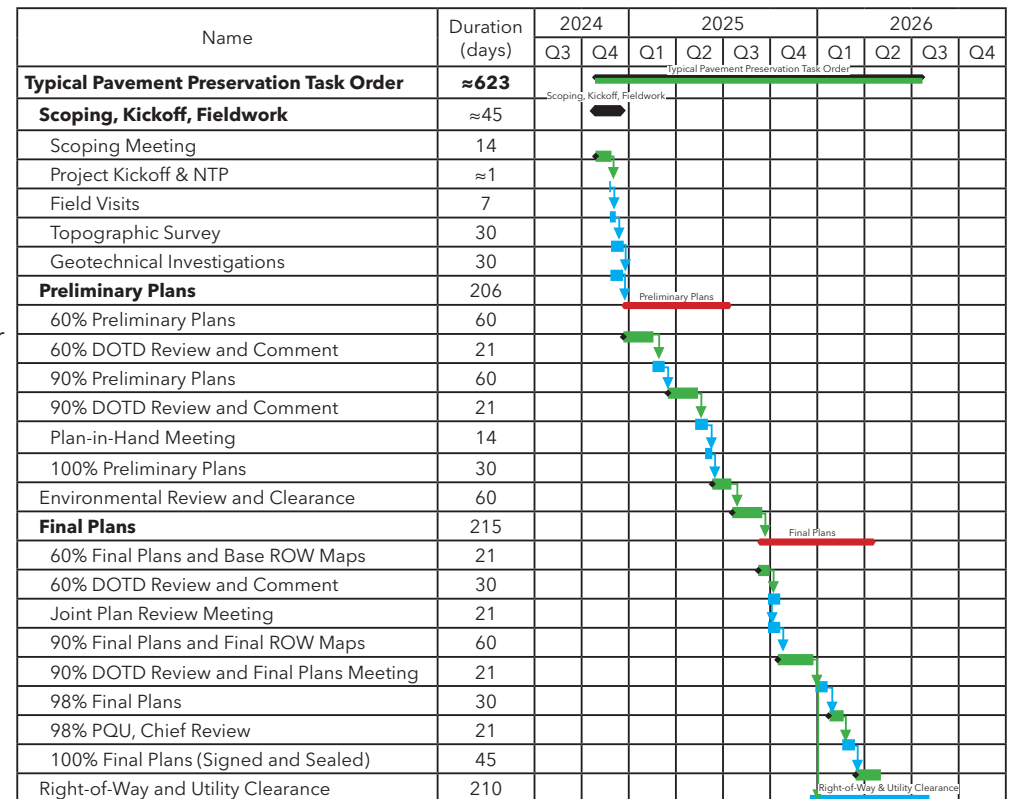
**Traffic Data Collection:** Data collection will be performed in accordance with procedures and specifications included in the DOTD Traffic Engineering Manual, ITE Manual of transportation engineering studies, MUTCD, FHWA Traffic Monitoring Guide, Highway Capacity Manual, and The Manual of Transportation Engineering Studies (2nd Edition).

**Traffic Modeling and Analysis:** We utilize TranPLAN, TransCAD, CORSIM, VISSIM, HCS, Sidra, and Synchro to analyze and compare alternatives. Our Vectura traffic discipline leads have a complete understanding of how to format Traffic related studies and reports to DOTD's standards.

**Traffic Control Analysis:** The Waggoner team has experience preparing traffic control analyses for applications such as Intersection Control Evaluations, Access Management, Queue Analyses in accordance with DOTD EDSMs and policies. We have experience with FHWA Cap-X tools, Safety Performance for Intersection Control Evaluation (SPICE) tools, Sidra, Vissim, and HCS software. Traffic signal design, operations, equipment, signs, inventory, and signal plans are prepared according to DOTD's Signal Manual.

**Intersection Control, Signing, & Pavement Marking Design:** The Waggoner team's traffic and road design experts are trained in applying the MUTCD, DOTD Pavement Marking Manual, DOTD Sign Manual, and standard plans. This includes regulatory, warning, guide and construction zone signing, temporary and permanent pavement markings, and signalization.

**Transportation Management Plans:** The Waggoner team follows EDSM VI.1.1.8 requirements for TMP development. Our engineers will coordinate with DOTD to obtain traffic volume and safety data to perform safety analysis and alternative route analysis.









**Sections 19-23**



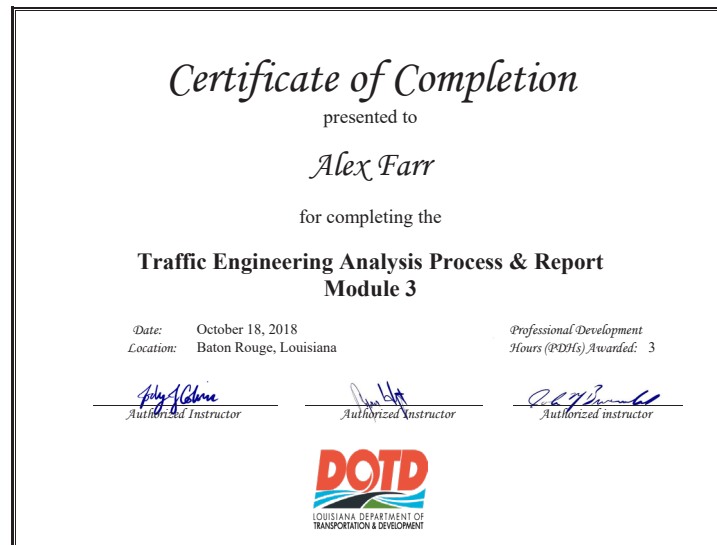
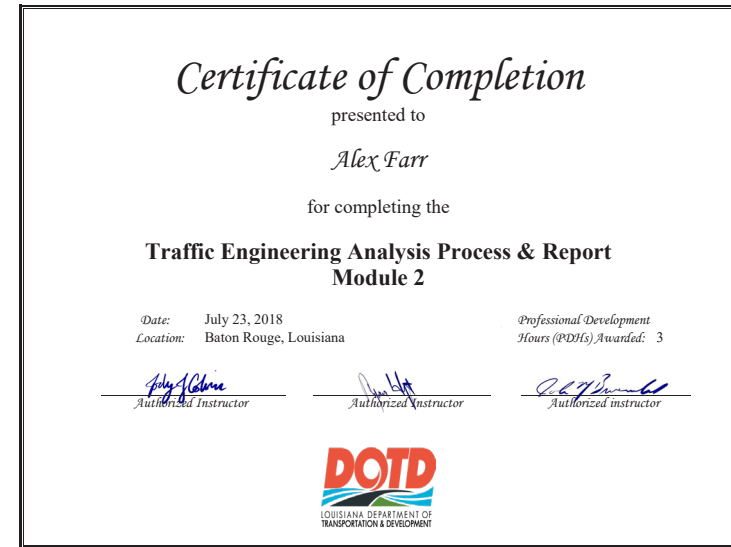
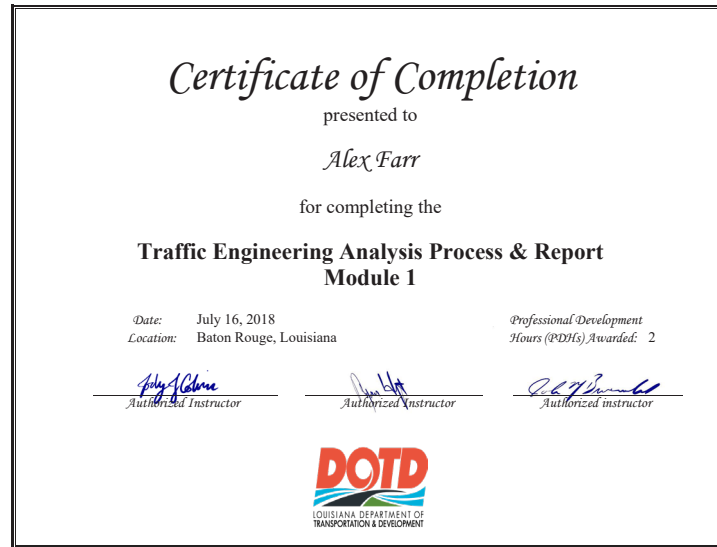
**19. WORKLOAD:**

Firm(s) ALL FIRMS MUST BE REPRESENTED IN THIS TABLE	Past Performance Evaluation Discipline(s)	Contract Number and State Project Number	Project Name	Remaining Unpaid Balance
 <b>WAGGONER</b> FORMERLY SIGMA CONSULTING GROUP	Road	44-19379, H.013797	LA 30: EBR PL - I-10 (Environmental Assessment)	\$86,020
		44-19010, H.010652	LA 73: US 61 (Airline) - Essen Lane	\$2,349
		44-19010, H.010116	LA 1088: Soult and Trinity Roundabouts	\$25,126
		unavail, H.004791	Belle Chase Bridge & Tunnel Replacement	\$ -
		44-18646, H.004100	I-10: LA 415 to Essen Lane on I-10 and I-12	\$2,924,022
		44-24084, H.009300	CMAR Contract for Hooper Road Widening (LA 3034 - LA 37)	\$ -
		4400004666, H.002868	Ambassador Caffery & US 90 Interchange Construction Support	\$727
	Bridge	4400019338	Rural Bridge Replacement Initiative Phase II (South) (16 Project #'s)	\$443,613
		4400025041	IIJA Off-System Bridge Program, District 62 (6 Project #'s)	\$349,702
 <b>ADAPTIVE</b> MANAGEMENT AND ENGINEERING	Geotech	N/A	N/A	\$ -
 <b>NTBA</b> SURVEY. DESIGN. BUILD. SUCCEED.	Right-of-Way	4400019338 Multiple SP Nos. per bridge	Contract for Rural Bridge Replacement Initiative Phase II, Districts 05, 08, & 58 (Sub to Waggoner)	\$116,805
	Survey	4400019337 Multiple SP Nos. per bridge	Contract for Rural Bridge Replacement Initiative Phase II, Districts 02, 03, 07, 61, & 62 (Sub to BKI)	\$2,078
	Right-of-Way			\$41,246
	Survey	4400017067 LWI Task Order 3	Louisiana Watershed Initiative (LWI) Modeling Contract - Region 1 (Sub to Atkins)	\$3,481
		4400019715 H.008768.5	IDIQ Contract for Hydrographic Surveying Services - Task Order No. 1 - Fall Bridges	\$132,004
	Right-of-Way	4400025041	Infrastructure Investment and Jobs Act (IIJA) Off-System Bridge Program (Sub to Waggoner)	\$11,806
	Survey	4400026587 H.001779	Jimmie Davis Bridge (LA 511) (HBI) Design Build Project, Bossier Parish (Sub to James Construction/Huval & Associates, Inc.)	\$ -
	Other (SUE)			\$118,750
	Right-of-Way			\$ -

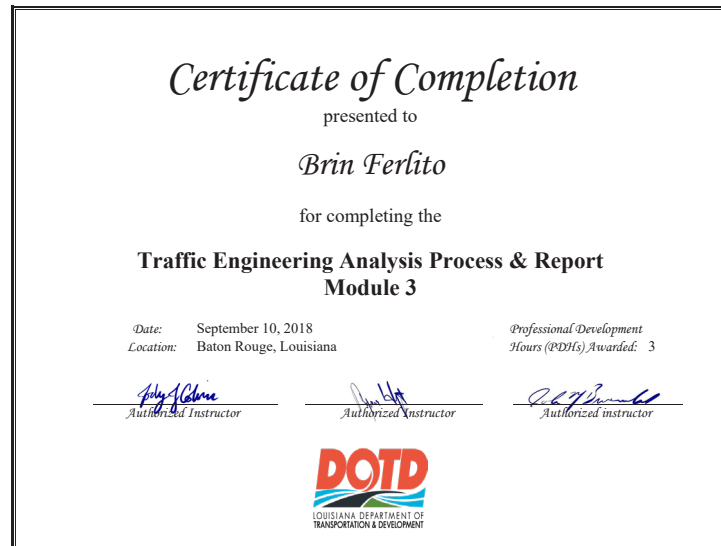
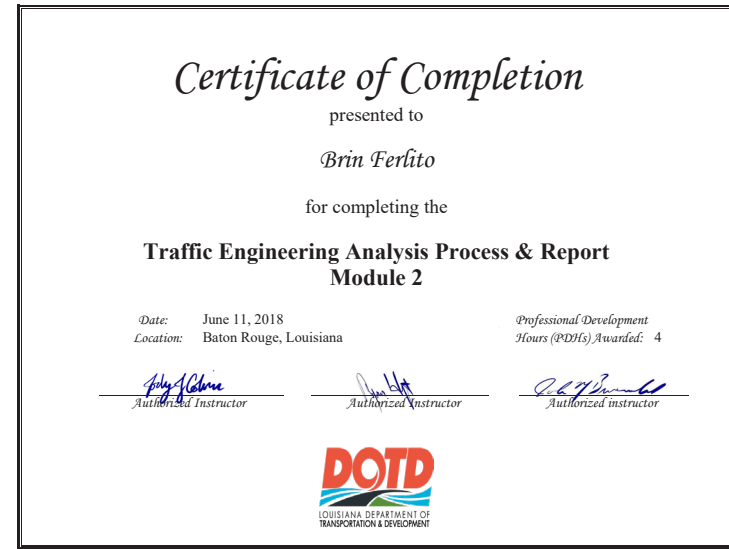
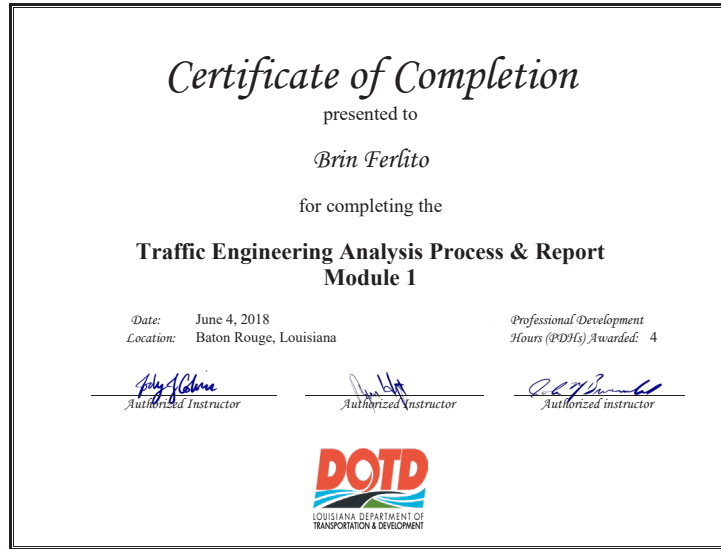


	Traffic	4400017293 H.010616	I-20: LA 544 Overpass Replacement	\$74,429
		4400005484 H.005168.2	New Orleans Rail Gateway Avondale EA	\$71,398
		H.004791	Belle Chasse Bridge & Tunnel Replacement PPP	\$11,202
		4400021519 H.012030.5	KCS RR Overpasses HBI	\$572
		4400023075 H.013522	S. Lewis Street Widening	\$7,499
		4400018271 H.014746.5	LA 383 Stage 0 Corridor Study	\$20,146

## 20. CERTIFICATIONS/LICENSES:

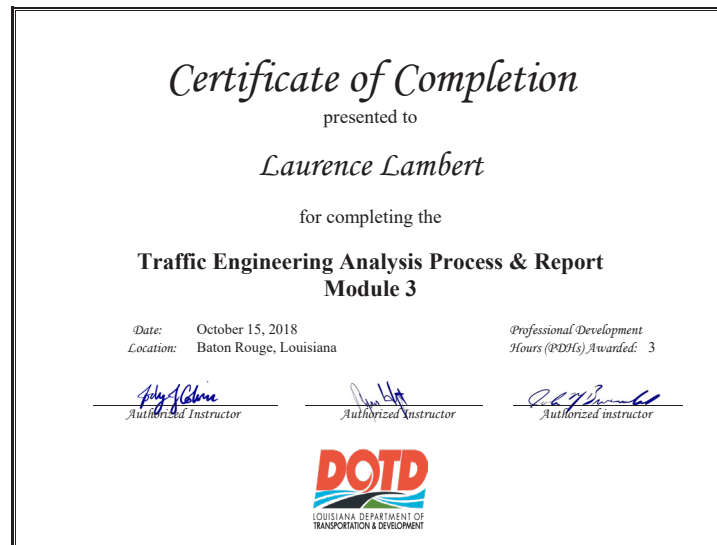
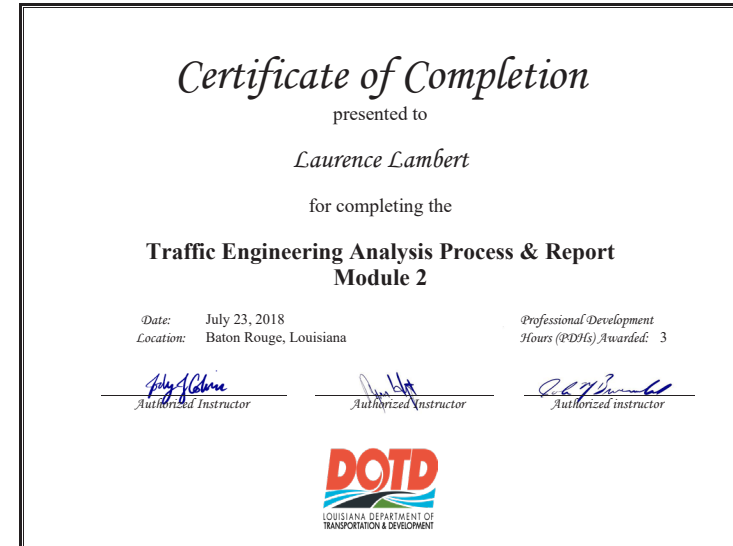
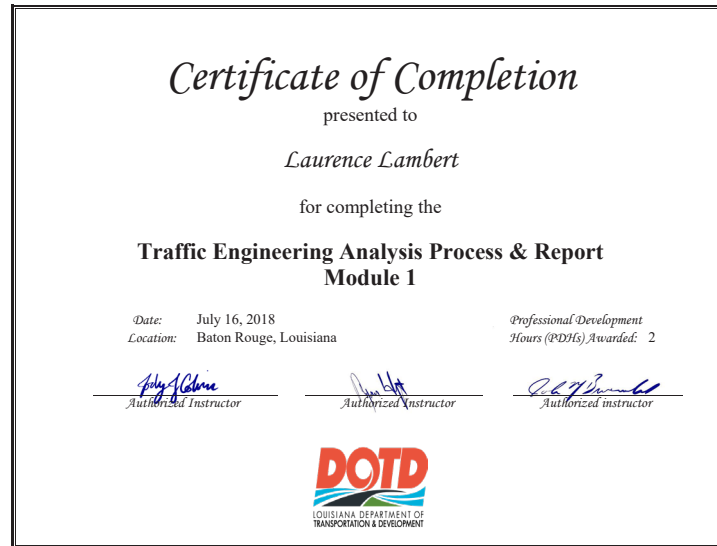


## 20. CERTIFICATIONS/LICENSES:

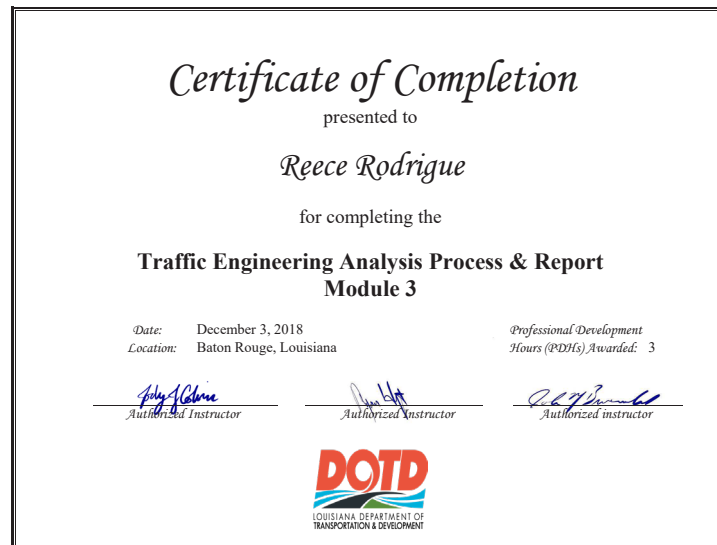
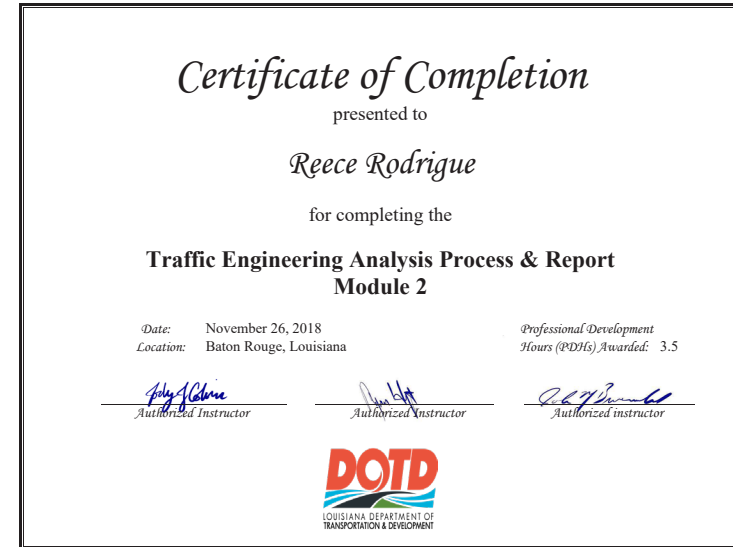
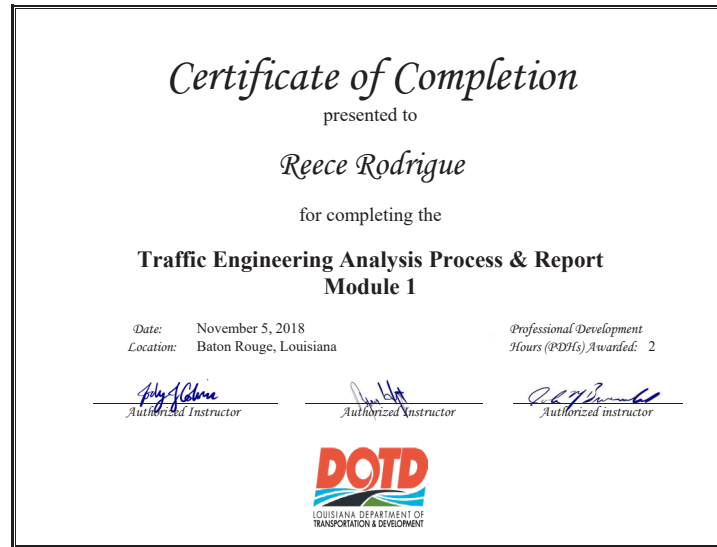




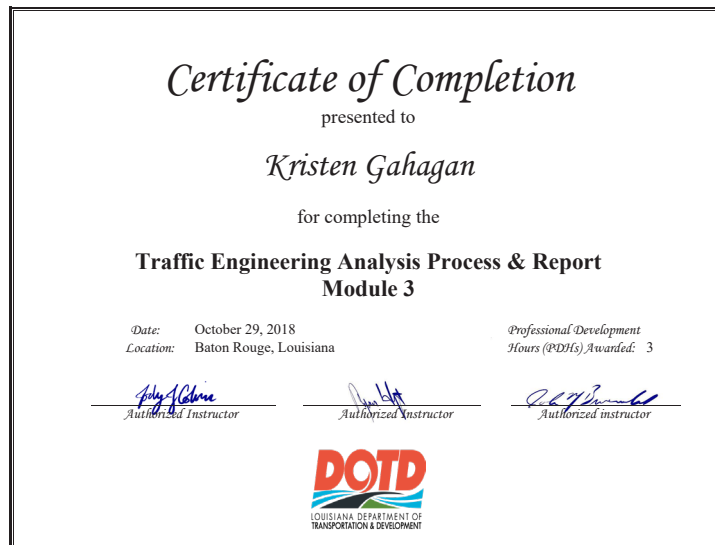
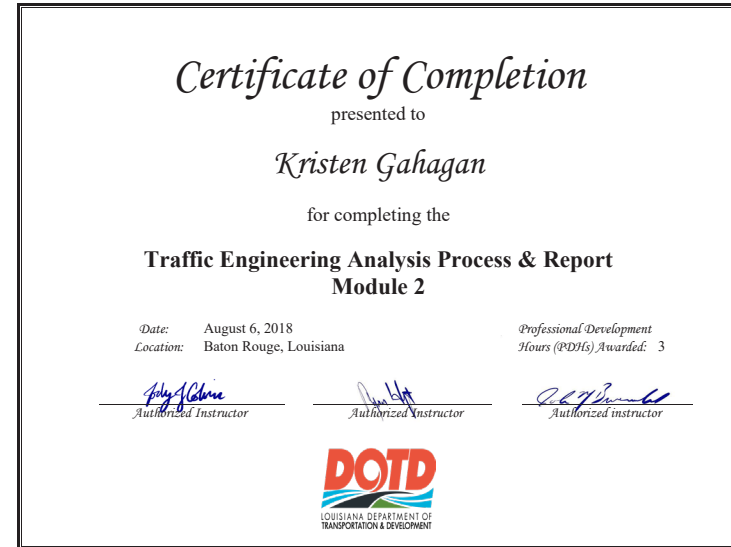
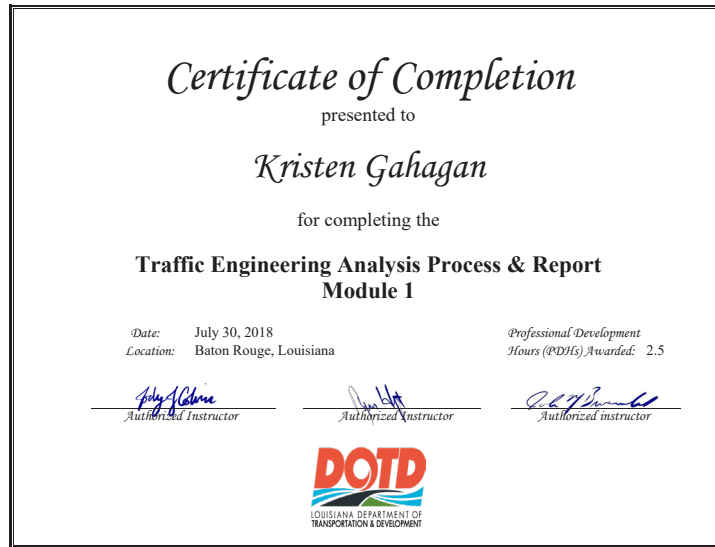
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**20. CERTIFICATIONS/LICENSES:**





## 20. CERTIFICATIONS/LICENSES:



## 20. CERTIFICATIONS/LICENSES:



## 20. CERTIFICATIONS/LICENSES:



## 20. CERTIFICATIONS/LICENSES:

**ATSSA** American Traffic Safety Services Association  
SAFER ROADS SAVE LIVES

*This is to affirm that*

**RYAN WILLIAMSON**

*has satisfied the requirements to be designated as a*

**CERTIFIED FLAGGER**

Issue Date 10/20/2023 Instructor Name Debbie Purcella

Exp. Date 10/20/2027 State Issued LA

*Debbie Purcella*  
Instructor Signature

V0000278283 Verify at [Flagger.com](http://Flagger.com)

 Office of Conservation | Department of Energy and Natural Resources  
STATE OF LOUISIANA

**WATER WELL CONTRACTOR'S LICENSE**

The Office of Conservation  
for the Department of Energy and Natural Resources  
State of Louisiana

hereby acknowledges that

**ADAPTIVE MANAGEMENT ENGINEERING**

*Michael McKinney*

has been licensed to drill monitoring wells under the provisions of R.S. 38:3098  
and is entitled to practice in the state of Louisiana as a Water Well Contractor.

This License is non-transferable and expires June 30, 2025 unless  
renewed, revoked or suspended by the licensing authority as prescribed by statute.

Signed and sealed this 28th day of June, 2024

*Benjamin C. Bienvenu*  
**BENJAMIN C. BIENVENU**  
COMMISSIONER OF CONSERVATION  
Office of Conservation  
Louisiana Department of Energy and Natural Resources

License No. WWC- # 867

**Certificate of Training**

this certifies that

**Jace Ricard**

has successfully completed the training  
program requirements for

**ATSSA Online Flagger Certification Training Course**

Awarded on this 1st day of April 2021





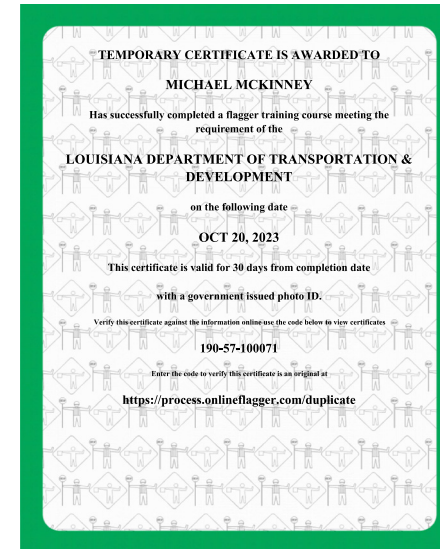
## 20. CERTIFICATIONS/LICENSES:



## 20. CERTIFICATIONS/LICENSES:



## 20. CERTIFICATIONS/LICENSES:



**21. QA/QC PLAN:**

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



**22. SUBCONSULTANT INFORMATION:**

Firm Name (as registered with Louisiana's Secretary of State)	Address	Point of contact and Email Address	Phone Number
Adaptive Management & Engineering, LLC	11429 Pennywood Avenue Baton Rouge, LA 70817	Venu Tammineni   Principal venut@amesouth.com	225.424.7869
NTB Associates, Inc.	Corporate Headquarters: 525 Louisiana Avenue Shreveport, LA 71101 Branch Office: 8643 Main Street Zachary, LA 70791	Bryan T. Bunch, PLS   Vice President   Special Projects Engineer bbunch@ntbainc.com	225.751.4002
Vectura Consulting Services, LLC	4467 Bluebonnet Blvd., Suite A Baton Rouge, LA 70809	Sheelagh Brin Ferlito, PE   Partner 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.

